Environmental Restoration Program
Sewall's Island Site #E623021
400 Pearl Street
City of Watertown
Jefferson County, New York

Remedial Investigation, Interim Remedial Measure, and Alternative Analysis Report

Prepared For:

City of Watertown
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Watertown, New York 13601

Prepared By:

Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL

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Certification

I, Robert W. Hutteman, am currently a registered professional engineer licensed by the State of New York. I had primary direct responsibility for implementation of the remedial program activities, and I certify that the Remedial Investigation and Interim Remedial Measures were implemented and that all construction activities were completed in substantial conformance with the DER-approved Interim Remedial Measures Work Plan and Addendum.

I certify that all documents generated in support of this report have been submitted in accordance with the DER's electronic submission protocols and have been accepted by the Department.

I certify that the data submitted to the Department with this Remedial Investigation, Interim Remedial Measure, and Alternative Analysis Report demonstrates that the remediation requirements set forth in the Work Plan and in all applicable statutes and regulations have been or will be achieved in accordance with the time frames, if any, established in the specifications.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Robert Hutteman, of Lu Engineers, 175 Sully's Trail, Suite 202, Pittsford, New York, am certifying as Owner's Designated Site Representative for the site.

STATE OF NEW YORK
ROBERT WILLIAM HUTTEMAN
072062
LICENSED PROFESSIONAL ENGINEER

NYS Professional Engineer #	01-16-13 Date	Robert W. Hutteman, P.E.

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Executive Summary

Lu Engineers has prepared this Final Engineering Report on behalf of the City of Watertown to present findings of the remedial investigation (RI) and interim remedial measures (IRMs) at the Sewall's Island Site #E623021 (the "Site"), located at 400 Pearl Street in the City of Watertown, Jefferson County, New York.

Based on record review, from 1823 until approximately 1853, a foundry and machine shop were operated on the property until it was sold to Bagley & Sewall, founded in 1853. After 1853, the island property west of Pearl Street was used by Bagley & Sewall who produced engines, boilers, mowing machines, bench vices, rotary pumps, iron castings for sewing machines, and printing presses. Around this same time, the portion of the island north of the tracks was used as Davis Sewing Machine Works, while south of the tracks was vacant land.

A rail line operated across the island from the late 1800s until the early 1990s, with multiple spurs servicing the various industries located on the island. A large coal platform and turntable were also indicated on historical photographs and maps.

Black Clawson and earlier owners operated a foundry on the island, which used coal and coke for its boilers and in the cupolas that were used for smelting of steel, iron, and copper. In 1990, Black Clawson Company ceased production at the property. Black Clawson began an environmental assessment and demolition of the Site buildings followed by an investigation of the island. The City of Watertown obtained the property from Black Clawson in 2006, and the Site has remained vacant since that time.

Beginning in 2007, Lu Engineers was retained by the City of Watertown to conduct a RI and IRMs under a NYSDEC State Assistance Contract. RI and IRM activities were conducted at the Site from June 2008 to December 2011.

The investigation included the following tasks:

- 2 Geophysical surveys
- Collection of 42 surface soil samples
- Excavation of 87 test pit excavations
- Installation of 37 subsurface soil borings
- Collection of 97 subsurface soil samples (from test pits and soil borings)
- Installation of nine (9) groundwater monitoring wells
- Collection of 9 groundwater samples (from monitoring wells)
- Aquifer testing
- Site survey

The IRM portion of this project consisted of the following:

- Site clearing and preparation

- Test pit excavation, drum removal, soil and waste sampling in the former landfill area (PAOC1)
- Installation of a Total Fluids Extraction (TFE) system including removal of approximately 70 gallons free phase oil from groundwater and vapor phase contaminants from subsurface soils in the former spill area (PAOC2)
- Excavation and disposal of approximately 570 tons mercury-contaminated soil (PAOC3)

Soil and groundwater samples were analyzed by Mitkem and Paradigm Environmental Services, both appropriately accredited analytical laboratories.

The majority of the island portion of the Site includes varying depths of historical fill, mainly foundry sand, sand, stone, gravel, slag, coke, ash, glass, metal, and building demolition debris consisting of concrete, brick and wood. Primary contaminants detected in surface and subsurface soils are polycyclic aromatic hydrocarbons (PAHs) and metals which were detected across the majority of the island at levels exceeding the New York State Department of Environmental Conservation (NYSDEC) Commercial and Industrial Use Soil Cleanup Objectives (SCOs) (6 NYCRR Part 375-6b). These contaminants can be attributed to the processes and practices used throughout the longstanding industrial history at the Site. PAHs and metals were also detected at levels exceeding the New York State Department of Environmental Conservation (NYSDEC) Commercial and Industrial Use SCOs at two locations off the island, south of Water Street. Contaminants identified appear to be relatively immobile and do not represent a potential for off-site migration.

Based on investigation data collected, groundwater contaminants at the Site are limited to MW-2S and MW-7 and include fuel oil at MW-2S and non-petroleum related VOCs at MW-7. The fuel oil contamination is reportedly a result of a fuel spill associated with the former rail line in this area. The source of contamination in MW-7 is unknown.

It is anticipated that future use of the Site would fall under the Commercial Use category, as defined in 6 NYCRR Part 375-1.8(g)(2), based on the intended use of the site for commercial purposes, multi-unit residential housing, parking, and parkland.

A remedial alternatives analysis was performed using the selection criteria set forth in 6 NYCRR 375-1.8(f) and summarized in Section 8.2.2 of this report.

Based on a preliminary screening of available remedial options, the following alternatives were further evaluated to address subsurface soil and groundwater contamination:

- No Further Action
- Engineering/Institutional Controls and Long-Term Monitoring
- Unrestricted Use Option- Soil Removal and Disposal with Groundwater Extraction and Treatment

No further action with engineering/institutional controls and long-term monitoring is the recommended remedial alternative, based on the criteria in Section 8.1.2. This alternative would satisfy the RAOs developed for the Site and render the Site suitable for commercial use, including passive recreational uses. Additional soil and groundwater remedial efforts do not justify the exorbitant cost and short-term risks, considering that all exposure pathways can be eliminated through use of engineering/institutional controls while still allowing full intended use of the Site.

1.0 Introduction

Lu Engineers has prepared this Remedial Investigation, Interim Remedial Measure, and Alternative Analysis Report for the City of Watertown (The City) for submission to the NYSDEC Region 6 Division of Environmental Remediation (DER). This report has been prepared in accordance with the "Municipal Assistance for Environmental Restoration Projects" Procedures Handbook and DER-10 "Technical Guidance for Site Investigation and Remediation."

The City has received a State Assistance Contract (SAC) under the NYSDEC 1996 Clean Water/Clean Air Bond Act - Environmental Restoration Program (ERP) for the Sewall's Island Site #E623021 (the "Site") located in the City of Watertown, New York. The City used these funds to complete Remedial Investigation (RI) work and interim remedial measures (IRMs) as described in the following NYSDEC-approved work plans:

- *Remedial Investigation Work Plan, October 2007* by Lu Engineers;
- *Interim Remedial Measures Work Plan,* August 2009 by Lu Engineers;
- *Update Regarding Proposed Interim Remedial Measures, PAOC2* letter dated July 8, 2010; and
- *Pilot Test for Proposed Interim Remedial Measures, PAOC2* letter dated September 3, 2010.

1.1 Purpose of Report

The purpose of this report is to present findings of the RI and IRMs conducted by Lu Engineers at the Site. This report also provides an evaluation of alternatives for addressing environmental impacts.

1.2 Site Description

The Site is located at 400 Pearl Street in the City of Watertown, Jefferson County, New York (Figure 1). It consists of ten parcels totaling 25.46 acres, owned by the City of Watertown. The Site boundary is shown on Figure 2, and includes Tax ID #s:

- 4-12-101.000
- 4-12-103.001
- 4-12-103.100
- 4-12-105.000
- 4-12-201.100
- 4-13-101.000
- 4-13-103.001
- 4-22-115.000
- 6-06-403.000
- 6-06-404.000

All buildings have been demolished, with the exception of a small abandoned brick building on the north bank of the Black River. Foundations, concrete slabs, and two former dam structures remain on the property. The Site is currently vacant and the majority of it is fenced with locked gates. Unfenced property included in the Site is located north of the north branch of the Black River.

1.3 Site History

Based on review of historical records, it is known that the Site was used for industrial purposes, including a rail line with multiple spurs, from the late 1800s until the early 1990s. Companies that occupied the Site include:

- Bagley & Sewall's producers of engines, boilers, mowing machines, bench vices, rotary pumps, iron castings for sewing machines, and printing presses;
- Excelsior Carriage Company;
- Remington Paper Company/ International Paper;
- Continental Paper Bag Company;
- Davis Sewing Machine Works;
- A building supply company; and
- Black Clawson Company.

Additional detail relevant to the Site history was provided in the *Remedial Investigation Work Plan* (Lu Engineers, October 2007).

A rail line operated across the island from the late 1800s until the early 1990s, with multiple spurs servicing the various industries located on the island. A large coal platform and turntable were also indicated on historical photographs and maps.

Black Clawson and earlier owners operated a foundry on the island, which used coal and coke for its boilers and in the cupolas that were used for smelting of steel, iron, and copper. In 1990, Black Clawson Company ceased production at the property. Black Clawson began an environmental assessment and demolition of the Site buildings followed by an investigation of the island. The City of Watertown obtained the property from Black Clawson in 2006, and the Site has remained vacant since that time.

1.4 Previous Investigations

Previous environmental investigations include:

- *Site Investigation & Remedial Report* (GYMO, November 29, 2001); and
- Phase I Environmental Site Assessment, Lu Engineers, March 2007.

The GYMO investigation was conducted in 1998 for the Black Clawson Company for parcels 4-12-101, 4-12-103, 4-12-103, and 4-12-201.1 on the island. At the time of the

report, there were a number of buildings still located at the Site. According to the report, the facility used a variety of chemicals including sodium hydroxide, various silicas, resins, paints, fuels, transformer fluids, waste oils, and cleaning materials. The investigation determined that all documented chemicals located on site had been removed and properly disposed of.

The report also identified a petroleum spill in 1998 on the southern side of the island (Spill #9810485). The source of the spill was not identified in the report. Sample analysis identified the petroleum as #2 fuel oil.

In 1998, GYMO performed a limited subsurface investigation including 26 Geoprobe borings (Figure 3). According to the report, samples were randomly selected for laboratory analysis of metals, volatiles, SVOCs, mercury, cyanide, PCBs, and petroleum. Analytical results show detections of petroleum-related VOCs in boring samples B-18, B-21, B-22, B-23, and B-24 in the vicinity of the reported spill. Elevated levels of heavy metals including arsenic, chromium, copper, lead, and mercury were detected in borings across the island. Lab results are summarized and compared to current soil cleanup objectives (SCOs) in the attached Table 1.

A *Phase I Environmental Site Assessment* (Lu Engineers, 2007) was completed for the City of Watertown for the Site. The assessment identified the following recognized environmental conditions (RECs):

- the long history, over 150 years, of industrial use at the Site, including the operation of a foundry, the railroad, and coal storage;
- the spill ID #9810485 reported at the Site, where petroleum contamination was encountered while GYMO was conducting its subsurface investigation;
- the presence of slag, ash and cinder material noted at the Site during the Site walkover; and
- the reported presence of 55-gallon drums buried on the Site.

Based on these findings, Lu Engineers recommended further investigation to determine:

- overall soil and groundwater quality and impacts associated with a long history of industrial use
- if all underground tanks, containers and associated contents have been removed from the Site
- the vertical and horizontal extent of identified contamination
- the extent of slag and foundry sand disposal at the Site and associated exposure pathways
- if any off-site impacts have occurred due to past industrial use at the Site

1.5 Report Organization

This report is organized into sections based on the suggested RI report format provided in the *NYSDEC Municipal Assistance for Environmental Restoration Projects Procedures Handbook (July 2004)*. Sections 1.0 through 7.0 are associated with the remedial investigation portion of the project. Sections 8.0 and 9.0 contain an evaluation of remedial alternatives for addressing environmental impacts that exist at the Site. These sections are summarized below.

Section 1.0 – Introduction: This section provides the purpose and objective of the RI and presents Site background information including Site history and previous investigations and remedial work.

Section 2.0 – Investigation and IRM Activities: This section of the report presents the investigative work and IRM conducted as part of this project, as well as any modifications made to the scope of work outlined in the approved work plan.

Section 3.0 – Physical Site Characteristics: This section describes the physical characteristics such as surficial features, geology, surface and subsurface hydrology, demography, and land/water use.

Section 4.0 – Nature and Extent of Contamination: This section of the report presents the sample analytical results of the various sampling activities discussed in Section 2.0. Findings from the IRM are also discussed.

Section 5.0 – Contaminant Fate and Transport: This section contains information on the fate and transport of contaminants detected at the Site. This includes a discussion of potential routes of migration, contaminant persistence, and contaminant migration.

Section 6.0 - Exposure Assessment: This section provides a qualitative public exposure assessment for the constituents of concern discussed in Section 4.0.

Section 7.0 – Summary and Conclusions: This section summarizes the findings of the investigative work that was conducted as a part of this project and provides recommendations for additional work, if necessary.

Section 8.0 – Identification and Development of Alternatives: This section of the report discusses the alternatives intended to address environmental impacts at the Site. The contaminants of concern and remediation goals are also identified in this section.

Section 9.0 - Detailed Evaluation of Alternatives: This section of the report presents a detailed evaluation of the remedial alternatives for addressing the environmental impacts at the Site. The recommended alternative is also identified.

2.0 Investigation and IRM Activities

Remedial investigation and IRM activities were conducted at the Site from June 2008 to December 2011. The investigation included the following tasks:

- Geophysical surveys
- Surface soil sampling
- Test pit excavations and sampling
- Subsurface soil borings and sampling
- Installation of nine (9) groundwater monitoring wells
- Groundwater sampling
- Aquifer testing
- Site survey

The IRM portion of this project consisted of the following:

- Site clearing and preparation
- Test pit excavation & drum removal in the former landfill area
- Excavation and disposal of approximately 570 tons mercury-contaminated soil
- Total fluids extraction to remove free phase oil from groundwater in the former spill area

2.1 Geophysical Survey

Geophysical surveys were conducted at the subject Site in two phases, first in June of 2008 and later in November 2009. The 2008 geophysical survey was completed as part of the initial subsurface investigation portion of the RI and focused on areas as identified in the preliminary project research as having a high potential for containing buried metallic objects such as tanks and drums. The second phase of geophysical investigation at the Sewall's Island Site was intended to identify the location of potential buried metallic objects such as drums and/or tanks within the "landfill" area located in the south-central portion of the island. Geophysical mapping from both survey phases is presented in Figures 5A and 5B.

On June 10-11, 2008, Lu Engineers conducted an electromagnetic geophysical survey utilizing a GSSI, Incorporated "Profiler" model EMP-400. The Profiler contains two sets of coils located on opposite ends of the tool. One set of coils is used to transmit a primary magnetic field, which generates an electrical current into the ground. The induced current then generates a secondary magnetic field, which is sensed by the coils in the receiver end of the instrument. Data is then displayed on a control unit indicating electromagnetic conductivity. This data is stored on a portable electronic data logger and downloaded to a lap top computer for mapping using Golden Software, Inc's Surfer (Version 8) mapping program.

The June 2008 geophysical mapping locations were selected based on available historical mapping. A total of 6 grids were mapped using this method. Mapped data is presented

on Figure 5A. Anomalies were investigated by test pitting as described in Section 2.3. The majority of the mapped areas were found to be free of substantial anomalies that could not be associated with surface interference. The survey grid mapped in the "landfill" area identified a cluster of anomalies that were subsequently determined to be associated with buried metal, but no drums or other waste containers.

Additional geophysical survey work was completed in the "landfill" area on November 10-11, 2009. Ten grids were completed at locations shown on Figure 5B. The November 2009 geophysical surveys were intended to help characterize the "landfill" portion of the Site and to establish the location of substantial magnetic anomalies indicative of waste disposal. During this survey effort, a Geonics, Incorporated EM-61 Mark II magnetometer was used to eliminate the effect of interference from the large amounts of surface metal in the "landfill" portion of the Site. The instrument operated on the same electromagnetic principal as the GSSI Profiler, but has a more sensitive antenna and more powerful transmitter, which allows greater depth penetration. Data generated during the survey was stored in the instrument and later downloaded to a computer for mapping using Surfer 8 by Golden Software as indicated on Figure 5B.

The survey included six grids covering accessible areas of the property. Notable gaps due to inaccessibility with the geophysical equipment in the 2009 survey are evident on the mapping developed from the survey data. Test pits were excavated in areas where access was not possible during the survey (as illustrated on Figure 10) as well as the location of each anomaly. The resulting geophysical maps are presented as Figures 5a & 5b. Mapping indicated the presence of numerous geophysical anomalies throughout the survey area. Each of these was evaluated by test pitting as described in Section 2.7.1. The geophysical survey helped to identify the location of at least four buried waste containers.

2.2 Surface Soil Sampling

A total of 42 surface soil samples were collected from across the Site on August 19-20, 2008, as indicated on Figure 4. Sampling was conducted in accordance with the method provided in the approved *Remedial Investigation Work Plan* (October 2007).

Samples were collected from 0-2 inches below the vegetative cover using a pre-cleaned stainless steel spoon or hand trowel to transfer the soil into glass sample jars. Surface soil sample logs are included in Appendix B.

Surface soil samples were stored on ice in a cooler prior to shipment to Mitkem, the subcontracted laboratory for this portion of the project. All samples were analyzed for VOCs (EPA Method 8260), SVOCs (EPA Method 8270), TAL metals, and PCBs. Results of the sampling are discussed in Section 4.1 and Table 2. Surface soil contaminants detected at concentrations exceeding the Commercial Use cleanup objectives are illustrated on Figure 4a.

2.3 Test Pits

A total of 48 test pits (TP-01 through TP-48) were completed on September 8-12, 2008. Test pits were excavated by Paragon Environmental Construction, Inc. (Paragon) to investigate anomalies identified by the geophysical survey and characterize fill material. Test pit locations are shown on the attached Sub-Surface Soil Sample Location Plan (Figure 6).

Excavated soils were screened by Lu Engineers using a MiniRAE 2000 photoionization detector (PID) and subsurface observations were recorded on Test Pit Logs, included in Appendix B. The primary soil type encountered in all test pits was fill material generally consisting of black foundry sand, brown sand, coke, slag, ash, brick, wood (including railroad timbers), metal, concrete, silt and gravel.

Test pits TP-1 through TP-8 were excavated on the triangle-shaped parcel of the island, northwest of Pearl St. The depth at which weathered bedrock was encountered in these test pits varied from 3 feet at TP-01 to 15 feet below ground surface (bgs) at TP-02. No elevated PID readings or indications of contamination were observed in these test pits.

Test pits TP-9 through TP-18 were excavated on the eastern portion of the island. The depth to bedrock in these excavations ranged between 2 feet bgs at TP-16 and 18 feet bgs at TP-15. The greatest depths of fill in this portion of the site were found along the eastern shoreline (TP-13 & TP-15). No elevated PID readings or indications of contamination were observed in these test pits.

Test pits TP-19 through TP-24 and TP-34 through TP-48 were excavated south of Pearl St. and north of the former railroad bed. The depth to weathered bedrock in these excavations ranged from 2 feet bgs at TP-46 to 21 feet bgs at TP-39. Test pit TP-21 revealed PID readings to 30 ppm and petroleum-type odors at a depth of 17-18 feet bgs, where bedrock was encountered. Black staining was noted in the soil at this depth and a sheen was observed on the groundwater surface as it infiltrated into the excavation. A headspace reading of 95 ppm was observed on soil collected from this depth interval.

It is noted that a 15 foot section of former sewer pipe was removed from between the foundation wall and its river bank outfall during the excavation of TP-21. No contents, odors or PID readings were observed in this pipe at the time of removal. TP-22 revealed PID readings to 60.4 ppm on soil between 6.5 to 16 feet bgs. From 16 to 18 feet bgs, a strong petroleum odor was noted and a peak PID reading of 43.6 ppm. Elevated PID readings and petroleum odors were also observed in TP-23, with a peak reading of 12.7 ppm at the weathered bedrock surface, 5 to 5.5 feet bgs.

Test pits TP-25 through TP-33 were excavated off the island, along the south side of Water Street. Fill materials consistent with those found on the island were observed in these excavations. Depths across this portion of the Site ranged from 0.2 feet bgs at TP-32 to 9 feet bgs at TP-27. No elevated PID readings or indications of contamination were observed in these test pits.

On September 11, 2008, two 55-gallon waste drums were uncovered in TP-38. The drums were accidentally punctured during the test pit excavation process and a portion of the contents were released to the ground surface. Immediately following the waste drum discovery, the NYSDEC was notified and Spill #0806564 was assigned to the incidental releases. This spill was closed by the NYSDEC on October 7, 2008. Observations made during the excavation of TP-38 and TP-39 indicated that this triangular area had been used as a landfill area for foundry sand waste and other previously mentioned fill materials.

The drum contents were sampled for characterization and were then over-packed for proper staging prior to disposal. Soils affected as a result of the drum punctures were staged on 6-mil poly sheeting, sampled, and covered. The liquid waste in Drum 1 was identified as a mixture of gasoline and lube oil; Drum 2 as mineral spirits. Drum 1 soils were characterized as hazardous due to concentrations of chromium, lead, and trichloroethene (TCE). Drum 2 soils were characterized as hazardous waste due to ignitability and RCRA levels of chromium, lead, mercury, and TCE. Further subsurface investigation of the landfill area was halted due to the discovery of the drums.

A drum removal IRM Work Plan was subsequently submitted by Lu Engineers to the NYSDEC which identified this area as PAOC-1. In accordance with the approved Work Plan, a drum removal IRM, including an additional geophysical survey (see Section 2.1) and excavation of 39 additional test pits (TP-1B through TP-39B) in the landfill area was conducted between November 2009 and January 2010. Results of this IRM are further described in Section 2.7.1. Test pit investigations in the landfill area identified fill materials up to approximately 30 feet deep.

34 test pit soil samples were submitted to Mitkem during the first round of test pits, for analysis of the following parameters:

- Volatile organic compounds (VOCs) (by EPA Method 8260B)
- Semi-volatile organic compounds (SVOCs) (by EPA Method 8270)
- TAL Metals (by EPA Method 6010)
- PCBs (by EPA Method 8082)

An additional 17 soil samples were submitted to Paradigm Environmental Services, Inc. (Paradigm) from the second round of test pits, for analysis of the following:

- Volatile organic compounds (VOCs) (by EPA Method 8260B)
- Semi-volatile organic compounds (SVOCs) (by EPA Method 8270)
- TAL Metals (by EPA Method 6010)

Soil analytical results are summarized in Section 4.2 and Tables 3-1 and 3-2.

2.4 Soil Borings and Sampling

A total of 37 soil borings (designated as SB-01 through SB-37) were completed on September 2-11, 2008. The borings were performed by Paragon using a track-mounted

Mobile B-48 drill rig. Locations of the test borings are shown on Figure 6 – Sub-Surface Soil Sample Results.
Soil samples were continuously collected in split spoon samplers at 2-foot intervals beginning at the ground surface and continuing until refusal was encountered. The split spoon sampler was advanced inside 3.25-inch inner diameter hollow stem augers (HSAs) using a 140-lb. autohammer and blow counts were recorded per 6-inch depth interval. The depth of refusal ranged from 1 foot to 32 feet below ground surface (bgs). Once splitspoon refusal was encountered, the HSAs were advanced to refusal, presumably at the overburden-bedrock interface based on soil sample and drilling observations.

A Lu Engineers geologist screened each retrieved soil sample for the presence of VOCs with a MiniRAE 2000 PID and recorded subsurface lithological soil descriptions on boring logs (Appendix B). Sub surface soil conditions are described in Section 3.4.

A total of 34 soil samples were submitted to Mitkem Corp. for laboratory analysis of the following parameters:

- Volatile organic compounds (VOCs) (by EPA Method 8260B)
- Semi-volatile organic compounds (SVOCs) (by EPA Method 8270)
- TAL Metals (by EPA Method 6010)
- PCBs (by EPA Method 8082)

Results of the sampling are summarized in Section 4.2 and Tables 3-3 and 3-4.

2.5 Monitoring Well Installation and Sampling

Nine (9) groundwater monitoring wells (MW-01, MW-02S, MW-02D, and MW-03 through MW-08) were installed between September 12th and 26th, 2008 to evaluate groundwater conditions across the site. Monitoring well locations are depicted on Figure 8 and Well Construction Diagrams are included in Appendix B.

2.5.1 Well Installation

The nine monitoring wells were installed by Paragon Environmental Construction, Inc., with oversight by a Lu Engineers geologist. Monitoring well locations were selected based on soil boring data, pertinent site features and historical use of the property. Of the nine wells, one nested pair of wells was installed at the MW-2 location (MW-2S and MW-2D) along the river bank on the west side of the island. This nested well pair was installed to assist in evaluating the nature and extent of contamination observed with respect to the spill at PAOC2. Due to variable depths to bedrock and occurrences of water-bearing bedrock fractures encountered at each well location, MW-1, MW-2S and MW-4 were screened across the bedrock/overburden interface while the remaining wells were screened below the bedrock/overburden surface.

Each well was installed using a Mobile B-48 track-mounted all-terrain drill rig. All well borings were advanced through the overburden using 4.25-inch inner diameter HSAs. Overburden soils were continuously sampled in well borings MW-01 and MW-

03 only. Soil sampling was not conducted at the remaining well locations due to close proximity to previously drilled soil borings or extremely shallow bedrock depths (< 2 ft.). A PID was used at each well location to screen the sampled soil or auger cuttings. With the exception of MW-2S and MW-2D, no elevated PID readings were observed. At MW-2, drill cuttings that revealed elevated PID readings were containerized in a drum, along with impacted soil from SB-19.

Once bedrock was encountered in each well boring, a NQ core bit and barrel were used to core the bedrock to the desired depth by rotary methods. Coring was typically advanced in 5 foot runs in each well boring. Upon retrieval, each run of bedrock core was placed in a core box and logged by a Lu Engineers geologist. Logging characteristics include coring intervals, percent recovery, Rock Quality Designation (RQD) and bedrock descriptions. Bedrock descriptions are provided in Section 3.3.

Water from an on-site fire hydrant was used in the coring process to cool and lubricate the bit through a re-circulating tub. A large volume of drill water was lost at each well location during the coring operations, presumably due to heavily fractured zones in the native limestone bedrock. In MW-1, the volume of water lost per 5 foot run averaged between 600 and 700 gallons (approximately 100-150 gallons/foot). A similar rate of coring water loss occurred at each of the other well locations.

Following the completion of coring, a 2-inch diameter Schedule 40 PVC well was placed in each boring, including a 0.01" slot screen and solid riser. Bedrock core observations such as mineral staining within bedrock fractures helped determine the placement and length of each screen interval. Screen lengths ranged from 10 to 20 feet. Wells were constructed with a 00N sandpack from the bottom of the well boring to an average of 2 feet above the top of the screen. A 2 to 3 foot thick bentonite seal was placed above the sandpack and the well was completed with grout to the ground surface. The details of the construction of each monitoring well, associated depths and elevations are illustrated on the Well Construction Diagrams included in Appendix B. All monitoring wells were completed with above-grade steel protective casings.

The following table summarizes the depth at which bedrock was encountered, total well depths and associated well screen intervals.

Well I.D.	Depth to Bedrock (ft. bgs)	Total Well Depth (ft. bgs)	Well Screen Interval (ft. bgs)
MW-1	8.5	27.34	7-27
MW-2S	20	28.34	15-28
MW-2D	20	42.74	32.7-42.7
MW-3	25.5	31.48	27-31*
MW-4	25.5	38.85	23.5-38.5
MW-5	1.5	30.36	19.8-29.8
MW-6	3	34.10	24-34
MW-7	1	40.33	30.2-40.2

MW-8	2	35.52	15.4-35.4

*Well screen set in bedrock void

Decontamination fluids generated by the steam cleaning of the HSAs, core barrels and associated equipment was containerized in a drum and staged on site.

Two (2) soil samples were collected from the well borings: WB1 (MW-1) and WB-03 (MW-3). The samples were submitted to Mitkem for analysis of the following parameters:

- Volatile organic compounds (VOCs) (by EPA Method 8260B)
- Semi-volatile organic compounds (SVOCs) (by EPA Method 8270)
- TAL Metals (by EPA Method 6010)
- PCBs (by EPA Method 8082)

Soil sample results are discussed in Section 4.0 and summarized on Tables 3-3 and 3-4.

2.5.2 Well Development

Monitoring wells were developed on November 5, 2008. Development consisted of gentle surging followed by purging the wells with a submersible Whale® pump to draw sediments out of the sand pack and into the well for removal. Development continued until turbidity improved, or the well was purged dry repeatedly. Turbidity generally decreased at each well during purging. Only wells MW-1, MW-7 and MW-8 pumped dry during the development process. A petroleum odor and slight sheen was observed in MW-2S. Well development observations, measurements and activities were recorded on Well Development Field Records, included in Appendix B.

2.5.3 Groundwater Sampling

Groundwater samples were collected from each of the nine (9) monitoring wells on December 2-3, 2008 in accordance with the methods outlined in the work plan. Samples were collected using disposable polyethylene bailers, as approved by NYSDEC. Sampling data was recorded on Groundwater Sampling Field Records, provided in Appendix B.

Prior to sampling, water levels at all wells were measured with reference to the inner casing elevation and recorded. A minimum of three well volumes was purged from the wells prior to sampling. MW-1, MW-7, and MW-8 were purged dry; therefore, groundwater samples were collected upon recharge. Field parameters including pH, conductivity, and temperature were measured periodically using a Myron 6P water quality meter. Turbidity was measured with a LaMotte 2020e turbidity meter.

The samples were submitted to Paradigm for analysis of the following parameters:

- Volatile organic compounds (VOCs) (by EPA Method 8260B)
- Semi-volatile organic compounds (SVOCs) (by EPA Method 8270)
- TAL Metals (by EPA Method 6010)

A total of 7 rounds of groundwater level readings were obtained between December 2008 and December 2011. A groundwater elevation summary table is presented in Appendix B and a groundwater contour map is included as Figure 8. Figure 8 presents the analytical parameters detected above applicable regulatory standards.

Groundwater sampling results are discussed in Section 4.0 and summarized on Table 4.

2.6 Aquifer Testing

Hydraulic conductivity testing was conducted at permanent monitoring wells MW-1, MW-2S, MW-4, MW-5 and MW-6 on March 31, 2010. This testing consisted of rising head slug tests and was conducted in accordance with the protocols outlined in the approved Work Plan. Hydraulic conductivity information and data including logarithmic graphs for the slug tests are presented in Appendix B.

Rising head slug tests were used to calculate hydraulic conductivity (K) and groundwater velocities. Hydraulic conductivity (the relative mobility of groundwater through soils) values were obtained using the Bouwer and Rice Method (1976) and AQTESOLV for Windows Standard 3.5.

Each test was initiated by measuring and recording the static water level in the well. An In-Situ Level Troll 700 pressure transducer was then lowered into the well, positioned near the bottom of the well screen, and secured. A disposable bailer measuring 3 feet long by 1.5 inches in diameter (1 liter capacity) was then inserted into the well and the water level was monitored until it returned to static level. A hand-held "Rugged Reader" that connects to the pressure transducer was used to establish the aquifer test parameters, initiate and terminate the tests and store the resulting data.

Once the well returned to static level the test was initiated via the "Rugged Reader", logging the data transmitted from the Level Troll transducer to determine the hydraulic conductivity and transmissivity of the soils in the immediate vicinity of each well screen. The slug (bailer) was rapidly withdrawn from the well, evacuating 1 liter of water. As the water level in the well rose back to static level the transducer measured the change in water displacement to the nearest 0.001 of a foot. The rising head data was recorded until the water level returned to approximately 90% of its initial static level.

Groundwater monitoring well elevation data, monitoring well groundwater level measurements and surveyed Black River level measurements collected on February 12, 2010 were used to calculate groundwater elevations for each well and at 5 separate river locations. The groundwater elevations were then used to develop a groundwater potentiometric map, included as Figure 8. This data is considered the best representative information for the Site. Results of the aquifer testing and description of the Site hydrogeology is provided in Section 3.5.

2.7 Interim Remedial Measures (IRMs)

IRMs were completed during the RI to remove potential contaminant sources associated with buried drums, petroleum-impacted groundwater, and mercury-contaminated soil.

These areas were identified as Potential Area of Concern (PAOC)-1, PAOC-2 and PAOC-3, respectively. Activities were conducted in accordance with the approved *Interim Remedial Measures Work Plan* (Lu Engineers, August 2009).

The City of Watertown selected Op-Tech Environmental Services, Inc. (Op-Tech), through a public bidding process, to perform drum and soil removal work (in areas PAOC-1 and PAOC-3). The drum and soil removal IRMs (PAOC-1 and PAOC-3) were completed between December 14, 2009 and January 21, 2010 with oversight provided by Lu Engineers, as described below.

2.7.1 PAOC1 – Drum Removal Area

This area is located on the island, southwest of the rail bed, and encompasses tax parcel 4-12-103.001, which is slightly larger than two acres in size. This area was historically used as a landfill for Bagley & Sewall operations. The majority of the landfill is composed of foundry sand, with varying amounts of coke, slag, brick, metal, and concrete. The landfill area also contains large pieces of the hardened impurities from the molten metals that were used for casting at the Site. The discovery of 2 drums containing hazardous waste during the initial 2008 test pit investigation led to the need for further investigation to be conducted as a drum removal IRM.

A drum removal IRM Work Plan was subsequently submitted by Lu Engineers to the NYSDEC which identified this area as PAOC-1 (Figure 9). A drum removal IRM, including an extensive geophysical survey and excavation of 39 additional test pits (TP-1B through TP-39B) in the landfill area was conducted between November 2009 and January 2010, in accordance with the approved Work Plan. Figure 10 illustrates the results of the November 2009 geophysical survey as described in Section 2.1 and indicates the locations of the second round test pits TP-1B through TP-39B, as well as the respective soil samples collected.

Based on the results of the November 2009 geophysical survey, each resulting anomaly was investigated through test pitting between December 15, 2009 and January 21, 2010. A handheld GPS was used to locate each anomaly in the field to determine where to excavate. At each test pit fill materials were excavated to bedrock by Op-Tech. A total of 23 soil samples were collected from within these excavations. With the exception of the 6 confirmatory closure samples collected from test pits TP-38B and TP-39B where additional buried drums were uncovered, the remaining 17 soil samples were collected from the bedrock-overburden interface. A PID and Jerome® mercury vapor meter were used to screen the soil in each test pit. Soil samples results are summarized on Tables 3-1, 3-2 and 5.

Elevated PID readings and creosote-type odors at the bedrock/overburden interface were observed in test pits TP-13B, TP-14B, and TP-16B. The following table indicates the peak PID reading and corresponding depth within these test pits.

Test Pit	Peak PID Reading (ppm)	Depth of PID Reading (ft.)
TP-13B	21.3	25'
TP-14B	5.1	27'
TP-16B	2.1	17'

A groundwater sample was collected from the bedrock surface in TP-14 (sample TP-14-GW) that exhibited a sheen and creosote-type odor. Laboratory analysis indicates that the contaminant is diesel fuel (Table 4). No measurable product was observed on the groundwater surface or in the soils in this test pit and no source was identified in any of these 3 test pits.

In test pit TP-23B a total of 6 drums were uncovered at a depth of 4-6 feet bgs. Only 1 drum was intact and had contents that appeared to be a heavy weight oil product. The peak PID reading in this drum was 217 ppm and it was overpacked and staged on site by OpTech. There was no visual indication of spillage or leakage from the drum and no elevated PID readings observed in the fill materials surrounding the drum. Laboratory analytical determined the product to be a mixture of kerosene, diesel fuel and lube oil.

The remaining 5 drums were rusted with holes, crushed and revealed no elevated PID readings. Soils surrounding these drums did not exhibit elevated PID readings. Two confirmatory floor soil samples were collected from beneath where the drums were uncovered at the bedrock/overburden interface. One was collected at a depth of 28.5 feet bgs in the southern portion of excavation (TP-23(28.5')) and one at 23 feet bgs to the north (TP-23(23')). Analytical results of the drum contents and soil samples are presented in Section 4.2.

A total of three (3) steel waste drums were uncovered in test pit TP-38B. This pit was excavated along the top edge of the southern bank of the landfill area as illustrated on Figure 10. The first drum uncovered was 35-40 gallons in size and contained approximately 20 gallons of liquid with a solvent-like odor. The peak PID reading in the drum was 88 ppm. The drum had a few small rust holes in the bottom but was on its side upon discovery. Laboratory analysis identified the liquid as primarily lube oil with chlorinated solvents and PCBs also detected.

A second drum containing less than 10 gallons of a mixture of gasoline and lube oil and a third drum containing approximately 15 gallons of lube oil were uncovered and removed from this location as well. The third drum was labeled "Chlorothene NU, Superior Solvent".

The drums were uncovered approximately 10 feet below the top of the landfill bank and were primarily intact but two were accidentally punctured upon discovery resulting in a minor amount of leakage onto the surrounding soils. Affected soils were excavated until no PID readings were detected, staged on poly sheeting and sampled for characterization. Five confirmatory soil samples were collected from the sidewalls and

floor of the excavation in this test pit. Approximately 40-50 tons of affected soil was removed from the test pit. Op-Tech placed the 3 drums from TP-38B into overpack containers.

Eight (8) crushed and rusted drums were uncovered in test pit TP-39B at 4 feet bgs that exhibited elevated PID readings but had no measurable contents and were therefore not able to be sampled. One drum had what appeared to be paint residue and a mineral spirits-type odor. The others exhibited solvent and fuel-type odors. PID readings in the crushed drums reached a peak reading of 2,785 ppm. The drums were removed and staged with the impacted soil from TP-38B. Elevated PID readings exhibited a peak value of 150 ppm on the soil directly beneath the drum carcasses. Approximately 7 tons of impacted soil was removed from the test pit and combined with the TP-38B soil pile. A soil sample was collected from the soil beneath where the drums were discovered at a depth of approximately 6-8 feet bgs. The excavation was completed to bedrock at a depth of 25 feet bgs where a confirmatory sample was collected as illustrated on Figure 10. No additional drums were uncovered.

The following table indicates the location and quantity of empty, rusty and crushed drum carcasses uncovered during both phases of test pitting. All drums listed exhibited no elevated PID readings and were void of any contents except for TP-39B as noted.

Test Pit I.D.	Number of Drum Carcasses Uncovered
TP-39	1
TP-1B	1
TP-3B	1
TP-6B	5
TP-7B	1
TP15B	1 full size, 4 cut in half containing garbage
TP-16B	½ (cut)
TP-17B	2
TP-20B	1
TP-22B	2
TP-23B	10
TP-24B	2
TP-25B	2
TP-39B	8 (PID readings to 2,785 ppm but no contents)

All test pits were backfilled with the materials that were excavated from each respective pit. All test pit soil, water and waste samples were relinquished to Paradigm Environmental Services, an appropriately accredited lab. Waste characterization sample analysis of the staged soil pile indicates that the soil is non-hazardous. It is noted that although suspect areas not covered by the geophysical surveys and all

significant anomalies identified as a result of the geophysical surveys were excavated by test pitting to bedrock, it is possible that additional buried waste drums are present at the Site, more specifically in the "landfill" area. Areas along the bank of the landfill are heavily wooded and were not accessible at the time the PAOC1 IRM was conducted.

Air monitoring concentrations including VOCs and particulates were detected in the work area and site perimeter at levels below established actions levels set forth in the CAMP. No elevated mercury vapor readings were observed during test pitting. Air monitoring data is presented in Appendix E.

2.7.2 PAOC2 – Total Fluids Extraction

PAOC-2 is located around the MW-2S/2D well cluster as illustrated on Figures 9 and 11 and is the site of a historic fuel oil spill (Spill #9810485). Petroleum compounds were detected in the MW-2S groundwater sample at concentrations above NYS Groundwater Standards (Table 4). A petroleum-based sheen was also observed on water seeping from the base of the river bank at the overburden/bedrock (river bed) surface below MW-2S. Overburden soil in nearby boring SB-19 exhibited elevated PID readings and petroleum odors at depths ranging from 8 feet bgs to boring refusal at 15.5 feet bgs. The highest PID readings in soil occurred between 11 and 15.5 feet bgs.

During well development (November 2008) and groundwater sampling (December 2008) a sheen was observed on the surface of the purge water in MW-2S. A Total Fluids Extraction pilot test was conducted in September 2010. Approximately two (2) inches of free-phase oil was observed in MW-2S on September 30, 2010, during the pilot test.

The goal of this IRM was to mitigate the petroleum seep along the adjacent river bank (Figure 11) and remove free-phase oil from the vicinity of MW-2S. All work was completed in accordance with the *Update Regarding Proposed Interim Remedial Measures, PAOC2* letter dated July 8, 2010; and the *Pilot Test for Proposed Interim Remedial Measures, PAOC2* letter dated September 3, 2010.

<u>Pilot Test</u>

Dakota Environmental Services, LLC (Dakota) and Nature's Way Environmental were subcontracted to install two extraction wells (EW-1 and EW-2) for a total fluids extraction (TFE) pilot test on September 21, 2010.

As illustrated on Figure 11, EW-1 was installed between the MW-2S/MW-2D well pair and the railroad tressel. Soil was sampled continuously in this well boring from 10-19.6 feet bgs. PID readings on soil sampled within this interval ranged from 25 to 175 ppm. EW-1 was installed with a 4 foot screen interval set at 19.5 feet bgs as indicated on the boring log and well construction log. Strong petroleum odors but no free product was observed in the soil samples collected.

Extraction well EW-2 was installed approximately 65 feet north of MW-2S along the fence line on the west bank of the island. PID readings at the bedrock/overburden interface reached a peak concentration of 181 ppm where a mixture of approximately 2 inches of petroleum and groundwater was observed. EW-2 was set at 17.9 feet bgs with a 3 foot screen interval. Extraction well construction logs are included in Appendix B.

On September 30, 2010, Dakota Environmental Services, LLC (Dakota) and Nature's Way Environmental mobilized a vacuum truck to conduct the pilot test in an effort to establish and measure effective radial influence at EW-1, EW-2 and MW-2S. PID readings on the well head and diesel product on the groundwater surface at MW-2S peaked at 180 ppm prior to vacuum connection. Prior to applying vacuum to EW-1 the effluent exhaust exhibited a PID reading of 910 ppm, likely due to residual vapor in the vacuum truck system. Once vacuum was applied PID readings at the effluent exhaust ranged from 1150-1650 ppm. Vacuum influence measurements indicated substantial radial influence of up to 60 feet from the wells used for testing. A well spacing of approximately 20-25 feet was selected based on this finding.

The following table summarizes the readings observed during the pilot test. It is noted that prior to applying vacuum to EW-2 or gathering additional measurements while connected to MW-2S, the truck lost vacuum due to mechanical failure and the pilot test was terminated.

EXTRACTION WELL CONNECTED	VAC TRUCK VACUUM (" Hg)	WELL & ASSOCIATED PRESSURE READING (" H_2O)	EXHAUST VELOCITY (fpm)	PID READING @ EXHAUST (ppm)
EW-1	-20	MW-2S / -0.004 to -0.011	760 (575-770)	1330
EW-1	-17.5	MW-2D / 0	745 (555-755)	1276
EW-1	-15	MW-2S / -0.003	810 (790-840)	1348
EW-1	-15	EW-2 / -0.005	800 (775-840)	1255
MW-2S	-12	EW-1 / -0.011	720 (700-752)	1650

Following the pilot test, a total of approximately 20 gallons of primarily water with a minor amount of oil was removed from EW-1 and MW-2S. Although the test was shorter than planned due to the loss of vacuum in the vacuum truck, sufficient data was generated to support the implementation of the full-scale TFE system.

Extraction Well Installation & System Set-up

On July 19-21, 2011 an additional six (6) extraction wells (EW-3 through EW-8) were installed by NYEG Drilling, with oversight by Lu Engineers for a total of eight (8) wells. Extraction well locations are shown on Figure 9. Split spoon samples were collected from the impacted zone, 12-14 feet below grade to bedrock, and screened with a PID. Well logs are included in Appendix B.

Well borings were advanced one to two feet into fractured rock with a total depth of 16-22 feet below grade. Based on field observations and low water table conditions, the wells were constructed with a screened interval of 3-5 feet. The wells were completed in the same manner as the pilot test wells EW-1 and EW-2. Extraction well construction diagrams are provided in Appendix B.

TFE System Operation

The goal of this IRM was to remove free phase oil and petroleum entrained in the soils within this portion of the Site. On September 14, 2011, a TRO200 trailer mounted Total Fluids Extraction system was mobilized to the Site by Gasho, Inc. (Gasho) to remove residual subsurface petroleum contamination associated with PAOC2. A Gasho technician completed all system setup and startup operations to ensure the functionality of the system. The system was operational from September 14, 2011 until it was demobilized on December 13, 2011. During this time period, the system ran 24 hours a day. The system was operational for a total of 75 days.

The remedial system included a Travini TRO 200V oil-sealed liquid ring vacuum pump capable of producing 28" Hg vacuum which was powered by a 15 hp 230/3/60 TEXP electric motor. A moisture separator with automated transfer pump and 8,500 gallon frac tank completed the system. All system components were mounted inside an enclosed trailer. Power to the system was provided by a 40KW diesel generator. Photographs of the remedial system are included in Appendix A.

As previously described, a total of eight (8) 2" PVC extraction wells were installed at the western end of the former foundation slab south of Pearl Street as illustrated on Figure 11. All extraction wells were connected to the TFE system either singly or in pairs during its operation for maximum performance.

During the course of the IRM, The TFE system well head vacuum operated within a range between a minimum of -7" Hg and a maximum of -21.5" Hg, depending on which well configuration was connected to the system. The average well head vacuum was -17" Hg during the IRM. The diesel/water mixture extracted from each well was deposited into a moisture separator tank with an automated transfer pump. After approximately 20 gallons of liquid accumulated into the moisture separator tank, a high level switch was triggered which initiated the transfer pump and pumped the mixture into the 8,500 gallon frac tank. Per NYSDEC direction, the accumulated groundwater was released to the ground surface while the recovered diesel product remained in the tank for eventual disposal. A total of approximately 55,000 gallons of groundwater was discharged to the ground surface during the course of the IRM. No free product was released to the ground.
The TFE system exhausted approximately 5 ft. above the roof of the system trailer, at a total height of approximately 15 ft. above the ground surface. System effluent exhaust was monitored for VOC content using a PID, velocity and flow rate. Based on the average effluent exhaust readings observed, including PID readings, air flow volume,

total system run time, and the specific gravity of #2 fuel oil, a vapor phase removal calculation was performed which determined the daily vapor recovery rate w approximately 0.13 gallons per day. Based on the total system run time of 75 days, it is calculated that approximately 9.5 gallons of product was extracted through system exhaust vapor.

Extraction wells EW-1, EW-2, EW-3, EW-4, EW-6 and MW-2S were connected to the TFE system for the greatest duration of time. Based on field observations, including gauging of all extraction wells for free product and low vacuum levels achieved, extraction wells EW-5, EW-7 and EW-8 were only briefly connected to the TFE system.

At the completion of the IRM, a total of 825 gallons of petroleum contaminated water was disposed of from the frac tank, including tank cleaning fluids and recovered free product. Disposal documentation is included in Appendix D. Based on final measurements collected with an oil/water interface probe in the frac tank, the approximate volume of free product recovered during this IRM was 60 gallons. This volume, combined with a total vapor phase removal volume of 9.5 gallons indicates that a total volume of approximately 70 gallons of #2 fuel oil was extracted from the subsurface in the vicinity of MW-2S.

Measurements including depth to water, measurable amount of free phase oil, well head and pump vacuum readings, effluent exhaust velocity, flow rate, and PID readings were collected frequently and recorded in the field log book. This documentation as well as a vapor phase calculation table is included in Appendix B.

The amount of free product detected in well MW-2S varied throughout the duration of the TFE IRM, ranging between no measurable product or sheen to a maximum of 0.7 ft. of product (9/23/11). More than three months after the TFE system was demobilized, MW-2S was gauged with an oil/water interface probe on March 20, 2012. At this time a heavy sheen measuring 0.01 ft. of product was observed.

2.7.3 PAOC3 – Mercury Contaminated Soil Removal

This area of the Site is located off the island on the south side of Water Street, as illustrated on Figures 6, 9 and 12. Hazardous waste levels of mercury-contaminated soil (714 ppm) were identified in the soil sample collected from test pit TP-26 at a depth of 5.5-6 feet bgs, where bedrock was encountered. Soil from this test pit also exceeded the Industrial Use Soil Cleanup Objective (SCO) for lead.

Impacted soil was excavated from the area surrounding TP-26 on December 15, 2009 by Op-Tech. Soil was removed to the bedrock surface at an average depth of 6 feet bgs. The soil consisted primarily of fill materials including sand, gravel, silt, brick, concrete, slag, stone and ash. The soil was temporarily staged on poly sheeting adjacent to the excavation, sampled and covered, pending disposal. Seven confirmatory soil samples were collected by Lu Engineers from the excavation

sidewalls. Since soil was removed to the bedrock surface, no confirmatory floor sample was collected. Groundwater was not encountered in the excavation during soil removal, therefore dewatering of the excavation was not necessary.

Confirmatory sample SI-PAOC3-WW-ASH was collected from an ash layer in the southwest corner of the excavation per NYSDEC, as illustrated on Figure 11. The sample was sent for mercury analysis as it was considered a potential source for the mercury contamination. The ash was uncovered at approximately 3 feet bgs and was widespread throughout the majority of the excavation area. The sample result was non-detect for mercury.

On January 19, 2010, an additional 5 linear feet of soil was removed to bedrock along the entire eastern sidewall of the excavation per NYSDEC. The confirmatory sample from this sidewall exceeded the Restricted-Residential SCO for mercury (sample SI-PAOC3-EW-A). Following the additional soil removal a second confirmatory soil sample (composite SI-PAOC3-EW-B) was collected from the newly exposed eastern sidewall and sent for mercury analysis, as illustrated on Figure 11. The final dimensions of the excavation measured approximately 60 feet long by 30 feet wide by 6 feet deep.

A total of 570.65 tons of mercury-contaminated soil was loaded into trucks and transported to the Rodman Solid Waste Management Facility on January 19, 2010. The Rodman Landfill is the owned and operated by the Development Authority of the North Country (DANC). Ricelli Enterprises was the trucking company that transported the soil for disposal. All trucks were lined with poly prior to being loaded and were covered with a tarp prior to leaving the Site.

A total of approximately 700 tons of clean backfill were placed in the excavation on January 19, 2010. Waste manifests and landfill receipts are included in Appendix D.

No elevated PID readings were detected and airborne particulate monitoring results were below applicable action levels, therefore dust suppression measures were not required. Mercury vapor monitoring using a Jerome® meter during excavation and soil loading did not reveal any detectable readings. Air monitoring data is included in Appendix E.

Closure samples were submitted to Paradigm Environmental Services for analysis of mercury (EPA Method 6010). Analytical results are presented on Table 5, and further discussed is Section 4.0.

2.7.4 Community Air Monitoring

Continuous perimeter air monitoring was conducted in accordance with the Community Air Monitoring Plan during the IRM. The average daily upwind particulate concentration was 0.021 mg/m^3 and the average daily downwind concentration was

0.032 mg/m^3. Dust suppression was not necessary during the IRM. Air monitoring data is included as Appendix E.

2.8 Private Well Survey

No private wells were identified on the island or in the vicinity of the Site. The City of Watertown, including the area immediately surrounding the Site, is served by a public water supply. Lu Engineers contacted the New York State Department of Health (NYSDOH) and the Code Enforcement officer for the City of Watertown regarding private and regulated drinking water supply wells in the area. There is no knowledge of any such wells within the vicinity of the Site.

2.9 Soil Vapor Intrusion Evaluation

Soil vapor intrusion pathways were not evaluated as part of this RI. No onsite soil vapor intrusion sampling was conducted since most buildings on the island have been demolished, with the exception of a dilapidated structure on the northwest corner of the island and the brick building adjacent to the spillway dam along Water Street (former hydroelectric facility). These two Site buildings are currently vacant and not suitable for occupancy.

2.10 Site Survey

A Site survey was performed by GYMO in October 2008 to identify property boundaries and existing Site features using the NAD 83 UTM Zone 18 (NYTM) coordinate system and is included as Figure 2. In October 2008, Lu Engineers surveyed the monitoring well locations and established their respective elevations. In November 2008, Lu Engineers completed a topographical survey of the PAOC-1 landfill area. The parcels that constitute the "Site" are illustrated on Figure 2. It is noted that the plans used for the presentation of project findings and data omit the extreme eastern and western extent of City owned property included in the Site. This was done to use the largest scale possible for most of the graphical data presented herein. Lu Engineers did not identify findings requiring discussion or analysis in these areas of the Site. All other sample locations, including test pits and soil boring locations, were located using a Trimble GeoXT Global Positioning System (GPS) unit, capable of achieving sub-meter accuracy, and plotted on the survey map.

2.11 Investigation Derived Wastes

A total of 14 drums of waste were generated during the RI. The 7 buried drums encountered during test pitting were overpacked and appropriately staged on Site. Three of the drums were nearly empty with only residual waste liquid in them. The other investigation derived waste including soil cuttings from MW-2S/2D (3), development and purge water from MW-2S & MW-7 (2), decontamination water from the excavation and drilling equipment (1) and PPE/Decon poly, were appropriately staged on Site in the area illustrated on Figure 9. On September 11, 2012, the 7 over-packed waste drums were transported by and disposed of as hazardous waste (manifest #006758482JJK) at the

Clean Harbors El Derado, LLC facility in El Derado, AR, per applicable regulations. The disposal arrangements were made by Advanced Waste Solutions, Inc. A copy of the manifest is provided in Appendix D.

3.0 Physical Site Characteristics

This section provides information on subsurface conditions and physical characteristics of the Site.

3.1 Surface Features

The topography is generally flat within one-half mile of the Site. The elevation is approximately 471 feet (USGS datum) above mean sea level, with topographic relief of 5 to 30 feet to the Black River basin channel and waterline.

The ground surface is covered primarily by grass, brush, trees, concrete building slabs, building demolition debris, slag and scrap metal. One dilapidated concrete building remains at the northwest corner of the island and one brick building exists adjacent to the northern spillway dam, along Water Street. Currently neither building is suitable for human occupancy.

3.2 Surface Water Hydrology

Surface water runoff at the Site flows directly to the surrounding Black River. The Black River flows west and discharges to Lake Ontario in the town of Dexter, approximately 10 miles west of the Site. The high permeability of Site soils limits surface water runoff to extreme weather events and rapid snowmelt based on observations made during this project.

3.3 Geology

According to the New York State Museum's Geologic Map of New York, Adirondack Sheet (Isachsen and Fisher, 1970) the Site is underlain by the Middle Ordovician Black River Group. This geologic series includes several formations with varying proportions of shale, dolostone, limestone, arkose and chert. Observations on exposed bedrock accessible on both the north and south sides of the island near river level revealed the presence of numerous chert nodules as well as many orthoconic ammonite fossils comprised predominantly of chert. A number of the ammonite fossils were observed to be several feet in length. Lu Engineers tested rock matrix with hydrochloric acid in several locations where bedrock outcrops on the Site. Reaction with the acid during this testing verified that the rock is limestone rather than dolostone. These observations are consistent with the New York Sate Museum's published description of the Chaumont Limestone member of the Black River Group.

Bedrock occurs at or near the ground surface on the western end of the island. In the south-western portion of the island, west of the Brookfield Power property, bedrock depths were found to occur up to approximately 30 feet below grade. This depth is nearly coincident with the elevation of bedrock outcrops along the south channel of the river bed in the central portion of the island.

Based on the observations made during the drilling and well installation process, we have derived the following general description for bedrock observed on the Site:

> Bedrock underlying the Site is thickly to massively bedded limestone with numerous chert inclusions. Voids were observed less than 1-inch in diameter (vugs) and very uncommon (typically one to two per core run). Solution features, commonly indicative of limestone, were observed during the drilling process at several locations. Rock is hard and competent immediately below weathered zone, which typically extends approximately 1 to 3 feet into bedrock. Few water-bearing fractures noted (fractures are close to moderately close). Longest un-fractured core recovery was five feet long (out of 5 foot core run). Fractures were typically 0-10 degrees off horizontal. RQD was typically 80-100% below the weathered zone. The rock particle percentage was not discernible.

A number of fractures and joints were observed at the bedrock outcrop that makes up the southern edge of the island. These joints were typically oriented in a northwest/southeast direction and appear to continue laterally beneath the island. A corresponding joint pattern trending nearly perpendicular to the first is also present in this area. It is inferred that these joint and fracture patterns have a substantial influence on the movement of groundwater through the rock beneath the island and in the surrounding area. A detailed analysis of fracture and joint groundwater flow patterns was not within the scope of this project.

Two geologic cross sections (A-A' and B-B') developed for the Site are included as Figures 7b and 7c, respectively. Cross section A-A' trends west to east and cross section B-B' trends north to south, as shown on Figure 7a. The cross sections illustrate the lithology identified in the soil borings, test pits and monitoring wells that were advanced as part of this investigation. As shown in the cross sections, the unconsolidated sediments consist predominantly of fill materials. Rock was observed to be consistent with the generalized description provided above in all drilled locations. Based on the geological information reviewed for the project area, it is inferred that bedrock throughout the Site and immediately surrounding area is consistent with the rock type observed during drilling and other Site investigation work.

3.4 Soils

According to the USDA Soil Survey, the soils of the Site are classified as urban.
As described in the boring logs (Appendix B) and shown on the cross sections (Figures 7a-c), the soils present at this Site consist primarily of medium sand interbedded with variable amounts of heterogeneous fill materials as described below.

The majority of the Sewall's Island Site includes varying depths of historical fill, mainly foundry sand, sand, stone, gravel, slag, coke, ash, glass, metal, and building demolition debris consisting of concrete, brick and wood. A minor amount of what appeared to be native soil was identified at the Site in test pits TP-28 (7.5'-8'; off island), TP-29 (6'-8';

off island), TP-1B (20'-21'), TP-8B (19.5'-20.5') and in soil boring SB-18 (16'-24'). This soil consisted primarily of a brown silt and clay with a small percentage of sand.

All subsurface investigation northwest of Pearl Street on the "triangle" portion of the property identified mainly building demolition debris that was apparently used to fill the basements of the previous buildings. Borings located in the central portion of this area were completed only one to two feet below ground surface (bgs) before bedrock was encountered. All subsurface investigation east of Pearl Street indicated the presence of building debris and foundry sand in the subsurface. Borings and test excavations located north of the former railroad bed and southeast of the railroad bed encountered bedrock at an average depth of 1-4 feet bgs. Borings and test excavations were advanced to greater depths around the perimeter of the Island indicating that more filling occurred in these areas.

Off-island subsurface investigations indicated the same lack of native soils, with the exception of TP-28 (7.5'-8') and TP-29 (6'-8') where a thin layer of light brown sandy silt and clay were observed on top of the bedrock surface. Similar fill materials to those found throughout the island property appeared to be present on top of bedrock in these test pits excavated along the south side of Water Street. These materials include foundry sand, sand, stone, gravel, slag, coke, ash, glass, metal, concrete, and brick.

The area located southwest of the railroad bed on the island was historically used as a "landfill" for the Bagley & Sewall operations. This area essentially covers the entire tax parcel 4-12-103.001 and is slightly larger than 2 acres in size. The majority of the landfill is comprised of foundry sand. This sand was used to create molds for casting metal parts. After the parts had cooled, the molds were broken away. The sand was reused until it was considered spent. Spent foundry sand was placed in the landfill area. The landfill area also contains coke, cinders and slag, concrete, scrap metal, brick, as well as large pieces of the hardened impurities from the forging of molten metals at the Site. This "landfill" area is shown on Figure 9 as Potential Area of Concern 1 (PAOC1).

3.5 Hydrogeology

This section describes the groundwater flow patterns and hydraulic conductivity data for the Site. The description generated is based on groundwater elevation data obtained during well sampling in December 2008 and from hydraulic conductivity (K) data generated during slug testing that was completed in five (5) permanent Site monitoring wells (MW-1, MW-2S, MW-4, MW-4 and MW-5) in March 2010.

Figure 8 illustrates groundwater elevation contours generated using measurements collected in February 2010. This data is considered the most comprehensive and representative information for the Site. As shown, groundwater appears to flow generally to the southwest. Groundwater elevations are highest in the eastern portion of the property at MW-8 and lowest along the western property line, nearest MW-2S and dropped in elevation by approximately 22 feet between these wells in February 2010.

The hydraulic gradient was calculated between three pairs of wells across the Site, generally from east to west. Based on the March 2010 groundwater elevations, the average hydraulic gradient across the Site from east to west is approximately 0.021 ft/ft and was calculated between wells MW-8 and MW-2S. The maximum hydraulic gradient across the Site from east to west is approximately 0.051 ft/ft and was calculated between wells MW-1 and MW-2S.

Rising head slug tests were used to calculate hydraulic conductivity (K) and groundwater velocities. Slug testing methods and generation of hydraulic conductivity values were previously described in Section 2.6.

Each test was initiated by measuring and recording the static water level in the well. An In-Situ Level Troll 700 pressure transducer was then lowered into the well, positioned near the bottom of the well screen, and secured. A disposable bailer measuring 3 feet long by 1.5 inches in diameter (1 liter capacity) was then inserted into the well and the water level was monitored until it returned to static level. A hand-held "Rugged Reader" that connects to the pressure transducer was used to establish the aquifer test parameters, initiate and terminate the tests and store the resulting data.

Once the well returned to static level the test was initiated via the "Rugged Reader", logging the data transmitted from the Level Troll transducer to determine the hydraulic conductivity and transmissivity of the soils in the immediate vicinity of each well screen. The slug (bailer) was rapidly withdrawn from the well, evacuating 1 liter of water. As the water level in the well rose back to static level the transducer measured the change in water displacement to the nearest 0.001 of a foot. The rising head data was recorded until the water level returned to approximately 90% of its initial static level.

A rising head test was selected because any water displaced in the well by introducing a solid slug would favorably saturate the unsaturated portion of the sand pack, resulting in erroneous data. Monitoring well construction logs are provided in Appendix B.

Hydraulic conductivities for the wells tested ranged between 4.925×10^{-5} ft/sec at MW-4 and 2.479×10^{-7} ft/sec at MW-6. Slug testing at MW-6 resulted in a calculated hydraulic conductivity significantly lower than those of the other three Site wells. From the start of the slug test MW-6 only recharged 0.8 ft in 52 minutes at which point the test was terminated. Through the analysis of the rising head slug test data collected from the five (5) Site wells the average hydraulic conductivity for the Site was determined to be approximately 1.99×10^{-5} ft/sec.

The graphic presentation of each slug test curve displays the data collected from the time of slug removal to the time at which the majority of the change in displacement had occurred. Slug removal was initiated between 25 seconds and 1 minute after data logging

had begun which is reflected on each graph. No displacement occurred between the time the data logging began (time 0) and the time the slug was removed, therefore no initial displacement data is missing from the graphs.

Groundwater velocity, the rate at which groundwater moves across a given area, was calculated between two pairs of wells on the Site, which allowed the determination of average and maximum velocities. The components of the average velocity calculation included the average K value for the five wells tested, the associated hydraulic gradient value derived above and an average standard porosity value of 20% (0.2) for limestone. The components of the maximum velocity calculation included the average K value for wells MW-1 and MW-2S, the associated hydraulic gradient value derived above and a standard porosity value of 20% (0.2) for limestone. The equation used to perform this calculation is $V=K \times l/n$, as illustrated on the hydrogeological calculations sheet included in Appendix B. The March 2010 groundwater data was used to calculate the velocities.

The Site average groundwater velocity was calculated across the majority of the island, trending east to west between wells MW-6 and MW-2S. The slope of the groundwater surface in this area is gradual, dropping 18.36 feet vertically over a horizontal distance of 870 feet (0.021 ft/ft). The velocity across this portion of the Site was calculated to be approximately 2.09×10^{-6} ft/sec (0.18 ft/day), and is considered the average velocity for the Site. It is noted that the hydraulic gradient between wells MW-8 and MW-2S is also 0.021 ft/ft, which spans the entire Site from east to west, supporting the use of the MW-6 To MW-2S gradient as a suitable site average.

The Site maximum groundwater velocity was calculated in the area between MW-1 and MW-2S. This represents the area of greatest hydrogeologic relief relative to horizontal distance between wells. The slope of the groundwater surface in this area drops more significantly to the west, with relief of approximately 21.42 feet vertically over a horizontal distance of 420 ft (0.051 ft/ft). The velocity across this portion of the Site was calculated to be approximately 5.4×10^{-6} ft/sec (0.47 ft/day) and considered the maximum velocity for the Site. However, groundwater flow through bedrock solution features and fractures is considered likely to be significantly higher depending on the depth and size of the fracture.

Hydraulic conductivity and groundwater level data collected during the RI have indicated the following:

- Overburden material underlying the Site consists primarily of fill materials including foundry sand, silt, stone, little gravel, coke, slag, brick, concrete, scrap metal and wood.
- Bedrock is classified as Chaumont limestone of the Black River Group.
- Based on groundwater elevations collected in March 2010 the average depth to groundwater across the Site is approximately 18.4 feet bgs.

- Hydraulic conductivity measurements for monitoring wells MW-1, MW-2S, MW-4, MW-5 and MW-6 averaged 1.99 x 10^{-5} ft/sec.
- Groundwater velocities on the Site vary from an average of approximately 2.09 x 10^{-6} ft/sec (0.18 ft/day) to a maximum of approximately 5.4 x 10^{-6} ft/sec (0.47 ft/day) with significantly higher flow rates likely through bedrock solution features and fractures.

Slug test data, hydraulic conductivity data, hydraulic gradient and groundwater velocity calculations are provided in Appendix B.

3.6 Demography, Land Use, and Water Use

The Site is located in mainly industrial area in the City of Watertown. The eastern portion of the island is owned by a utility company for hydroelectric power generation.

According to 2010 census data published by the U.S. Census Bureau, the City of Watertown had a population of 27,023. There are no medical or daycare facilities within a half-mile radius of the Site.

The island is currently zoned Commercial on the west side of Pearl Street; Heavy Industrial on the east side of Pearl Street. Parcels north of the island are also zoned Heavy Industrial, and parcels south of the island are zoned Light Industrial by the City of Watertown. Planned future use of the Site is for commercial uses, multi-unit residential housing, parking, and parkland.

Public water and sanitary sewer service is available at the Site and throughout the City of Watertown. No private wells were identified in the area.

4.0 Nature and Extent of Contamination

In this section, laboratory analytical results are compared to the appropriate published standards, criteria, or guidance values as indicated below. A summary of the analytical results is presented in Tables 1-5.

Soil Samples. Analytical results are compared to the NYSDEC Soil Cleanup Objectives (SCOs) in 6 NYCRR Part 375-6.8(a) and (b) (effective December 14, 2006). Commercial Use Soil Cleanup Objectives (SCOs) are most applicable to future use of the Site, based on planned future development for commercial uses and parkland.

Groundwater Samples. Analytical results are compared to the NYS Class GA Groundwater Quality Standards in 6 NYCRR Parts 700-705 (NYS, 1999b), as well as to guidance values in the NYSDEC Technical and Operational Guidance Series 1.1.1 (NYSDEC, 1998).

4.1 Surface Soils

Surface soil samples were collected at 42 locations (SS-01 through SS-42) in vegetated areas of the Site. Generally surface soils consist of fill; primarily spent foundry sand. Sample locations and areas exceeding SCOs are shown on Figure 4. Tabulated analytical results are presented in Table 2. The following is a summary of the results:

- No VOCs were detected above Unrestricted Use SCOs.
- The primary contaminants of concern are polycyclic aromatic hydrocarbons (PAHs) detected across the island at levels exceeding Industrial Use SCOs (see Table 2). Three samples (SS-32, SS-33, and SS-36) located off the island, on the north river bank, also contained PAHs above Industrial Use SCOs. Widespread occurrence of PAHs at the Site can be attributed to long-term industrial use at the Site including railroad operations, and extensive burning of coal/fossil fuels.
- Chromium was detected above the Unrestricted Use SCO in all surface soil samples, suggesting that the Site background conditions are elevated.
- Arsenic was detected above the Industrial Use SCO in samples SS-10, SS-11, and SS-33 located along the former railroad. Arsenic is commonly found in coal and coal ash.
- Mercury was detected slightly above the Commercial Use SCO of 2.8 ppm in sample SS-04 (3.0 ppm).
- Copper was detected above the Commercial Use SCO in samples SS-19, SS-24, and SS-42.
- Total PCBs were detected slightly above the Commercial Use SCO of 1 ppm at location SS-22 (1.08 ppm).

4.2 Sub-surface Soils

Sub-surface soil samples were collected at a total of 97 locations across the Site, including two separate test pit events (Site-wide in 2008 and PAOC1 in 2009/2010), soil borings (2008) and confirmatory closure samples at PAOC1 and PAOC3 (2009/2010). As with surface soils, sub-surface soils were also comprised of fill material; primarily spent foundry sand. Sample locations and areas exceeding SCOs are shown on Figure 6. Detected compounds are shown in Tables 3-1 through 3-4. Laboratory analytical reports are provided in Appendix C. The following is a summary of the findings:

- Investigation of subsurface soils at the Site yielded no evidence of gross VOC contamination. Acetone, a commonly used laboratory chemical, was detected above the Unrestricted Use SCO in 3 of the soil boring samples (SI-SB-19(10-15'), SI-SB-20(15-16.7'), SI-SB-31(12-15.4')) and 15 of the test pit samples (Table 3-1). Twelve of the 15 test pit samples were collected in the "landfill" area. It is noted that acetone was also detected in a laboratory blank. The source of the acetone detections is not known.

  The VOC 1,1,1-Trichloroethane was detected above the Unrestricted Use SCO in confirmatory sample SI-PAOC1-TP38-EW. This sample was collected from the east sidewall of test pit TP-38B as indicated on Figures 6 and 10. Three buried waste drums with contents were uncovered in this test pit. A minor release of drum contents (<5 gallons) occurred during discovery and affected soils were excavated based on PID readings/field observations, staged and sampled. Petroleum hydrocarbon analysis (310.13) determined the contents to be a mixture of gas and lube oil. It is noted that 1 of the 3 drums was labeled "Chlorothene NU, Superior Solvent" which may have been a residual source of this chlorinated solvent detection.

  Low-level petroleum compounds naphthalene and 1,2,4-trimethylbenzene were detected above Unrestricted Use SCOs in sample TP-13(24-25'), collected from the bedrock/overburden surface in test pit TP-13B. These detections are consistent with field observations of petroleum-type odors and a peak PID reading of 21.3 ppm on the sampled soil.

- The primary Site contaminants of concern are PAHs which were detected at concentrations exceeding both Commercial and Industrial Use SCOs. Six soil boring and test pit samples collected from the island portion of the Site were found to exceed Commercial Use SCOs. These samples ranged in depth from 1 to 12 ft bgs.

  Seventeen separate soil boring and test pit samples were found to exceed Industrial Use SCOs for PAHs, located primarily throughout the island portion of the Site. These samples ranged in depth from within 1 ft of ground surface to 27 ft bgs (see Tables 1, 3-1, 3-3). Sample SI-TP-33, located off the island on the northern river bank, exceeded the Industrial Use SCO for benzo(a)pyrene at a depth of 1.5 ft bgs (Table 3-1). Widespread occurrence of PAHs at the Site can be attributed to former railroad operations, a long industrial history including the burning of fossil fuels and potential leakage from buried waste.

- Chromium was detected above the Unrestricted Use SCO in all sub-surface soil samples, suggesting that the Site background conditions are elevated.
- Metals including arsenic, copper, lead, mercury, and nickel were detected at concentrations above the Commercial Use SCOs in samples collected from across the island (see Tables 3-2 and 3-4). The most prevalent of these metals was mercury with a relatively high concentration encountered at SI-TP-26 (714 ppm). Mercury-contaminated soil was excavated and disposed of from this location as part of the IRM (see Figure 12).

  Elevated concentrations of metals detected in Site soils is attributed to past use as a foundry, on-site disposal of spent foundry sand and potentially from used lube oil.

  It is noted that sample SI-PAOC3-EW-A, collected as a confirmatory sidewall sample in the PAOC3 mercury excavation exceeded the Restricted Residential Use SCO for mercury. Additional soil was excavated from this sidewall and it was re-sampled (SI-PAOC3-EW-B). This second round sample detected mercury at a concentration below the Unrestricted Use SCO.
- No PCBs were detected above the Unrestricted Use SCO.

4.3 Groundwater

A total of nine (9) groundwater samples were collected from the newly installed monitoring wells. Well locations are presented on Figure 8. Detected compounds are shown in Table 4. Laboratory analytical reports are provided in Appendix C. The following is a summary of the findings:

- VOCs were detected at concentrations above NYS Ambient Groundwater Standards in two of the nine samples: MW-2S and MW-7, as shown on Table 4. The source of VOCs detected at MW-7 is unknown; this well is screened entirely in bedrock (30-40 ft bgs). MW-2S is in the vicinity of a reported #2 fuel oil spill. During sampling, petroleum odors and a sheen were observed. A nested well pair was installed at this location; MW 2S is a bedrock interface well screened from 15 to 28 feet bgs, while MW-2D is a bedrock well screened from 32 to 47 feet bgs. MW-2D did not appear to be impacted by contamination present at MW-2S. VOC contamination detected in the shallow groundwater in the vicinity of MW-2S is consistent with constituents commonly found in fuel oil and was addressed by a total fluids extraction (TFE) remedial system during the IRM as described in Section 2.7.2.
- Iron and sodium were detected at levels above NYS Groundwater Standards in six of the nine groundwater samples, as shown on Table 4. These are naturally occurring minerals commonly found in groundwater and considered background concentrations due to their widespread distribution.

Manganese was detected at a concentration of 4.7 mg/L, above the NYS Groundwater Standard in MW-2S and is a naturally occurring mineral commonly found in groundwater. This detection is not considered significant.

Antimony was detected at a concentration above the NYS Groundwater Standard in MW-7 but was not detected in any of the other well samples. It is a naturally occurring metal that is present in rock and soil but can also be a product of combustion of fossil fuels.

- No PCBs were detected in the wells sampled.

4.4 Investigation Derived Waste

A total of 7 steel drums containing waste liquids were uncovered in the "landfill" portion of the Site. The drums were sampled, overpacked and appropriately staged on Site until properly transported and disposed of on September 11, 2012, in accordance with applicable regulations. The following is a summary of the waste characterization findings:

- Three drums were uncovered in 2008 in test pit TP-38 (Figures 6 & 10). One of these was empty containing only residual product and was therefore could not be sampled due to insufficient volume. The contents of the other 2 drums were sampled at the time of discovery and analyzed for petroleum hydrocarbon (PHC) classification by Method 310.13. Drum 1 contained a mixture of the lightweight PHC gasoline and the heavyweight PHC lube oil. Drum 2 contained mineral spirits, also a lightweight PHC.
  A composite sample was collected in 2010 of the combined drum contents and run for waste characterization parameters. Results indicate numerous pesticides were detected, chlorinated solvents, a flashpoint of 50.4°C and pH of 5.73, rendering the contents as hazardous waste.
- Test pit TP-23B, excavated in December 2009, revealed 1 drum that contained a tarry sludge-like product. The drum was intact and did not show evidence of leakage. Waste characterization sampling indicates that the drum contained a mixture of kerosene, #2 diesel fuel and lube oil. This free product had a pH of 4.0 and flashpoint of 50°C, rendering it hazardous waste. All other waste characterization parameter results fell below hazardous waste levels under TCLP analysis, including: reactivity, PCBs, pesticides/herbicides, TCL VOCs, TCL SVOCs, RCRA metals.
- Test Pit TP-38B, excavated in January 2010, revealed 3 drums containing free product. Drum 1 contained approximately 15 gallons of heavyweight PHC lube oil. PCBs were detected in this sample at non-hazardous levels. All other constituents detected fell below hazardous waste levels.
  Drum 2 contained a mixture of gasoline and lube oil. It had a flashpoint of 27°C, rendering it hazardous waste. All other constituents detected fell below hazardous waste levels. Drum 3 contained a hazardous lube oil mixture.

All 7 over-packed hazardous waste drums were transported by Clean Harbors Environmental Services, Inc. on September 11, 2012 and disposed of as hazardous waste (manifest #006758482JJK) at the Clean Harbors El Derado, LLC facility in El Derado, AR, per applicable regulations. The transportation and disposal arrangements were made by Advanced Waste Solutions, Inc. A copy of the manifest is provided in Appendix D.

- Soils surrounding the buried drums that exhibiting elevated PID readings or were affected by leaking free product due to drum puncture at the time of discovery (TP-38, TP-38B and TP-39B) were staged on plastic sheeting, sampled for waste characterization parameters and covered with plastic. Results indicate these soils are non-hazardous. These soils remain staged on site in the southeast corner of the "landfill" area as indicated on Figure 10. A total of approximately 40-50 tons of soil are currently staged on Site.

5.0 Contaminant Fate and Transport

This Section includes an evaluation of contaminant fate and transport for the Site including identifying potential routes of migration, contaminant persistence, and contaminant migration.

5.1 Potential Routes of Migration

Potential routes of migration identified for the Site include:

- Petroleum-related VOCs migrating to the adjacent Black River;
- Migration of surface soil contaminants to the adjacent Black River via overland flow of precipitation and soil erosion;
- PAHs and metals in sub-surface soils impacting the groundwater through infiltration of precipitation or contact with groundwater; and
- Volatilization of VOCs in subsurface soil and/or groundwater.

5.2 Contaminant Persistence

Contamination at the Site is identified as primarily consisting of widespread PAHs and metals in soils, and petroleum-related VOCs in groundwater at MW-2S. VOCs degrade naturally by the activity of microorganisms in the subsurface and other natural attenuation processes. PAHs and metals are generally more persistent in the environment. The chemical characteristics and fate of contaminants of concern are summarized in the following table.

Chemical of Concern	Physical Properties	Uses	Reaction with Water	Reaction with Air	Reaction with Soil
Polycyclic Aromatic Hydrocarbons (PAHs)	Colorless, white, or pale yellow-green solids with a possible faint odor.	Formed by incomplete burning of coal, oil, gas, wood, garbage, and other organic substances. This may include cigarette smoke, vehicle exhausts, asphalt roads, coal, coal tar, wildfires, agricultural burning, residential wood burning.	Do not easily dissolve in water. Associated with particulate matter that has settled down into sediments Microorganisms can breakdown PAHs from weeks to months.	Present in vapor or stuck to particulates; can break down by reacting with sunlight and other chemicals over period of days to weeks	PAHs have relative mobility and tend to absorb to soil particles. Microorganisms can breakdown PAHs from weeks to months
Metals					
Arsenic	Yellow, gray, or metallic solid. Mineral found in Earth's crust.	Used in alloys for semi-conductors, wood preservatives, herbicides/pesticides, paint, and coal burning.	Strongly sorbs to sediments. Does not volatilize. Some forms of arsenic are soluble and may travel with groundwater flow.	Adsorbs to airborne particulates. May be removed from air by rain and snow.	Occurs naturally in soil.
Copper	Reddish, lustrous, ductile, malleable metal	Smelting, piping, pesticides, and electrical wiring.	Associated with particulate matter that has settled down into sediments. Usually bonds with organic matter.	Associated with particulate matter and may be removed through gravitational settling and deposition.	Relatively immobile and can persist in soil for long periods of time. Usually bonds with organic matter.

Chemical of Concern	Physical Properties	Uses	Reaction with Water	Reaction with Air	Reaction with Soil
Lead	Bluish-grey solid	Lead is mined, used in alloys, and in products like batteries and paints.	Insoluble in water. Adsorbs to suspended solids.	Once released into the atmosphere, lead particles disperse and may be removed by wet or dry deposition	Relatively immobile and can persist in soils for long periods of time. Adsorption is based on the soils pH, type, size, organic matter, and other factors.
Mercury	Shiny, silver-white, odorless liquid, or colorless, odorless gas	Used to produce chlorine gas and caustic soda. Also used in thermometers, dental fillings, and batteries. Found in natural gas and coal.	Mercury associated with soils can be directly washed into surface waters during rain events. Surface runoff is an important mechanism for transporting mercury from soil into surface waters. Mercury deposited on open water is revolatilized back into the atmosphere.	Metallic mercury released in vapor form to the atmosphere can be transported long distances before it is converted to other forms of mercury, and wet and dry deposition processes return it to land and water surfaces.	Mercury deposited on land is re-volatilized back into the atmosphere within a day or two. In another form, methyl mercury, persistent bioaccumulation may occur.
Nickel	Silvery solid; odorless	Naturally occurring trace metal. Used in production of stainless steel and nickel alloys; electroplating, batteries, and paints.	Insoluble in water. Adsorbs to suspended solids.	Associated with particulate matter and may be deposited to land by precipitation or dry deposition.	Does not readily degrade in soil.
Petroleum-Related VOCs					
1,2,4-Trimethylbenzene	Clear liquid; aromatic	Used as a solvent and paint thinner. Found in gasoline, coal tar, and vehicle emissions.	Does not adsorb to sediments or solid particles; volatilizes from water; biodegrades aerobically.	Volatilizes to air quickly. Breaks down in air with half-life of 12 hrs – 30 days.	Low mobility in soil. Breaks down in soil under aerobic conditions.
Isopropylbenzene	Colorless liquid with a sharp gasoline odor; also known as cumene	Used in the manufacture of acetone and phenol. Found in gasoline; natural component in plants.	Will biodegrade in water, but is slowed by adsorption to sediments and solid particles. Half-life in water is 107 days.	Volatile; degrades in atmosphere with a half-life of 2.5 days.	Low mobility in soil due to tendency to adsorb to soil particles. Biodegrades in soil.
Napthalene[1]	White solid	Found in petroleum and coal. Used in mothballs and PVC manufacturing	May dissolve in water and adsorbs to sediments. Breaks down by aerobic bacteria in water with a variable half-life of 0.8-43 days.	Broken down in air by water and sunlight; half-life in air is 18-60 hours.	Medium to low mobility in soil. Adsorbs moderately to soil particles and is broken down by microorganisms with a half-life of 2-18 days.
Butylbenzene	Colorless liquid	Component of asphalt; contained in naptha; used as a plasticizer and in pesticide manufacture	Adsorbs to suspended solids. Volatilizes from water surface. Slow degradation.	Half-life in air is 1.8 days.	Volatilizes from soil surface. Slightly mobile in soil and persists for 3 months to 1 year.
n-propylbenzene	Colorless liquid	Found in petroleum and coal. Used as a solvent in textile dying and printing.	Biodegrades in water. Does not readily adsorb to suspended solids.	Frequently detected in the atmosphere. Half-life in air is 2 days.	Low mobility in soil. Breaks down by microorganisms in soil.
Toluene [1]	Colorless liquid with a pungent odor.	Occurs naturally in crude oil; found in gasoline, paint thinners & lacquers.	Will not readily adsorb to sediments or solid particles. Biodegrades in water with a half-life of 100-1,386 days.	Evaporates quickly into air from soil and water. Half-life in air is 3 days.	Relatively mobile in soil. Readily broken down by microorganisms in soil with a half-life of several hours to 71 days.

[1]Source: National Library of Medicine, Hazardous Substance Data Bank (HSDB). <Toxnet.nlm.nih.gov>

In addition to biodegradation, VOC concentrations in groundwater would presumably decrease as distance from the source area is increased due to processes such as advection, dispersion, sorption, and diffusion.

5.3 Contaminant Migration

Contaminant migration patterns are further described in this section. Primary constituents at the Site detected above regulatory criteria are PAHs and metals in soils, and petroleum-related VOCs in groundwater at MW-2S. [Note: Concentrations of antimony, iron, manganese, and sodium were detected above NYS groundwater standards in several wells. These are naturally occurring minerals attributed to water hardness, and are not included in the following discussion of contaminant migration].

Widespread occurrence of PAHs and metals in both surface soils and subsurface soils can be attributed to past use of the Site as a foundry and manufacturing facility with associated railroad operations. These types of compounds are relatively immobile in the environment and would not be expected to leach into groundwater. Groundwater samples did not indicate elevated levels of PAHs or metals. Migration of soil contaminants could occur via erosion of surface soils; however, most of the Site is covered by former building slabs or vegetation that would mitigate erosion. The high permeability of Site soils also limits surface water flow and erosion.

Petroleum-related VOCs have been detected in groundwater at MW-2S, in the location of a former fuel oil spill. Impacted groundwater appears to be limited to the area surrounding MW-2S, as shown on Figures 8 and 11. Monitoring well MW-2S was the only permanent well on Site with measurable free phase oil in it (a maximum of 0.7' of oil observed on MW-2S groundwater on 9/23/11). Petroleum seepage in the form of an oily sheen was observed in the river bed below MW-2S and EW-2 throughout the investigation. The sheen appeared to seep westerly into the river bed along generally east/west-trending bedrock fractures in the vicinity of the bedrock/overburden fill interface. Heavy iron staining was also observed in the areas of seepage.

A TFE system installed to remediate the free phase oil and vapor phase contaminants successfully removed approximately 70 gallons of fuel oil product. Approximately 55,000 gallons of groundwater was also extracted from the impacted area through MW-2S and the surrounding 8 extraction wells. In December 2011 when the TFE system was demobilized, an oily sheen was no longer observed seeping into the river bed in the area between MW-2S and EW-2. Petroleum seepage was also not observed in a subsequent Site visit conducted in March 2012 at this location. Groundwater across the Site appears to flow southwesterly to the adjacent Black River.

Petroleum-related VOCs could volatilize from impacted fill soil/groundwater to soil vapor. Soil vapor migration is not currently a concern at the Site since there are no active or occupied structures in this area.

5.3.1 Factors Affecting Contaminant Migration

Factors affecting contaminant migration include advection, dispersion, molecular diffusion, adsorption of constituents onto soil particles, and partitioning of constituents between soil, groundwater, and air.

Contaminants of concern in soils include widespread occurrence of PAHs and metals. These types of compounds are relatively immobile in the environment and do not appear to be impacting groundwater, based on data obtained during this investigation.

Primary Site groundwater contaminants of concern are petroleum-related VOCs at MW-2S. These compounds are typically soluble in water and do not adsorb to sediments or solid particles, therefore, they are relatively mobile in the environment.

Groundwater flow at the Site is generally toward the southwest, which allows for potential off-site migration of VOCs to the Black River. Other Site parcels slope steeply toward the river and it is inferred that groundwater on these parcels follows the ground surface gradient toward the river. Hydraulic conductivities calculated for the Site range between 4.925×10^{-5} ft/sec at MW-4 and 2.479×10^{-7} ft/sec at MW-6, with a Site average of 1.99×10^{-5} ft/sec. Maximum groundwater velocity on the Site is approximately 5.4×10^{-6} ft/sec (0.47 ft/day) and considered the maximum velocity for the Site. However, groundwater flow through bedrock solution features and fractures is considered likely to be significantly higher depending on the depth and size of the fracture. Migration of LNAPL was observed seeping from the river bank near MW-2S prior to the implementation of the PAOC2 TFE IRM but was no longer observed at the time of system demobilization.

6.0 Exposure Assessment

The purpose of this exposure assessment is to qualitatively evaluate the contaminants of concern and the affected media with respect to potential exposure pathways and human receptors. This assessment is done to evaluate the potential for exposure routes to be present in order to facilitate the development of a remedial action plan.

The following exposure pathways were evaluated:

- Ingestion of impacted soil and/or groundwater;
- Inhalation of vapors and/or dust; and
- Direct contact with impacted soil/groundwater.

Potential human receptors in the vicinity of the Site include:

- Residents that live nearby;
- Visitors to the Site;
- Brookfield employees;
- Construction workers involved with remedial activities or Site redevelopment; and
- Construction workers involved with excavation in the Water Street right-of-way adjacent to the Site.

6.1 Qualitative Public Exposure Assessment

The following is an evaluation of the exposure pathways and their status with respect to the Site.

<u>Ingestion of Contaminated Soil and/or Groundwater</u>
Access to the island is limited to authorized personnel of Brookfield Power and the City of Watertown. The entrance is secured by a fence and locked gate, thus making ingestion of soils an unlikely exposure pathway. Impacted soils on off-island parcels (Water Street) are not secured. This area is currently undeveloped, wooded land.

There are currently no drinking water wells on the Site and a public water supply is available to the entire City of Watertown. Deed restrictions may be necessary to restrict future use of groundwater at the Site. No private drinking water wells are present in the area.

<u>Inhalation of Vapors</u>
The potential exists for volatilization of petroleum-related VOCs and SVOCs from impacted soil/ groundwater. Exposure to soil vapor could occur during excavation in impacted areas. Onsite workers could be exposed to VOCs and SVOCs during future

development if excavation of impacted media (approximately 0-27 feet bgs) were to occur. Potential future exposures can be mitigated by means of a Site Management Plan.

Soil vapor intrusion is not a concern at the Site since there are no structures. The adjacent hydroelectric facility is located a sufficient distance away from the VOC source area that soil vapor intrusion exposures are not likely.

Direct Contact with Impacted Soils and/or Groundwater

Currently, direct contact with impacted soil and/or groundwater on the main island portion of the Site is unlikely because it is securely fenced and unoccupied. However, the off-island portion of the Site is not secured by fencing and therefore it is possible that trespassers could come in contact with the impacted surface soils in this area. There is currently no access to groundwater on this off-island portion since MW-8 is secured with a lock, therefore direct contact with this media is unlikely.

The potential exists for future exposures if workers come into contact with impacted media during excavation or Site development activities. However, all work should be performed in accordance with an approved Health and Safety Plan and knowledge of Site conditions. Future recreational use of the Site could present a risk for public exposure to impacted surface soils. Site controls, such as clean cover material, would mitigate this risk.

6.2 Environmental Exposure Assessment

The Fish and Wildlife Resources Impact Analysis (FWRIA) Decision Key was completed for the Site, as outlined in DER-10, and is included as Appendix F. Based on the Decision Key, it has been determined that a FWRIA is not required for this Site.

7.0 Summary and Conclusions

7.1 Investigation Summary

Investigations performed by Lu Engineers as part of this project included:

- Evaluation of surface soil conditions including collection and laboratory analysis of 42 surface soil samples;
- Evaluation of sub-surface soil conditions including geophysical surveys, installation of soil borings, test pitting, and collection and laboratory analysis of 97 sub-surface soil samples, including confirmatory samples;
- Evaluation of Site groundwater conditions including installation of 9 monitoring wells, well development, and collection and laboratory analysis of 9 groundwater samples and 1 PHC classification sample (MW-2S); and
- Evaluation of IDWs including standard and waste characterization sampling of impacted soil associated with buried waste drums, sampling of free product contained within the drums, sampling of equipment decontamination water, monitoring well development and purge water and drill cuttings.

Field screening with real-time instruments, including a Minirae 2000 PID and Jerome® mercury vapor meter, was used to supplement the laboratory data and field observations.

IRM activities completed include:

- Landfill investigation by test pitting including drum removal, waste & confirmatory soil sampling, proper waste containerization, staging and disposal, and a minor amount of impacted soil removal, staging and sampling (PAOC1);
- Installation of 8 extraction wells, installation, operation and monitoring of a TFE system for 3 months in the area of a former fuel oil spill (PAOC2); and
- Excavation, sampling and disposal of 570.65 tons of mercury-contaminated soil (PAOC3).

7.1.1 Nature and Extent of Contamination

Surface Soils

Surface soils are comprised predominantly of fill materials as previously described. The primary contaminants of concern are polycyclic aromatic hydrocarbons (PAHs) and metals detected across much of the Site at levels exceeding Industrial Use SCOs (see Table 2, Figure 4). Concentrations exceeding Industrial Use SCOS were detected over the majority of the island east of Pearl Street, except in obvious areas where building slabs and

foundations are still present, and off the island southwest of Water Street between the spillway dam and railroad bed area.

Sub-surface Soils

As with surface soils, sub-surface soils across the Site consist of fill materials, predominantly spent foundry sand. Investigation of subsurface soils at the Site yielded no evidence of gross VOC contamination. The VOC acetone, a commonly used laboratory chemical, was detected in subsurface soils primarily in the "landfill" area. The source of acetone is not known. Three other VOCs (1,1,1-Trichloroethane, naphthalene and 1,2,4-trimethylbenzene) were detected in test pit samples in the "landfill" area at depths of 12 ft bgs or greater. 1,1,1-Trichloroethane was detected in a sidewall sample in an area where 3 buried drums were uncovered, and likely resulted from a minor release of product from one of the drums. Petroleum-related compounds naphthalene and 1,2,4-trimethylbenzene were detected in test pit TP-13B, consistent with field observations at the overburden/bedrock interface (24-25 ft bgs). All VOC detections were reported at concentrations below Residential Use SCOs.

The primary Site contaminants of concern are PAHs which were detected at concentrations exceeding both Commercial and Industrial Use SCOs. Six soil boring and test pit samples collected from the island portion of the Site were found to exceed Commercial Use SCOs for PAHs. These samples ranged in depth from 1 to 12 ft bgs.

Seventeen separate soil boring and test pit samples were found to exceed Industrial Use SCOs for PAHs, located primarily throughout the island portion of the Site. These samples ranged in depth from within 1 ft of ground surface to 27 ft bgs (see Tables 1, 3-1, 3-3). Sample SI-TP-33, located off the island on the northern river bank, exceeded the Industrial Use SCO for benzo(a)pyrene at a depth of 1.5 ft bgs (Table 3-1). Widespread occurrence of PAHs at the Site can be attributed to former railroad operations, a long industrial history including the burning of fossil fuels and potential leakage from buried waste.

Chromium was detected above the Unrestricted Use SCO in all sub-surface soil samples, suggesting that the Site background conditions are elevated.

Metals including arsenic, copper, lead, mercury, and nickel were detected at concentrations above the Commercial Use SCOs in samples collected from across the island. The most prevalent of these metals was mercury with a relatively high concentration encountered at SI-TP-26. Mercury-contaminated soil was excavated and disposed of from this location as an IRM.

Elevated concentrations of metals detected in Site soils is attributed to past use as a foundry, on-site disposal of spent foundry sand and potentially from used lube oil. No PCBs were detected above the Unrestricted Use SCO.

Groundwater

Groundwater at the Site appears to flow generally to the southwest to the Black River. Petroleum-impacted groundwater was detected in the vicinity of MW-2S, on the southwest portion of the island. The source of petroleum-related VOCs appears to be from a former fuel oil spill that reportedly occurred during a rail car delivery. Petroleum contamination was initially observed at the bedrock/overburden interface during the installation of soil borings and test pits in the vicinity of MW-2S, including SB-19, SB-20, TP-21, TP-22 and TP-23. Free-phase oil was not observed in these borings or test pits but strong petroleum odors and elevated PID readings were observed. Free-phase oil was first observed in MW-2S on March 31, 2010 and measured approximately 0.04 ft thick. Laboratory analysis of the free phase oil on MW-2S confirmed the product as the heavyweight PHC diesel fuel. The maximum thickness of free-phase oil was 0.7 ft on September 23, 2011 during the operation of a TFE system. This remedial system was mobilized in September 2011 and ran until December 12, 2011. The system was installed as an IRM (PAOC2) and used to remove free phase oil and associated vapor-phase contaminants. Approximately 60 gallons of oil was removed from the groundwater surface during the operation of the system. A sheen that on several occasions had been observed seeping into the Black River bed through fractures at the bedrock/overburden interface was no longer evident at the time of the TFE system demobilization.

VOCs, including acetone, chloroform, toluene, and 2-Methylphenol were detected at concentrations above NYS Ambient Groundwater Standards in MW-7. The source of VOCs detected at MW-7 is unknown.

7.1.2 Fate and Transport

Potential routes of contaminant migration identified for the Site include:

- Petroleum-related VOCs migrating to the adjacent Black River at the bedrock/overburden interface and through bedrock features and fractures;
- Migration of surface soil contaminants to the adjacent Black River via overland flow of precipitation and soil erosion during heavy storm events;
- PAHs and metals in sub-surface soils impacting the groundwater through infiltration of precipitation or contact with groundwater; and
- Volatilization of VOCs in subsurface soil and/or groundwater.

PAHs and metals identified in Site soils have relatively low mobility in the subsurface and would not be expected to impact underlying groundwater.

Petroleum-related VOCs are degraded aerobically and anaerobically by microorganism activity and other natural attenuation processes in the subsurface.

In addition to biodegradation, VOC concentrations in groundwater would presumably decrease as the distance from the source area is increased due to processes such as advection, dispersion, sorption, and diffusion. These processes apply to both soil and bedrock media. Groundwater flow is generally toward the southwest, as shown on Figure 8. Groundwater impacts appear to be limited to the vicinities of MW-2S and MW-7, as these were only wells in which VOC contaminants were detected above NYS Groundwater Standards.

7.2 Conclusions

Beginning in 2007, Lu Engineers conducted historical research followed by extensive surface and subsurface investigation of soil and groundwater media, as well as soil and groundwater remediation through three IRMs at the subject Site. The primary contaminants detected across a large portion of the Site are PAHs and metals entrained in surface and subsurface soils. Groundwater impacts include a relatively small area of petroleum contamination identified on groundwater in the vicinity of MW-2S and unrelated VOC contamination detected in MW-7.

Due to potential exposure hazards, surface soil contamination will need to be addressed prior to re-use of the Site. If future Site redevelopment involves excavation or disturbance of impacted soils, there is a potential for human exposures and contaminant migration. Potential future exposures shall be addressed by the final Site remedy. Existing contaminant concentrations identified in groundwater are expected to decrease over time due to natural attenuation processes in the subsurface.

It is concluded that the high permeability of Site soils has had a significant effect on the nature and extent of contamination on the Site at the present time. Based on the intensity and duration of past industrial operations at this Site, much higher levels of residual contamination could be reasonably expected. The presence of the Black River and direct connection with Site hydrogeology to the river has likely helped to mitigate the persistence of industrial contamination that would likely otherwise be present.

7.2.1 Data Limitations and Recommendations for Future Work

Due to the large volume of confirmatory samples collected and with NYSDEC concurrence, Data Usability Summary Reports (DUSRs) were prepared for 25% of the confirmatory samples collected at the Site. The DUSRs did not reveal any data limitations or problems of significance with the analytical data generated by either analytical laboratory (Mitkem or Paradigm). A copy of the DUSR is provided as Appendix G.

Based on investigation data generated, remedial actions conducted to date and presumed future use of the Site, Lu Engineers recommends the following:

1) No further action be taken at the Site in respect to additional investigative or remedial efforts.

2) Cap the areas of the Site identified as being impacted with PAH and metals contaminants in surface soils with a soil cover as necessary to facilitate future development plans (Figure 4a).
3) Develop a Site Management Plan, including a Soil Management Plan, to establish the steps necessary, including worker safety measures, to properly address contaminants at the Site should future development involve the disturbance of contaminated surface and subsurface soils.
4) Disallow the use of Site groundwater.

8.0 Identification and Development of Alternatives

This section identifies and develops remedial action objectives and alternative remedies to address contamination identified during the RI at the Site.

8.1 Remedial Action Objectives

Remedial action objectives (RAOs) are objectives for the protection of public health and the environment and are developed based on contaminant-specific standards and guidance to address contamination at the Site. Based on the RI findings, the following RAOs have been developed:

- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards;
- Prevent ingestion/direct contact with contaminated soils;
- Prevent contact with, or inhalation of, VOCs from petroleum-impacted subsurface soil and groundwater at the Site; and
- Prevent migration of contamination that would result in impacts to surface water.

8.1.1 Contaminants of Concern

A 'contaminant of concern' is a contaminant that is sufficiently present in frequency and concentration in the environment to require evaluation for remedial action. Not all contaminants identified on the property are considered contaminants of concern. The contaminants of concern identified at this Site are primarily petroleum-related VOCs in groundwater; PAHs and metals in surface and subsurface soils. The applicable standards, criteria, and guidance values (SCGs) for the Site are listed below.

Soil- NYSDEC SCOs in 6 NYCRR Part 375-6.8(a) and (b) (effective December 14, 2006). Commercial Use Cleanup Objectives are most applicable to future use of the Site, based on Site location and planned future use as a mixed commercial/recreational development. Contaminants of concern detected above Commercial Use SCOs are listed below and summarized in Tables 2, 3, and 5. Surface soil Contaminants of concern detected above Commercial Use SCOs are illustrated on Figure 4a.

PAHs	**Metals**
benzo(a)anthracene	arsenic
benzo(a)pyrene	barium
benzo(b)fluoranthene	copper
dibenzo(a,h)anthracene	lead
indeno(1,2,3-cd)pyrene	mercury
	nickel
	cadmium

Groundwater- NYS Class GA Groundwater Quality Standards from 6 NYCRR Parts 700-705 (NYS, 1999b) and, in the absence of a standard, guidance values in the NYSDEC Technical and Operational Guidance Series 1.1.1 (NYSDEC, 1998). These standards are based on groundwater as a drinking water source.

A comparison of the contaminants of concern to corresponding SCGs for groundwater is provided in the following table.

Groundwater Contaminants of Interest

Detected Parameters[1]	**NYS Water Quality Standards**[2]	**MW-2S** 12/3/08	**MW-7** 12/3/08
Acetone	**50***	ND	78
Toluene	**5**	ND	190
Isopropylbenzene	**5**	11	ND
n-Propylbenzene	**5**	13	ND
1,2,4-Trimethylbenzene	**5**	21	ND
sec-Butylbenzene	**5**	5.2	ND
n-Butylbenzene	**5**	5.1	ND
Naphthalene	**10***	22	ND
2-Methylphenol (o-cresol)	**1**	ND	51

1- Results presented in parts per billion (ppb)
2- NYS Ambient Groundwater Standards (6 NYCRR Part 703.5)
*- NYSDEC Guidance Value (TOGS 1.1.1)
shaded values exceed groundwater standard or guidance value

Elevated concentrations of iron and sodium were detected in most of the wells across the Site. These metals are naturally occurring minerals found in groundwater and are common to New York and they are not considered to be contaminants of concern.

A more complete presentation of analytical results is provided in the Sections 4 and 5 of this report.

8.1.2 Development of Remediation Goals

The process of defining the goals of a proposed remedial action is based on an engineering analysis of the expected benefits of the remedial effort as defined in the context of various evaluation criteria. As required in 6 NYCRR Part 375, the following criteria to evaluate the effectiveness of remedial alternatives for the Site:

- Protection of Public Health and the Environment. This criterion is an evaluation of the remedy's ability to eliminate or mitigate risks to human health and the environment during and after implementation of the remedial alternative that is selected.

- Compliance with Standards, Criteria, and Guidance. This criterion addresses whether the selected remedial alternative will ultimately result

in compliance with SCGs, to the extent practicable. The chemical-specific SCGs for groundwater are referenced in 6 NYCRR Part 703.5 and TOGS 1.1.1.

- Long-term Effectiveness and Permanence. This criterion evaluates the long-term effectiveness of the remedy after implementation. This includes remaining risk to public health or the environment, adequacy and reliability of controls over time, and the ability to meet RAOs in the future.

- Reduction of Toxicity, Mobility, or Volume. This criterion evaluates the remedy's ability to reduce the toxicity, mobility, and volume of site contamination.

- Short-term Impacts and Effectiveness. This is an evaluation of the potential short-term adverse impacts and risks of the remedy upon public health, workers, and the environment during implementation of the remedy. This includes an analysis of how the identified risks will be controlled and the effectiveness of those controls.

- Implementability. The implementability criterion evaluates the technical and non-technical feasibility of implementing a remedy. Technical feasibility includes the difficulties associated with construction and the ability to monitor the effectiveness of the remedy. Non-technical feasibility relates to the availability of necessary personnel and materials, ability to obtain approvals, access, etc.

- Cost Effectiveness. This criteria is used to select a remedy where cost of the remedy is proportional to overall effectiveness.

- Land Use. This criterion is intended to evaluate the remedial alternatives in relation to the current, intended, and reasonably anticipated future use of the Site.

- Community Acceptance. This criterion evaluates the public's comments, concerns, and overall perception of the remedy. Community acceptance will be evaluated after the public comment period, as part of the final remedy selection and approval.

8.2 General Response Actions

General response actions are media-specific procedures used to meet established RAOs for the Site. These procedures involve remediation approaches that consist of various technologies and process options. General response actions for environmental media commonly include treatment, containment, extraction and/or disposal, and institutional actions (i.e., deed restrictions).

General response actions conducted at the Site to date as IRMs include the following:

- Removal, containerization and disposal of 7 waste drums from parcel #4-12.103.001, as hazardous waste.
- Excavation and disposal of 570.65 tons of mercury soil contamination from off-island parcel #4-13-1.
- Installation of TFE system resulting in removal of approximately 70 gallons of free phase and vapor phase fuel oil from groundwater and soil in PAOC3, parcel #4-12-103.100.

This analysis recognizes the completed IRMs and will evaluate response actions (i.e., institutional controls) to address remaining soil contaminants exceeding Commercial Use SCOs and VOC contamination in groundwater above NYS Groundwater Standards.

As required by regulation 6 NYCRR Part 375-4.8(d)(2), this analysis will also consider an alternative to achieve the Unrestricted Use SCOs in 6 NYCRR Part 375-6.8(a), which are considered to be representative of pre-disposal conditions at the Site. This option would allow any property use including the raising of livestock; although it should be noted that current zoning and land use plans would preclude the Site from such use. Regardless, the unrestricted use option will be included as a comparison to evaluate other alternatives. The Unrestricted Use evaluation will include response actions to address VOC contamination in groundwater at PAOC3, and metals and PAH contaminants in soil.

8.2.1 Soil

Investigation results show widespread occurrence of PAHs and metals in surface and subsurface soils that exceed Commercial Use SCOs, as depicted on Figures 4 and 6. The volume of surface soil exceeding Commercial Use SCOs is estimated to be 8,300 yd^3. The volume of sub-surface soil is estimated at 67,400 yd^3, assuming an average contaminated zone of 1-10 feet below grade west of Pearl Street; 1-12 feet below grade for the majority of the island; 1-20 feet below grade for the landfill area (PAOC1), and 1-6 feet below grade for parcels north of the Black River.

Response actions were evaluated to meet the RAOs established for the Site. As part of the preliminary screening process, presumptive/proven remedial technologies in DER-15 were considered, as shown in the following table.

Preliminary Screening of Soil Remedial Actions

Presumptive Remedy	Feasible	Rationale
Soil Excavation and Disposal	No	Soils are presumed to be non-hazardous and acceptable for disposal as landfill cover; however, this would involve removing the majority of Site soil/fill material. May not be feasible for off-island parcels.

Presumptive Remedy	Feasible	Rationale
Immobilization/Stabilization	No	Not feasible due to the widespread nature of contamination.
Institutional/Engineering controls (cover, secure, deed restrictions)	Yes	Placement of clean cover material, deed restrictions, and implementation of a Site Management Plan can meet the RAOs for the Site.

Based on Site conditions as it currently sits, both securely fenced and vacant, it is concluded that no completed exposure pathways were identified in the exposure assessment. Due to the extensive amount of impacted fill/soil present at the Site, remediation would be complicated and costly. Therefore, the most practical approach to meet the established RAOs is through implementation of engineering and institutional controls.

For evaluation of the Unrestricted Use Option, additional remedial actions were considered to address all impacted soils as shown on Figures 4 and 6. The total volume of surface soil exceeding Unrestricted Use SCOs is estimated at 16,100 yd^3. The total volume of sub-surface soil exceeding Unrestricted Use SCOs is estimated at 159,700 yd^3. Assuming a weight of 1.5 tons/cubic yard, the total soil/fill exceeding Unrestricted Use SCOs is approximately 24,150 tons surface soil, and 239,500 tons subsurface soil.

8.2.2 Groundwater

The goal of the response actions is to address petroleum-related VOCs in groundwater at PAOC-2. Groundwater has been impacted by VOCs from a former fuel oil spill. As calculated using AutoCad Version 2010 (see Figure 8), the area of petroleum-impacted groundwater exceeding NYS Groundwater Standards is estimated to be 5000 ft^2. Assuming a target zone of 5 feet and a porosity of 30% based on RI findings, the volume of the plume is estimated at 56,100 gallons. The same overall area, thickness, and volume of the plume is estimated for groundwater impacts at MW-7. As part of the preliminary screening process, presumptive/proven remedial technologies in DER-15 were considered, as shown in the following table.

Preliminary Screening of Groundwater Remedial Actions

Presumptive Remedy	Feasible	Rationale
Groundwater Extraction and Treatment	Yes	Technically complicated and costly, but feasible.
In-Situ Chemical Oxidation/Bioremediation	No	Traditionally ineffective in fractured rock aquifers. May be feasible, but need more detailed characterization of bedrock to determine if this would be an effective remedial method.
Air Sparging	No	Largely ineffective in fractured rock aquifers due to the presence of preferential pathways.
Two-Phase Vacuum Extraction	Yes/No	This was already completed as an IRM to address free product at MW-2S. High non-

Presumptive Remedy	Feasible	Rationale
		saturated soil permeability and weathered bedrock surface limited success. Additional efforts would produce minimal benefit.
Monitored Natural Attenuation	Yes	Detected compounds breakdown naturally over time. Would also require the use of institutional controls.
Institutional Controls	Yes	Deed restrictions and implementation of a Site Management Plan can meet the RAOs for the Site.

No completed exposure pathways were identified in the exposure assessment. Interim remedial actions at PAOC2 were performed to prevent off-site migration of contamination in the form of free-phase product. Thus far IRM efforts appear to be effective; however, additional groundwater monitoring is needed to determine the long-term effectiveness. Therefore, the established RAOs can be met through implementation of institutional controls including long-term groundwater monitoring. For evaluation of the Unrestricted Use Option, additional remedial options were considered to address groundwater exceeding NYS Groundwater Standards without the use of institutional controls. Groundwater extraction and treatment was selected as the most appropriate remedial alternative for this evaluation.

8.3 Development of Alternatives

This section describes the technology types and process options that are appropriate to conditions and the nature and extent of contamination at the Site.

After a preliminary screening, the following general response actions have been identified to address residual soil and groundwater contamination at the Site:

- No Further Action
- Engineering/Institutional Controls and Long-Term Monitoring
- Unrestricted Use Option- Soil Removal and Disposal with Groundwater Extraction and Treatment

8.3.1 Commercial Use Alternatives

The commercial use category allows for the buying, selling or trading of merchandise or services including public uses with limited potential for soil contact. Based on the City's conceptual plan to develop the Site for commercial use and parkland, location of the Site, and surrounding land uses, this is the most applicable land use category. Current zoning would also support future commercial Site use.

<u>No Further Action</u>
The No Further Action alternative is included as a baseline to evaluate other alternatives. This alternative recognizes the IRMs already completed, and proposes no additional remedial work. The Site condition would remain virtually as is and future use would not be limited.

Institutional/Engineering Controls with Long-Term Monitoring
Under this alternative, long-term groundwater monitoring would be conducted to track contaminant migration and degradation over time. Engineering controls (i.e., site cover) would be implemented to prevent exposure to surface and subsurface soil contamination at the Site. In addition, institutional controls (e.g., deed restriction to control property use) and development of a Site Management Plan (SMP), including a Soil Management Plan and Health and Safety Plan (HASP), would be implemented to mitigate potential exposures during future development or site use.

8.3.2 Unrestricted Use Alternative

As required by regulation 6 NYCRR Part 375-4.8(d)(2), this analysis will consider an alternative to achieve the Unrestricted Use SCOs in 6 NYCRR Part 375-6.8(a), which are considered to be representative of pre-disposal conditions at the Site. This option would allow any property use including the raising of livestock; although it should be noted that location and parcel size limitations would preclude the Site from such use. Therefore, the unrestricted use option will be included only as a comparison to evaluate other alternatives.

Both soil and groundwater contamination would need to be remediated for future Site use to be unrestricted. This would involve excavation and off-site disposal of surface and sub-surface soil exceeding Unrestricted Use SCOs and groundwater treatment to achieve the NYS Groundwater Standards. Preliminary screening deemed groundwater extraction and treatment as the most appropriate remedy to attain groundwater standards.

Soil Excavation and Disposal
The total volume of soil/fill (surface and sub-surface) exceeding Unrestricted Use SCOs is estimated to be 263,650 tons, assuming a soil weight of 1.5 tons/yd^3. The average contaminated zone for sub-surface soil is estimated to be 1-10 feet below grade west of Pearl Street; 1-12 feet below grade for the majority of the island; 1-20 feet below grade for the landfill area (PAOC1), and 1-6 feet below grade for parcels north of the Black River. For surface soils, as removal depth of one foot is assumed. This includes soil/fill on the island and soil/fill on off-island parcels, as shown on Figures 4 and 6.

Confirmatory soil samples would be collected to demonstrate effective removal of contaminated soil/fill. Excavated areas would be backfilled with clean soil/fill material from an approved source.

Groundwater Extraction and Treatment

Since the Unrestricted Use category does not allow for groundwater use restrictions on the property, groundwater treatment would be required to address residual impacts in the vicinity of MW-2S (PAOC-2) and MW-7. The area of impacted groundwater requiring treatment at each location is estimated to be 5,000 ft^2, using AutoCad Version 2010 software.

Groundwater extraction and treatment (GWET) is evaluated to remediate contamination above NYS Groundwater Standards. GWET is an ex-situ technology involving the installation of pumping wells in the plume area to artificially depress the potentiometric surface so that contaminated groundwater flows toward the pumping wells. Groundwater is extracted from the wells and treated using an air stripper to volatilize contaminants from groundwater to air.

An SMP including operations and maintenance activities would also need to be implemented.

9.0 Detailed Development of Alternatives

9.1 Introduction

The remedial alternatives identified above are further detailed in this section, and evaluated relative to the remediation goals presented in Section 8.2.2. Tables 6 and 7 include a summary of the costs associated with each alternative.

9.2 Individual Analysis of Alternatives

Each of the alternatives identified in Section 8.3 are further evaluated in detail in this section of the report.

9.2.1 Commercial Use Options

These alternatives are further defined below.

No Further Action

Under this alternative, soil and groundwater would remain unremediated and future Site use and development would not be limited. This alternative may not be protective of human health since no institutional controls would be implemented to mitigate potential future exposures. Except for natural attenuation of VOCs in groundwater, this alternative would not result in the measurable reduction of contaminant toxicity, mobility, or volume and may not attain compliance with NYS Groundwater Standards.

There would be no increased short-term risks associated with the No Action alternative since remedial activities are not implemented; however, the alternative may not be effective in the long-term and is not considered a permanent remedy.

Based on the findings of the investigation performed to date, it is anticipated that this alternative would not be acceptable to the community or appropriate in regards to potential future redevelopment of the Site.

The costs for this alternative are summarized below.

Capital Cost…… ……$0
Annual Cost ……..……..$0
Total Net Present Worth of Costs……$0

Institutional/Engineering Controls with Long-Term Monitoring

This alternative includes long-term groundwater monitoring, engineering controls to prevent exposures, institutional controls (e.g., deed restriction to control site use), and development of a SMP (including HASP). The SMP would include procedures for properly handling and disposing of impacted soil should it be disturbed in the future. Groundwater monitoring will include annual sampling of all nine (9) wells.

To prevent future exposures and migration of contaminants, a site cover would be placed over surface soil exceeding Commercial Use SCOs, as shown on Figure 4. The

cover may consist either of structures such as buildings, pavement, sidewalks or a soil cover of at least one foot. Soil cover must meet SCOs for cover material as set forth in 6 NYCRR Part 375-6.7(d) for commercial use. Maintenance of the site cover will be required in the SMP.

Placement of a soil cover on off-island parcels is not feasible without extensive clearing of wooded areas. In lieu of a soil cover, it is recommended that the impacted area be fenced and secured with a locked gate to prevent human contact with surface soil exceeding Commercial Use SCOs.

The land use restrictions would be in the form of an environmental easement granted to the NYSDEC that requires:

- commercial use, which will also permit industrial use;
- compliance with an approved SMP;
- restricting the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by NYSDOH; and
- the property owner to complete and submit an annual certification of institutional controls.

This alternative would also include development of a SMP which will:

- include an Excavation Plan outlining procedures for proper handling and disposal of impacted soil that may be encountered;
- a HASP to protect the health and safety of site workers;
- a groundwater monitoring program;
- a provision to evaluate the potential for soil vapor intrusion should any building be developed on the Site and to implement actions (e.g., mitigation) recommended to address exposures related to soil vapor intrusion; and
- describe the use restrictions along with procedures for maintenance of the Site remedy.

Results of the annual groundwater sampling would be submitted to the NYSDEC and NYSDOH, along with a certification that the engineering and institutional controls are in place and able to protect public health and the environment.

This alternative would be protective of human health and the environment since it will mitigate potential future exposures to contaminated soil and groundwater and provide guidance for future ground intrusive work that may disturb impacted soils beneath the cover. The only additional reduction of contaminant toxicity, mobility, or mass would be a result of natural attenuation processes. There would be no increased short-term risks associated with this alternative since remedial activities are not implemented. This alternative should be effective in the long-term; however, it may not be a permanent remedy.

Based on the investigation findings to date, it is anticipated that this alternative would meet the criteria described in Section 8.2.2. It is technically feasible and relatively easy to implement for on-island parcels. The costs for this alternative are summarized below and detailed in Table 6.

Capital Cost…… ……$550,178
Annual Cost (5 years)…..…….. $9,500
Annual Cost (30 years)……$1,250
Total Net Present Worth of Costs……$610,523

9.2.2 Unrestricted Use Option

Soil Excavation and Disposal

Under this alternative, a large portion of onsite soil/fill would be removed down to bedrock. The widespread nature of soil/fill contaminants and the presence of subsurface utilities limit the feasibility of excavation and off-site disposal as a remedial alternative.

The total volume of surface and subsurface soils above Unrestricted Use SCOs is estimated to be 263,650 tons, assuming a soil weight of 1.5 tons/yd^3. This estimate includes soil/fill on the island and off-island parcels, as shown on Figures 4 and 6.

Municipal forces could be utilized to complete the soil/fill removal, staging, loading, and backfill activities, pending their availability. For purposes of this evaluation, it is assumed that the work will be subcontracted and prevailing wage rates apply. Based on analytical results, the excavated material would be classified as non-hazardous waste. Excavated material would be transported off-site to a permitted disposal facility. Clean backfill would be used to bring excavated areas back to existing grade.

To facilitate soil/fill removal, significant clearing of trees and brush would be necessary for areas on the island and off-island parcels. Soils/fill would be removed down to bedrock, which occurs at varying depths across the Site. Demolition of concrete building slabs and foundation will be necessary for removal of soil on the parcel west of Pearl Street.

Post-removal confirmatory samples will be collected to demonstrate successful removal of impacted soil/fill. Bottom samples would not be required if soil/fill were removed down to bedrock. During excavation, air monitoring would be performed as specified in the Community Air Monitoring Plan (CAMP) and HASP.

Groundwater Extraction and Treatment (GWET)

In addition to the soil removal, a GWET system would be utilized to treat residual groundwater concentrations above NYS Groundwater Standards in the vicinity of MW-2S. Typically, a GWET system is designed so that the capture zone is sufficient to cover the lateral extent of the area of concern (shown on Figure 11). Based on the observations made during the TFE pilot study conducted at the site in the vicinity of

MW-2S and MW-2D, it is estimated that approximately 1,000 gallons per day would need to be extracted and treated by the system. The total number and location of extraction wells would be determined by a pumping test conducted during the design phase. Wells installation would involve rock coring.

Extracted groundwater would be pumped from the extraction wells and transferred via underground piping to an enclosure containing a multi-tray air stripper. Influent water flows into the air stripper, over a weir and through a series of sieve/aeration trays as it descends to a sump at the bottom of the unit. Air is simultaneously drawn up through the sieve holes in each tray forming a froth of bubbles, generating a large gas/liquid contact surface area. Depth of froth and unit air-to-water ratio are carefully controlled to optimize the contaminant removal process. This allows mass transfer of contaminants from the water into the rising air, which is exhausted at the top of the unit.

An air permit is not anticipated to be required at this Site, based on groundwater analytical results. If needed, the exhaust may be passed through a treatment device such as activated carbon. A permit would be necessary for discharge of treated effluent water, along with periodic sampling. An operations and maintenance (O&M) plan would be developed for regular system checks and performance monitoring.

Groundwater concentrations would be monitored through a groundwater sampling program to verify system performance. Samples would be analyzed for VOCs by EPA Method 8260 STARS.

This alternative is the most conservative of the three alternatives evaluated in detail herein, and would be protective of human health and the environment by remediating soil contaminant concentrations above Unrestricted Use SCOs from the Site and decreasing groundwater contaminant concentrations to levels below applicable NYS groundwater standards.

Soil and groundwater remediation will reduce the toxicity, mass, and mobility of hazardous substances at the Site by physical removal of the contaminant mass and subsequently preventing off-site migration. It should be noted that soil contamination would not be destroyed, just transferred to a controlled disposal facility. Groundwater contaminants would be transferred from groundwater to the atmosphere. VOCs breakdown naturally in the atmosphere.

There would be an increase in short-term risks associated with the soil removal work and installation of the GWET system. Work areas would need to be secured to minimize potential safety issues. These risks could be managed through implementation of a CAMP and HASP. There is also the potential for human exposure to airborne contaminants in the vicinity of the GWET system exhaust. The system would be engineered so as to minimize these exposures.

This alternative is a permanent remedy and would be effective in the long-term. Based on investigation findings to date, it is anticipated that this alternative may meet the criteria described in Section 8.1.2; however, there are technical limitations, safety considerations, and the costs are relatively high.

The costs for this alternative are summarized below and detailed in Table 7.

Capital Cost…… ……$2,063,300
Annual Cost (3 years)…..…….. $23,000
Future Cost……..$16,000
Total Net Present Worth of Costs……$2,139,756

9.3 Comparative Analysis

A comparative evaluation of the remedial alternatives is presented in the form of a matrix, provided in the table below.

Comparison of Remedial Alternatives

Criteria	Commercial Use Alternatives		Unrestricted Use Alternative
	No Further Action	**Institutional/Engineering Controls w/ Long-Term Monitoring**	**Soil Excavation/Disposal & Groundwater Extraction/Treatment**
Protection of Public Health & Environment	Not adequately protective of human health or the environment.	Potential exposures are mitigated through use of engineering and institutional controls and monitored for groundwater attenuation.	Most protective of human health and the environment.
Compliance with SCGs	Does not comply with NYS groundwater standards or Part 375 SCOs.	Concentrations exceed SCGs, but would be monitored and Site use would be restricted.	Will mitigate groundwater and soil contamination.
Long-Term Effectiveness/Permanence	Not an effective or permanent long-term remedy.	Effective in the long-term; however, may not be a permanent remedy. Residual impacted soil and groundwater would need to be managed by Site Management Plan (SMP).	This is a permanent remedy; however, may be limited by existing site conditions such as underground utilities. Requires long-term O&M.
Reduction of Toxicity, Mobility, or Volume	Only natural attenuation of contaminants.	Only natural attenuation of contaminants.	Soil and groundwater contaminants will be removed and off-site migration limited.
Short-Term Effectiveness/Permanence	No short-term risks or adverse impacts.	No short-term risks or adverse impacts.	Increased risks during implementation need to be addressed by HASP and CAMP.
Implementability	Very easy	Moderate	Difficult
Land Use	Not a suitable remedy for intended commercial use.	Suitable remedy for intended commercial use.	Would allow any future land use, but may still require deed restrictions to address residual inaccessible contamination.
Estimated Duration of Remedy	0 years	Monitoring: 5 years Engineering/Institutional Controls: Unlimited (assume 30 years)	1-2 years O&M: 3 years
Estimated Cost	$ 0	$610,523	$2,139,756

As shown in the matrix, the Unrestricted Use Alternative is the most permanent remedy, but also presents the most short-term risks to workers, is the most difficult to implement, and has the highest cost of all the alternatives evaluated.

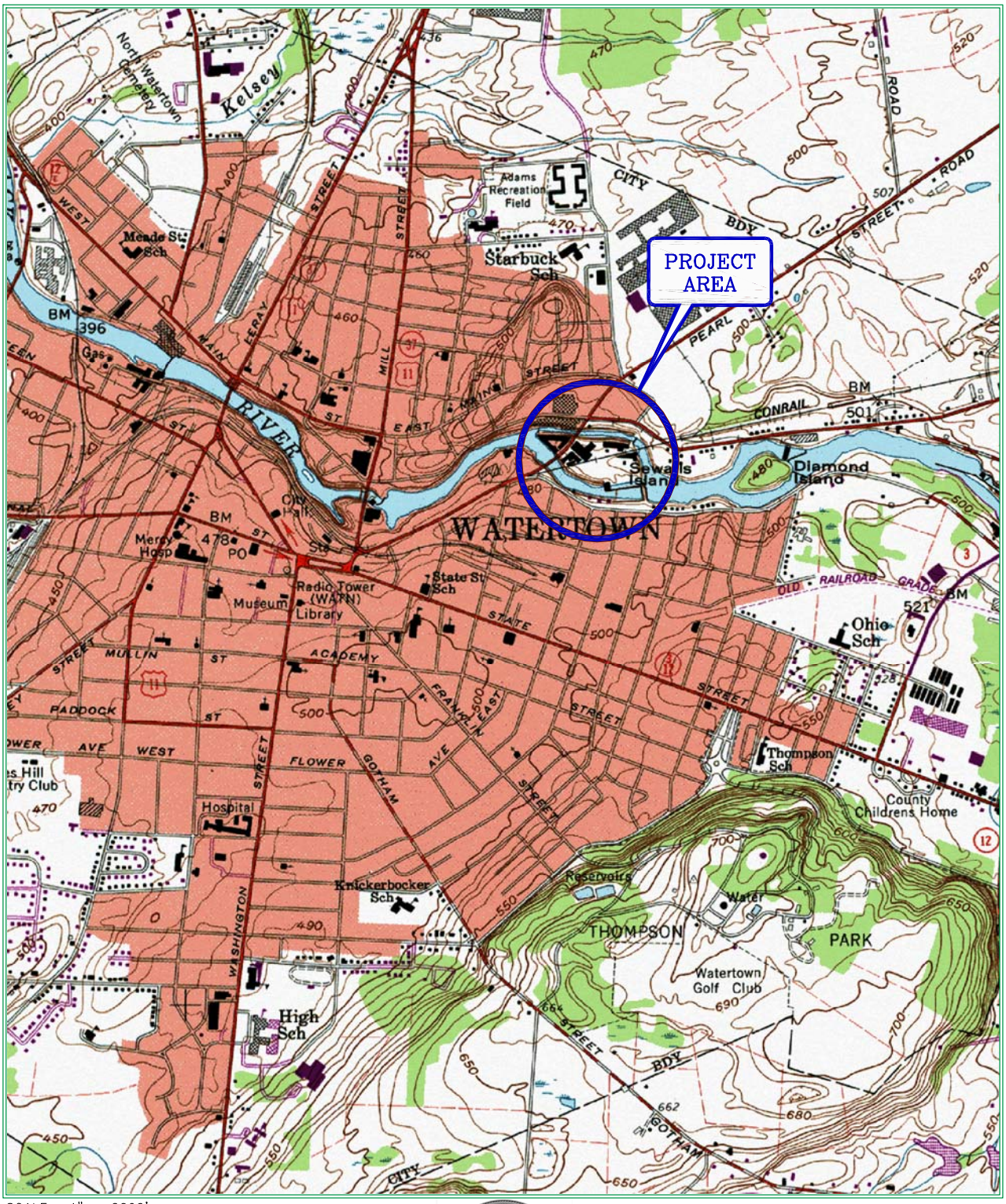
The No Further Action alternative is not considered adequately protective of human health because it does not limit Site use, prevent potential exposures, or limit the use of Site groundwater as a drinking water source.

The Engineering/Institutional Controls with Long-Term Monitoring Alternative addresses potential future exposure concerns by requiring a cover over impacted soils and tracking groundwater contaminant degradation over time. This alternative accounts for source removal IRMs already completed and relies on use of engineering/institutional controls to address widespread soil contamination from past industrial use of the Site; and natural attenuation over time to decrease residual groundwater contaminants.

All of the alternatives may leave residual soil and groundwater contamination on the subject Site. Based on current Site conditions including being secured by fencing and vacant, it is concluded that no completed exposure pathways were identified in the exposure assessment with regard to soil or groundwater contamination.

9.4 Recommended Remedy

No Further Action with Engineering/Institutional Controls and long-term monitoring is the recommended remedial alternative for this Site, based on the criteria in Section 8.1.2. This alternative would satisfy the RAOs developed for the Site and render the Site suitable for commercial use, including passive recreational uses. Additional soil and groundwater remedial efforts do not justify the exorbitant cost and short-term risks, considering that all exposure pathways can be eliminated through use of Engineering/Institutional Controls while still allowing full intended use of the Site.



SCALE: 1" = 2000'

N

NEW YORK QUADRANGLE LOCATION

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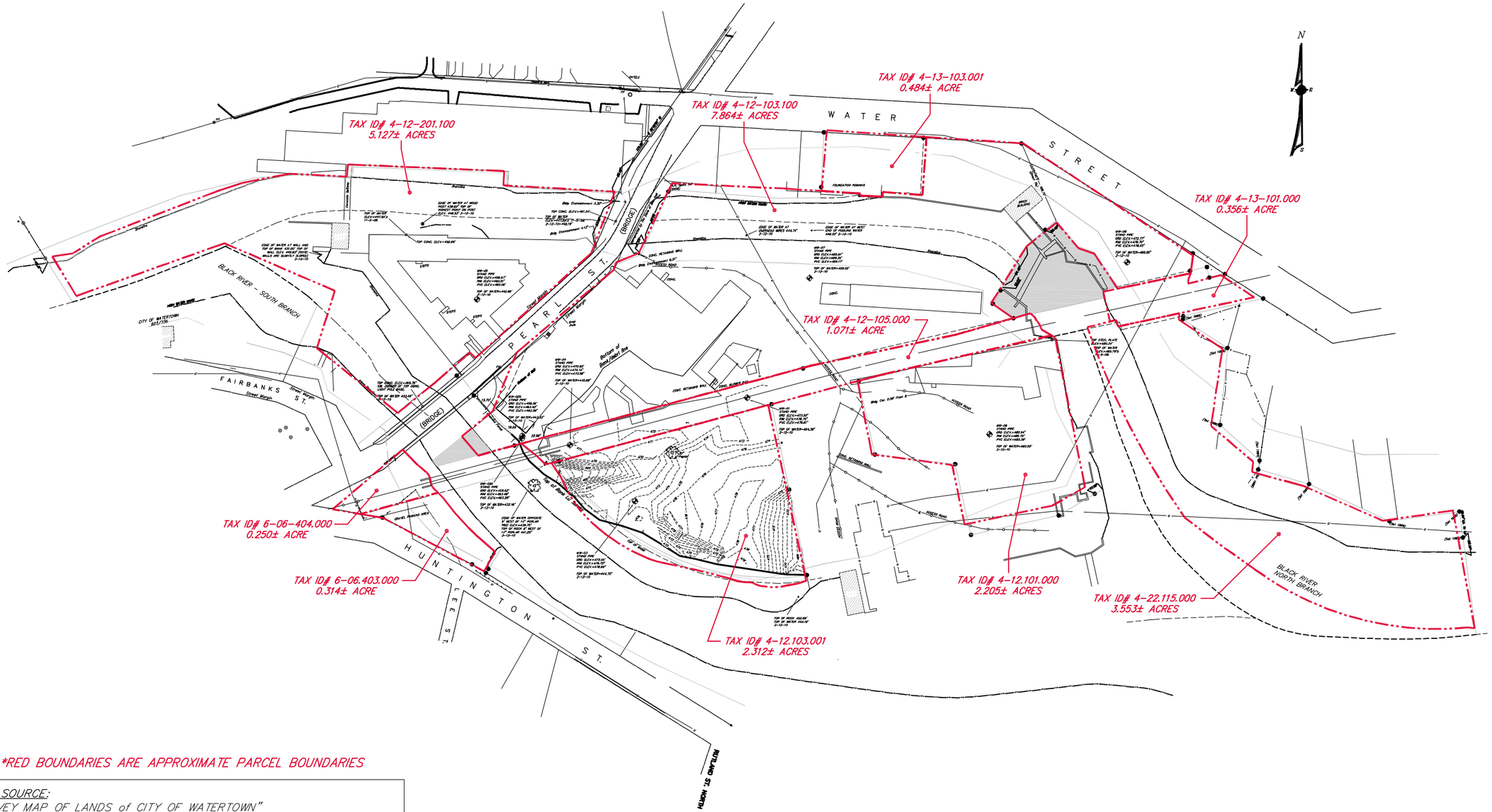
FIGURE 1. SITE LOCATION MAP

SEWALL'S ISLAND PROJECT
CITY OF WATERTOWN
JEFFERSON COUNTY NEW YORK

DATE:	MARCH 2012
SCALE:	1:24,000
DRAWN BY:	DLS
MAP SOURCE:	WATERTOWN QUADRANGLE NEW YORK – JEFFERSON COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) 1959; PHOTOREVISED 1982



*RED BOUNDARIES ARE APPROXIMATE PARCEL BOUNDARIES

MAP SOURCE:
"SURVEY MAP OF LANDS of CITY OF WATERTOWN"
PEARL STREET, WATER STREET, HUNTINGTON STREET & SEWELL'S ISLAND
OCTOBER 27, 2008
CITY OF WATERTOWN | COUNTY OF JEFFERSON | STATE OF NEW YORK
GYMO ARCHITECTURE, ENGINEERING, LAND SURVEYING, P.C.
220 STERLING STREET, WATERTOWN, NEW YORK 13601

TOPO AND MONITORING WELLS SURVEYED AND ADDED
BY LU ENGINEERS, NOVEMBER 5, 2008.

DATE: MARCH 2012

SCALE: 1" = 200'-0"

DESIGNED/DRAWN/CHECKED: LMN/DLS/GLA

MAP SOURCE: "SURVEY MAP of LANDS of CITY OF WATERTOWN - PEARL STREET, WATER STREET, HUNTINGTON STREET & SEWALL'S ISLAND

FIGURE 2. SITE PLAN

CITY OF WATERTOWN
SEWALL'S ISLAND
WATERTOWN, NEW YORK

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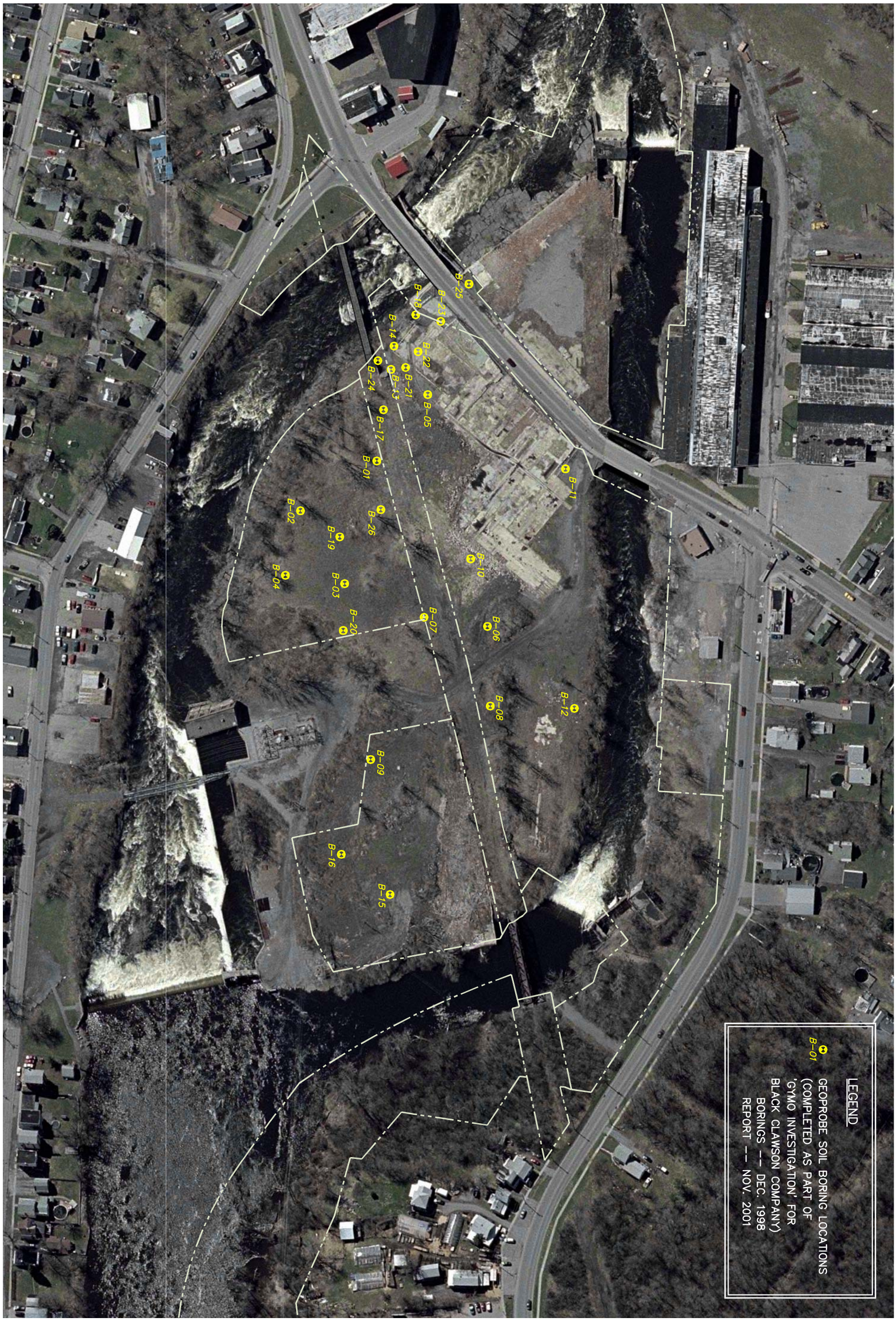

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Pittsford, New York 14534
Ph: 585.385.7417 | luengineers.com | Fax: 585.385.3741

FIGURE 3. PREVIOUS SAMPLE LOCATION MAP
REMEDIAL INVESTIGATION

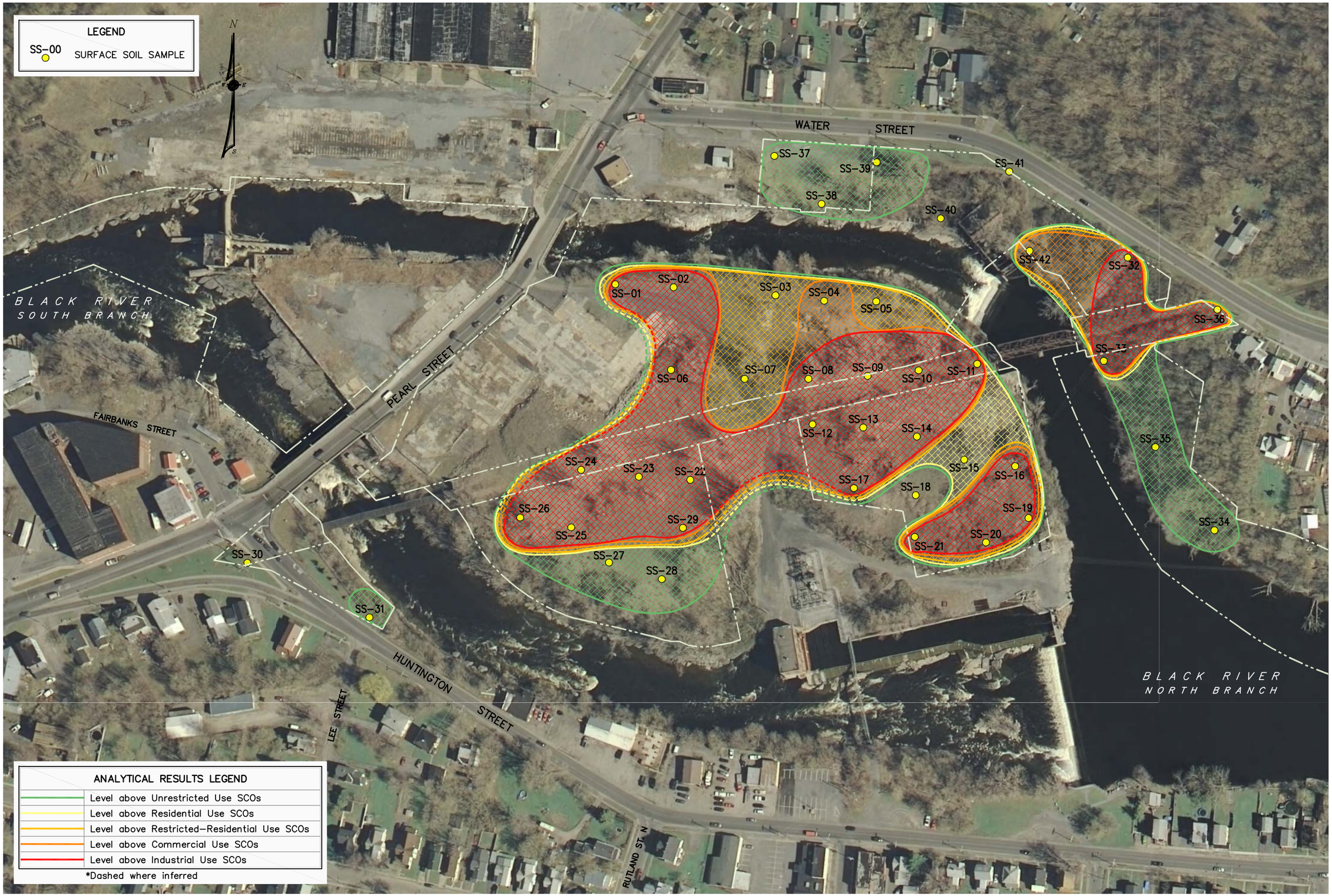
CITY OF WATERTOWN
SEWALL'S ISLAND
WATERTOWN, NEW YORK

DATE: AUGUST 2007

SCALE: (11x17) 1" = ±150' / (22x34) 1" = ± 75'

DESIGNED/DRAWN: RCM/DLS

MAP SOURCE: BLACK CLAWSON, TEST HOLE LOCATION (DRAWING)
IMAGE SOURCE: NEW YORK STATE DIGITAL ORTHOIMAGERY PROGRAM
GIS DATA – HIGH RESOLUTION IMAGERY, 2000–2005



DATE: MARCH 2012

SCALE: 1" = 150'-0"

DESIGNED/DRAWN/CHECKED: CMK/DLS/GLA

IMAGE SOURCE
NEW YORK STATE DIGITAL ORTHOIMAGERY PROGRAM
GIS DATA - HIGH RESOLUTION IMAGERY, 2006

FIGURE 4. SURFACE SOIL SAMPLE RESULTS

CITY OF WATERTOWN
SEWALL'S ISLAND
WATERTOWN, NEW YORK

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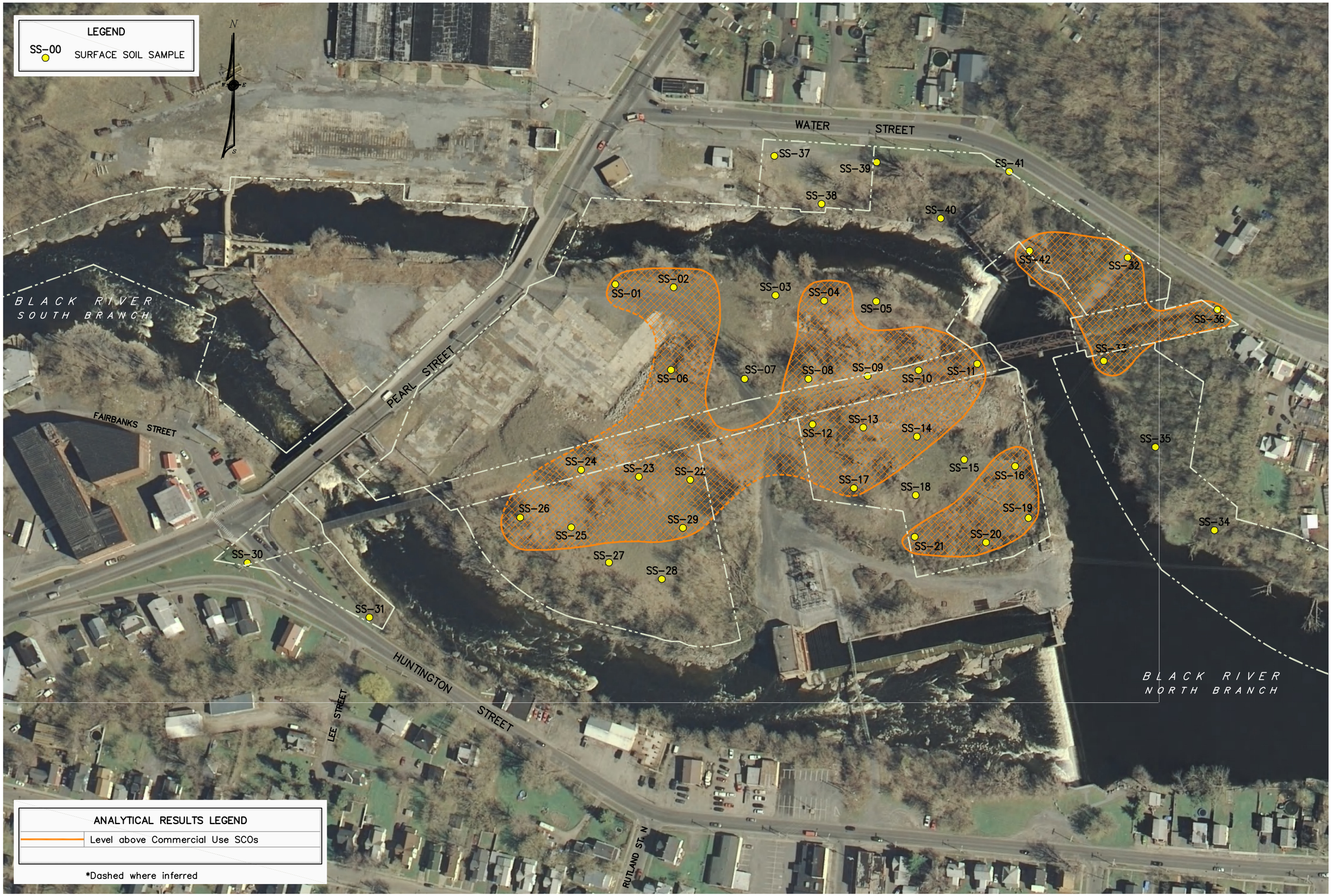

DATE: JANURARY 2013

SCALE: 1" = 150'-0"

DESIGNED/DRAWN/CHECKED: CMK/JRM/GLA

IMAGE SOURCE
NEW YORK STATE DIGITAL ORTHOIMAGERY PROGRAM
GIS DATA – HIGH RESOLUTION IMAGERY, 2006

FIGURE 4a. SURFICIAL AREAS REQUIRING SOIL COVER TO MEET COMMERICAL USE SCOs

CITY OF WATERTOWN
SEWALL'S ISLAND
WATERTOWN, NEW YORK

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J:\Projects\34200 Watertown\34202 Sewall's Island\Cadd\FER\4_SurfaceSoil Analytical_Fig 4a.dwg, 1/10/2013 11:32:59 AM, PDF995.pc3

GRID A SCALE	GRID B SCALE	GRID C SCALE
60000	35000	450000
40000	30000	400000
20000	25000	350000
0	20000	300000
-20000	15000	250000
-40000	10000	200000
-60000	5000	150000
-80000	0	100000
-100000	-5000	50000
-120000	-10000	0
-140000	-15000	-50000
-160000	-20000	-100000
-180000	-25000	-150000
-200000	-30000	-200000
-220000	-35000	-250000
-240000	-40000	-300000
-260000	-45000	-350000
-280000	-50000	-400000
		-450000
		-500000

GRID D SCALE	GRID E SCALE	GRID F SCALE
1000000	2000000	190000
900000	1900000	180000
800000	1800000	170000
700000	1700000	160000
600000	1600000	150000
500000	1500000	140000
400000	1400000	130000
300000	1300000	120000
200000	1200000	110000
100000	1100000	100000
0	1000000	90000
-100000	900000	80000
-200000	800000	70000
-300000	700000	60000
-400000	600000	50000
-500000	500000	40000
-600000	400000	30000
	300000	20000
	200000	10000
	100000	0
	0	-10000
	-100000	-20000
	-200000	-30000
	-300000	-40000
	-400000	-50000
	-500000	-60000
	-600000	-70000

DATE: MARCH 2012

SCALE: 1" = 80'-0"

DESIGNED/DRAWN/CHECKED: LMN/DLS/GLA

IMAGE SOURCE
NEW YORK STATE DIGITAL ORTHOIMAGERY PROGRAM
GIS DATA – HIGH RESOLUTION IMAGERY, 2006

FIGURE 5a. GEOPHYSICAL SURVEY GRIDS (JUNE 2008)

CITY OF WATERTOWN
SEWALL'S ISLAND
WATERTOWN, NEW YORK

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DATE: MARCH 2012

SCALE: 1" = 80'-0"

DESIGNED/DRAWN/CHECKED: ED/DLS/GLA

IMAGE SOURCE
NEW YORK STATE DIGITAL ORTHOIMAGERY PROGRAM
GIS DATA – HIGH RESOLUTION IMAGERY, 2006

FIGURE 5b. GEOPHYSICAL SURVEY GRIDS

CITY OF WATERTOWN
SEWALL'S ISLAND
WATERTOWN, NEW YORK

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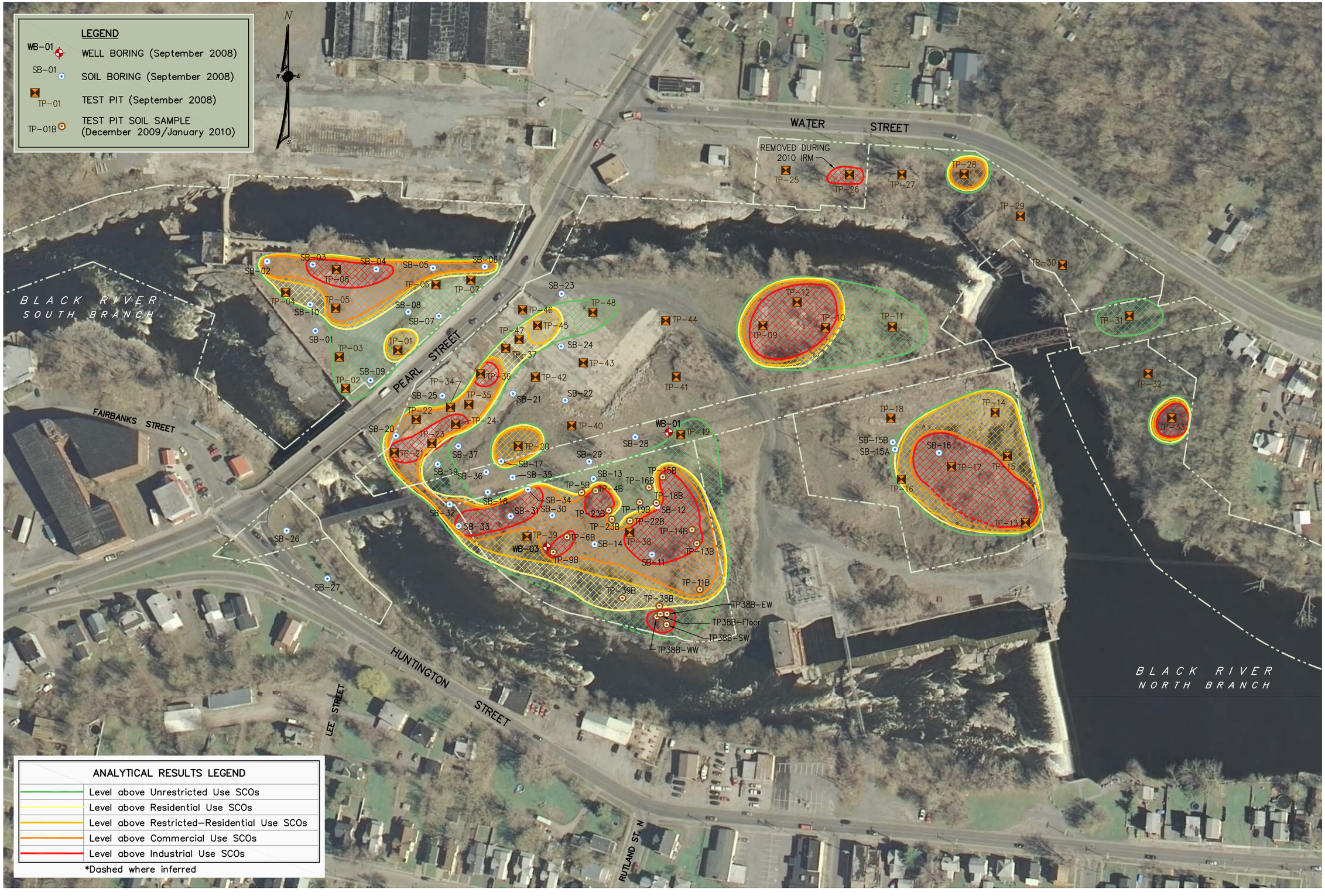

DATE: MARCH 2012

SCALE: 1" = 150'-0"

DESIGNED/DRAWN/CHECKED: CMK/DLS/GLA

IMAGE SOURCE
NEW YORK STATE DIGITAL ORTHOIMAGERY PROGRAM
GIS DATA - HIGH RESOLUTION IMAGERY, 2006

FIGURE 6. SUBSURFACE SOIL SAMPLE RESULTS

CITY OF WATERTOWN
SEWALL'S ISLAND
WATERTOWN, NEW YORK

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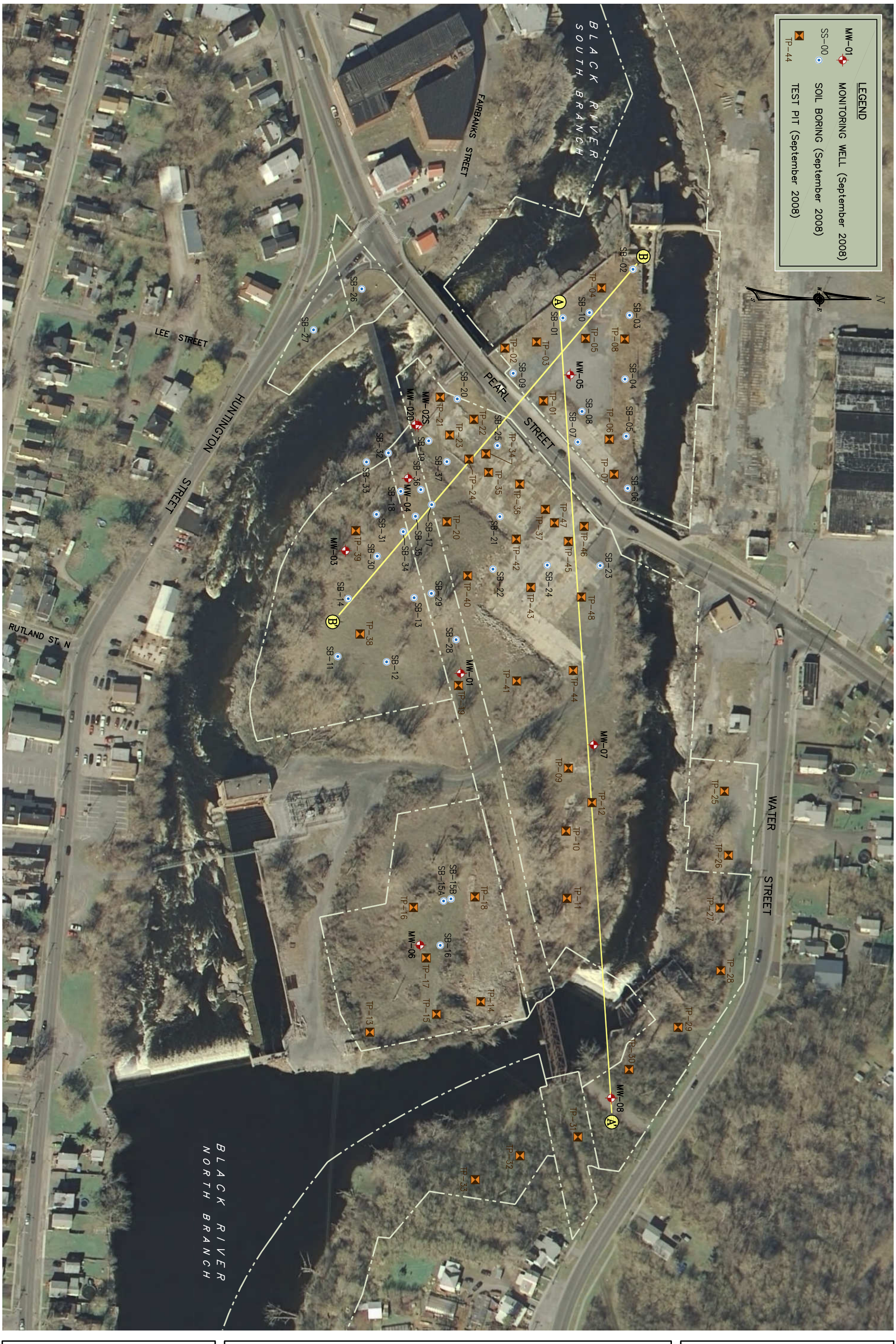

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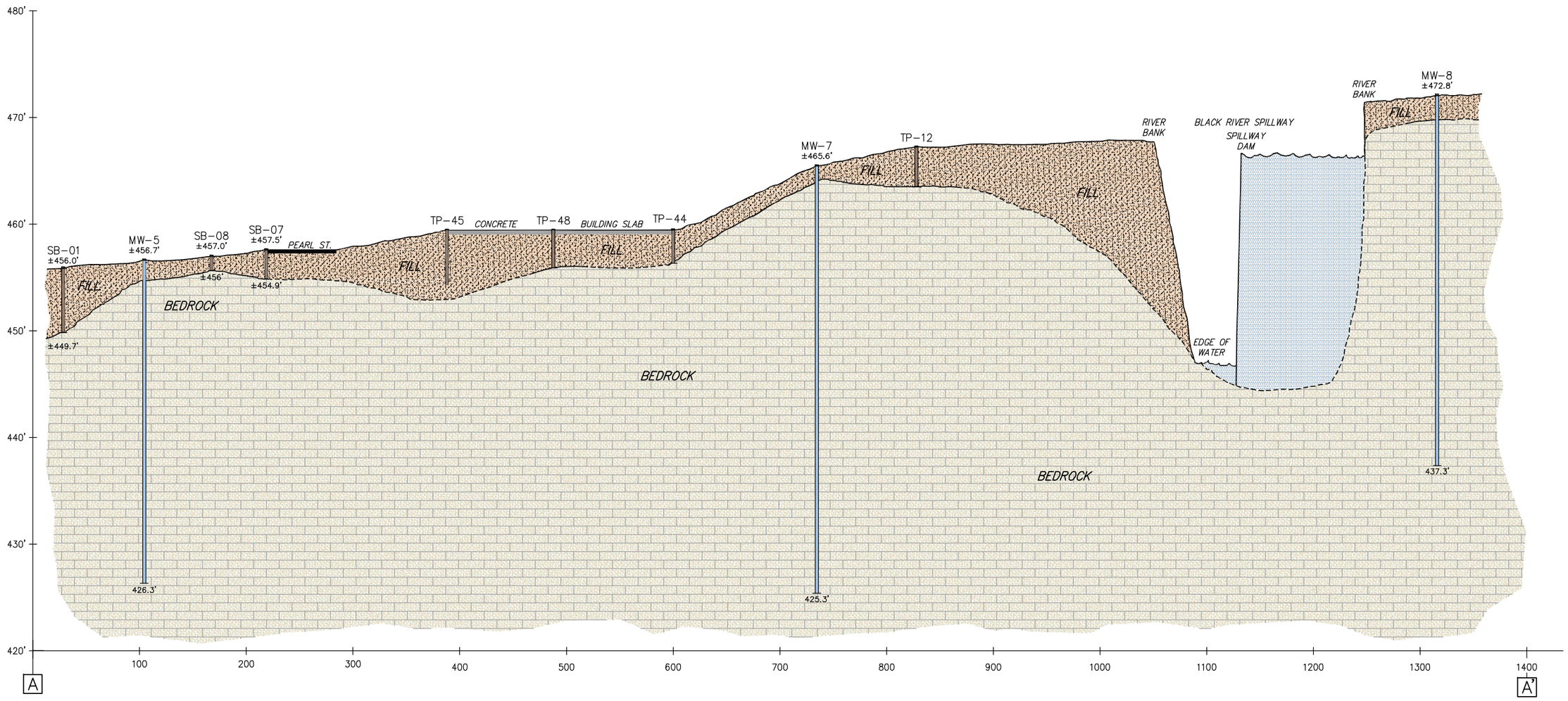
FIGURE 7a. SOIL CROSS SECTION TRANSECT LINES

CITY OF WATERTOWN
SEWALL'S ISLAND
WATERTOWN, NEW YORK

DATE:	MARCH 2012
SCALE:	1" = 150'-0"
DESIGNED/DRAWN/CHECKED:	CMK/DLS/GLA
MAP SOURCE:	"SURVEY MAP of LANDS of CITY OF WATERTOWN – PEARL STREET, WATER STREET, HUNTINGTON STREET & SEWALL'S ISLAND



PRIMARY SOIL TYPE:
FILL – Generally consisting of foundry Sand, Silt, gravel, coke, slag, brick, metal)

PRIMARY BEDROCK TYPE: *LIMESTONE*

------ DASHED LINE INDICATES INFERRED BEDROCK SURFACE

*ELEVATIONS ARE APPROXIMATE

SEWALL'S ISLAND SITE #E623021
SUBSURFACE SOIL CROSS SECTION
SECTION LINE A–A'

5'
VERTICAL SCALE: 1" = 10'

HORIZONTAL SCALE: 1" = 100'
100'

DATE: MARCH 2012
SCALE: AS SHOWN
DESIGNED/DRAWN/CHECKED: ERD/DLS/GLA

FIGURE 7b. SUBSURFACE SOIL CROSS SECTION SECTION LINE A–A'

CITY OF WATERTOWN
SEWALL'S ISLAND SITE #E623021
WATERTOWN, NEW YORK

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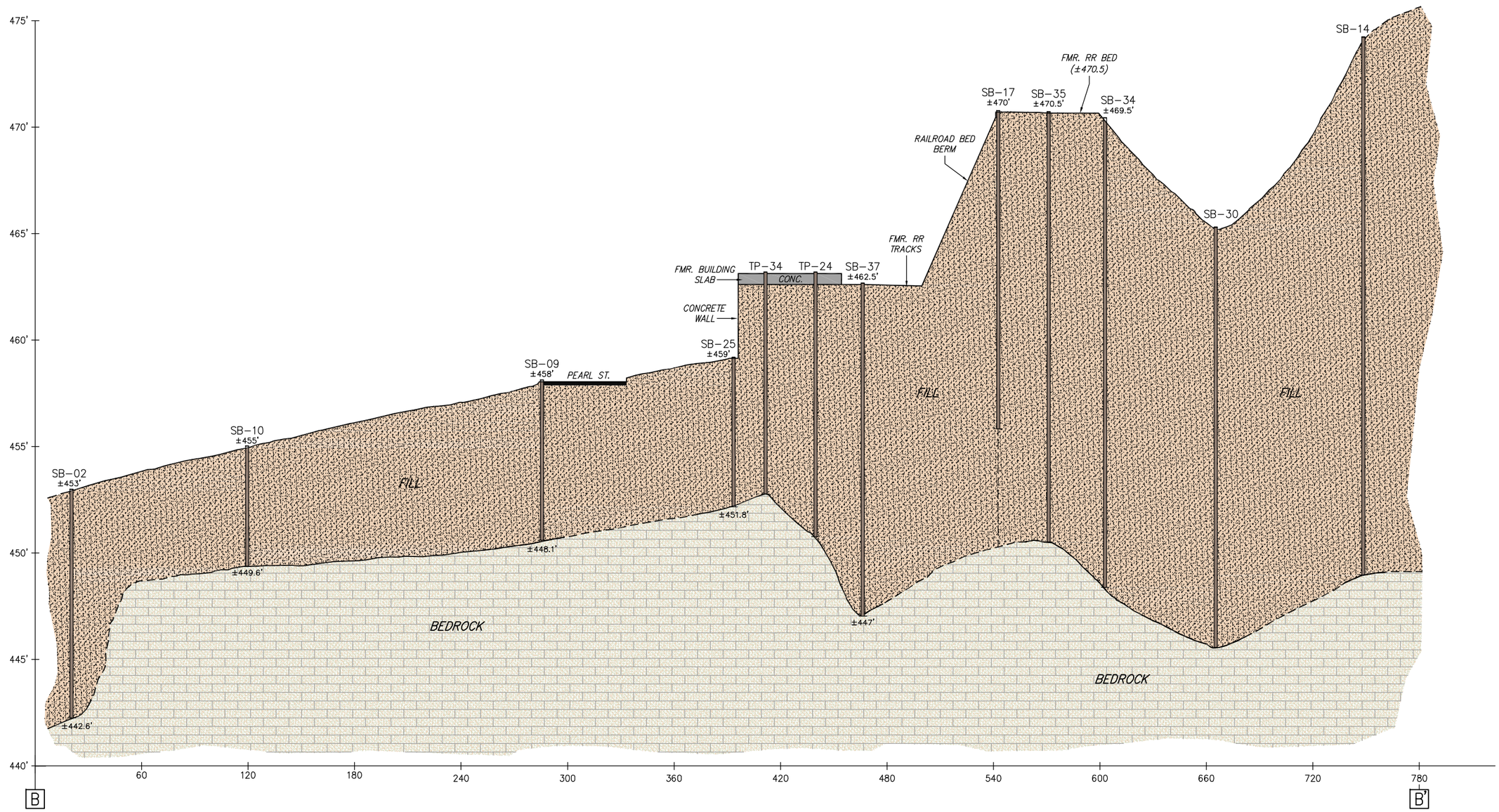

PRIMARY SOIL TYPE:
FILL – Generally consisting of foundry Sand, Silt, gravel, coke, slag, brick, metal)

PRIMARY BEDROCK TYPE: *LIMESTONE*

– – – – DASHED LINE INDICATES INFERRED BEDROCK SURFACE

*ELEVATIONS ARE APPROXIMATE

SEWALL'S ISLAND SITE #E623021
SUBSURFACE SOIL CROSS SECTION
SECTION LINE B–B'

2.5'

VERTICAL SCALE: 1" = 5'

HORIZONTAL SCALE: 1" = 60'
60'

DATE: MARCH 2012
SCALE: AS SHOWN
DESIGNED/DRAWN/CHECKED: ERD/DLS/GLA

FIGURE 7c. SUBSURFACE SOIL CROSS SECTION
SECTION LINE B–B'

CITY OF WATERTOWN
SEWALL'S ISLAND SITE #E623021
WATERTOWN, NEW YORK

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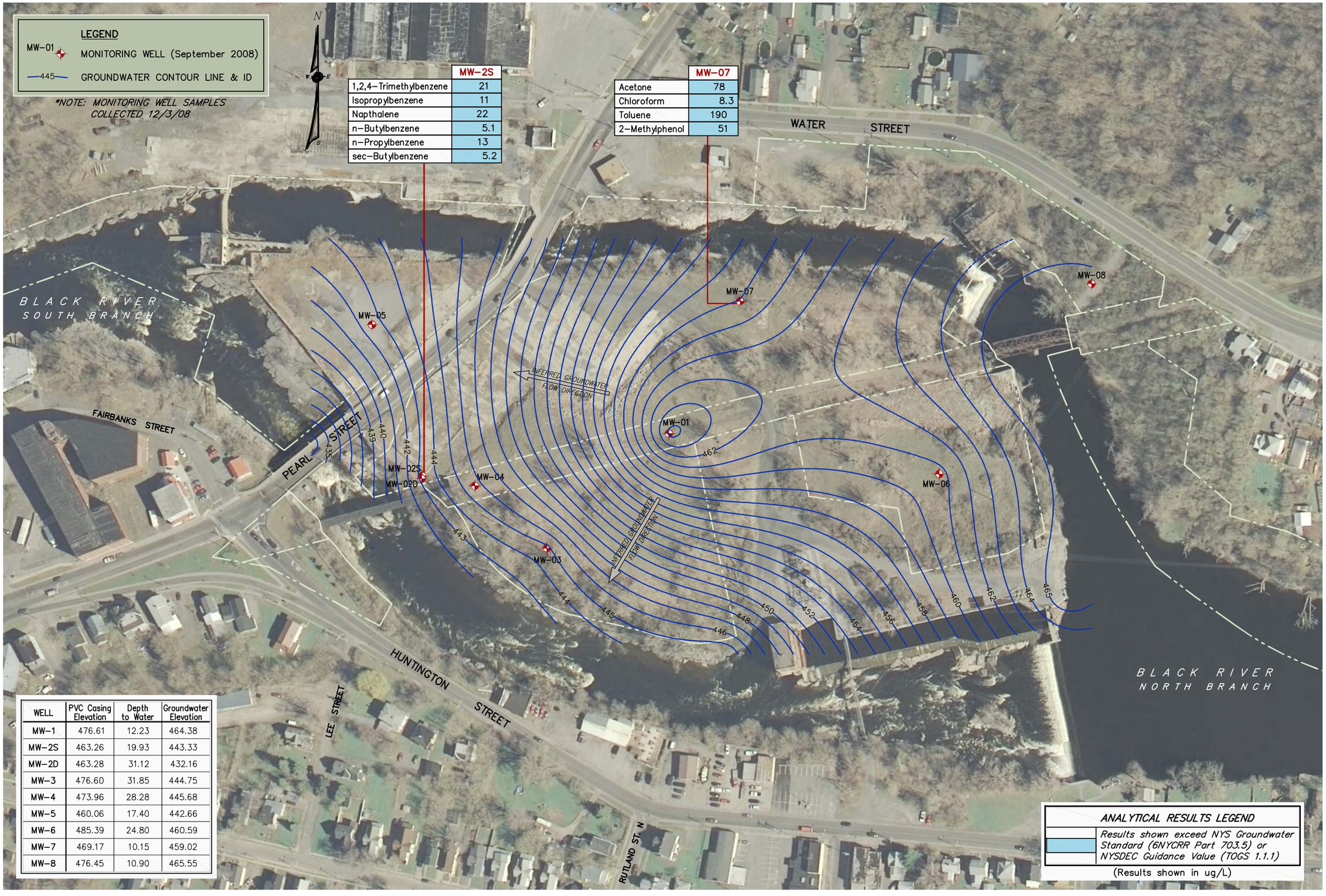

WELL	PVC Casing Elevation	Depth to Water	Groundwater Elevation
MW-1	476.61	12.23	464.38
MW-2S	463.26	19.93	443.33
MW-2D	463.28	31.12	432.16
MW-3	476.60	31.85	444.75
MW-4	473.96	28.28	445.68
MW-5	460.06	17.40	442.66
MW-6	485.39	24.80	460.59
MW-7	469.17	10.15	459.02
MW-8	476.45	10.90	465.55

DATE: MARCH 2012
SCALE: 1" = 150'-0"
DESIGNED/DRAWN/CHECKED: ERD/DLS/GLA

FIGURE 8. GROUNDWATER CONTOUR MAP (February 12, 2010)

CITY OF WATERTOWN
SEWALL'S ISLAND
WATERTOWN, NEW YORK

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DATE: MARCH 2012

SCALE: 1" = 150'-0"

DESIGNED/DRAWN/CHECKED: CMK/DLS/GLA

IMAGE SOURCE
NEW YORK STATE DIGITAL ORTHOIMAGERY PROGRAM
GIS DATA – HIGH RESOLUTION IMAGERY, 2006

FIGURE 9. IRM SITE PLAN
POTENTIAL AREAS OF CONCERN (PAOC)

CITY OF WATERTOWN
SEWALL'S ISLAND
WATERTOWN, NEW YORK

THE CITY OF WATERTOWN NEW YORK

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DATE: MARCH 2012

SCALE: 1" = 40'-0"

DESIGNED/DRAWN/CHECKED: ED/DLS/GLA

IMAGE SOURCE
NEW YORK STATE DIGITAL ORTHOIMAGERY PROGRAM
GIS DATA – HIGH RESOLUTION IMAGERY, 2006

FIGURE 10. IRM PAOC-1
TEST PITS and SAMPLE LOCATIONS (DEC. '09 to JAN. '10)

CITY OF WATERTOWN
SEWALL'S ISLAND
WATERTOWN, NEW YORK

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DATE: MARCH 2012

SCALE: 1" = 20'-0"

DESIGNED/DRAWN/CHECKED: GLA/DLS/GLA

IMAGE SOURCE
NEW YORK STATE DIGITAL ORTHOIMAGERY PROGRAM
GIS DATA - HIGH RESOLUTION IMAGERY, 2006

FIGURE 11. PAOC-2 / AS-BUILT DETAIL
TOTAL FLUIDS EXTRACTION SYSTEM PLAN

CITY OF WATERTOWN
SEWALL'S ISLAND
WATERTOWN, NEW YORK

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DATE: MARCH 2012

SCALE: 1" = 20'-0"

DESIGNED/DRAWN/CHECKED: CMK/DLS/GLA

IMAGE SOURCE
NEW YORK STATE DIGITAL ORTHOIMAGERY PROGRAM
GIS DATA – HIGH RESOLUTION IMAGERY, 2006

FIGURE 12. IRM PAOC-3 (DEC. 09 to JAN. '10)
SOIL REMOVAL LIMITS & CONFIRMATORY SAMPLE LOCATIONS

CITY OF WATERTOWN
SEWALL'S ISLAND
WATERTOWN, NEW YORK

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Table 1 - Previous Investigation Sub-Surface Soil Results (GYMO, 1998)

Detected Parameters	Unrestricted Use[3]	Residential Use[4]	Restricted-Residential Use[4]	Commercial Use[4]	Industrial Use[4]	B-1 Composite	B-2 (23')	B-3 Composite	B-4 Composite	B-5 (13.5')	B-5 Composite	B-6 Composite	B-7 Composite	B-9 Composite	B-10 Composite	B-11 Composite	B-12 Composite	B-13 (3-8')	B-14 (0-16')	B-14 (16-20')	B-15 Composite	B-16 Composite	B-17 Composite	B-18 (17-18')	B-18 (0-17')	B-19 (16-22')	B-19 Composite	B-20 (22')	B-20 (0-21')	B-21 (12-16')	B-22 (19-19.8')	B-23 (15-15.6')	B-24 (12-13')	B-26 Composite
					Date Sampled:	11/17/98	11/17/98	11/17/98	11/17/98	11/17/98	11/17/98	11/17/98	11/17/98	11/18/98	11/18/98	11/18/98	11/18/98	11/18/98	11/18/98	11/18/98	11/18/98	11/18/98	11/18/98	11/18/98	11/18/98	12/2/98	12/2/98	12/2/98	12/2/98	12/2/98	12/2/98	12/2/98	12/2/98	12/2/98
Volatile Organics - NYSDEC STARS 8021[1]																																		
1,2,4-Trimethylbenzene	**3,600**	**47,000**	**52,000**	**190,000**	**380,000**	ND	ND		ND	ND								ND		ND			ND	<500		ND		ND		ND	320	24,000	12,000	ND
1,3,5-Trimethylbenzene	**8,400**	**47,000**	**52,000**	**190,000**	**380,000**	ND	ND		ND	ND								ND		ND			ND	<500		ND		ND		ND	ND	5,500	ND	ND
4-Isopropyltoluene	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND		ND	ND								ND		ND			ND	<500		ND		ND		4,400	1,300	2,400	1,400	ND
Benzene	**60**	**2,900**	**4,800**	**44,000**	**89,000**	ND	ND		ND	ND								ND		ND			ND	<500		ND		ND		<500	<200	<200	<200	<200
Isopropylbenzene	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND		ND	ND								ND		ND			ND	750		ND		ND		2,300	2,600	1,200	640	ND
Naphthalene	**12,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND		260	ND								ND		ND			ND	<500		ND		ND		27,000	ND	23,000	1,000	ND
n-Butylbenzene	**12,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND		ND	ND								ND		ND			ND	3,400		ND		ND		5,600	6,800	3,800	1,900	ND
n-Propylbenzene	**3,900**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND		ND	ND								ND		ND			ND	1,900		ND		ND		4,800	5,600	2,900	1,300	ND
sec-Butylbenzene	**11,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND		ND	ND								ND		ND			ND	2,200		ND		ND		5,000	5,600	2,700	1,200	ND
Xylene (Total)	**260**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND		ND	ND								ND		ND			ND	<500		ND		ND		2,600	ND	1,500	450	ND
Semi-Volatile Organics - NYSDEC STARS 8270 Base/Neutrals[1]																																		
Acenaphthene	**20,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND		ND	ND								<2,000		ND			ND	<4,000						<10,000	<10,000	<10,000	4,000	
Anthracene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND		ND	ND								<2,000		ND			ND	<4,000						<10,000	<10,000	<10,000	2,600	
Benzo(a)anthracene	**1,000**	**1,000**	**1,000**	**5,600**	**11,000**	ND	ND		1,400	ND								<2,000		ND			ND	<4,000						<10,000	<10,000	<10,000	<2,000	
Benzo(a)pyrene	**1,000**	**1,000**	**1,000**	**1,000**	**1,100**	ND	ND		1,600	ND								<2,000		ND			ND	<4,000						<10,000	<10,000	<10,000	<2,000	
Benzo(b)fluoranthene	**1,000**	**1,000**	**1,000**	**1,000**	**11,000**	ND	ND		1,400	ND								<2,000		ND			ND	<4,000						<10,000	<10,000	<10,000	<2,000	
Benzo(g,h,i)perylene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND		1,100	ND								<2,000		ND			ND	<4,000						<10,000	<10,000	<10,000	<2,000	
Benzo(k)fluoranthene	**800**	**1,000**	**3,900**	**56,000**	**110,000**	ND	ND		<1,000	ND								<2,000		ND			ND	<4,000						<10,000	<10,000	<10,000	<2,000	
Chrysene	**1,000**	**1,000**	**3,900**	**56,000**	**110,000**	ND	ND		1,200	ND								<2,000		ND			ND	<4,000						<10,000	<10,000	<10,000	<2,000	
Dibenzo(a,h)anthracene	**330**	**330**	**330**	**560**	**1,100**	ND	ND		<1,000	ND								<2,000		ND			ND	<4,000						<10,000	<10,000	<10,000	<2,000	
Fluoranthene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND		1,600	ND								<2,000		ND			ND	<4,000						<10,000	<10,000	<10,000	<2,000	
Fluorene	**30,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND		<1,000	ND								<2,000		ND			ND	6,200						17,000	10,000	<10,000	4,500	
Indeno(1,2,3-cd)pyrene	**500**	**500**	**500**	**5,600**	**11,000**	ND	ND		1,000	ND								<2,000		ND			ND	<4,000						<10,000	<10,000	<10,000	<2,000	
Phenanthrene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND		<1,000	ND								<2,000		240			ND	8,800						27,000	19,000	16,000	7,300	
Pyrene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND		1,200	ND								<2,000		ND			ND	<4,000						<10,000	<10,000	<10,000	<2,000	
Total Petroleum Hydrocarbons- NYSDOH 310.13[2]																																		
Fuel oil #2	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**				ND	150								300						1,600										
Gasoline	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**				Not Present	Not Present								Not Present						Not Present										
Kerosene	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**				ND	ND								ND						<400										
Lubricating oil	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**				Present	Not Present								Present						Not Present										
Metals[2]																																		
Antimony	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**		ND	ND	ND		ND	ND	ND	ND	ND		ND		ND		ND	ND			ND		ND		ND	ND		ND	ND	ND
Arsenic	**13**	**16**	**16**	**16**	**16**		36	9.8	15		6.3	47	30	9.1	2.6		20		5.5		11	15			9.7		5.7		1.4	1.4		2.3	8.9	9.2
Beryllium	**7.2**	**14**	**72**	**590**	**2,700**		ND	ND	ND		ND	ND	ND	ND	ND		ND		ND		ND	ND			ND		ND		ND	ND		ND	ND	ND
Cadmium	**2.5**	**2.5**	**4.3**	**9.3**	**60**		3.9	2.1	ND		ND	ND	ND	ND	ND		ND		ND		ND	ND			ND		ND		ND	ND		ND	ND	ND
Chromium	**1**	**36**	**110**	**400**	**6,800**		36	19	47		11	33	32	7.9	4.5		16		7.9		20	10			12		20		3.4	10		1.8	5.3	17
Copper	**50**	**270**	**270**	**270**	**10,000**		100	440	540		57	68	69	17	7.8		240		5.6		140	39			40		99		10	1,800		3.6	1,100	190
Cyanide, Total	**27**	**27**	**27**	**27**	**10,000**		0.18	0.6	0.15		0.18	0.16									ND	0.15			0.11		0.18		ND	ND			ND	
Lead	**63**	**400**	**400**	**1,000**	**3,900**		140	190	160		49	48	140	250	67		480		8.2		99	120			45		130		20	300		6.0	110	190
Mercury	**0.18**	**0.81**	**0.81**	**2.8**	**5.7**		0.18	0.52	0.31		0.16	0.28	0.51	ND	ND		2.0		ND		ND	ND			ND		ND		ND	ND		ND	ND	ND
Nickel	**30**	**140**	**310**	**310**	**10,000**		30	14	35		8.7	13	21	6.4	4.5		22		8.8		17	11			9.3		18		4.8	22		2	6.1	15
Selenium	**3.9**	**36**	**180**	**1,500**	**6,800**		4.5	2.8	2.3		1.6	2.9	1.8	1.9	5.1		4.2		1.8		5.4	2.6			4.0		2.4		ND	ND		ND	ND	1.8
Silver	**2**	**36**	**180**	**1,500**	**6,800**		ND	ND	ND		ND	ND	ND	0.8	1.5		1.6		ND		1.4	ND			ND		ND		ND	ND		ND	ND	ND
Thallium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**		ND	ND	ND		ND	ND	ND	ND	ND		ND		ND		ND	ND			ND		ND		ND	ND		ND	ND	ND
Zinc	**109**	**2,200**	**10,000**	**10,000**	**10,000**		360	940	410		50	48	140	90	ND		300		44		110	31			49		64		19	510		21	86	110
PCBs - EPA Method 8082[2]																																		
PCBs	**0.1**	**1**	**1**	**1**	**25**		<0.2									<0.2									<0.2									

1 - results presented in micrograms per kilogram (ug/Kg).
2 - results presented in milligrams per kilogram (mg/Kg).
3 - 6 NYCRR Part 375-6.8 - Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives
4 - 6 NYCRR Part 375-6.8 - Table 375-6.8(b): Restricted Use Soil Cleanup Objectives
ND- not detected above reporting limit

Value Exceeds Unrestricted SCOs
Value Exceeds Residential Use SCOs
Value Exceeds Restricted-Residential SCOs
Value Exceeds Commercial Use SCOs
Value Exceeds Industrial Use SCOs

Table 2 Surface Soil Results

Detected Parameters	Unrestricted Use[3]	Residential Use[4]	Restricted-Residential Use[4]	Commercial Use[4]	Industrial Use[4]	SI-SS-01	SI-SS-02	SI-SS-03	SI-SS-04	SI-SS-05	SI-SS-06	SI-SS-07	SI-SS-08	SI-SS-09	SI-SS-10	SI-SS-11	SI-SS-12	SI-SS-13	SI-SS-14	SI-SS-15	SI-SS-16	SI-SS-17	SI-SS-18	SI-SS-19	SI-SS-20	SI-SS-21	SI-SS-22	SI-SS-23	SI-SS-24	SI-SS-25
					Date Sampled:	8/19/08	8/19/08	8/19/08	8/19/08	8/19/08	8/19/08	8/19/08	8/19/08	8/19/08	8/19/08	8/19/08	8/19/08	8/19/08	8/19/08	8/19/08	8/19/08	8/19/08	8/19/08	8/19/08	8/19/08	8/19/08	8/20/08	8/20/08	8/20/08	8/20/08
Volatile Organics - EPA Method 8260[1]																														
m,p-Xylene	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	2.6 BJ	2.7 BJ	2.4 BJ	2.2 BJ	2.0 BJ	1.9 BJ	1.8 BJ	2.3 BJ	2.1 BJ	1.7 BJ	2.0 BJ	1.5 BJ	1.4 BJ	1.2 BJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	**50**	**51,000**	**100,000**	**500,000**	**1,000,000**	1.5 J	1.4 J	1.6 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	**700**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	2.2 J	ND	1.3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (Total)	**260**	**100,000**	**100,000**	**500,000**	**1,000,000**	2.6 BJ	2.7 BJ	2.4 BJ	2.2 BJ	2.0 BJ	1.9 BJ	1.8 BJ	2.3 BJ	2.1 BJ	1.7 BJ	2.0 BJ	1.5 BJ	1.4 BJ	1.2 BJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organics - EPA Method 8270[1]																														
2-Methylnaphthalene	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	93 J	77 J	ND	ND	ND	150 J	73 J	ND	190 J	190 J	490 J	ND	ND	ND	ND	ND	160 J	ND	ND	ND	190 J	240 J	ND	190 J	76 J
Acenaphthene	**20,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	ND	ND	120 J	ND	ND	370 J	96 J	510 J	ND	190 J	830 J	ND	100 J	110 J	ND	ND	ND	ND	ND	240 J	ND	ND
Acenaphthylene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	330 J	ND	1300	190 J	290 J	850	630	2300	ND	170 J	630 J	ND	ND	240 J	ND	ND	400 J	ND	310 J	200 J	2400	130 J
Anthracene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	200 J	190 J	ND	320 J	ND	1400	190 J	340 J	1400	640	2700	860 J	760	3000	ND	230 J	340 J	ND	520 J	570 J	ND	480 J	560 J	2300	210 J
Benzo(a)anthracene	**1,000**	**1,000**	**1,000**	**5,600**	**11,000**	1000	1900	420	1100	420	3200	430	1500	3800	1800	9800	12000	2600	11000	660	2900	2100	ND	8300	5100	5800	5400	5000	4900	1400
Benzo(a)pyrene	**1,000**	**1,000**	**1,000**	**1,000**	**1,100**	1200	2500	570	1300	630	3500	620	1400	3600	1700	8800	12000	2200	7500	700	3500	2600	ND	11000	5400	6800	7600	7500	4600	1500
Benzo(b)fluoranthene	**1,000**	**1,000**	**1,000**	**1,000**	**11,000**	1800	4000	870	1800	1000	5300	1000	2100	5200	2600	13000	21000	3300	11000	710	5500	3600	ND	18000	9500	7600	9900	11000	6900	1100
Benzo(g,h,i)perylene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	1200	2600	590	1000	680	3300	560	1000	3200	1200	5500	13000	1500	4200	640	3500	2600	ND	12000	5400	7100	7900	8300	3700	1200
Benzo(k)fluoranthene	**800**	**1,000**	**3,900**	**56,000**	**110,000**	720	1400	390	920	340 J	2700	500	970	2600	1300	5700	7800	1200	4600	260 J	2600	1600	ND	5100	3000	2500	5100	3700	3300	960
Bis(2-ethylhexyl)phthalate	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	120 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	660	ND	ND	150 J	ND	ND	ND	ND	ND	ND	190 J
Carbazole	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	110 J	ND	190 J	ND	320 J	ND	140 J	680	300 J	1700 J	470 J	580	2300	ND	160 J	150 J	ND	ND	440 J	ND	220 J	300 J	280 J	ND
Chrysene	**1,000**	**1,000**	**3,900**	**56,000**	**110,000**	1400	2500	610	1400	760	3900	680	1700	4300	2400	11000	14000	2800	11000	1100	3500	2500	130 J	10000	5900	9600	7200	6400	5200	3000
Di-n-butylphthalate	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	190 J	280 J	ND	ND	ND	880	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	**330**	**330**	**330**	**560**	**1,100**	380 J	940	200 J	330 J	240 J	1300	220 J	350 J	1200	480	2200	4700	570	1400 J	250 J	1200	970	ND	3900	2100	2800	2600	3500	1400	630
Dibenzofuran	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	ND	ND	ND	110 J	ND	ND	350 J	160 J	910 J	ND	120 J	420 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	1600	2200	630	2600	520	4600	500	2600	6100	3200	20000	13000	5400	21000	510	3300	2500	ND	9600	6900	2900	4800	5200	5500	1000
Fluorene	**30,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	ND	ND	130 J	ND	ND	430 J	120 J	980 J	ND	190 J	930 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	**500**	**500**	**500**	**5,600**	**11,000**	1000	2400	510	960	590	3200	530	980	3000	1200	5500	11000	1500	4100	370 J	3200	2300	ND	10000	4800	4400	6700	7300	3500	800
Naphthalene	**12,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	79 J	ND	ND	ND	130 J	ND	ND	350 J	200 J	600 J	ND	170 J	620 J	ND	ND	120 J	ND	ND	ND	210 J	170 J	ND	170 J	ND
Phenanthrene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	700	830	310 J	1400	220 J	1300	200 J	1200	3900	1500	13000	4200	3000	12000	250 J	1200	1100	ND	3000	3400	1500	1400	1900	890	840
Phenol	**330**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	ND	ND	ND	ND	ND	130 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	1400	1900	530	2100	480	3900	560	2300	4900	2500	15000	11000	4000	16000	610	3000	2300	ND	8700	5500	4900	5100	4800	5100	1200
TAL Metals[2]																														
Aluminum	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	3330	3690	2880	5450	2670	2540	2750	4510	4450	3960	4110	3850	7790	2460	2750	4330	5760	12700	4610	3300	4220	2770	3040	3160	2900
Antimony	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	0.33 BN	0.49 BN	0.23 BN	0.64 BN	0.31 BN	0.61 BN	0.65 BN	0.89 N	2.8 N	1.3 N	4.2 N	0.89 N	0.25 BN	2.8 N	0.52 BN	0.72 N	2.2 N	ND	2.1 N	3.1 N	0.49 BN	1.9 N	2.8 N	4.0 N	0.53 BN
Arsenic	**13**	**16**	**16**	**16**	**16**	3.1	4.5	2.5	6.3	2.9	10.2	6.5	13.9	12.1	17.3	33.8	4.1	3.5	3.4	2.1	6.0	9.3	2.9	5.7	9.4	5.0	5.3	5.0	6.5	4.3
Barium	**350**	**350**	**400**	**400**	**10,000**	34.1	35.9	27.0	49.5	22.2	48.6	37.0	62.8	78.1	68.7	95.2	45.4	88.0	43.6	26.3	43.4	82.8	110	48.7	203	67.1	64.8	54.7	58.2	43.0
Beryllium	**7.2**	**14**	**72**	**590**	**2,700**	0.19 BE	0.23 E	0.17 E	0.42 E	0.18 BE	0.31 E	0.23 E	0.65 E	0.37 E	0.52 E	0.56 E	0.21 E	0.39 E	0.18 E	0.17 E	0.22 E	0.39 E	0.73 E	0.25 E	0.15 BE	0.18 B	0.15 B	0.12 B	0.14 B	0.10 B
Cadmium	**2.5**	**2.5**	**4.3**	**9.3**	**60**	0.30 E	0.71 E	0.24 E	0.37 E	0.45 E	0.26 E	0.38 E	0.70 E	1.1 E	0.48 E	0.70 E	0.55 E	0.26 E	1.2 E	0.66 E	1.6 E	1.8 E	0.28 E	2.4 E	8.7 E	0.57	0.94	1.5	2.7	1.0
Calcium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	128000	49000	117000	82800	118000	3460	58600	9840	8340	8470	13700	10100	172000	148000	109000	58500	36400	9070	16000	2150	3430	12600	2910	4980	4870
Chromium	**1**	**36**	**110**	**400**	**6,800**	10.4 *	10.9 *	6.7 *	9.1 *	8.4 *	8.3 *	12.7 *	11.3 *	16.4 *	10.9 *	18.4 *	12.6 *	9.4 *	13.6 *	11.5 *	9.8 *	21.2 *	16.8 *	20.6 *	27.5 *	20.6	20.2	92.6	31.7	20.5
Cobalt	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	3.8 E	3.6 E	1.6 BE	3.7 E	2.3 E	3.2 E	3.1 E	8.2 E	4.8 E	5.9 E	5.5 E	2.1 E	1.7 BE	1.8 E	2.3 E	2.3 E	4.1 E	8.6 E	4.0 E	7.1 E	5.2 E	4.1 E	6.1 E	6.9 E	4.3 E
Copper	**50**	**270**	**270**	**270**	**10,000**	45.5	126	27.5	46.5	46.7	51.3	90.2	80.5	78.1	131	148	86.7	30.3	104	67.5	112	178	20.7	553	185	66.9 N	175 N	105 N	2650 N	79.7 N
Iron	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	17500	16600	14200	28800	17700	16600	19100	35600	27500	31900	38500	17000	8100	23900	15800	25400	38900	25300	54300	146000	20300	26700	82300	35500	23000
Lead	**63**	**400**	**400**	**1,000**	**3,900**	53.0 E	126 E	39.8 E	147 E	50.2 E	92.8 E	82.4 E	230 E	463 E	172 E	211 E	119 E	44.7 E	130 E	102 E	989 E	341 E	16.1 E	128 E	289 E	73.3 E	228 E	495 E	413 E	139 E
Magnesium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	3880 E	2060 E	7980 E	5270 E	6800 E	307 E	2190 E	1120 E	780 E	1210 E	1200 E	1080 E	4620 E	2940 E	4230 E	2940 E	1120 E	5750 E	1290 E	577 E	769	861	683	848	1140
Manganese	**1600**	**2,000**	**2,000**	**10,000**	**10,000**	315 E	258 E	229 E	306 E	291 E	284 E	290 E	311 E	309 E	238 E	258 E	276 E	377 E	209 E	268 E	383 E	443 E	490 E	569 E	657 E	341	272	488	401	234
Mercury	**0.18**	**0.81**	**0.81**	**2.8**	**5.7**	0.089	0.14	0.087	3.0	0.038	0.19	0.082	0.29	0.56	0.28	0.27	0.064	0.088	0.29	0.089	0.11	0.34	0.061	1.0	0.23	0.10	0.16	0.15	0.42	0.17
Nickel	**30**	**140**	**310**	**310**	**10,000**	12.7 *E	13.1 *E	7.4 *E	10.4 *E	10.9 *E	12.2 *E	14.3 *E	17.4 *E	14.4 *E	14.5 *E	17.4 *E	15.2 *E	5.8 *E	12.0 *E	6.8 *E	11.4 *E	23.3 *E	16.0 *E	32.6 *E	55.7 *E	17.4	32.5	68.1	59.4	31.7
Potassium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	620	385	417	741	475	319	377	609	744	463	592	388	1170	429	460	451	411	2190	386	300	353	254	284	243	249
Selenium	**3.9**	**36**	**180**	**1,500**	**6,800**	3.7	1.1	3.0	1.6	2.8	1.0 B	1.9	1.2	2.1	1.6	0.84 B	0.69 B	4.2	3.2	2.8	1.7	ND	ND	ND	ND	1.3 B	1.2 B	ND	1.1 B	0.46 B
Silver	**2**	**36**	**180**	**1,500**	**6,800**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.10 B	ND	ND	ND	ND	ND	ND	0.70 B	ND
Sodium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	91.5	83.8	133	198	83.6	66.8	87.7	43.1	59.0	61.2	68.6	53.7	420	82.0	69.8	68.7	65.3	167	63.1	50.5	69.2	42.4 B	42.9	34.1 B	24.4 B
Thallium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	0.50 BN	0.31 BN	0.45 BN	0.31 BN	0.59 BN	ND	0.39 BN	0.29 BN	ND	0.37 BN	ND	ND	0.57 BN	0.54 BN	0.52 BN	0.30 BN	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	8.4	9.2	5.7	16.4	6.6	9.8	8.5	15.8	12.9	13.3	15.4	10.0	12.8	5.8	5.5	10	13.5	25.8	12.6	8.1	7.4	8.0	8.6	10.5	9.2
Zinc	**109**	**2,200**	**10,000**	**10,000**	**10,000**	65.5 E	137 E	46.5 E	79.3 E	140 E	58.2 E	72.8 E	137 E	202 E	91.8 E	161 E	114 E	45.9 E	283 E	196 E	242 E	313 E	65.5 E	203 E	2120 E	101 E	150 E	173 E	386 E	165 E
PCBs - EPA Method 8081[2]																														
Aroclor-1242	**0.1**	**1**	**1**	**1**	**25**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.34	0.24	ND	ND
Aroclor-1248	**0.1**	**1**	**1**	**1**	**25**	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.170	ND	ND	ND	0.040	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1254	**0.1**	**1**	**1**	**1**	**25**	ND	0.047	ND	ND	ND	ND	ND	0.055	ND	ND	ND	0.068	100	ND	0.18	ND	ND	ND	ND	ND	ND	0.74	0.41	ND	0.320 P
Aroclor-1260	**0.1**	**1**	**1**	**1**	**25**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.082 P	ND	ND	ND	0.99	ND

1 - results presented in micrograms per kilogram (ug/Kg).

2 - results presented in milligrams per kilogram (mg/Kg).

3 - 6 NYCRR Part 375-6.8 - Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives

4 - 6 NYCRR Part 375-6.8 - Table 375-6.8(b): Restricted Use Soil Cleanup Objectives

ND- not detected above reporting limit

J- value is estimated

Value Exceeds Unrestricted SCOs

Value Exceeds Residential Use SCOs

Value Exceeds Restricted-Residential SCOs

Value Exceeds Commercial Use SCOs

Value Exceeds Industrial Use SCOs

Table 2 Surface Soil Results

Detected Parameters	Unrestricted Use[3]	Residential Use[4]	Restricted-Residential Use[4]	Commercial Use[4]	Industrial Use[4]	SI-SS-26	SI-SS-27	SI-SS-28	SI-SS-29	SI-SS-30	SI-SS-31	SI-SS-32	SI-SS-33	SI-SS-34	SI-SS-35	SI-SS-36	SI-SS-37	SI-SS-38	SI-SS-39	SI-SS-40	SI-SS-41	SI-SS-42
					Date Sampled:	8/20/08	8/20/08	8/20/08	8/20/08	8/20/08	8/20/08	8/20/08	8/20/08	8/20/08	8/20/08	8/20/08	8/20/08	8/20/08	8/20/08	8/20/08	8/20/08	8/20/08
Volatile Organics - EPA Method 8260[1]																						
m,p-Xylene	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	**50**	**51,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	**700**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (Total)	**260**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organics - EPA Method 8270[1]																						
2-Methylnaphthalene	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	ND	81 J	ND	ND	ND	ND	ND	ND	310 J	ND	ND	ND	ND	ND	ND
Acenaphthene	**20,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	230 J	ND	ND	ND	ND	ND	130 J	ND	ND	ND	150 J	ND	ND	ND	ND	ND	ND
Acenaphthylene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	110 J	ND	220 J	520	150 J	ND	ND	2500	290 J	ND	140 J	110 J	250 J	ND
Anthracene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	580 J	110 J	ND	180 J	ND	210 J	590	ND	ND	ND	1700	160 J	ND	ND	ND	170 J	ND
Benzo(a)anthracene	**1,000**	**1,000**	**1,000**	**5,600**	**11,000**	4300	530	550	2000	170 J	610	1500	450 J	180 J	170 J	2900	370	160 J	260 J	300 J	480	160 J
Benzo(a)pyrene	**1,000**	**1,000**	**1,000**	**1,000**	**1,100**	6200	540	620	2300	190 J	670	1500	510 J	170 J	180 J	2900	520	190 J	290 J	330 J	630	210 J
Benzo(b)fluoranthene	**1,000**	**1,000**	**1,000**	**1,000**	**11,000**	9000	720	860	3000	270 J	990	2100	840	220 J	300 J	4700	770	270 J	420	500	900	330 J
Benzo(g,h,i)perylene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	7300	430	540	2100	160 J	530	1100	430 J	130 J	180 J	2300	560	150 J	280 J	270 J	540	190 J
Benzo(k)fluoranthene	**800**	**1,000**	**3,900**	**56,000**	**110,000**	4500	270 J	360 J	1000	120 J	350 J	880	330 J	ND	ND	2200	230 J	ND	220 J	170 J	390	150 J
Bis(2-ethylhexyl)phthalate	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	530	3700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	250 J	ND	ND	ND	ND	ND	230 J	ND	ND	ND	420 J	ND	ND	ND	ND	ND	ND
Chrysene	**1,000**	**1,000**	**3,900**	**56,000**	**110,000**	4900	830	900	3400	190 J	710	1500	630	210 J	230 J	3500	430	200 J	280 J	370 J	560	210 J
Di-n-butylphthalate	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	**330**	**330**	**330**	**560**	**1,100**	2700	200 J	230 J	1000	ND	180 J	320 J	ND	ND	ND	910	130 J	ND	ND	ND	180 J	ND
Dibenzofuran	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	230 J	ND	ND	ND	ND	ND	ND
Fluoranthene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	4500	800	890	1500	270 J	1100	2500	970	300 J	320 J	4800	530	290 J	390	480	750	240 J
Fluorene	**30,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	200 J	ND	ND	ND	ND	ND	130 J	ND	ND	ND	190 J	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	**500**	**500**	**500**	**5,600**	**11,000**	7000	350 J	440	1600	140 J	480	1000	380 J	ND	150 J	2300	440	130 J	240 J	240 J	490	160 J
Naphthalene	**12,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	ND	ND	ND	100 J	ND	ND	ND	330 J	ND	ND	ND	ND	ND	ND
Phenanthrene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	2300	640	390 J	840	ND	480	1200	490 J	150 J	200 J	1400	200 J	130 J	120 J	170 J	250 J	140 J
Phenol	**330**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	3800	600	730	1500	220 J	890	2000	760	290 J	270 J	3900	470	260 J	350	430	670	210 J
TAL Metals[2]																						
Aluminum	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	3920	4570	4770	3410	8920	3010	9160	9090	6960	9340	5820	2350	8860	3100	3210	2330	3260
Antimony	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	0.41 BN	1.6 N	0.31 BN	0.59 BN	ND	0.13 BN	0.25 BN	1.9 N	0.13 BN	0.17 BN	0.74 BN	ND	0.10 BN	ND	0.090 BN	0.41 BN	1.7 N
Arsenic	**13**	**16**	**16**	**16**	**16**	3.8	3.3	4.6	5.7	2.3	11.5	6.8	19.9	3.0	8.5	12.8	1.5	4.5	1.9	2.4	3.4	4.1
Barium	**350**	**350**	**400**	**400**	**10,000**	33.4	61.1	97.7	90.2	62.0	29.4	73.8	88.0	43.2	60.9	51.9	21.1	90.3	62.9	22.9 E	21.8 E	33.6 E
Beryllium	**7.2**	**14**	**72**	**590**	**2,700**	0.15 B	0.25 B	0.24	0.16 B	0.51	0.18 B	0.78	0.89	0.47	0.55	0.37	0.11 B	0.42	0.15 B	0.27	0.18	0.22
Cadmium	**2.5**	**2.5**	**4.3**	**9.3**	**60**	0.79	0.54	0.39	0.71	0.28	0.32	1.1	2.2	0.45	0.75	0.58	0.13 B	0.30	0.16 B	0.21	0.36	0.52
Calcium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	3340	124000	150000	65300	44400	126000	14100	56300	63100	22500	124000	196000	90000	194000	137000 *	139000 *	21900 *
Chromium	**1**	**36**	**110**	**400**	**6,800**	21.1	15.6	20.3	50.8	9.9	5.4	12.8	14.0	8.2	8.4	10.9	5.6	11.4	4.3	4.7 E	5.4 E	16.8 E
Cobalt	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	4.9 E	3.9 E	3.9 E	5.5 E	3.9 E	2.3 E	5.3 E	4.5 E	4.4 E	4.3 E	3.6 E	1.3 BE	4.5 E	1.7 BE	2.0 E	1.5 BE	2.3 E
Copper	**50**	**270**	**270**	**270**	**10,000**	96.5 N	58.2 N	30.2 N	81.5 N	19.3 N	17.8 N	41.6 N	79.7 N	27.6 N	29.9 N	76.5 N	11.0 N	40.9 N	14.1 N	23.3	43.8	811
Iron	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	50000	25600	25400	43400	15300	6560	23700	28100	13000	47000	24700	5950	12900	6010	6830	15700	21700
Lead	**63**	**400**	**400**	**1,000**	**3,900**	77.3 E	71.1 E	37.5 E	114 E	38.9 E	78.6 E	52.7 E	193 E	32.8 E	49.7 E	75.4 E	15.1 E	72.1 E	18.9 E	39.5 E	45.2 E	106 E
Magnesium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	401	4640	4800	4610	3000	5820	2430	1230	4460	6650	3380	3820	4350	6360	4120 E	2720 E	2060 E
Manganese	**1600**	**2,000**	**2,000**	**10,000**	**10,000**	696	381	488	530	554	224	504	526	416	291	276	218	275	224	244 *E	237 *E	502 *E
Mercury	**0.18**	**0.81**	**0.81**	**2.8**	**5.7**	0.082	0.20	0.11	0.14	0.088	0.18	0.20	0.35	0.16	0.14	0.29	0.062	0.14	0.018 B	0.085	0.12	0.067
Nickel	**30**	**140**	**310**	**310**	**10,000**	41.7	20.0	18.0	40.8	7.5	5.6	13.7	15.3	9.2	8.1	11.4	4.3	10.5	4.6	4.9 E	4.6 E	16.8 E
Potassium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	385	565	730	411	895	635	1270	687	845	952	1140	513	1730	616	506	396	334
Selenium	**3.9**	**36**	**180**	**1,500**	**6,800**	ND	3.5	3.8	1.4	1.5 B	3.8	1.1 B	4.9	2.6	2.1	3.8	5.1	3.3	5.5	3.1	2.6	0.48 B
Silver	**2**	**36**	**180**	**1,500**	**6,800**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.24 B
Sodium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	40.4 B	102	155	64.0	84.4	93.0	62.0	67.6 B	102	124	138	117	162	90.8	100 *	76.7 *	184 *
Thallium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	0.55 B	ND	0.77 B	ND	ND	ND	ND	ND	ND	ND	ND	0.36 B	0.49 B	0.49 B	ND
Vanadium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	8.8	7.7	7.6	17.5	16.5	7.4	19.8	21.8	11.3	20.0	13.0	4.7	19.1	5.6	5.8 E	7.7 E	9.4 E
Zinc	**109**	**2,200**	**10,000**	**10,000**	**10,000**	93.4 E	92.4 E	69.2 E	71.2 E	64.6 E	67.2 E	312 E	543 E	116 E	156 E	106 E	27.2 E	130 E	31.9 E	47.8 E	57.9 E	326 E
PCBs - EPA Method 8081[2]																						
Aroclor-1242	**0.1**	**1**	**1**	**1**	**25**	ND	ND	0.064	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1248	**0.1**	**1**	**1**	**1**	**25**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1254	**0.1**	**1**	**1**	**1**	**25**	0.24	0.14	0.062	0.07	ND	ND	ND	ND	0.055	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1260	**0.1**	**1**	**1**	**1**	**25**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

1 - results presented in micrograms per kilogram (ug/Kg).
2 - results presented in milligrams per kilogram (mg/Kg).
3 - 6 NYCRR Part 375-6.8 - Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives
4 - 6 NYCRR Part 375-6.8 - Table 375-6.8(b): Restricted Use Soil Cleanup Objectives
ND- not detected above reporting limit
J- value is estimated

Value Exceeds Unrestricted SCOs
Value Exceeds Residential Use SCOs
Value Exceeds Restricted-Residential SCOs
Value Exceeds Commercial Use SCOs
Value Exceeds Industrial Use SCOs

Table 3-1 Sub-Surface Soil Results - Test Pit VOCs & SVOCs

Detected Parameters	Unrestricted Use[2]	Residential Use[3]	Restricted-Residential Use[3]	Commercial Use[3]	Industrial Use[3]	SI-TP-01 (4')	SI-TP-02 (15')	SI-TP-02A (1')	SI-TP-05 (2')	SI-TP-06 (5')	SI-TP-08 (5.5')	SI-TP-09 (3')	SI-TP-11 (2.5')	SI-TP-12 (2.5')	SI-TP-13 (18')	SI-TP-14 (6')	SI-TP-19 (9.5')	SI-TP-20 (12')	SI-TP-21 (17.5')	SI-TP-22 (18')	SI-TP-23 (5.5')	SI-TP-24 (12')	SI-TP-26 (5.5')	SI-TP-27 (9')	SI-TP-28 (8')	SI-TP-29 (8')	SI-TP-31 (5.5')	SI-TP-33 (1.5')	SI-TP-35 (10')	SI-TP-36 (5')	SI-TP-38E (10')	SI-TP-38E (20')
Date Sampled:						9/8/08	9/8/08	9/8/08	9/8/08	9/8/08	9/8/08	9/9/08	9/9/08	9/9/08	9/9/08	9/9/08	9/9/08	9/9/08	9/9/08	9/9/08	9/9/08	9/9/08	9/10/08	9/10/08	9/10/08	9/10/08	9/10/08	9/10/08	9/10/08	9/10/08	9/11/08	9/11/08
Volatile Organics - EPA Method 8260[1]																																
1,1,1-Trichloroethane	**680**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	**270**	**19,000**	**26,000**	**240,000**	**480,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	**3600**	**47,000**	**52,000**	**190,000**	**380,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	74	37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.9 J
1,2-Dichloropropane	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	**8400**	**47,000**	**52,000**	**190,000**	**380,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	26
2-Butanone (MEK)	**120**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	ND	ND	7.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17 J	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	**50**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	ND	ND	140	ND	ND	ND	ND	ND	ND	ND	71	29	66	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	**60**	**2,900**	**4,800**	**44,000**	**89,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.6 J
Carbon disulfide	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	**370**	**10,000**	**49,000**	**350,000**	**700,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	**1000**	**30,000**	**41,000**	**390,000**	**780,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12
Freon 113	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**																											
Isopropylbenzene	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	210	44	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m,p-Xylene	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.2 J	ND	ND	ND	ND	4.3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.1
Methylcyclohexane	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**																											
Methylene chloride	**50**	**51,000**	**100,000**	**500,000**	**1,000,000**	3.5 J	19	7.2	3.9 J	3.8 J	17	15	3.4 J	15	16	19	3.2 J	26	ND	24 J	27	15	7.2	ND	2.2 J	ND	ND	ND	ND	ND	8.0	9.2
Naphthalene	**12,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	**12000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	300	220	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.4
n-Propylbenzene	**3900**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	92	87	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.6 J
o-Xylene	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	37
sec-Butylbenzene	**11000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	690	160	6.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	**5900**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	55 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	**1300**	**5,500**	**19,000**	**150,000**	**300,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17	54
Toluene	**700**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	ND	ND	ND	ND	ND	2.9 J	ND	4.6 J	ND	2.4 J	ND	ND	4.5 J	ND	ND	ND	ND	4.6 J	ND	ND	ND	ND	ND	22
Trichloroethene	**470**	**10,000**	**21,000**	**200,000**	**400,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND
Xylene (Total)	**260**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.2 J	ND	ND	ND	ND	6.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	42
Semi-Volatile Organics - EPA Method 8270[1]																																
2-Methylnaphthalene	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	95 J	ND	ND	ND	ND	ND	200 J	ND	250 J	ND	ND	780	1100	8800	ND	ND	ND	ND	ND	ND	ND	98 J	ND	170 J	220 J
4-Nitroaniline	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	**20,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	ND	ND	ND	ND	ND	210 J	370 J	ND	ND	ND	2400	1000	690 J	ND	ND	ND	ND	ND	ND	ND	250 J	500 J	ND	95 J
Acenaphthylene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	110 J	510	ND	ND	ND	ND	430	ND	ND	ND	ND	ND	660 J	ND	ND	ND	ND	ND	ND	ND	400 J	130 J	ND	ND	ND
Anthracene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	120 J	460	ND	210 J	1800 J	ND	520	2000	ND	ND	ND	1500	1100	280 J	ND	ND	ND	ND	ND	ND	360 J	570	930 J	130 J	320 J
Benzo(a)anthracene	**1,000**	**1,000**	**1,000**	**5,600**	**11,000**	ND	250 J	390	1900	160 J	930	24,000	ND	1300	10000	230 J	ND	790	620	3100	ND	110 J	ND	ND	300 J	ND	ND	1800	1300	24,000	920	3800
Benzo(a)pyrene	**1,000**	**1,000**	**1,000**	**1,000**	**1,100**	ND	240 J	370	2000	180 J	840	28,000	ND	1600	11000	210 J	ND	570	570	2900	ND	120 J	ND	ND	290 J	ND	ND	1600	1000	26,000	970	3800
Benzo(b)fluoranthene	**1,000**	**1,000**	**1,000**	**1,000**	**11,000**	ND	310 J	490	2700	250 J	990	40,000	ND	2200	17000	340 J	ND	1200	800	3700	270 J	150 J	ND	ND	420	ND	ND	2200	1200	32,000	770	5300
Benzo(g,h,i)perylene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	170 J	270 J	1500	160 J	570	26,000	ND	1200	10000	190 J	ND	630	340 J	1800	ND	ND	ND	ND	220 J	ND	ND	1300	570	24,000	860	3700
Benzo(k)fluoranthene	**800**	**1,000**	**3,900**	**56,000**	**110,000**	ND	150 J	220 J	1000	120 J	540	20,000	ND	1000	6600	180 J	ND	500	320 J	1500	ND	ND	ND	ND	170 J	ND	ND	1200	690	11,000	240 J	2200
Biphenyl	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**																											
Bis(2-ethylhexyl)phthalate	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	390 J	ND	ND	ND	ND
Butylbenzylphthalate	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	ND	190 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	ND	250 J	ND	130 J	1600 J	ND	380	980 J	ND	ND	ND	ND	510 J	450 J	ND	ND	ND	ND	ND	ND	240 J	380	1,500 J	ND	360 J
Chrysene	**1,000**	**1,000**	**3,900**	**56,000**	**110,000**	ND	300 J	410	2100	200 J	980	32,000	ND	1800	13000	300 J	ND	850	750	2900	230 J	140 J	ND	ND	350 J	ND	ND	1800	1400	28,000	1600	4200
Dibenzo(a,h)anthracene	**330**	**330**	**330**	**560**	**1,100**	ND	ND	ND	380 J	ND	170 J	8,900	ND	320 J	3500	ND	ND	200 J	ND	550 J	ND	ND	ND	ND	ND	ND	ND	430 J	180 J	9,300	320 J	1500
Dibenzofuran	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	210 J	440 J	ND	ND	ND	1700	800	650 J	ND	ND	ND	ND	ND	ND	ND	260 J	ND	ND	ND
Fluoranthene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	550	790	4500	340 J	1600	31,000	100 J	4300	17000	490	ND	1300	2400	7200	380 J	250 J	ND	ND	600	130 J	ND	3500	3600	23,000	610	4400
Fluorene	**30,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	100 J	ND	93 J	ND	ND	270 J	640 J	ND	ND	ND	5000	2400	1800	ND	ND	ND	ND	ND	ND	ND	280 J	ND	ND	ND
Indeno(1,2,3-cd)pyrene	**500**	**500**	**500**	**5,600**	**11,000**	ND	140 J	230 J	1300	130 J	480	24,000	ND	1100	9200	170 J	ND	560	310 J	1700	ND	ND	ND	ND	190 J	ND	ND	1200	540	20,000	430	3200
Naphthalene	**12,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	ND	ND	ND	ND	ND	170 J	ND	750	ND	ND	280 J	570 J	2100	ND	ND	ND	ND	ND	ND	ND	160 J	ND	120 J	150 J
Phenanthrene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	380	450	2100	210 J	1300	11,000	ND	3500	9300	450	ND	350 J	890	6800	2600	ND	ND	ND	270 J	ND	ND	1100	3600	5,200	770	1800
Pyrene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	460	660	3600	300 J	1600	25,000	ND	3400	13000	340 J	ND	1000	1800	5700	450 J	200 J	ND	ND	480	110 J	ND	2600	2800	21,000	930	3200

1 - results presented in micrograms per kilogram (ug/Kg).
2 - 6 NYCRR Part 375-6.8 - Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives
3 - 6 NYCRR Part 375-6.8 - Table 375-6.8(b): Restricted Use Soil Cleanup Objectives
ND- not detected above reporting limit
J- value is estimated

Value Exceeds Unrestricted SCOs
Value Exceeds Residential Use SCOs
Value Exceeds Restricted-Residential SCOs
Value Exceeds Commercial Use SCOs
Value Exceeds Industrial Use SCOs

Table 3-1 Sub-Surface Soil Results - Test Pit VOCs & SVOCs

Detected Parameters	Unrestricted Use[2]	Residential Use[3]	Restricted-Residential Use[3]	Commercial Use[3]	Industrial Use[3]	SI-TP-38W (20')	SI-TP-39 (21')	SI-TP-41 (12')	SI-TP-42 (5')	SI-TP-45 (5')	SI-TP-47 (4')	SI-TP-48 (2')	TP-1 (21')	TP-2 (22')	TP-4 (22')	TP-5 (18')	TP-6 (30')	TP-9 (20.5)	TP-11 (20')	TP-13 (24-25')	TP-14 (25-27')	TP-15 (11')	TP-16 (17')	TP-18 (22')	TP-19 (23')	TP-22 (30')	TP-23 (23')	TP-23 (28.5')	TP-39 (25')
					Date Sampled:	9/11/08	9/12/08	9/12/08	9/12/08	9/12/08	9/12/08	9/12/08	12/17/09	12/17/09	12/17/09	12/17/09	12/18/09	12/21/09	12/21/09	12/22/09	12/22/09	12/22/09	12/23/09	12/23/09	12/28/09	12/29/09	12/30/09	12/30/09	1/21/10
Volatile Organics - EPA Method 8260[1]																													
1,1,1-Trichloroethane	**680**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	96.5	ND	181	ND	ND
1,1-Dichloroethane	**270**	**19,000**	**26,000**	**240,000**	**480,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.81 J	22.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.61 J	ND	ND
1,2,4-Trimethylbenzene	**3600**	**47,000**	**52,000**	**190,000**	**380,000**	ND	ND	ND	ND	ND	ND	ND								5,500	1040								
1,2-Dichloropropane	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	**8400**	**47,000**	**52,000**	**190,000**	**380,000**	ND	ND	ND	ND	ND	ND	ND								1760	302								
2-Butanone (MEK)	**120**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	ND	ND	ND	ND	ND	26.5	ND	ND	33.8	ND	ND	ND	778	ND	107	ND	12.1 J	ND	ND	ND	ND
4-Isopropyltoluene	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	ND	ND	ND	ND	ND								ND	226 J								
Acetone	**50**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	ND	ND	ND	ND	59.0 B	239 B	ND	ND	372 B	ND	64.1 B	45,000 B	2560	ND	901	208	164	156	97.3	90.1	ND
Benzene	**60**	**2,900**	**4,800**	**44,000**	**89,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	3.50 J	ND	ND	13.5	ND	ND	ND	141	ND	13.6	ND	13.1	ND	ND	ND	ND
Chloroform	**370**	**10,000**	**49,000**	**350,000**	**700,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14	ND	4.10 J,B	ND	2.97 J,B	ND
Ethylbenzene	**1000**	**30,000**	**41,000**	**390,000**	**780,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.67 J	ND	117	ND	ND	ND	ND	ND	ND	ND	ND
Freon 113	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**								ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12.8	ND	35.3	ND	ND
Isopropylbenzene	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m,p-Xylene	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.70 J	4.63 J	ND	ND	ND	ND	ND	ND	ND	2.77 J	ND	2.44 J
Methylcyclohexane	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**								ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	**50**	**51,000**	**100,000**	**500,000**	**1,000,000**	3.6 J	2.3 J	ND	10	7.1	5.3 J	3.3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.5 J	ND	ND	ND	34.0
Naphthalene	**12,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	ND	ND	ND	ND								55,300	4910								
n-Butylbenzene	**12000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	ND	ND	ND	ND								ND	195 J								
n-Propylbenzene	**3900**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	ND	ND	ND	ND								ND	102								
o-Xylene	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.01 J	ND	81.7 J	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	**11000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	ND	ND	ND	ND								ND	ND								
tert-Butylbenzene	**5900**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	ND	ND	ND	ND								ND	ND								
Tetrachloroethene	**1300**	**5,500**	**19,000**	**150,000**	**300,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	21.9	ND	ND	32.3	ND	ND	ND	ND	6.77	ND	ND	ND	ND	ND	ND
Toluene	**700**	**100,000**	**100,000**	**500,000**	**1,000,000**	5.3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.37 J
Trichloroethene	**470**	**10,000**	**21,000**	**200,000**	**400,000**	14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (Total)	**260**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.70 J	6.64 J	ND	81.7 J	ND	ND	ND	ND	ND	2.77 J	ND	2.44 J
Semi-Volatile Organics - EPA Method 8270[1]																													
2-Methylnaphthalene	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2400	2150	ND	ND	361 J	ND	ND	ND	ND	ND
4-Nitroaniline	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	**20,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	130 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1510	3330	ND	ND	ND	ND	ND	2,810 J	ND	ND
Acenaphthylene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	626	1770	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	202 J	ND	ND	172 J	ND	1270	2720	1020 J	ND	ND	ND	ND	3,510 J	ND	ND
Benzo(a)anthracene	**1,000**	**1,000**	**1,000**	**5,600**	**11,000**	480	230 J	ND	150 J	500	600	ND	ND	ND	1810	188 J	277 J	931	320	1010	1770	5970	331 J	ND	234 J	ND	10,300	ND	ND
Benzo(a)pyrene	**1,000**	**1,000**	**1,000**	**1,000**	**1,100**	690	250 J	ND	150 J	670	730	ND	ND	ND	3210	284 J	485	1440	408	863	1750	9740	413	ND	258 J	ND	11,000	ND	ND
Benzo(b)fluoranthene	**1,000**	**1,000**	**1,000**	**1,000**	**11,000**	700	450	ND	270 J	850	810	ND	ND	ND	3810	296 J	478	1270	373	597	1170	7990	443	ND	314 J	ND	10,000	ND	ND
Benzo(g,h,i)perylene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	650	270 J	ND	170 J	740	750	ND	ND	ND	3410	273 J	442	1320	331	409 J	895	10400	436	ND	234 J	ND	7,980	ND	ND
Benzo(k)fluoranthene	**800**	**1,000**	**3,900**	**56,000**	**110,000**	280 J	210 J	ND	ND	390	350 J	ND	ND	ND	2320	183 J	327 J	998	257 J	434 J	795	7900	273 J	ND	194 J	ND	8,090	ND	ND
Biphenyl	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**								ND	ND	ND	ND	ND	ND	ND	625	1140	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	ND	ND	150 J	440	200 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butylbenzylphthalate	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	**1,000**	**1,000**	**3,900**	**56,000**	**110,000**	640	330 J	ND	220 J	980	1100	ND	ND	ND	2400	251 J	299 J	1010	346	980	1650	6830	354 J	ND	266 J	ND	11,900	ND	ND
Dibenzo(a,h)anthracene	**330**	**330**	**330**	**560**	**1,100**	190 J	95 J	ND	ND	290 J	230 J	ND	ND	ND	1440	ND	ND	326	ND	ND	ND	3470	ND	ND	ND	ND	3,350 J	ND	ND
Dibenzofuran	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	430 J	811	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	580	510	ND	280 J	390	370 J	ND	ND	ND	1660	344 J	321 J	1110	571	1950	3330	6830	507	ND	358	ND	26,700	ND	ND
Fluorene	**30,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1270	1930	ND	ND	ND	ND	ND	2,400 J	ND	ND
Indeno(1,2,3-cd)pyrene	**500**	**500**	**500**	**5,600**	**11,000**	490	240 J	ND	130 J	550	470	ND	ND	ND	3180	240 J	416	1210	284 J	274 J	725	7750	292 J	ND	ND	ND	5,990	ND	ND
Naphthalene	**12,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	130 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1760	2210	ND	ND	871	ND	ND	ND	ND	ND
Phenanthrene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	370	400	ND	190 J	230 J	210 J	ND	ND	ND	790	226 J	ND	675	345	5430	8770	3420	295 J	ND	213 J	ND	25,000	ND	ND
Pyrene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	500	360 J	ND	200 J	350 J	480	ND	ND	ND	1,820	363	321 J	1060	552	2600	4600	6270	424	ND	306 J	ND	20,300	ND	ND

1 - results presented in micrograms per kilogram (ug/Kg).
2 - 6 NYCRR Part 375-6.8 - Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives
3 - 6 NYCRR Part 375-6.8 - Table 375-6.8(b): Restricted Use Soil Cleanup Objectives
ND- not detected above reporting limit
J- value is estimated

Value Exceeds Unrestricted SCOs
Value Exceeds Residential Use SCOs
Value Exceeds Restricted-Residential SCOs
Value Exceeds Commercial Use SCOs
Value Exceeds Industrial Use SCOs

Table 3-2 Sub-Surface Soil Results - Test Pits - Metals & PCBs

Detected Parameters	Unrestricted Use[2]	Residential Use[3]	Restricted-Residential Use[3]	Commercial Use[3]	Industrial Use[3]	SI-TP-01 (4')	SI-TP-02 (15')	SI-TP-02A (1')	SI-TP-05 (2')	SI-TP-06 (5')	SI-TP-08 (5.5')	SI-TP-09 (3')	SI-TP-11 (2.5')	SI-TP-12 (2.5')	SI-TP-13 (18')	SI-TP-14 (6')	SI-TP-19 (9.5')	SI-TP-20 (12')	SI-TP-21 (17.5')	SI-TP-22 (18')	SI-TP-23 (5.5')	SI-TP-24 (12')	SI-TP-26 (5.5')	SI-TP-27 (9')	SI-TP-28 (8')	SI-TP-29 (8')	SI-TP-31 (5.5')	SI-TP-33 (1.5')	SI-TP-35 (10')	SI-TP-36 (5')	SI-TP-38E (10')
					Date Sampled:	9/8/08	9/8/08	9/8/08	9/8/08	9/8/08	9/8/08	9/9/08	9/9/08	9/9/08	9/9/08	9/9/08	9/9/08	9/9/08	9/9/08	9/9/08	9/9/08	9/9/08	9/10/08	9/10/08	9/10/08	9/10/08	9/10/08	9/10/08	9/10/08	9/10/08	9/11/08
TAL Metals[1]																															
Aluminum	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	7920	6120	5770	4410	4140	3560	2880	5440	4120	5590	4540	13800	6310	3430	5200	5590	7040	6220	13300	10700	15000	16300	8080	5840	9050	5260
Antimony	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	1.5 N	0.72 BN	ND	1.3 N	1.3 N	13.0 N	0.38 BN	0.65 BN	0.77 BN	7.5 N	2.9 N	ND	4.4 N	0.17 BN	1.7 N	0.78 BN	0.44 BN	0.57 BN	0.27 BN	0.54 BN	0.32 BN	0.16 BN	2.9 N	0.29 BN	0.36 BN	0.39 BN
Arsenic	**13**	**16**	**16**	**16**	**16**	3.4	4.3	5.3	9.6	9.7	28.6	2.2	3.4	14.2	3.9	8.4	6.2	22.0	4.9	4.5	9.9	3.1	10.1	2.6	6.6	3.6	3.4	13.7	4.7	3.2	3.1
Barium	**350**	**350**	**400**	**400**	**10,000**	41.5 E	31.0 E	85.2 E	37.6 E	88.0 E	18.8 E	13.5 E	27.0 E	65.4 E	58.2 E	140 E	79.4 E	56.6 E	33.8	38.4	60.7	35.7	590	85.0	107	108	80.7	104	24.6	43.3	42.4
Beryllium	**7.2**	**14**	**72**	**590**	**2,700**	0.51 E	0.31 E	0.27 E	0.26 BE	0.44 E	0.14 BE	0.11 BE	0.30 E	0.50 E	0.21 BE	0.51 E	1.4 E	0.37 E	0.21 B	0.37	0.41	0.37	0.58 E	0.95 E	0.87 E	1.2 E	1.2 E	0.60 E	0.36 E	0.33 E	0.22 E
Cadmium	**2.5**	**2.5**	**4.3**	**9.3**	**60**	0.54	0.23	0.26	0.27 B	0.29 B	9.1	0.077 B	0.13 B	0.27	0.50	1.4	0.72	0.55	ND	0.23 B	0.38	0.042 B	0.22 BE	0.21 BE	0.48 E	0.26 BE	0.64 E	2.9 E	0.22 BE	1.1 E	0.41 E
Calcium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	17200	25900	33800	16900	127000	15300	12100	120000	31000	43300	34800	7210	14900	1980 *	41600 *	18300 *	4070 *	20800 *	6930 *	17400 *	7750 *	39000 *	10200 *	12100 *	16300 *	9760 *
Chromium	**1**	**36**	**110**	**400**	**6,800**	6.1 E	13.4 E	8.7 E	12.4 E	11.7 E	37.5 E	5.8 E	7.5 E	9.9 E	12.1 E	8.1 E	10.3 E	12.2 E	10.8	9.5	13.2	8.6	29.5	14.7	22.7	18.8	15.0	18.2	10.2	41.8	18.7
Cobalt	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	2.8 B	3.1	1.9 B	6.6	4.2	10.3	1.0 B	2.8	11.9	2.1 B	3.9	4.4	6.5	3.4	3.7	3.8	5.8	6.4 E	7.1 E	5.8 E	8.8 E	5.5 E	7.6 E	3.8 E	3.0 E	2.5 E
Copper	**50**	**270**	**270**	**270**	**10,000**	96.3 *	81.4 *	43.9 *	324 *	82.6 *	6320 *	31.1 *	37.4 *	69.0 *	153 *	98.3 *	8.9 *	190 *	57.8	141	116	57.9	167 N	12.5 N	84.7 N	21.5 N	12.5 N	95.3 N	27.6 N	30.6 N	81.4 N
Iron	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	14400 E	31900 E	22900 E	76600 E	34000 E	364000 E	7730 E	19500 E	44900 E	20600 E	12900 E	22600 E	51300 E	34300	21900	56000	21100	6380 *	23500 *	28100 *	28500 *	23900 *	48700 *	23200 *	14900 *	10100 *
Lead	**63**	**400**	**400**	**1,000**	**3,900**	291 N*E	60.3 N*E	96.5 N*E	99.1 N*E	147 N*E	309 N*E	32.2 N*E	278 N*E	235 N*E	324 N*E	260 N*E	23.5 N*E	231 N*E	36.6 *	93.2 *	110 *	44.9 *	10100 E	11.8 E	175 E	15.1 E	14.8 E	275 E	29.0 E	37.8 E	116 E
Magnesium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	1100 E	2020 E	2030 E	1000 E	5480 E	1290 E	912 E	5030 E	3310 E	2100 E	1950 E	1690 E	2220 E	643	3270	1290	1450	681	3480	3490	5020	3060	939	1500	1740	1130
Manganese	**1600**	**2,000**	**2,000**	**10,000**	**10,000**	164 E	642 E	544 E	846 E	364 E	1710 E	127 E	432 E	269 E	351 E	156 E	615 E	560 E	345	260	662	329	211 E	388 E	447 E	489 E	408 E	348 E	212 E	163 E	1600 E
Mercury	**0.18**	**0.81**	**0.81**	**2.8**	**5.7**	1.6 *	0.18 *	0.12 *	0.047 *	0.17 *	0.17 *	0.032 *	0.095 *	4.5 *	0.32 *	1.0 *	0.075 *	0.097 *	11.4	9.3	10.3	13.4	714 *	0.033 *	3.8 *	0.037 *	0.069 *	5.4 *	0.025 B*	0.31 *	0.029 B*
Nickel	**30**	**140**	**310**	**310**	**10,000**	6.0 E	7.4 E	6.3 E	11.6 E	12.0 E	32.2 E	4.7 E	6.3 E	21.1 E	12.6 E	13.5 E	10.1 E	11.0 E	319	597	671	860	13.0 E	11.9 E	13.5 E	15.8 E	13.2 E	13.5 E	6.7 E	17.9 E	13.0 E
Potassium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	609	765	637	372	671	249	241	593	369	508	503	610	754	ND	ND	ND	0.72 B	577	1360	1550	1980	1310	650	690	890	448
Selenium	**3.9**	**36**	**180**	**1,500**	**6,800**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.5 B	2.1	2.4	2.9	1.3 B	5.7	2.6	2.0	1.6
Silver	**2**	**36**	**180**	**1,500**	**6,800**	ND	ND	ND	ND	ND	0.51 B	ND	ND	ND	ND	ND	ND	ND	61.7	90.7	144	105	0.57 B	ND	ND	ND	ND	0.89 B	ND	ND	ND
Sodium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	95.0	133	232	91.8	96.4	52.5	41.7 B	73.6	101	80.9	106	54.1 B	116	0.83 B	0.59 B	0.52 B	0.73 B	345	161	183	234	110	83.9	119	110	104
Thallium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	0.86 B	0.69 B	ND	0.69 B	ND	ND	0.92	0.86 B	0.42 B	0.61 B	ND	0.95	26.5	14.4	26.2	16.9	ND	ND	ND	ND	ND	0.55 B	ND	ND	ND
Vanadium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	13.1	23.6	15.9	29.5	12.5	77.9	6.4	12.6	18.9	16.8	10.2	19.1	21.9	47.7	113	133	71.2	22.8	25.0	24.2	30.3	24.6	14.4	19.6	12.4	7.4
Zinc	**109**	**2,200**	**10,000**	**10,000**	**10,000**	276 NE	82.8 NE	76.4 NE	167 NE	121 NE	474 NE	31.1 NE	50.2 NE	105 NE	227 NE	578 NE	189 NE	301 NE	ND	0.24	0.043	0.12	172 NE	44.6 NE	112 NE	61.1 NE	137 NE	701 NE	30.1 NE	160 NE	80.7 NE
PCBs - EPA Method 8081[1]																															
Aroclor-1248	**0.1**	**1**	**1**	**1**	**25**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1254	**0.1**	**1**	**1**	**1**	**25**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.180 P	ND	ND	ND
Aroclor-1260	**0.1**	**1**	**1**	**1**	**25**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Detected Parameters	Unrestricted Use[2]	Residential Use[3]	Restricted-Residential Use[3]	Commercial Use[3]	Industrial Use[3]	SI-TP-38E (20')	SI-TP-38W (20')	SI-TP-39 (21')	SI-TP-41 (12')	SI-TP-42 (5')	SI-TP-45 (5')	SI-TP-47 (4')	SI-TP-48 (2')	TP-1 (21')	TP-2 (22')	TP-4 (22')	TP-5 (18')	TP-6 (30')	TP-9 (20.5)	TP-11 (20')	TP-13 (24-25')	TP-14 (25-27')	TP-15 (11')	TP-16 (17')	TP-18 (22')	TP-19 (23')	TP-22 (30')	TP-23 (23')	TP-23 (28.5')	TP-39 (25')
					Date Sampled:	9/11/08	9/11/08	9/12/08	9/12/08	9/12/08	9/12/08	9/12/08	9/12/08	12/17/09	12/17/09	12/17/09	12/17/09	12/18/09	12/21/09	12/21/09	12/22/09	12/22/09	12/22/09	12/23/09	12/23/09	12/28/09	12/29/09	12/30/09	12/30/09	1/21/10
TAL Metals[1]																														
Aluminum	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	7750	6210	7340	1150	830	2770	1970	17700	8030	7500	4790	5120	4650	6420	4730	5680	8740	4130	2820	1740	2760	3580	6490	9360	4880
Antimony	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	0.75 BN	1.0 BN	0.77 BN	0.30 BN	0.20 BN	0.42 BN	0.15 BN	0.29 BN	ND	ND	ND	ND	ND	ND	ND	12.3	ND	ND	ND	ND	ND	ND	135	ND	ND
Arsenic	**13**	**16**	**16**	**16**	**16**	2.9	5.4	3.8	3.6	0.90	2.9	2.6	2.3	8.15	2.71	3.77	4.36	17.3	4.57	2.23	61.9	80.1	3.23	9.69	1.88	2.24	2.48	14.4	1.03	ND
Barium	**350**	**350**	**400**	**400**	**10,000**	45.7	33.5	37.8	7.6 B	10.5	26.2	35.6	50.2	51.9	35.3	48.4	116	145	47.4	33.7	381	311	53.7	182	21.5	65.5	35.6	483	36.5	25.9
Beryllium	**7.2**	**14**	**72**	**590**	**2,700**	0.52 E	0.44 E	0.46 E	0.080 BE	0.044 BE	0.21 BE	0.19 BE	0.78 E	0.675	0.515	ND	ND	ND	ND	ND	0.897	ND	ND	ND	ND	ND	ND	ND	0.728	0.320
Cadmium	**2.5**	**2.5**	**4.3**	**9.3**	**60**	0.37 E	0.74 E	0.44 E	0.11 BE	0.15 BE	0.43 E	0.56 E	0.59 E	ND	ND	ND	ND	ND	ND	0.616	2.99	ND	ND	ND	ND	ND	ND	2.73	ND	0.674
Calcium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	19000 *	4780 *	11100 *	1260 *	1270 *	20900 *	5160 *	5890 *	4050	2080	4800	22800	21700	8440	33100	60400	90800	1550	15000	821	6170	3100	33,100	2,710	3190
Chromium	**1**	**36**	**110**	**400**	**6,800**	21.8	65.5	10.8	9.7	4.2	25.7	16.9	8.7	19.7	9.25	12.4	10.4	12.2	17	10.3	82	267	20.3	8.46	6.05	5.37	10.7	29.6	10.8	15
Cobalt	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	2.3 E	4.3 E	3.3 E	0.72 BE	0.45 BE	3.3 E	2.7 E	3.1 E	5.49	5.48	3.06	4.18	4.95	4.05	3.81	8.24	10.3	4.13	3.65	3.74	3.65	5.25	5.59	6.29	3.26
Copper	**50**	**270**	**270**	**270**	**10,000**	616 N	389 N	150 N	16.4 N	14.5 N	54.7 N	45.7 N	8.1 N	107	10.3	83.2	149	889	229	2550	1790	757	40.9	172	53.2	156	70.5	2,550	19.7	291
Iron	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	18200 *	39000 *	22400 *	7290 *	5130 *	23900 *	12400 *	20800 *	47600	13300	12900	14000	15600	17900	10600	31200	63900	13400	16200	2260	4570	3860	37,500	17,700	15700
Lead	**63**	**400**	**400**	**1,000**	**3,900**	103 E	212 E	58.7 E	6.2 E	11.6 E	99.7 E	35.6 E	21.0 E	54.3	7.62	188	237	131	104	266	2630	2030	130	206	6.82	58.8	109	5,040	21.3	70.5
Magnesium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	1600	917	2000	113	115	590	521	1200	901	1850	654	1870	1150	1090	1770	3070	2670	938	1040	61.8	405	112	2,390	2,460	888
Manganese	**1600**	**2,000**	**2,000**	**10,000**	**10,000**	766 E	700 E	507 E	236 E	68.1 E	1120 E	150 E	123 E	558	111	264	135	299	570	318	71.9	454	266	529	8.58	51.4	23.6	503	160	485
Mercury	**0.18**	**0.81**	**0.81**	**2.8**	**5.7**	0.026 B*	0.091 *	0.47 *	0.0074 B*	0.022 B*	0.059 *	0.16 *	0.074 *	0.107	0.075	0.0988	0.206	0.368	0.0206	0.661	7.17	2.46	0.254	0.132	0.0169	0.0544	2.72	9.79	0.0172	0.0186
Nickel	**30**	**140**	**310**	**310**	**10,000**	14.9 E	15.3 E	17.4 E	7.2 E	4.6 E	30.9 E	20.8 E	8.0 E	11.5	6.98	32	9.26	13.4	44.8	10.8	112	40.2	22.4	8.86	8.99	9.64	11	27.3	10.0	9.89
Potassium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	694	643	854	106	92.4	304	273	315	741	772	481	699	577	660	589	911	2560	326	396	259	232	91.2	849	1120	690
Selenium	**3.9**	**36**	**180**	**1,500**	**6,800**	2.0	4.4	2.6	1.3 B	0.98 B	2.7	2.0	2.3	ND	ND	ND	ND	2.06	ND	ND	37	16.9	ND	1.72	ND	ND	ND	ND	3.25	0.938
Silver	**2**	**36**	**180**	**1,500**	**6,800**	0.12 B	ND	ND	ND	1.5	0.21 B	3.7	ND	ND	ND	ND	ND	ND	ND	ND	25.4	24.3	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	187	118	132	181	35.5 B	123	85.8	48.4 B	144	ND	411	114	127	120	145	176	532	ND	ND	ND	ND	ND	ND	ND	122
Thallium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	14.4	27.4	16.1	4.0	2.3	10.4	5.3	18.4	30.5	16.2	10.5	15.8	17.7	25.5	11.6	16.2	21.4	6.9	8.21	8.42	7.87	11	17.9	19.0	16.5
Zinc	**109**	**2,200**	**10,000**	**10,000**	**10,000**	174 NE	204 NE	167 NE	21.5 NE	19.0 NE	81.7 NE	44.1 NE	174 NE	61.8	55.7	71.5	154	131	92.8	2240	1730	742	93.6	184	10.2	33.7	52.6	976	76.0	74.7
PCBs - EPA Method 8081[1]																														
Aroclor-1248	**0.1**	**1**	**1**	**1**	**25**	ND	ND	ND	ND	ND	ND	0.100 P	ND								ND	ND								
Aroclor-1254	**0.1**	**1**	**1**	**1**	**25**	ND	ND	ND	ND	ND	ND	ND	ND								ND	ND								
Aroclor-1260	**0.1**	**1**	**1**	**1**	**25**	ND	ND	ND	ND	ND	0.036	ND	ND								ND	ND								

1 - results presented in milligrams per kilogram (mg/Kg).

2 - 6 NYCRR Part 375-6. -Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives

3 - 6 NYCRR Part 375-6.8-Table 375-6.8(b): Restricted Use Soil Cleanup Objectives

ND- not detected above reporting limit

J- value is estimated

Value Exceeds Unrestricted SCOs

Value Exceeds Residential Use SCOs

Value Exceeds Restricted-Residential SCOs

Value Exceeds Commercial Use SCOs

Value Exceeds Industrial Use SCOs

Table 3-3 Sub-Surface Soil Results - Soil Borings VOCs & SVOCs

Detected Parameters	Unrestricted Use[2]	Residential Use[3]	Restricted-Residential Use[3]	Commercial Use[3]	Industrial Use[3]	SI-SB-01 (0-6')	SI-SB-02 (6-9')	SI-SB-03 (2-5')	SI-SB-04 (0-5')	SI-SB-05 (0-7')	SI-SB-06 (0-5')	SI-SB-08 (0.5-1')	SI-SB-09 (4-9')	SI-SB-10 (1-5')	SI-SB-11 (26-32')	SI-SB-12 (16-20')	SI-SB-13 (17-19')	SI-SB-14 (24-25')	SI-SB-16 (0-4')	SI-SB-17 (8-11.5')	SI-SB-18 (22.5-24.3')	SI-SB-19 (0-4')
					Date Sampled:	9/2/08	9/2/08	9/2/08	9/2/08	9/3/08	9/3/08	9/3/08	9/3/08	9/3/08	9/4/08	9/4/08	9/4/08	9/5/08	9/5/08	9/5/08	9/5/08	9/8/08
Volatile Organics - EPA Method 8260[1]																						
1,1-Dichloroethane	**270**	**19,000**	**26,000**	**240,000**	**480,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.9	ND	ND	ND	ND
1,2,4-Trimethylbenzene	**3,600**	**47,000**	**52,000**	**190,000**	**380,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	**8,400**	**47,000**	**52,000**	**190,000**	**380,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.7 J	ND	ND	ND	ND	ND
4-Isopropyltoluene	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	**50**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	15	ND	ND	ND	ND	ND	11	34	20	ND	30	29	ND	32	ND	ND
Carbon disulfide	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.3 J	ND	ND	ND	ND	10	ND	ND
m,p-Xylene	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	**50**	**51,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5 J	ND	ND	3.2 J	ND	ND	2.4 J
n-Butylbenzene	**12,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.2 J	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	**3,900**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	**12,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	2.2 J	ND	ND	ND	ND	ND	ND	ND	ND	3.2 J	ND	ND	ND	ND	ND	ND	ND
o-Xylene	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	**11,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	**5,900**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	**700**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	**470**	**10,000**	**21,000**	**200,000**	**400,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (Total)	**260**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organics - EPA Method 8270[1]																						
2-Methylnaphthalene	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	ND	160 J	ND	ND	ND	ND	ND	ND	ND	150 J	ND	200 J	73 J	ND	130 J
Acenaphthene	**20,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	120 J	710	100 J	200 J	ND	ND	ND	830	ND	330 J	ND	190 J	ND	ND	ND
Acenaphthylene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	130 J	100 J	170 J	130 J	98 J	ND	ND	ND	ND	330 J	ND	ND	ND	430 J	ND	ND	120 J
Anthracene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	270 J	260 J	550	1400	400	500	ND	ND	ND	150 J	390 J	550	ND	1100	160 J	ND	120 J
Benzo(a)anthracene	**1,000**	**1,000**	**1,000**	**5,600**	**11,000**	850	940	1800	2500	930	1200	ND	140 J	ND	ND	6100	720	230 J	6100	510	ND	570
Benzo(a)pyrene	**1,000**	**1,000**	**1,000**	**1,000**	**1,100**	790	830	1500	2100	820	1100	ND	140 J	ND	ND	7400	640	260 J	5300	500	110 J	590
Benzo(b)fluoranthene	**1,000**	**1,000**	**1,000**	**1,000**	**11,000**	1000	1200	1900	2600	1100	1400	ND	210 J	ND	ND	12000	810	380 J	6300	740	150 J	910
Benzo(g,h,i)perylene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	530	570	980	1300	570	750	ND	110 J	ND	ND	7100	390	270 J	3500	370	100 J	460
Benzo(k)fluoranthene	**800**	**1,000**	**3,900**	**56,000**	**110,000**	430	500	1000	1400	500	740	ND	ND	ND	ND	3800	320 J	140 J	2700	240 J	ND	290 J
Bis(2-ethylhexyl)phthalate	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	220 J	330 J	ND	140 J	270 J	150 J	ND	620	ND	ND	ND	340 J	ND	ND	ND	ND	ND
Carbazole	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	170 J	230 J	830	250 J	360 J	ND	ND	ND	ND	360 J	230 J	ND	280 J	110 J	ND	ND
Chrysene	**1,000**	**1,000**	**3,900**	**56,000**	**110,000**	790	920	1800	2300	930	1200	ND	170 J	ND	ND	7400	710	260 J	7100	560	ND	660
Dibenzo(a,h)anthracene	**330**	**330**	**330**	**560**	**1,100**	130 J	150 J	260 J	380 J	160 J	200 J	ND	ND	ND	ND	2800	120 J	ND	1300	110 J	ND	130 J
Dibenzofuran	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	ND	460	100 J	120 J	ND	ND	ND	180 J	ND	240 J	ND	190 J	ND	ND	ND
Fluoranthene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	1600	1900	3700	5100	2200	2700	120 J	300 J	ND	190 J	6500	1700	410 J	9600	1100	ND	1200
Fluorene	**30,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	140 J	810	150 J	210 J	ND	ND	ND	740	ND	350 J	ND	330 J	ND	ND	ND
Indeno(1,2,3-cd)pyrene	**500**	**500**	**500**	**5,600**	**11,000**	460	500	860	1200	510	660	ND	ND	ND	ND	6100	340 J	220 J	2600	320 J	ND	410
Naphthalene	**12,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	300 J	ND	77 J	ND	ND	ND	250 J	ND	490	ND	ND	81 J	ND	ND
Phenanthrene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	800	1200	2100	5000	1800	2100	ND	160 J	ND	2000	2200	2100	310 J	4800	850	ND	640
Pyrene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	1500	1500	3100	4100	1700	2200	110 J	260 J	ND	190 J	5500	1500	350 J	7600	870	ND	950

1 - results presented in micrograms per kilogram (ug/Kg).

2 - 6 NYCRR Part 375-6.8 - Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives

3 - 6 NYCRR Part 375-6.8 - Table 375-6.8(b): Restricted Use Soil Cleanup Objectives

ND- not detected above reporting limit

J- value is estimated

Value Exceeds Unrestricted SCOs

Value Exceeds Residential Use SCOs

Value Exceeds Restricted-Residential SCOs

Value Exceeds Commercial Use SCOs

Value Exceeds Industrial Use SCOs

Table 3-3 Sub-Surface Soil Results - Soil Borings VOCs & SVOCs

Detected Parameters	Unrestricted Use[2]	Residential Use[3]	Restricted-Residential Use[3]	Commercial Use[3]	Industrial Use[3]	SI-SB-19 (10-15')	SI-SB-20 (15-16.7')	SI-SB-25 (4-7.2')	SI-SB-26 (10-14')	SI-SB-29 (12-14.5')	SI-SB-30 (12-14')	SI-SB-31 (12-15.4')	SI-SB-32 (11-13.9')	SI-SB-33 (10-12.3')	SI-SB-34 (16-22')	SI-SB-35 (18-20')	SI-SB-36 (18-20.9')	SI-SB-37 (14-15.5')	SI-WB-1 (6-8.5')	SI-WB-03 (17-18')
					Date Sampled:	9/8/08	9/8/08	9/8/08	9/9/08	9/9/08	9/9/08	9/10/08	9/10/08	9/10/08	9/10/08	9/11/08	9/11/08	9/11/08	9/12/08	9/17/08
Volatile Organics - EPA Method 8260[1]																				
1,1-Dichloroethane	**270**	**19,000**	**26,000**	**240,000**	**480,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	**3,600**	**47,000**	**52,000**	**190,000**	**380,000**	1200	670	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	**8,400**	**47,000**	**52,000**	**190,000**	**380,000**	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	76	ND	ND	ND	ND	ND	47	ND	ND	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	94	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	**50**	**100,000**	**100,000**	**500,000**	**1,000,000**	350	69	ND	ND	4.4 J	9.4	240	15 J	3.6 J	11	ND	ND	ND	ND	ND
Carbon disulfide	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	12 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	94	430	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m,p-Xylene	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	36	16 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	**50**	**51,000**	**100,000**	**500,000**	**1,000,000**	17 J	17 J	4.6 J	17	4.3 J	12	43	20 J	25	36	ND	ND	2.9 J	ND	4.8 J
n-Butylbenzene	**12,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	190	770	ND	ND	ND	ND	ND	100	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	**3,900**	**100,000**	**100,000**	**500,000**	**1,000,000**	120	800	ND	ND	ND	ND	ND	9.0 J	ND	ND	ND	ND	ND	ND	ND
Naphthalene	**12,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	460	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	11 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	**11,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	170	650	ND	ND	ND	ND	ND	39	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	**5,900**	**100,000**	**100,000**	**500,000**	**1,000,000**	12 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	**700**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	ND	ND	ND	2.4 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	**470**	**10,000**	**21,000**	**200,000**	**400,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12	ND	ND	5.7 J	2.4 J
Xylene (Total)	**260**	**100,000**	**100,000**	**500,000**	**1,000,000**	36	26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organics - EPA Method 8270[1]																				
2-Methylnaphthalene	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	17,000	44,000	ND	ND	ND	74 J	ND	140 J	ND	ND	ND	ND	ND	ND	130 J
Acenaphthene	**20,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	1600 J	3300 J	ND	ND	ND	ND	ND	1200	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	89 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	730 J	ND	120 J	ND	ND	ND	ND	1300	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	**1,000**	**1,000**	**1,000**	**5,600**	**11,000**	480 J	ND	410	ND	ND	100 J	310 J	ND	110 J	130 J	ND	ND	ND	ND	460
Benzo(a)pyrene	**1,000**	**1,000**	**1,000**	**1,000**	**1,100**	ND	ND	400	ND	ND	ND	280 J	ND	130 J	150 J	ND	ND	ND	ND	690
Benzo(b)fluoranthene	**1,000**	**1,000**	**1,000**	**1,000**	**11,000**	670 J	ND	480	ND	ND	140 J	400 J	ND	200 J	220 J	ND	ND	ND	ND	1000
Benzo(g,h,i)perylene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	260 J	ND	ND	ND	240 J	ND	130 J	140 J	ND	ND	ND	ND	780
Benzo(k)fluoranthene	**800**	**1,000**	**3,900**	**56,000**	**110,000**	ND	ND	220 J	ND	ND	ND	190 J	ND	ND	ND	ND	ND	ND	ND	400
Bis(2-ethylhexyl)phthalate	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	1200 J	990	350 J	140 J	180 J	ND	ND	400	ND	ND	ND	ND	ND	ND
Carbazole	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	**1,000**	**1,000**	**3,900**	**56,000**	**110,000**	580 J	ND	410	ND	ND	130 J	410 J	100 J	160 J	220 J	ND	ND	ND	ND	570
Dibenzo(a,h)anthracene	**330**	**330**	**330**	**560**	**1,100**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	230 J
Dibenzofuran	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	880 J	2000 J	ND	ND	ND	ND	ND	1100	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	1300 J	ND	980	ND	150 J	230 J	700	300 J	290 J	200 J	ND	ND	ND	ND	660
Fluorene	**30,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	2900	5600	ND	ND	ND	ND	ND	2700	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	**500**	**500**	**500**	**5,600**	**11,000**	ND	ND	230 J	ND	ND	ND	200 J	ND	110 J	120 J	ND	ND	ND	ND	650
Naphthalene	**12,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	2200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	95 J
Phenanthrene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	5600	10000	660	ND	ND	230 J	330 J	860	210 J	ND	ND	ND	ND	ND	410
Pyrene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	1400 J	ND	820	ND	130 J	180 J	530	1200	220 J	170 J	ND	ND	ND	ND	560

1 - results presented in micrograms per kilogram (ug/Kg).

2 - 6 NYCRR Part 375-6.8 - Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives

3 - 6 NYCRR Part 375-6.8 - Table 375-6.8(b): Restricted Use Soil Cleanup Objectives

ND- not detected above reporting limit

J- value is estimated

Value Exceeds Unrestricted SCOs

Value Exceeds Residential Use SCOs

Value Exceeds Restricted-Residential SCOs

Value Exceeds Commercial Use SCOs

Value Exceeds Industrial Use SCOs

Table 3-4 Sub-Surface Soil Results - Soil Borings - Metals & PCBs

Detected Parameters	Unrestricted Use[2]	Residential Use[3]	Restricted-Residential Use[3]	Commercial Use[3]	Industrial Use[3]	SI-SB-01 (06)	SI-SB-02 (6-9)	SI-SB-03 (2-5)	SI-SB-04 (0-5)	SI-SB-05 (0-7)	SI-SB-06 (0-5)	SI-SB-08 (0.5-1)	SI-SB-09 (4-9)	SI-SB-10 (1-5)	SI-SB-11 (26-32)	SI-SB-12 (16-20)	SI-SB-13 (17-19)	SI-SB-14 (24-25)	SI-SB-16 (0-4)	SI-SB-17 (8-11.5)	SI-SB-18 (22.5-24.3)	SI-SB-19 (0-4)	SI-SB-19 (10-15)
					Date Sampled:	9/2/08	9/2/08	9/2/08	9/2/08	9/3/08	9/3/08	9/3/08	9/3/08	9/3/08	9/4/08	9/4/08	9/4/08	9/5/08	9/5/08	9/5/08	9/5/08	9/8/08	9/8/08
TAL Metals[1]																							
Aluminum	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	4340 E	5830 E	7010 E	10900 E	9750 E	8150 E	2510 E	3870 E	1350 E	7010 E	4290 E	1590 E	5640 E	2540 E	4680 E	7560 E	7290	7600
Antimony	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	1.4 N	ND	0.58 BN	ND	0.29 BN	0.28 BN	0.68 BN	1.5 N	1.8 N	0.57 BN	0.52 BN	0.66 BN	0.39 BN	0.93 BN	ND	1.6 N	0.58 BN
Arsenic	**13**	**16**	**16**	**16**	**16**	2.2	12.1	3.4	3.2	4.0	3.9	3.7	3.2	15.6	30.5	5.6	2.6	4.5	4.1	7.7	2.2	9.4	3.3
Barium	**350**	**350**	**400**	**400**	**10,000**	37.7 E	67.3 E	72.8 E	112 E	100 E	177 E	24.0 E	26.4 E	21.4 E	53.0 E	54.4 E	32.7 E	96.1 E	26.1 E	48.7 E	61.4 E	87.4 E	45.5 E
Beryllium	**7.2**	**14**	**72**	**590**	**2,700**	0.31 E	0.54 E	0.52 E	0.87 E	0.73 E	0.62 E	0.22 E	0.29 E	0.16 BE	1.4 E	0.30 E	0.16 BE	0.58 E	0.19 BE	0.40 E	0.62 E	0.44 E	0.46 E
Cadmium	**2.5**	**2.5**	**4.3**	**9.3**	**60**	0.11 B	2.0	0.20 B	0.25 B	0.23	0.35	0.19 B	0.20 B	3.7	1.3	0.76	0.086 B	0.70	0.33	0.67	0.19 B	0.50	0.15 B
Calcium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	158000	24000	103000	112000	47100	89700	105000	101000	60400	31500	22700	241000	9240	97300	117000	50900	22600	28500
Chromium	**1**	**36**	**110**	**400**	**6,800**	6.5 E	32.2 E	10.3 E	14.1 E	13.8 E	15.9 E	7.2 E	6.3 E	31.0 E	25.9 E	18.2 E	4.0 E	16.6 E	14.1 E	10.6 E	8.7 E	19.4 E	9.5 E
Cobalt	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	2.0 BN	6.7 N	4.2 N	6.5 N	5.8 N	4.7 N	1.9 BN	2.3 N	9.3 N	18.3 N	3.9 N	0.87 BN	7.0 N	3.7 N	3.5 N	6.5 N	4.0	4.2
Copper	**50**	**270**	**270**	**270**	**10,000**	17.8 E	180 E	15.7 E	36.1 E	21.1 E	33.2 E	52.9 E	36.1 E	56.8 E	1890 E	215 E	82.2 E	390 E	35.5 E	655 E	19.1 E	186 *	36.0 *
Iron	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	8140 E	131000 E	12600 E	25800 E	21700 E	15500 E	21100 E	21400 E	224000 E	39000 E	45100 E	5190 E	17400 E	15400 E	39300 E	17300 E	34800 E	13500 E
Lead	**63**	**400**	**400**	**1,000**	**3,900**	32.5 E	167 E	220 E	60.9 E	483 E	140 E	13.1 E	129 E	39.7 E	216 E	97.8 E	148 E	231 E	39.9 E	144 E	7.8 E	250 N*E	60.4 N*E
Magnesium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	5400 E	3370 E	6250 E	6300 E	5600 E	7340 E	3700 E	2280 E	820 E	1960 E	1150 E	2110 E	1920 E	1370 E	3210 E	4250 E	1390 E	2760 E
Manganese	**1600**	**2,000**	**2,000**	**10,000**	**10,000**	242 E	734 E	353 E	648 E	410 E	408 E	304 E	228 E	923 E	146 E	649 E	114 E	252 E	219 E	453 E	407 E	982 E	208 E
Mercury	**0.18**	**0.81**	**0.81**	**2.8**	**5.7**	0.11	0.79	0.070	0.12	0.047	0.11	0.11	0.066	ND	0.70	0.072	0.22	3.6	0.10	0.064	ND	0.20 *	0.29 *
Nickel	**30**	**140**	**310**	**310**	**10,000**	5.4 NE	20.2 NE	10.1 NE	13.8 NE	12.2 NE	12.4 NE	5.3 NE	6.3 NE	20.8 NE	42.2 NE	21.5 NE	4.5 NE	17.9 NE	13.5 NE	9.7 NE	9.7 NE	12.7 E	8.6 E
Potassium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	639	731	1570	1860	1840	1430	389	511	148	508	401	199	606	204	736	789	696	872
Selenium	**3.9**	**36**	**180**	**1,500**	**6,800**	1.4	ND	1.0 B	1.2 B	ND	1.4 B	0.71 B	0.84 B	ND	8.3	ND	2.9	ND	0.87 B	ND	0.75 B	ND	ND
Silver	**2**	**36**	**180**	**1,500**	**6,800**	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.57 B	ND	ND	0.34 B	ND	ND	ND	ND	ND
Sodium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	192	189	182	271	280	212	77.2	105	39.1 B	103	97.0	70.4	54.3 B	71.4	171	98.5	145	84.2
Thallium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	0.77 BN	ND	0.43 BN	0.42 BN	ND	0.51 BN	0.31 BN	0.47 BN	ND	0.50 BN	ND	1.0 BN	ND	0.42 BN	ND	ND	0.87 B	ND
Vanadium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	10.1 E	52.2 E	14.6 E	21.8 E	21.7 E	17.2 E	11.7 E	9.9 E	60.7 E	19.5 E	10.2 E	3.4 E	10.7 E	5.0 E	17.3 E	12.9 E	26.7	15.0
Zinc	**109**	**2,200**	**10,000**	**10,000**	**10,000**	27.8 N*E	141 N*E	58.5 N*E	67.0 N*E	75.8 N*E	153 N*E	42.1 N*E	33.2 N*E	19.8 N*E	1460 N*E	237 N*E	41.2 N*E	651 N*E	61.3 N*E	129 N*E	81.0 N*E	198 NE	78.1 NE
PCBs - EPA Method 8081[1]																							
Aroclor-1254	**0.1**	**1**	**1**	**1**	**25**	ND	0.047	ND	ND	0.088	0.083	ND	ND	ND	ND	ND	ND	0.064	ND	ND	ND	ND	ND

Detected Parameters	Unrestricted Use[2]	Residential Use[3]	Restricted-Residential Use[3]	Commercial Use[3]	Industrial Use[3]	SI-SB-20 (15-16.7)	SI-SB-25 (4-7.2)	SI-SB-26 (10-14)	SI-SB-29 (12-14.5)	SI-SB-30 (12-14)	SI-SB-31 (12-15.4)	SI-SB-32 (11-13.9)	SI-SB-33 (10-12.3)	SI-SB-34 (16-22)	SI-SB-35 (18-20)	SI-SB-36 (18-20.9)	SI-SB-37 (14-15.5)	SI-WB-1 (6-8.5)	SI-WB-03 (17-18)
					Date Sampled:	9/8/08	9/8/08	9/9/08	9/9/08	9/9/08	9/10/08	9/10/08	9/10/08	9/10/08	9/11/08	9/11/08	9/11/08	9/12/08	9/17/08
TAL Metals[1]																			
Aluminum	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	3560	2600	15100	14800	6110	6740	3430	5220	4550	12700	12300	2540	17800	6500
Antimony	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	4.6 N	ND	ND	ND	0.41 BN	0.62 BN	ND	34.3 N	0.53 BN	0.34 BN	0.13 BN	0.16 BN	0.36 BN	0.97
Arsenic	**13**	**16**	**16**	**16**	**16**	13.2	1.4	4.3	3.3	3.5	5.7	2.0	6.9	5.8	2.9	2.6	1.4	4.0	6.9
Barium	**350**	**350**	**400**	**400**	**10,000**	25.0 E	15.3 E	74.4 E	105 E	23.8 E	62.6	16.7	37.6	73.0	102 E	91.4	19.3	137 E	42.3
Beryllium	**7.2**	**14**	**72**	**590**	**2,700**	0.24 BE	0.16 BE	1.4 E	0.82 E	0.30 E	0.61	0.26 B	0.37	0.37	1.1 E	0.91 E	0.21 BE	1.6 E	0.55
Cadmium	**2.5**	**2.5**	**4.3**	**9.3**	**60**	1.0	0.033 B	0.41	0.11 B	0.23	0.20 B	0.048 B	0.23	0.22 B	0.22 B	0.18 BE	0.059 BE	0.38	0.74
Calcium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	9040	137000	16000	26300	2490	4470 *	169000 *	112000 *	60400 *	26800 *	40200 *	121000 *	4850 *	4680
Chromium	**1**	**36**	**110**	**400**	**6,800**	13.2 E	4.6 E	11.9 E	17.8 E	11.5 E	8.8	3.9	6.7	10	16.6 E	16.0	2.7	21.6 E	14.2
Cobalt	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	6.7	1.6 B	5.4	7.5	2.8	4.1	1.1 B	2.8	4.0	7.1 E	6.1 E	1.5 BE	9.2 E	3.5
Copper	**50**	**270**	**270**	**270**	**10,000**	836 *	25.9 *	8.8 *	21.0 *	97.8 *	841	40.4	219	674	17.8	16.1 N	34.6 N	23.4	156
Iron	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	115000 E	8210 E	24000 E	27000 E	53000 E	19000	6820	21100	13000	26700	24000 *	6230 *	36300	55500
Lead	**63**	**400**	**400**	**1,000**	**3,900**	144 N*E	12.2 N*E	20.1 N*E	15.3 N*E	54.8 N*E	91.3 *	13.6 *	313 *	130 *	6.2 E	5.8 E	25.6 E	8.5 E	124
Magnesium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	983 E	7510 E	2640 E	4810 E	1270 E	1640	2370	2730	4050	7650 E	7790	1240	5990 E	991
Manganese	**1600**	**2,000**	**2,000**	**10,000**	**10,000**	400 E	282 E	400 E	411 E	488 E	126	72.5	220	233	463 E	380 E	106 E	565 E	984
Mercury	**0.18**	**0.81**	**0.81**	**2.8**	**5.7**	0.094 *	0.013 B*	0.13 *	0.018 B*	2.9 *	10.1	3.7	8.6	9.8	0.012 B	0.015 B*	0.17 *	0.034 B	19.2
Nickel	**30**	**140**	**310**	**310**	**10,000**	17.0 E	4.3 E	10.4 E	15.2 E	9.2 E	578	369	458	806	15.0 E	13.1 E	3.5 E	19.4 E	679
Potassium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	376	516	689	1690	685	ND	ND	ND	ND	2530	1900	305	2420	2.8
Selenium	**3.9**	**36**	**180**	**1,500**	**6,800**	ND	ND	ND	ND	ND	0.13 B	ND	ND	ND	3.0	2.2	ND	4.1	ND
Silver	**2**	**36**	**180**	**1,500**	**6,800**	ND	ND	ND	ND	ND	99.2	69.3	113	102	ND	ND	ND	ND	128
Sodium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	69.1	99.6	173	195	109	0.74 B	1.3	0.81	ND	380	952	65.4	267	ND
Thallium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	0.73 B	ND	0.72 B	ND	15.4	6.0	10.3	11.4	0.51 B	ND	ND	0.57 B	26.3
Vanadium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	25.9	6.2	16.7	28.3	18.3	114	43.5	158	110	26.4 E	23.9	5.0	36.4 E	104
Zinc	**109**	**2,200**	**10,000**	**10,000**	**10,000**	363 NE	24.4 NE	92.5 NE	69.1 NE	84.7 NE	0.34	0.26	ND	0.35	44.6 E	39.6 NE	24.4 NE	68.4 E	0.36
PCBs - EPA Method 8081[1]																			
Aroclor-1254	**0.1**	**1**	**1**	**1**	**25**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

1 - results presented in milligrams per kilogram (mg/Kg).

2 - 6 NYCRR Part 375-6. -Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives

3 - 6 NYCRR Part 375-6.8-Table 375-6.8(b): Restricted Use Soil Cleanup Objectives

ND- not detected above reporting limit

J- value is estimated

Value Exceeds Unrestricted SCOs

Value Exceeds Residential Use SCOs

Value Exceeds Restricted-Residential SCOs

Value Exceeds Commercial Use SCOs

Value Exceeds Industrial Use SCOs

Sewalls Island Site #E623021
City of Watertown
Summary of Validated Analytical Results

Table 4 - Groundwater Results

Detected Parameters[1]	NYS Water Quality Standards	SI-MW1-01 12/2/08	SI-MW2S-01 12/3/08	SI-MW2D-01 12/3/08	SI-MW3-01 12/3/08	SI-MW4-01 12/3/08	SI-MW5-01 12/3/08	SI-MW6-01 12/3/08	SI-MW7-01 12/3/08	SI-MW8-01 12/2/08
Volatile Organics - EPA 8260										
1,1,1-Trichloroethane	**5**	ND	ND	ND	2.7 J	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	**5**	ND	21	ND	ND	ND	ND	ND	ND	ND
2-Butanone	**50***	ND	ND	ND	ND	ND	ND	ND	6.7	ND
Acetone	**50***	ND	ND	ND	ND	ND	ND	ND	78	ND
Chloroform	**7**	1.6 J	ND	ND	6.3	ND	ND	ND	8.3	2.6 J
Isopropylbenzene	**5**	ND	11	ND	ND	ND	ND	ND	ND	ND
Napthalene	**10***	ND	22	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	**5**	ND	5.1	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	**5**	ND	13	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	**5**	ND	5.2	ND	ND	ND	ND	ND	ND	ND
Toluene	**5**	ND	ND	ND	ND	2.9 J	ND	ND	190	ND
Xylene (Total)	**5**	ND	ND	ND	ND	1.9 J	ND	ND	1.6 J	ND
Semi-Volatile Organics - EPA 8270										
2-Methylnaphthalene	**N/A**	ND	87	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	**1***	ND	ND	ND	ND	ND	ND	ND	51	ND
Acenaphthene	**20***	ND	7.4 J	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	**5**	ND	ND	4.1 J	ND	ND	ND	ND	2.7 J	ND
Carbazole	**N/A**	ND	1.4 J	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	**N/A**	ND	5.5 J	ND	ND	ND	ND	ND	ND	ND
Fluorene	**50***	ND	10	ND	ND	ND	ND	ND	ND	ND
Napthalene	**10***	ND	16	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	**50***	ND	5.7 J	ND	ND	ND	ND	ND	ND	ND
Phenol	**1***	ND	ND	ND	ND	ND	ND	ND	4.8 J	ND
TAL Metals										
Aluminum	**N/A**	ND	5,260	ND	ND	613	124 B	ND	4,060	262
Antimony	**3**	ND	ND	ND	ND	ND	ND	ND	4.7 B	ND
Arsenic	**25**	ND	ND	ND	ND	ND	ND	ND	6.5 B	ND
Barium	**1,000**	68 B	143 B	202	67.7 B	95.9 B	36.2 B	156 B	29.8 B	115 B
Beryllium	**3***	ND	0.39 B	ND	ND	ND	ND	ND	ND	ND
Calcium	**N/A**	184,000	229,000	104,000	134,000	146,000	152,000	86,400	32,300	399,000
Chromium	**50**	ND	7.3 B	ND	ND	1.6 B	1.7 B	ND	13.3 B	4.9 B
Cobalt	**N/A**	1.5 B	4.5 B	ND	ND	3.4 B	1.3 B	ND	2.6 B	2.9 B
Copper	**200**	12.5 B	36.0	ND	137	18.1 B	5.8 B	ND	48.0	14.9 B
Iron	**300**	ND	14,300	6,800	198 B	5,300	948	119 B	685	733
Lead	**25**	ND	22.3	ND	ND	9.7 B	ND	ND	2.3 B	ND
Magnesium	**35,000***	14,500	17,900	17,400	11,800	18,000	7,220	8,430	406 B	34,400
Manganese	**300**	7.6 B	347	174	37.8 B	277	76.3	9.6 B	8.2 B	68.1
Mercury	**0.70**	ND	0.12 B	ND	ND	ND	ND	ND	0.086 B	ND
Nickel	**100**	2.6 B	6.2 B	ND	2.9 B	2.7 B	ND	1.6 B	19.3 B	2.4 B
Potassium	**N/A**	1,200	16,500	6,420	4,950	6,900	5,580	3,800	24,400	18,000
Selenium	**10**	ND	ND	ND	ND	ND	ND	ND	6.8 B	ND
Sodium	**20,000**	12,500	17,300	33,500	16,700	58,100	35,700	5,490	322,000	202,000
Vanadium	**N/A**	ND	8.2 B	1.1 B	ND	1.8 B	ND	ND	43.2 B	1.7 B
Zinc	**2,000***	13.7 B	57.4	12.8 B	196	25.9 B	22.2 B	26.0 B	23.6 B	26 B
PCBs - EPA 8082 (none detected above laboratory detection limit)										

1- results shown in micrograms per liter (*u* g/L)
* NYSDEC Guidance Value (TOGS 1.1.1)
J- value is estimated
B- compound detected below reporting limit

ND- not detected above method detection limit

~ value detected above NYS Groundwater Quality Standard [6 NYCRR Part 703.5] or NYSDEC Guidance Value [TOGS 1.1.1]

Table 5 IRM Closure Sample Results

Detected Parameters	Unrestricted Use[2]	Residential Use[3]	Restricted-Residential Use[3]	Commercial Use[3]	Industrial Use[3]	SI-PAOC1-TP38-NW	SI-PAOC1-TP38-EW	SI-PAOC1-TP38-SW	SI-PAOC1-TP38-WW	SI-PAOC1-TP38-Floor	SI-PAOC1-TP-39-Drum Floor	SI-PAOC3-WW-ASH	SI-PAOC3-NW1-A	SI-PAOC3-NW2-A	SI-PAOC3-EW-A	SI-PAOC3-EW-B	SI-PAOC3-SW1-A	SI-PAOC3-SW2-A	SI-PAOC3-WW-A
					Date Sampled:	1/7/10	1/7/10	1/7/10	1/7/10	1/7/10	1/7/10	12/15/09	12/15/09	12/15/09	12/15/09	1/19/10	12/15/09	12/15/09	12/15/09
Volatile Organics - EPA Method 8260[1]																			
1,1-Dichloroethane	**270**	**19,000**	**26,000**	**240,000**	**480,000**	3.71 J	26.8 J	ND	ND	8.22	ND								
1,1,1-Trichloroethane	**680**	**100,000**	**100,000**	**500,000**	**1,000,000**	51.8	1,500	413	245	374	196								
Ethylbenzene	**1,000**	**30,000**	**41,000**	**390,000**	**780,000**	7.14	40.6	ND	ND	4.34	ND								
Freon 113	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	19.2 J	16.2	10.9	2.29 J	18								
m,p-Xylene	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	15.9	99.4	7.65 J	ND	8.68	ND								
Methylcyclohexane	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	ND	ND	4.68	ND								
o-Xylene	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	7.25	46.8	ND	ND	3.84 J	ND								
Toluene	**700**	**100,000**	**100,000**	**500,000**	**1,000,000**	7.31	45.8 M	ND	ND	6.07	ND								
Xylene (Total)	**260**	**100,000**	**100,000**	**500,000**	**1,000,000**	23.15	146.2	7.65 J	ND	12.52	ND								
Semi-Volatile Organics - EPA Method 8270[1]																			
2-Methylnaphthalene	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	189 J	ND	ND	ND								
Acenaphthene	**20,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	599	ND	217 J	ND								
Acenaphthylene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	155 J	ND	ND	ND	299 J	ND								
Anthracene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	194 J	1,050	1,910	714	ND								
Benzo(a)anthracene	**1,000**	**1,000**	**1,000**	**5,600**	**11,000**	289 J	1,380	5,150	4,770	1,670	690								
Benzo(a)pyrene	**1,000**	**1,000**	**1,000**	**1,000**	**1,100**	354	1,850	4,490	3,850	1,610	711								
Benzo(b)fluoranthene	**1,000**	**1,000**	**1,000**	**1,000**	**11,000**	312	1,610	6,510	3,940	1,710	530								
Benzo(g,h,i)perylene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	322	1,370	5,400	2,480	1,220	431								
Benzo(k)fluoranthene	**800**	**1,000**	**3,900**	**56,000**	**110,000**	297 J	1,320	4,510	3,640	1,090	222 J								
Carbazole	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	341 J	ND	173 J	ND								
Chrysene	**1,000**	**1,000**	**3,900**	**56,000**	**110,000**	353	1,790	5,280	5,080	1,770	1,740								
Dibenzo(a,h)anthracene	**330**	**330**	**330**	**560**	**1,100**	ND	596	1,520	887 J	458	ND								
Dibenzofuran	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	278 J	ND	158 J	ND								
Fluoranthene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	405	1,410	5,630	12,700	3,210	247 J								
Fluorene	**30,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	401	ND	218 J	ND								
Indeno(1,2,3-cd)pyrene	**500**	**500**	**500**	**5,600**	**11,000**	249 J	1,090	3,910	1,770	846	359								
Naphthalene	**12,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	ND	ND	492	ND	190 J	ND								
Phenanthrene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	354	515	3,280	8,330	2,260	ND								
Pyrene	**100,000**	**100,000**	**100,000**	**500,000**	**1,000,000**	476	1,340 M	5,170	10,100	2,760	293 J								
Metals[4]																			
Aluminum	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	2560	4650	6840	3230	3670	5420								
Antimony	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	ND	8.31	ND	ND	ND								
Arsenic	**13**	**16**	**16**	**16**	**16**	ND	2.91	4.61	14.8	4.02	ND								
Barium	**350**	**350**	**400**	**400**	**10,000**	19.1	47.4	32.4	27.5	42.8	33.9								
Cadmium	**2.5**	**2.5**	**4.3**	**9.3**	**60**	ND	0.558	0.999	13.6	0.487	ND								
Calcium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	9,800	22200	38,000	4,960	29,700	102,000								
Chromium	**1**	**36**	**110**	**400**	**6,800**	3.71	20.9	20.0	419	32.9	13.4								
Cobalt	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	1.86	4.91	4.72	29.0	3.19	3.31								
Copper	**50**	**270**	**270**	**270**	**10,000**	31.7	882	5,310	908	746	25.0								
Iron	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	9,440	19600	21,900	393,000	16,100	11,200								
Lead	**63**	**400**	**400**	**1,000**	**3,900**	26.4	135	823	140	151	39.3								
Magnesium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	881	1390	2,630	309	2,450	4,950								
Manganese	**1600**	**2,000**	**2,000**	**10,000**	**10,000**	148	578	512	2,790	310	278								
Mercury	**0.18**	**0.81**	**0.81**	**2.8**	**5.7**	0.126	0.137	0.160	0.131	0.456	0.0960	ND	0.283	0.0321	0.98	0.0858 D,M	0.0730 D,M	0.0741	0.421
Nickel	**30**	**140**	**310**	**310**	**10,000**	ND	25.4	25.3	273	19.3	12.5								
Potassium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	445	513	923	409	611	985								
Sodium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	ND	131	197	114	109	134								
Vanadium	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	9.48	11.9	13.2	21.3	10.8	9.44								
Zinc	**109**	**2,200**	**10,000**	**10,000**	**10,000**	43.6	244	5,970	251	256	39.1								

1 - results presented in micrograms per kilogram (ug/Kg).
2 - 6 NYCRR Part 375-6.8 - Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives
3 - 6 NYCRR Part 375-6.8 - Table 375-6.8(b): Restricted Use Soil Cleanup Objectives
4 - results presented in milligrams per kilogram (mg/Kg).
ND- not detected above reporting limit
J- value is estimated

Value Exceeds Unrestricted SCOs
Value Exceeds Residential Use SCOs
Value Exceeds Restricted-Residential SCOs
Value Exceeds Commercial Use SCOs
Value Exceeds Industrial Use SCOs

Table 6

Sewall's Island Site #623012
Estimated Remedial Costs
Commercial Use Alternatives

Description	Est. Quantity		Unit Price	Est. Total
Engineering/Institutional Controls				
Negotiation & Filing of Deed Restrictions	1	@	$5,000	$5,000
Preparation of Grading Plan	1	@	$5,500	$5,500
Site Prep & Clearing	1	@	$20,000	$20,000
Soil Cover Material (1-foot thick)	10362	@	$44	$455,928
Filling, Grading, and Seeding	1	@	$22,000	$22,000
Installation of Fencing	1	@	$18,500	$18,500
Site Management Plan Preparation	1	@	$16,000	$16,000
Survey	1	@	$7,250	$7,250
	Capital Cost Subtotal			$550,178
Long-Term Groundwater Monitoring				
Annual Groundwater Monitoring (5 years)				
- 9 wells + QA/QC; 8260 VOCs & TAL Metals; annual reporting	5	yrs.	9500	47500
Annual Engineer's Certification (30 years)				
- site visit & certification letter	30	yrs	$1,250	$37,500
			TOTAL	**$635,178**
TOTAL NET PRESENT WORTH OF COSTS (5% interest rate)				**$610,523**

Table 7

Sewall's Island ERP Site #E623012
Estimated Remedial Costs
Unrestricted Use Alternative

Description	Est. Quantity		Unit Price	Est. Total
Soil Removal & Disposal				
Install temporary construction fencing	1	@	$2,000	$500
Equipment Mob./Demob.	1	@	$2,000	$2,000
Soil Excavation, Staging & Loading	55	days	$1,350	$74,250
Soil Transportation & Disposal @ DANC	24,200	tons	$45	$1,089,000
Confirmatory Soil Sampling (analytical)	10	ea.	$350	$3,500
Air Monitoring Equipment	55	days	$300	$16,500
Backfill	24200	tons	$10	$242,000
Compaction & Site Restoration (topsoil and seed)	20	@	$5,000	$100,000
Waste Characterization	10	ea.	$1,000	$10,000
Contingency (20%)				$307,550
Engineering Oversight & Coordination	1	@	$60,000	$60,000
			SUBTOTAL	$1,905,300
Groundwater Extraction & Air Stripping				
Preparation of Remedial Action Work Plan	1	@	$16,000	$16,000
Pumping Test (assume 3 days)	1	@	$5,000	$5,000
Installation of Extraction Wells	5	ea.	$3,000	$15,000
- 5 wells; 4" diameter				
Submersible Pumps, Piping & Installation	5	ea.	$5,000	$25,000
System Enclosure/Shed	2	@	$3,000	$6,000
Air Stripper Unit w/ blower, electrical controls & installatio	2	@	$20,000	$40,000
Permitting (incl. sampling of discharge)	1	@	$4,000	$4,000
Initial system checks (weekly)	4	wks.	$1,000	$4,000
Contingency (20%)				$23,000
Engineering Oversight & Coordination	1	@	$20,000	$20,000
			SUBTOTAL	$158,000
O&M Activities				
Periodic O&M (monthly)	3	yrs.	$18,000	$54,000
- system check and sample influent/effluent for VOCs, pH				
Annual Groundwater Sampling	3	yrs	$5,000	$15,000
			SUBTOTAL	$69,000
Final Engineering Report	1	@	$16,000	$16,000
			TOTAL	**$2,148,300**
TOTAL NET PRESENT WORTH OF COSTS (5% interest rate)				**$2,139,756**

Notes:

Appendix A
Site Photographs

Site Photographs

Sewall's Island Site #E623021

Photo No. 1. Coring at MW-1

Photo No. 2. Well install at MW-2S/MW-2D

Photo No. 3. Soil boring installation

Photo No. 4. MW-7 bedrock core box

Photo No. 5. Test pit TP-37

Photo No. 6. Test pit TP-38

Photo No. 7. Test pit TP-24

Photo No. 8. View of oil seep below MW-2S/MW-2D

Photo No. 9. View of oil seep below MW-2S/MW-2D

Photo No. 10. Groundwater sampling at MW-5, Dec. 2008.

Photo No. 11. Slug testing at MW-2S

Photo No. 12 Hg removal IRM

Photo No. 13. Hg removal IRM PAOC3

Photo No. 14. IRM test pit TP-9B

Photo No. 15. IRM test pit TP-23B drum

Photo No. 16. IRM test pit TP-23B drums

Photo No. 17. IRM test pit buried cable/metal

Photo No. 18 IRM test pit 38B drums & staged soil

Photo No. 19. View of LNAPL in MW-2S, March 2010.

Photo No. 20. EW-2 extraction well installation

Photo No. 21. TFE Pilot test

Photo No. 22. Extraction well installation, July 2011.

Photo No. 23. View of TFE system

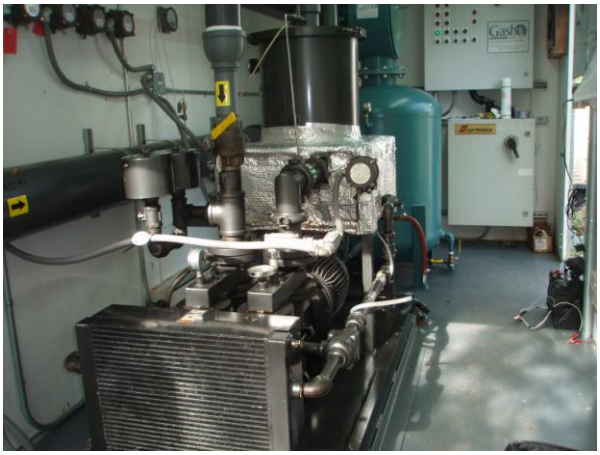

Photo No. 24. View inside TFE trailer

Photo No. 25. Stone wheels in river bed

Photo No. 26. Wall/riverbed at west end island below MW-2S/MW-2D

Photo No. 27. Overpacked waste drum from TP-38

Photo No. 28. IRM test pit TP-23B

Photo No. 29. IRM test pit TP-38B overpacking waste drum

Photo No. 30. Screening soil with PID

Appendix B
Boring Logs, Field Forms, and Hydrogeological Data

SURFACE SOIL SAMPLING LOGS

LU ENGINEERS
Civil and Environmental

Surface Soil Sample

Project: Sewall's Island Lu Project No.: 34202 Date: 8-19-08

Weather: partly cloudy Temp.: 60° Field Engineer/Geologist: RCM

SAMPLE ID: SI-SS-01 @ 11:15

Equipment Used: hand auger

Surface Cover: gravel / weeds

Depth	PID Reading	Description
0-2"	—	Dark brown cmf SAND and Silt, ~~with~~ some mf gravel, moist, with roots.

Remarks: slightly vegetative, cover removed sample taken just off gravel entrance road, road is millings.

SAMPLE ID: SI-SS-02 @ 11:30

Equipment Used: hand trowel, bowl

Surface Cover: millings, weeds

Depth	PID Reading	Description
0-2"	—	Dark brown, cmf SAND, some SILT, little mf gravel, slag, moist.

Remarks: slightly vegetated, cover removed consisted of millings, gravel, brick (fill).

LU ENGINEERS
Civil and Environmental

Surface Soil Sample

Project: Sewalls Island Lu Project No.: 34202 Date: 8-19-08

Weather: partly cloudy Temp.: 60 ° Field Engineer/Geologist: RCM/LMS

SAMPLE ID: SI-SS-03 @ 11:50

Equipment Used: spoon / bowl

Surface Cover: vegetation / gravel

Depth	PID Reading	Description
0-2"	—	dark brown, cmf SAND, some cmf Gravel, little silt, moist, roots

Remarks: fill, some brick

SAMPLE ID: SI-SS-04 @ 12:00

Equipment Used: spoon

Surface Cover: moss

Depth	PID Reading	Description
0-2"	—	dark brown, cmf SAND, some cmf Gravel, moist, bricks,

Remarks: brick

LU ENGINEERS
Civil and Environmental

Surface Soil Sample

Project: Savalls Island Lu Project No.: 34202 Date: 8-19-08

Weather: cloudy Temp.: 60° Field Engineer/Geologist: RCM / LMS

SAMPLE ID: SI-SS-05 @ 12:15

Equipment Used: hand auger

Surface Cover: slight vegetation, weeds

Depth	PID Reading	Description
0-2'	—	dark brown cmf SAND, some cmf Gravel, moist.

Remarks:

SAMPLE ID: SI-SS-06 @ 13:15

Equipment Used: hand auger

Surface Cover: slag, weeds vegetation

Depth	PID Reading	Description
0-2'	—	Black, CSAND, cmf Gravel, slag

Remarks: area surrounded by slag & foundry sand close to top of rail bed

LU ENGINEERS
Civil and Environmental

Surface Soil Sample

Project: Sewalls Lu Project No.: 34202 Date: 8-19-08

Weather: partly sunny Temp.: 65° Field Engineer/Geologist: RCH/LMS

SAMPLE ID: SI-SS-07 @ 13:30

Equipment Used: hand trowel

Surface Cover: gravel & asphalt millings

Depth	PID Reading	Description
0-2"	—	Dark brown - black, cmf SAND, some cmf Gravel

Remarks: Gravel & asphalt millings

SAMPLE ID: SI-SS-08 @ 13:50

Equipment Used: spoon

Surface Cover: vegetation

Depth	PID Reading	Description
0-2"	—	dark brown, cmf SAND, little mf gravel,

Remarks: seemed like more of original onsite soils

LU ENGINEERS
Civil and Environmental

Surface Soil Sample

Project: ~~34202~~ Sewalls Lu Project No.: 34202 Date: 8/19/08

Weather: partly sunny Temp.: 65° Field Engineer/Geologist: KCM/LMS

SAMPLE ID: SI-SS-09 @ 14:10

Equipment Used: spoon, bowl

Surface Cover: fully vegetated, leaves

Depth	PID Reading	Description
0-2"	—	dark brown, cmf SAND, little silt, few mf gravel, slag, glass, organic roots

Remarks: slag, roots,

SAMPLE ID: SI-SS-10 @ 14:20

Equipment Used: spoon,

Surface Cover: grass vegetation

Depth	PID Reading	Description
0-2"	—	Black-dark brown, cmf SAND, little cmf gravel, few angular cobble, moist, slag, brick.

Remarks: In rail bed, coal, slag, brick

LU ENGINEERS
Civil and Environmental

Surface Soil Sample

Project: Sewalls Lu Project No.: 34202 Date: 8/19/08

Weather: partly sunny Temp.: 65° Field Engineer/Geologist: RCM/LMS

SAMPLE ID: SI-SS-11 @ 14:35

Equipment Used: spoon, bowl

Surface Cover: grass, vegetation

Depth	PID Reading	Description
0-2"	—	Black-dark brown, cmf SAND, little anf Gravel, few organics (roots).

Remarks: In former rail bed

SAMPLE ID: SI-SS-12 @ 15:15 + SI-SS-12 MS @ 15:20
SI-SS-12 MSD @ 15:25

Equipment Used: spoon

Surface Cover: sparse vegetation

Depth	PID Reading	Description
0-2"	—	Black-dark brown, cmf SAND, some cinders, roots

Remarks:

LU ENGINEERS
Civil and Environmental

Surface Soil Sample

Project: Sewalls Lu Project No.: 34202 Date: 8/19/08

Weather: partly sunny Temp.: 65° Field Engineer/Geologist: RCM/LMS

SAMPLE ID: SI-SS-13 @ 15:35

Equipment Used: soil auger

Surface Cover: grass

Depth	PID Reading	Description
0-2"	—	dark brown, cmf SAND, fill (brick), organics (roots), moist.

Remarks: lots of fill, little soil

SAMPLE ID: SI-SS-14 @ 15:55

Equipment Used: hand trowel

Surface Cover: vegetation (grass, shrubs)

Depth	PID Reading	Description
0-2"	—	Dark brown, cmf SAND, mf gravel, fill (slag, brick). moist

Remarks: fill some slag, brick,

LU ENGINEERS
Civil and Environmental

Surface Soil Sample

Project: Sewalls Lu Project No.: 34202 Date: 8/19/08

Weather: partly sunny Temp.: 65° Field Engineer/Geologist: RCM/LHS

SAMPLE ID: SI-SS-15 @ 16:00

Equipment Used: SS spoon

Surface Cover: vegetated, grasses

Depth	PID Reading	Description
0-2"	—	dark brown, cmf SAND, little cmf gravel, trace cobble, some fill

Remarks:

SAMPLE ID: SI-SS-16 @ 16:15

Equipment Used: SS spoon

Surface Cover: vegetated, tall grasses

Depth	PID Reading	Description
0-2"	—	dark brown, cmf SAND, trace mf gravel, moist, few organics roots

Remarks:

LU ENGINEERS
Civil and Environmental

Surface Soil Sample

Project: Sewalls Lu Project No.: 34202 Date: 8-19-08

Weather: partly sunny Temp.: 65° Field Engineer/Geologist: RCM/LMS

SAMPLE ID: SI-SS-17 @ 16:50

Equipment Used: SS spoon

Surface Cover: vegetated (weeds)

Depth	PID Reading	Description
0-2"	—	Dark brown, cmf SAND, amt gravel, angular, few organics (roots) moist worms

Remarks:

SAMPLE ID: SI-SS-18 @ 17:05

Equipment Used: hand auger

Surface Cover: vegetated, tall grasses

Depth	PID Reading	Description
0-2"	—	Med brown SILT, some fine sand,

Remarks: On level ground adjacent to mounded fill area

LU ENGINEERS
Civil and Environmental

Surface Soil Sample

Project: Sewalls Lu Project No.: 34202 Date: 8/19/08

Weather: partly sunny Temp.: 65° Field Engineer/Geologist: RCM/LMS

SAMPLE ID: SI-SS-19 @ 17:20

Equipment Used: hand trowel SS

Surface Cover: vegetated

Depth	PID Reading	Description
0-2"	—	Black-dark brown, cmf SAND, slag, trace organics (roots), moist.

Remarks: lots of slag chuncks cmf

SAMPLE ID: SI-SS-20 @ 17:30

Equipment Used: SS spoon + bowl

Surface Cover: vegetative, grasses

Depth	PID Reading	Description
0-2"	—	dark brown, cmf SAND, trace mf gravel, slag, moist.

Remarks:

LU ENGINEERS
Civil and Environmental

Surface Soil Sample

Project: Seawalls Lu Project No.: 34202 Date: 6/19/08

Weather: partly sunny Temp.: 65° Field Engineer/Geologist: RCM / LMS

SAMPLE ID: SI-SS-21 @ 17:45

Equipment Used: SS spoon

Surface Cover: moss, vegetated

Depth	PID Reading	Description
0-2"	—	Black cmf SAND, trace cmf gravel, moist, slag

Remarks:

SAMPLE ID:

Equipment Used:

Surface Cover:

Depth	PID Reading	Description

Remarks:

LU ENGINEERS
Civil and Environmental

Surface Soil Sample

Project: Sewalls Lu Project No.: 34202 Date: 8/20/08

Weather: sunny Temp.: 60° Field Engineer/Geologist: RCM/LMS

SAMPLE ID: SI-SS-22 @ 8:10 / SI-SS-22D @ 8:15

Equipment Used: SS spoon + bowl

Surface Cover: low grasses - vegetated

Depth	PID Reading	Description
0-2"	—	dark brown cmf SAND, some mf Gravel, little vegetation roots

Remarks:

SAMPLE ID: SI-SS-23 @ 8:25

Equipment Used: SS spoon

Surface Cover: low grasses - vegetated

Depth	PID Reading	Description
0-2"	—	dark brown-black cmf SAND, a few slag, ~~some~~ roots

Remarks:

LU ENGINEERS
Civil and Environmental

Surface Soil Sample

Project: Sewalls Lu Project No.: 34202 Date: 8/20/08

Weather: Sunny Temp.: 60 ° Field Engineer/Geologist: RCM/LMS

SAMPLE ID: SI-SS-24 @ 8:35

Equipment Used: SS spoon

Surface Cover: vegetated - low weeds

Depth	PID Reading	Description
0-2"	—	Black cmf SAND, some cmf gravel, slag, moist, roots

Remarks: In railroad, between ties, in ballast maybe main line or spur off line

---

SAMPLE ID: SI-SS-25 @ 9:00

Equipment Used: SS spoon

Surface Cover: vegetated - low weeds, clover

Depth	PID Reading	Description
0-2"	—	Dark brown cmf SAND, little cmf gravel, slag, roots, moist

Remarks:

LU ENGINEERS
Civil and Environmental

Surface Soil Sample

Project: Sewalls Lu Project No.: 34202 Date: 8/20/08

Weather: Sunny Temp.: 60° Field Engineer/Geologist: RCM/LMS

SAMPLE ID: SI-SS-26 @ 9:20

Equipment Used: SS hand trowel

Surface Cover: weeds vegetated

Depth	PID Reading	Description
0-2"	—	Dark brown-black cmf SAND, some slag, few organics, moist

Remarks: taken from pathway down to river

SAMPLE ID: SI-SS-27 @ 9:35

Equipment Used: hand auger

Surface Cover: weeds vegetation

Depth	PID Reading	Description
0-2"	—	Dark brown, cmf SAND and cmf gravel, some cobbles, organics (roots) moist.

Remarks: many angular cobbles

LU ENGINEERS
Civil and Environmental

Surface Soil Sample

Project: Seawalls Lu Project No.: 34202 Date: 8/20/08

Weather: sunny Temp.: 60° Field Engineer/Geologist: RCM/CMS

SAMPLE ID: SI-SS-28 @ 9:45

Equipment Used: SS spoon

Surface Cover: weeds, vines, vegetated

Depth	PID Reading	Description
0-2"	—	Fill, Dark brown cmf SAND and cmf gravel, slag, glass, moist, organics (roots)

Remarks:

SAMPLE ID: SI-SS-29 @ 10:00

Equipment Used: hand auger

Surface Cover: weeds, tall grass, moss

Depth	PID Reading	Description
0-2"	—	Dark brown cmf SAND, some cmf gravel, few cobbles

Remarks:

LU ENGINEERS
Civil and Environmental

Surface Soil Sample

Project: Sewalls Lu Project No.: 34202 Date: 8/20/08

Weather: Sunny Temp.: 65° Field Engineer/Geologist: RCM/LMS

SAMPLE ID: SI-SS-30 @ 11:45

Equipment Used: SS spoon

Surface Cover: grass

Depth	PID Reading	Description
0-2"	—	med brown silty SAND, little cm gravel, organics (roots), moist

Remarks:

SAMPLE ID: SI-SS-31 @ 12:00

Equipment Used: SS spoon

Surface Cover: grass/weeds

Depth	PID Reading	Description
0-2'	—	Dark brown cmf SAND, some cmf gravel, few cobbles, moist

Remarks:

LU ENGINEERS
Civil and Environmental

Surface Soil Sample

Project: Sewalls Lu Project No.: 34202 Date: 8/20/08

Weather: Sunny Temp.: 65° Field Engineer/Geologist: RCM / CMS

SAMPLE ID: SI-SS-32 @ 12:25

Equipment Used: soil auger

Surface Cover: weeds, low grasses

Depth	PID Reading	Description
0-2"	—	Dark brown, omf SAND, little silt, few mf gravel, moist.

Remarks: located just off gravel road

SAMPLE ID: SI-SS-33 @ 13:00

Equipment Used: SS spoon

Surface Cover: grass, vegetated

Depth	PID Reading	Description
0-2"	—	dark brown silty, mf SAND, many roots above

Remarks:

LU ENGINEERS
Civil and Environmental

Surface Soil Sample

Project: Sewalls Lu Project No.: 34202 Date: 8/20/08

Weather: sunny Temp.: 65° Field Engineer/Geologist: RCM/CMS

SAMPLE ID: SI-SS-34 @ 13:20

Equipment Used: SS hand trowel

Surface Cover: none - mud

Depth	PID Reading	Description
0-2"	—	dark brown sandy SILT, little mf gravel, trace roots, moist

Remarks: located at river level, silt depositing from river flooding is evident in this area.

SAMPLE ID: SI-SS-35 @ 13:35

Equipment Used: SS spoon/bowl

Surface Cover: none - mud

Depth	PID Reading	Description
0-2"	—	dark brown, cmf SAND and SILT, moist, few slag,

Remarks: Fill area, C&D, brick & stone

LU ENGINEERS
Civil and Environmental

Surface Soil Sample

Project: Sewalls Lu Project No.: 34202 Date: 8/20/08

Weather: sunny Temp.: 65° Field Engineer/Geologist: RCH / CMS

SAMPLE ID: SI-SS-36 @ 13:50

Equipment Used: SS spoon / SS bowl

Surface Cover: grasses / weeds - vegetated

Depth	PID Reading	Description
0-2"	—	dark brown cmf SAND and cmf GRAVEL, little silt, organics (roots), moist.

Remarks:

SAMPLE ID: SI-SS-37 @ 14:40

Equipment Used: SS Spoon

Surface Cover: grasses

Depth	PID Reading	Description
0-2"	—	Fill, med brown sand + gravel

Remarks: fill, near former building foundation / loading dock

LU ENGINEERS
Civil and Environmental

Surface Soil Sample

Project: Sewalls Lu Project No.: 34202 Date: 9/20/08

Weather: Sunny Temp.: 65° Field Engineer/Geologist: RCM/CMS

SAMPLE ID: SI-SS-38 @ 14:50

Equipment Used: SS Spoon

Surface Cover: grasses / tall weeds - vegetated

Depth	PID Reading	Description
0-2"	—	Dark brown, cmf SAND and mf GRAVEL, moist, organics (roots).

Remarks:

SAMPLE ID: SI-SS-39 @ 15:00

Equipment Used: SS hand trowel & SS bowl

Surface Cover: tall grasses + weeds, vegetated

Depth	PID Reading	Description
0-2"	—	dark brown, cmf SAND and cmf Gravel, moist, organics (roots).

Remarks:

LU ENGINEERS
Civil and Environmental

Surface Soil Sample

Project: Seawalls Lu Project No.: 34202 Date: 8/20/08

Weather: sunny Temp.: 65° Field Engineer/Geologist: RCM/CMS

SAMPLE ID: SI-SS-40 @ 15:20

Equipment Used: SS spoon

Surface Cover: moss, vegetated

Depth	PID Reading	Description
0-2"	—	Dark brown cmf SAND, some cmf gravel, little silt, moist.

Remarks: in area w of power building, lots of fill, debris building ruble

---

SAMPLE ID: SI-SS-41 @ 15:30

Equipment Used: SS-spoon

Surface Cover: grass/weeds - vegetated

Depth	PID Reading	Description
0-2"	—	dark brown, cmf SAND & cmf Gravel, little silt, moist.

Remarks:

LU ENGINEERS
Civil and Environmental

Surface Soil Sample

Project: Sewalls Lu Project No.: 34202 Date: 8/20/08

Weather: sunny Temp.: 65° Field Engineer/Geologist: RCM/LMS

SAMPLE ID: SI-SS-42 @ 15:40

Equipment Used: SS spoon

Surface Cover: dead leaves, decomposing & grasses

Depth	PID Reading	Description
0-2"	/	med brown, cmf SAND, some mf gravel, ~~top~~ moist.

Remarks: very top layer is "peat like"

SAMPLE ID: _____

Equipment Used: _____

Surface Cover: _____

Depth	PID Reading	Description

Remarks: _____

SOIL BORING LOGS

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PROJECT	BORING: SB-1
City of Watertown, NY	SHEET 1 OF 1
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN

DRILLER: Robert
JCL GEOLOGIST: E. Detweiler

GROUND SURFACE ELEVATION: N/A DATUM: N/A
START DATE: 9/2/08 END DATE: 9/2/08

CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	1	1		NA	30%	Medium brown SILT, some f Sand and mf Gravel, dry (FILL)	
1	1			↓	↓	@0.5': brick fragments intermixed with Silt & Gravel (FILL)	0.0
	2						
2	2		2				0.0
	2	2			15%		
3	3				↓		0.0
	3						
4	2		4				0.0
	16	3			5%		
5	7				↓		0.0
	5						
6	8		6				0.0
	50/0.3'	4	6.3		2%	@6.3': moist, trace f Gravel, spoon refusal	0.0
7						Total Depth = 6.3' bgs	
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

Split spoon refusal @ 6.3'; collect soil sample from 0-6.3'; auger refusal @ 6.3'
PID reading in augers @ 6.3'=0 ppm
soil sample is composite from 0-6.3' (SI-SB-1(0-6.3'))

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	
City of Watertown, NY	BORING: SB-2
Sewall's Island Remedial Investigation	SHEET 1 OF 1
Soil Borings	JOB #: 34202
	CHKD. BY:

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: N/A DATUM: N/A
START DATE: 9/2/08 END DATE: 9/2/08

DRILLER: Robert
JCL GEOLOGIST: E. Detweiler
CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	1	1		NA	33%	@ 0': light brown f SAND with Silt, little cmf Gravel, dry (FILL)	
1	3			↓	↓	@0.2': dark brown f SAND (foundry sand), crushed brick, dry, loose (FILL)	0.0
	4						
2	5		2				0.0
	1	2			15%		
3	3				↓		0.0
	1						
4	5		4				0.0
	1	3			15%	@4.5': medium brown SILT, some mf Sand and cmf Gravel, moist (FILL)	
5	2				↓		0.0
	2						
6	4		6				0.0
	2	4			38%		
7	2				↓	@ 7': drak brown Silty f SAND (foundry sand), some cmf Gravel, brick fragments, moist (FILL)	0.0
	3						
8	2		8				0.0
	12	5			10%	@8.5': rust colored slag, coke (FILL)	
9	50/0.5		9		↓	@8.8': fractured limestone (likely bedrock), weathered	0.0
	22	6			5%		
10	15		10		↓		0.0
	50/0.4'		10.4			@10.4': dark brown to charcoal grey SILT, wet, light petroleum-type odor, discoloration	10.2': 2.1
11						Total Depth = 10.4' bgs	
12							
13							
14							
15							
16							
17							
18							
19							
20							

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

Split spoon & auger refusal at 10.4'; collect soil sample from 6-9' for analysis
Discoloration at 10.4' but not enough recovery for sample
Headspace reading on soil from 10-10.4' = 3.3 ppm peak

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	
City of Watertown, NY	BORING: SB-3
Sewall's Island Remedial Investigation	SHEET 1 OF 1
Soil Borings	JOB #: 34202
	CHKD. BY:

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: N/A DATUM: N/A
START DATE: 9/2/08 END DATE: 9/2/08

DRILLER: Robert
JCL GEOLOGIST: E. Detweiler
CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	2	1		NA	38%	@0': medium brown SILT, some cmf Gravel, little f Sand, brick fragments, asphalt, moist	
1	2			↓	↓	(FILL)	0.0
	2						
2	4		2				0.0
	5	2			25%		
3	7				↓		0.0
	2						
4	1		4			@4': medium brown SILT, little cmf Gravel, moist (FILL)	0.0
	2	3			24%		
5	16				↓		0.0
	50/0.2'		5.2				0.0
6						Total Depth = 5.2' bgs	
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

Split spoon & auger refusal at 5.2' bgs; collect soil sample from 2-5.2' for analysis

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	
City of Watertown, NY	BORING: SB-4
Sewall's Island Remedial Investigation	SHEET 1 OF 1
Soil Borings	JOB #: 34202
	CHKD. BY:

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: N/A DATUM: N/A
START DATE: 9/2/08 END DATE: 9/2/08

DRILLER: Robert
JCL GEOLOGIST: E. Detweiler
CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	1	1		NA	30%	@0': medium brown SILT, some cm Gravel, moist, soft, roots (FILL)	
1	1			↓	↓		0.0
	2					@1.5': as above with brick, stone & wood fragments (FILL)	
2	5		2			@2': poor recovery, little brick, stone & wood, trace f Sand (FILL)	0.0
	2	2			10%		
3	2				↓		0.0
	3						
4	6		4			@4': medium brown SILT, some cm Gravel, moist, soft, no obvious discoloration (FILL)	0.0
	2	3			14%		
5	3				↓		0.0
	50/0.4'		5.4				0.0
6							
7						Total Depth = 5.4' bgs	
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

Split spoon & auger refusal @ 5.4' bgs, PID reading down augers @ refusal = 0 ppm
Collect soil from 0-4' & 4-5.4' for sample
Headspace reading on soil from 5' = 6.7 ppm peak, no elevated readings on soil in spoons

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	BORING: SB-5
City of Watertown, NY	SHEET 1 OF 1
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: N/A DATUM: N/A
START DATE: 9/3/08 END DATE: 9/3/08

DRILLER: Robert
JCL GEOLOGIST: E. Detweiler
CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	1	1		NA	9%	@0': medium brown SILT(topsoil) with roots, little cmf Gravel, moist	0.0
1	2			↓	↓	@0.25': as above with brick fragments (FILL)	0.0
	2						
2	3		2				0.0
	2	2			30%		
3	2				↓		0.0
	1						
4	2		4				0.0
	2	3			12%		
5	2				↓	@5': concrete and brick (FILL)	0.0
	2						
6	2		6				0.0
	9	4			8%		
7	10				↓		0.0
	23						
8	50/0.4'		7.9			@7.7': wood in shoe (likely FILL)	0.0
9						Total Depth = 7.9' bgs	
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

Split spoon & auger refusal at 7.9'

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	
City of Watertown, NY	BORING: SB-6
Sewall's Island Remedial Investigation	SHEET 1 OF 1
Soil Borings	JOB #: 34202
	CHKD. BY:

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: N/A DATUM: N/A
START DATE: 9/3/08 END DATE: 9/3/08

DRILLER: Robert
JCL GEOLOGIST: E. Detweiler
CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	1	1		NA	25%	@0': medium brown SILT, some mf Gravel, dry, soft (FILL)	
1	1			↓	↓		0.0
	1						
2	3		2				0.0
	3	2			10%		
3	6				↓	@3': as above but grey-brown	0.0
	6						
4	3		4				0.0
	8	3			11%		
5	9				↓		0.0
	50/0.3'		5.3				0.0
6						Total Depth = 5.3' bgs	
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

Split spoon & auger refusal @ 5.3' bgs

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	
City of Watertown, NY	BORING: SB-7
Sewall's Island Remedial Investigation	SHEET 1 OF 1
Soil Borings	JOB #: 34202
	CHKD. BY:

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: N/A DATUM: N/A
START DATE: 9/3/08 END DATE: 9/3/08

DRILLER: Robert
JCL GEOLOGIST: E. Detweiler
CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	X			NA	NA	@0': concrete	
1	X			↓	↓	@0.5': augered through stone	0.0
	X						
2	X		2				0.0
	9	1			15%	@2.5':grey pulverized/weathered rock, dry	
3	50/0.1'		2.6		↓		0.0
4						Total Depth = 2.6' bgs	
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

Split spoon & auger refusal at 2.6' bgs
No evidence of contamination; insufficient recovery for sample

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	BORING: SB-8
City of Watertown, NY	SHEET 1 OF 1
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: N/A DATUM: N/A
START DATE: 9/3/08 END DATE: 9/3/08

DRILLER: Robert
JCL GEOLOGIST: E. Detweiler
CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	NA			NA	3%	@0': asphalt overlying brick to 0.8' bgs	
1	50/0.5'	1	1.00	↓	↓	@0.8': medium brown f SAND, moist, loose (FILL)	0.0
2						Total Depth = 1.0' bgs (below asphalt)	
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

split spoon & augfer refusal at 1.0' bgs (bedrock); no sample

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	BORING: SB-9
City of Watertown, NY	SHEET 1 OF 1
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: N/A DATUM: N/A
START DATE: 9/3/08 END DATE: 9/3/08

DRILLER: Robert
JCL GEOLOGIST: E. Detweiler
CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	10	1		NA	25%	@0': dark brown SILT with mf Gravel, brick fragments, dry (FILL)	
1	8			↓	↓		0.0
	7						
2	8		2				0.0
	9	2			45%		
3	7				↓		0.0
	5					@3.5': black foundry Sand, slag & coke, dry (FILL)	
4	4		4				0.0
	3	3			40%		
5	2				↓	@5': black mf Sandy SILT (foundry sand), brick fragments & slag, dry (FILL)	0.0
	2						
6	5		6				0.0
	2	4			43%		
7	2				↓		0.0
	1						
8	2		8			@7.9': moist	0.0
	2	5			32%		
9	2				↓		0.0
	1					@9.5': weathered limestone in spoon (bedrock)	
10	50/0.4'		9.9				0.0
11						Total Depth = 9.9' bgs	
12							
13							
14							
15							
16							
17							
18							
19							
20							

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

Split spoon & auger refusal at 9.9' bgs

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	BORING: SB-10
City of Watertown, NY	SHEET OF
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: N/A DATUM: N/A
START DATE: 9/3/08 END DATE: 9/3/08

DRILLER: Robert
JCL GEOLOGIST: E. Detweiler
CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	NA	1		NA	15%	@0': brick (auger through)	
1	12			↓	↓	@0.5': black mf SAND (foundry), rusty slag, dry (FILL)	0.0
	6					@1.0': pushed through stone (low recovery)	
2	6		2			@1.2': as above with coke (FILL)	0.0
	6	2			22%		
3	4				↓		0.0
	3						
4	10		4				0.0
	10	3			30%		
5	16				↓	@4.75': fragmented/weathered limestone (presumably bedrock)	0.0
	50/0/4'		5.4				0.0
6						Total Depth = 5.4' bgs	
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

PID reading on auger cuttings from 1-4' = 3.3 ppm peak
PID reading in HSA with auger at 4' bgs = 13.8 ppm peak (8-13 ppm sustained); no noticeable odor; collect soil sample
Split spoon & auger refusal at 5.4' bgs

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	BORING: SB-11
City of Watertown, NY	SHEET 2 OF 2
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: N/A DATUM: N/A
START DATE: 9/4/08 END DATE: 9/4/08

DRILLER: Robert
JCL GEOLOGIST: E. Detweiler
CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	2	11		NA	52%	@20': as above (black foundry SAND with slag, coke) FILL	20-22': 0
21	3			↓	↓		
	4						
22	7		22				22-24': 0
	6	12			10%		
23	4				↓	@23': brick (red) and foundry brick (white)	
	4					@23.5': tan-grey foundry SAND/slag/mf Gravel conglomerate (semi-cemented), Fe oxide,	
24	2		24			moist (FILL)	24-26': 0
	6	13			50%		
25	4				↓		
	3						
26	7		26			@26': saturated	26-28': 0
	6	14			35%		
27	9				↓	@27': black SILT with f Sand (foundry), Fe oxide, saturated, very soft, weathered stone	
	16						
28	15		28				28-30': 0
	3	15			55%		
29	5				↓	@29': weathered limestone (likely bedrock)	
	8						
30	6		30				30-32': 0
	4	16			40%		
31	4				↓		
	7						
32	7		32				
33						Total Depth = 32' bgs (split spoons); 30' w/ augers	
34							
35							
36							
37							
38							
39							
40							

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

Drillers destroy 3 split spoon samplers from 26-32', decide to stop augering at 30' & sampling at 32'

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	BORING: SB-12
City of Watertown, NY	SHEET 1 OF 1
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN
DRILLER: Robert
GROUND SURFACE ELEVATION: N/A DATUM: N/A
JCL GEOLOGIST: E. Detweiler
START DATE: 9/4/08 END DATE: 9/4/08
CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	3	1		NA	50%	@0': black f SAND (foundry), some cmf Gravel, coke, dry (FILL)	
1	3			↓	↓		
	5						
2	7		2				0-2': 0
	7	2			40%		
3	3				↓		
	2						
4	1		4				2-4': 0
	1	3			30%		
5	3				↓	@5': light brown f SAND lense (2" thick),dry (FILL)	
	1					@5.5': glass-like slag in spoon	
6	3		6			@6': moist	4-6': 0
	5	4			35%	@6.5': medium brown SILT, some f Sand, moist, wood, Fe oxide, little slag (FILL)	
7	7				↓		
	1						
8	3		8			@8': rock fragments	6-8': 0
	9	5			50%	@8.5': 6" layer of wood (R.R. tie?)	8.5': 14.0
9	8				↓	@9': medium brown Silty f SAND (foundry), some mf Gravel, moist (FILL)	9': 7.0
	5						9.5': 0
10	5		10			@10': low-recovery, blow-in	10-12': 0
	7	6			10%		
11	5				↓		
	4						
12	3		12			@12': dark brown f SAND (foundry), some cmf Gravel, slag, moist (FILL)	
	3	7			40%		
13	3				↓		13': 0
	2						
14	2		14				13.8': 0.9
	3	8			15%	@14.5': with wood (R.R. tie?)	14': 1.4
15	3				↓		15': 0
	3						
16	2		16			@16': as above(12')	16-18': 0
	4	9			40%		
17	5				↓		
	4						
18	4		18				
	50/0.5'	10	18.5		NA		18.5': 0
19	X				↓		
	X					Total Depth = 18.5' bgs (spoons), (19' augers)	
20	X						

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

PID reading in HSA's at 18' = 0 ppm
Split spoon refusal at 18.5', augers at 19.0' bgs

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	
City of Watertown, NY	BORING: SB-13
Sewall's Island Remedial Investigation	SHEET 1 OF 1
Soil Borings	JOB #: 34202
	CHKD. BY:

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: N/A DATUM: N/A
START DATE: 9/4/08 END DATE: 9/4/08

DRILLER: Robert
JCL GEOLOGIST: E. Detweiler

CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	2	1		NA	55%	@0': dark brown to black Silty f SAND (foundry), some mf Gravel, angular stone fragments, dry	
1	4			↓	↓	Fe oxide (FILL)	
	3						
2	4		2				0-2': 0
	2	2			40%		
3	3				↓	@3': broken glass shards (FILL)	
	3						
4	3		4				2-4': 0
	16	3			28%	@4.5': as above (0') with coke (approx. 50/50 silt-sand), loose (FILL)	
5	6				↓		
	4						
6	5		6				4-6': 0
	2	4			20%		
7	3				↓		
	3						
8	5		8				6-8': 0
	9	5			75%		
9	4				↓	@9': slag in spoon (glass-like, green) (FILL)	
	3					@9.5': black f SAND (foundry), some cmf Gravel, little slag, dry (FILL)	
10	5		10				8-10': 0
	9	6			10%		
11	2				↓		
	2						
12	4		12				10-12': 0
	4	7			75%		
13	2				↓		
	4						
14	2		14				12-14': 0
	3	8			45%		
15	1				↓	@15': moist	
	2						
16	1		16				14-16': 0
	1	9			50%		
17	3				↓	@17':grey weathered limestone (likely bedrock), petroleum-type odor	17': 5.3
	1					@17.5': wet, sheen on groundwater	17.5': 29
18	50/0.5'		18				18': 22
	24	10			40%		18.5': 38
19	50/0.4'		18.9		↓		18.9': 35
						Total Depth = 18.9' bgs	
20							

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

Split spoon & auger refusal at 18.9' bgs

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	BORING: SB-14
City of Watertown, NY	SHEET 1 OF 2
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: N/A DATUM: N/A
START DATE: 9/5/08 END DATE: 9/5/08

DRILLER: Robert
JCL GEOLOGIST: E. Detweiler
CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	1	1		NA	3%	@0': dark brown SILT with cmf Gravel, little f Sand, brick & concrete fragments, dry (FILL)	
1	3			↓	↓		
	1						
2	1		2				0-2': 0.0
	2	2			25%		
3	1				↓	@3': dolostone fragments	
	1						
4	1		4			@4': black Silty mf SAND (foundry), little mf Gravel, dry, dolostone fragments (FILL)	2-4' 0.0
	4	3			45%		
5	3				↓		
	4						
6	7		6				4-6': 0.0
	2	4			45%	@6.5': wood, glass shards/pieces, slag (FILL)	
7	2				↓	@7': moist	
	3					@7.5': black m SAND (foundry), some slag & broken dolostone, dry, loose (FILL)	
8	3		8				6-8': 0.0
	2	5			40%		
9	18				↓		
	9		9.4				
10	7						8-10': 0
	3	6			20%		
11	3				↓		0.0
	5						
12	7		12				12': 5
	6	7			45%		
13	7				↓		13': 10.8
	3						13.5': 0.5
14	2		14			@14': primarily SLAG, some black Sand (foundry), moist (FILL)	14': 0
	2	8			15%	@14.5': as above (7.5')	
15	2				↓		0.0
	2						
16	2		16				0.0
	2	9			35%		
17	1				↓		17': 5
	1						
18	1		18			@18': roots in spoon	0.0
	1	10			20%		
19	1				↓		0.0
	1						
20	1						0.0

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

Encounter large pieces of concrete from 0-2' bgs on 1st attempt; move rig 5' north, encounter same; move 3-4' further north for 3rd attempt.

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	BORING: SB-14
City of Watertown, NY	SHEET 2 OF 2
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: N/A DATUM: N/A
START DATE: 9/5/08 END DATE: 9/5/08

DRILLER: Robert
JCL GEOLOGIST: E. Detweiler
CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	3	11		NA	25%	@20': as above (14.5')	20-22': 0
21	4			↓	↓		
	1						
22	1		22				22-24': 0
	2	12			30%		
23	7				↓		
	6						
24	6		24			@24': weathered limestone fragments, moist	24-25.2':0
	1	13			45%	@24.2': black Silt and f SAND (foundry), little cmf Gravel, rubber or fiber material (FILL)	
25	1				↓	@24.7': dark grey-brown, weathered limestone (likely bedrock), Fe mottling, wet	
	50/0.2'		25.2				
26						Total Depth = 25.2' bgs	
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

Split spoon & auger refusal @ 25.2' bgs (weathered limestone)

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	
City of Watertown, NY	BORING: SB-15a/b
Sewall's Island Remedial Investigation	SHEET 1 OF 1
Soil Borings	JOB #: 34202
	CHKD. BY:

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: N/A DATUM: N/A
START DATE: 9/5/08 END DATE: 9/5/08

DRILLER: Robert
JCL GEOLOGIST: E. Detweiler
CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	4	1		NA	30%	@0': grey fossiliferous limestone fragments, little dark brown SILT, dry	
1	5			↓	↓		0.0
	11						
2	9		2			@2': dark brown SILT, little mf Sand, limestone fragments, moist, non-plastic (some FILL)	0.0
	27	2			75%		
3	50/0.5'		3		↓		0.0
4						Total Depth = 3' bgs (split spoons)	
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

15a - Split spoon refusal at 3.0' bgs; auger to 5' bgs (slow augering into limestone)
15b - Split spoon refusal at 2.5' bgs (2nd attempt, 15' north), likely bedrock

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	BORING: SB-16
City of Watertown, NY	SHEET 1 OF 1
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: N/A DATUM: N/A
START DATE: 9/5/08 END DATE: 9/5/08

DRILLER: Robert
JCL GEOLOGIST: E. Detweiler
CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	2	1		NA	100%	@0': dark brown SILT and f Sand, dry, soft	
1	2			↓	↓	@0.25': black mf SAND (foundry), little Silt, dry, loose	0.0
	4					@1': 6" broken green slag (glass-like)	
2	6		2			@1.5': as above (0.25')	0.0
	11	2			80%		
3	16				↓	@3': weathered limestone	0.0
	27						
4	50/0.4'		3.9				0.0
5						Total Depth =3.9' bgs	
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

Split spoon and auger refusal at 3.9' bgs

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	BORING: SB-17
City of Watertown, NY	SHEET 1 OF 1
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: N/A DATUM: N/A
START DATE: 9/5/08 END DATE: 9/5/08

DRILLER: Robert
JCL GEOLOGIST: E. Detweiler
CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	3	1		NA	5%	@0': black Silty f SAND (foundry), brick fragments, loose, dry (FILL)	
1	1			↓	↓		
	1						
2	3		2				0-2': 0
	3	2			25%	@2.5': broken concrete & limestone fragments, dry (FILL)	
3	1				↓		
	5						
4	6		4				2-4': 0
	3	3			15%		
5	2				↓		
	3						
6	3		6				4-6': 0
	4	4			28%	@6.5': wood	
7	2				↓	@7': stone fragments and pulverized rock, dry	
	28						
8	32		8				6-8': 0
	17	5			35%	@8.2': medium brown Silty f SAND (foundry), angular mf Gravel & intermixed crushed stone	
9	16				↓	@9': grey-brown Silt and mf SAND, with broken dolostone pieces, wood in shoe, dry (FILL)	9': 198
	19						
10	21		10			@9.8': black f SAND (foundry), slag, brick fragments, dry (FILL)	10': 11
	7	6			10%	@10.5': as above (8.2') with slag, brick, stone and wood	
11	6				↓		11': 4.4
	2						11.5': 0
12	2		12				12': 0
	4	7			50%		
13	3				↓		13': 2
	2						
14	3		14				14': 0
	28	8			5%		
15	50/0.2'		14.7		↓	@14.7': concrete in shoe	
16						Total Depth = 14.7' bgs	
17							
18							
19							
20							

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

Split spoon refusal at 14.7' bgs & auger refusal at 15.0' bgs
Peak PID reading of 200 ppm inside HSA at 15' (consistent w/ reading at 9')

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	
City of Watertown, NY	BORING: SB-18
Sewall's Island Remedial Investigation	SHEET 1 OF 2
Soil Borings	JOB #: 34202
	CHKD. BY:

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: N/A DATUM: N/A
START DATE: 9/5/08 END DATE: 9/5/08

DRILLER: Robert
JCL GEOLOGIST: E. Detweiler
CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	2	1		NA	75%	@0': black SILT with mf Sand (foundry), trace f Gravel, soft, dry (FILL)	
1	2			↓	↓	@1': as above with slag, coke (FILL)	
	2					@1.5': black Silty f SAND, broken dolostone fragments, dry (FILL)	
2	2		2				0-2': 0
	2	2			45%		
3	1				↓		
	1						
4	1		4				2-4': 0
	4	3			5%		
5	1				↓		
	1						
6	2		6				4-6" 0
	2	4			60%		
7	2				↓	@7': grey-brown f Sandy SILT, little f Gravel (rounded), moist (FILL)	
	3						
8	5		8				6-8': 0
	6	5			10%		
9	3				↓	@9': as above with roots	
	5						
10	3		10				8-10': 0
	4	6			65%		
11	4				↓	@11': light brown SILT, little f Sand (foundry), trace f Gravel (rounded), m, low plasticity (FILL)	
	4						
12	4		12				10-12': 0
	3	7			70%		
13	4				↓		
	3					@13.5': as above with roots, mf Gravel (rounded), Fe mottling	
14	5		14			@14': no sand	12-14': 0
	2	8			50%		
15	3				↓		
	4						
16	5		16			@16': as above with trace f Gravel (rounded), trace Clay	14-16': 0
	2	9			100%		
17	3				↓		
	4					@17.5': little Clay	
18	5		18				16-18': 0
	2	10			100%		
19	4				↓		
	3						
20	4		20				18-20': 0

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

no indications of contamination 0-20'

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	BORING: SB-18
City of Watertown, NY	SHEET 2 OF 2
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: N/A DATUM: N/A
START DATE: 9/5/08 END DATE: 9/5/08

DRILLER: Robert
JCL GEOLOGIST: E. Detweiler
CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	2	11		NA	50%		
21	2			↓	↓	@21': trace Clay, no gravel	
	2						
22	3		22				20-22': 0
	3	12			30%		
23	3				↓		
	2					@23.6': weathered limestone fragments (angular) (likely bedrock)	
24	1		24			@23.8': saturated	22-24': 0
	50/0.4'	13	24.4				24.4': 0
25						Total Depth = 24.4' bgs	
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

Split spoon and auger refusal at 24.4' bgs

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	BORING: SB-19
City of Watertown, NY	SHEET 1 OF 1
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: N/A DATUM: N/A
START DATE: 9/8/08 END DATE: 9/8/08

DRILLER: Robert
JCL GEOLOGIST: E. Detweiler
CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	2	1		NA	90%	@0': black Silty f SAND (foundry), with slag, loose, dry (FILL)	0.5': 2.5
1	3			↓	↓	@1': dolostone fragments (angular)	1': 0
	13					@1.5': as above (0'), some Fe oxide	
2	10		2				2': 0
	7	2			20%		
3	6				↓		
	7						
4	8		4				2-4': 0
	9	3			45%		
5	5				↓		
	2						
6	3		6				4-6': 0
	3	4			20%		
7	3				↓		7': 0
	4						
8	3		8			@8': medium brown SILT, moist (native?)	8': 1.6
	7	5			48%		
9	3				↓	@9': black f SAND (discolored), little Silt and mf Gravel, moist, petroleum odor	9': 3.6
	4						
10	2		10				10': 78
	1	6			75%		
11	1				↓	@11': dark brown to black f Sandy SILT, trace f Gravel, moist	11': 180
	2						
12	1		12				12': 220
	2	7			90%	@12.5': dark brown	
13	1				↓		13': 2.8
	1					@13.3': SILT/wood mixture, moist, petroleum discoloration & odor	
14	2		14			@14': as above (11')	14': 70
	5	8			60%		14.5': 29
15	6				↓	@15': weathered limestone, dry (likely bedrock)	15': 89
	19						15.5': 147
16	50/0.1'		15.6				
17						Total Depth = 15.6' bgs	
18							
19							
20							

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

Split spoon and auger refusal @ 15.6'
No indications of contamination

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	BORING: SB-20
City of Watertown, NY	SHEET 1 OF 1
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: N/A DATUM: N/A
START DATE: 9/8/08 END DATE: 9/8/08

DRILLER: Robert
JCL GEOLOGIST: E. Detweiler
CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	4	1		NA	85%	@0': medium brown f Sandy SILT, little cmf Gravel, soft, dry (FILL)	
1	8			↓	↓	@0.8': crushed stone fragments (angular) (FILL)	
	8					@1.2': black to dark brown f SAND (foundry), some slag, little Fe oxide (FILL)	
2	6		2				0-2': 0
	3	2			40%	@2.1': rust-colored cm SAND, dry	
3	4				↓	@2.3': black f SAND (foundry), some Silt, dry (FILL)	
	5						
4	4		4				2-4': 0
	2	3			15%	@4.5': dark brown f Sandy SILT, trace mf Gravel, moist, with roots (FILL)	
5	6				↓		
	9						
6	3		6				4-6': 0
	8	4			2%		
7	4				↓		
	3						
8	3		8				6-8': 0
	11	5			20%	@8.5': dark brown to black Silty mf SAND(foundry), moist (FILL)	
9	7				↓		9': 0
	6					@9.3': with slag (green) (FILL)	
10	5		10				10': 3.6
	3	6			55%	@10.5': as above (8.5') with wood, slag, Fe oxide (FILL)	
11	4				↓		11': 1.0
	1						
12	1		12				12': 0
	1	7			35%		
13	1				↓		13': 0
	1						
14	1		14				14': 0
	3	8			20%		
15	1				↓		15': 40
	1						
16	2		16			@15.9': black Silty mf SAND (foundry), moist, black discoloration, petroleum odor (FILL)	15.9': 170
	1	9			20%	@16.3': saturated	16.5': 90
17	50/0.2'		16.7		↓		
						Total Depth = 16.7' bgs	
18							
19							
20							

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

Split spoon refusal at 16.7' bgs; auger refusal at 16.9' bgs

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	BORING: SB-21
City of Watertown, NY	SHEET OF
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: N/A DATUM: N/A
START DATE: 9/8/08 END DATE: 9/8/08

DRILLER: Robert
JCL GEOLOGIST: E. Detweiler
CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	NA			NA	NA	0-0.5': concrete slab	
1	↓			↓	↓	@0.5': 1.5' void (0.5-2' bgs)	
2			2			@2': grey mf GRAVEL, limestone fragments, dry (FILL)	0-2': 0
	15	1			25%	@2.5': medium brown Silty SAND, some mf Gravel, dry (FILL)	
3	27				↓	@2.75': weathered limestone, trace Silt, moist	
	50/0.3'		3.3				2-3.3': 0
4						Total Depth = 3.3' bgs	
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

Split spoon and auger refusal at 3.3' bgs
No indications of contamination

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	BORING: SB-22
City of Watertown, NY	SHEET OF
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: N/A DATUM: N/A
START DATE: 9/8/08 END DATE: 9/8/08

DRILLER: Robert
JCL GEOLOGIST: E. Detweiler
CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	NA			NA	NA	0-0.5': concrete	
1	↓	1	1	↓	↓	@0.5': 0.5' void (0.5'-1')	
	5				5%	@1': grey mf SAND and mf Gravel (rounded) (FILL), weathered limestone fragments, dry	
2	10				↓		
	10						
3	50/0.25'		2.75'				1-2.75': 0
4						Total Depth = 2.75' bgs	
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

Split spoon and auger refusal at 2.75' bgs
No indication of contamination

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	BORING: SB-23
City of Watertown, NY	SHEET 1 OF 1
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN
DRILLER: Robert
GROUND SURFACE ELEVATION: N/A DATUM: N/A
JCL GEOLOGIST: E. Detweiler
START DATE: 9/8/08 END DATE: 9/8/08
CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	10	1		NA	20%	@0': 3" crushed stone (angular), dry (FILL)	
1	14			↓	↓	@0.25': black Silty mf SANF (foundry), little cmf Gravel, trace brick, crushed limestone frags, dry (FILL)	
	12						
2	28		2				0-2': 0
	50/0.2'	2	2.2		100%		2.2': 0
3						Total Depth = 2.2' bgs	
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

Split spoon and auger refusal at 2.2' bgs
No indications of contamination

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	BORING: SB-24
City of Watertown, NY	SHEET 1 OF 1
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: N/A DATUM: N/A
START DATE: 9/8/08 END DATE: 9/8/08

DRILLER: Robert
JCL GEOLOGIST: E. Detweiler
CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	NA			NA		0-0.5': concrete	
1	50/0.5'	1	1	↓	75%	@0.5': dark brown Silty mf SAND (foundry), some cmf Gravel, loose, dry, limestone fragments	0-1': 0
2						Total Depth = 1.0' bgs	
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

Split spoon and auger refusal at 1.0' bgs
No indication of contamination

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	BORING: SB-25
City of Watertown, NY	SHEET 1 OF 1
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: N/A DATUM: N/A
START DATE: 9/8/08 END DATE: 9/8/08

DRILLER: Robert
JCL GEOLOGIST: E. Detweiler
CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	NA	1		NA	5%	0-0.5': concrete	
1	1			↓	↓	@0.5': dark brown Silty mf SAND (foundry), some mf Gravel, slag, crushed sone, dry (FILL)	
	1						
2	1		2				0-2': 0
	2	2			40%	@2.5': light brown mf SAND, trace brick, crushed limestone(angular), loose, dry (FILL)	
3	1				↓		
	1						
4	2		4			@4': light brown cmf SAND(well graded), trace cmf Gravel (rounded), dry (FILL)	2-4': 0
	5	3			75%		
5	4				↓		
	1						
6	1		6				4-6': 0
	5	4			33%		
7	2				↓	@6.9': pushed spoon into weathered limestone, mf SAND on top of rock, moist	7': 0
	50/0.2'		7.2				
8						Total Depth = 7.2' bgs	
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

Split spoon and auger refusal at 7.2' bgs
No indications of contamination

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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Pittsford, NY 14534

PROJECT	BORING: SB-26
City of Watertown, NY	SHEET 1 OF 1
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: N/A DATUM: N/A
START DATE: 9/9/08 END DATE: 9/9/08

DRILLER: Robert
JCL GEOLOGIST: E. Detweiler
CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	1	1		NA	30%	@0': medium brown Silty mf SAND, moist (FILL)	
1	20			↓	↓	@0.3': grey weathered limestone with Silt, dry (FILL)	
	40						
2	20		2				0-2': 0
	9	2			45%		
3	7				↓		
	5						
4	6		4			@3.8': medium brown SILT, trace f Sand, trace mf Gravel (sub-rounded - angular),moist (FILL)	2-4': 0
	9	3			25%		
5	5				↓	@5': light brown f Sand and SILT, some cmf Gravel (rounded), moist	
	3						
6	3		6			@6': orange-brown Silty m SAND, loose, moist	4-6': 0
	34	4			45%		
7	3				↓		
	6						
8	3		8			@7.7': light brown Sandy SILT, soft, moist, weathered limestone in shoe	6-8': 0
	1	5			0%		
9	↓				↓		
	↓						
10	↓		10			@10': grey-brown Sandy SILT, little mf Gravel, trace brick (FILL), moist, augered through void	8-10': 0
	1	6			45%		
11	↓				↓		
	1						
12	1		12				10-12': 0
	2	7			40%		
13	3				↓		
	2						
14	2		14				12-14': 0
	5	8			50%		
15	3				↓		
	14						
16	34		16				14-16': 0
	50/0.2'	9	16.2				16.2': 0
17						Total Depth = 16.2' bgs	
18							
19							
20							

LEGEND
S- ON SOIL SAMPLE
U- BED SOIL SAMPLE
C- CORE SAMPLE

Split spoon refusal at 16.2'; auger refusal at 16.5'
No indications of contamination; in 1st attempt encountered concrete @ 4' bgs (former bridge deck)
Destroyed split spoon by driving it into bedrock fracture at 16' (over-drilled with augers to remove)
PID reading of 0 ppm inside HSA's at 16.5' bgs

GENERAL NOTES:
1) NDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
TORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

BORING # SB-26

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PROJECT	BORING: SB-27
City of Watertown, NY	SHEET 1 OF 1
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN

DRILLER: Robert
GROUND SURFACE ELEVATION: N/A DATUM: N/A
JCL GEOLOGIST: E. Detweiler
START DATE: 9/9/08 END DATE: 9/9/08

CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	4	1		NA	25%	0-0.5': medium brown topsoil, moist	
1	8			↓	↓	@0.5': light brown Silty f SAND, some cmf Gravel (angular), loose, dry (FILL)	
	10						
2	10		2			@2': dark brown Sandy SILT, some Gravel, slag (FILL)	0-2': 0
	3	2			40%		
3	4				↓		
	5						
4	3		4			@3.75': black f SAND with slag, moist (FILL)	2-4': 0
	7	3			0%	@4': may have pushed a rock (no recovery)	
5	8				↓		
	7						
6	7		6			@6': dark brown Sandy SILT, some mf Gravel (angular), some slag, moist (FILL)	4-6': 0
	3	4			55%		
7	3				↓	@7': weathered limestone	
	50/0.3'		7.3				6-7.3': 0
8							
9						Total Depth = 7.3' bgs	
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

LEGEND
S-)ON SOIL SAMPLE
U- BED SOIL SAMPLE
C- :ORE SAMPLE

Split spoon refusal at 7.3' bgs; stopped augering at 7.4' bgs (limestone fragments in cuttings)
No indications of contamination

GENERAL NOTES:
1) NDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
TORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

BORING # SB-27

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PROJECT	BORING: SB-28
City of Watertown, NY	SHEET 1 OF 1
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN
DRILLER: Robert
GROUND SURFACE ELEVATION: N/A DATUM: N/A
JCL GEOLOGIST: E. Detweiler
START DATE: 9/9/08 END DATE: 9/9/08

CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	1	1		NA	48%	@0': black Silty f SAND, some cmf Gravel (angular), little crushed stone, with roots, dry (FILL)	
1	2			↓	↓	@1': medium brown Sandy SILT, trace mf Gravel (rounded), moist (FILL)	
	2						
2	2		2			@2': no recovery (may have pushed stone)	0-2': 0
	2	2			0%		
3	2				↓		
	2						
4	4		4			@4': as above (1')	2-4': 0
	6	3			5%		
5	4				↓		
	2						
6	2		6			@6': no recovery	4-6': 0
	3	4			1%		
7	3				↓		
	3						
8	4		8			@8': as above (1'), no saturation, weathered limestone in shoe	6-8': 0
	8	5			45%		
9	10		9		↓		8-9': 0
	50/0'						
10						Total Depth = 9.0' bgs	
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

LEGEND
S-)ON SOIL SAMPLE
U- BED SOIL SAMPLE
C- :ORE SAMPLE

Split spoon and auger refusal at 9.0'
No indications of contamination

GENERAL NOTES:
1) NDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
TORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

BORING # SB-28

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PROJECT	BORING: SB-29
City of Watertown, NY	SHEET 1 OF 1
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN
DRILLER: Robert
GROUND SURFACE ELEVATION: N/A DATUM: N/A
JCL GEOLOGIST: E. Detweiler
START DATE: 9/9/08 END DATE: 9/9/08
CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	2	1		NA	90%	@0': black mf SAND (foundry), some slag, cinder & coke, loose, dry (FILL)	
1	2			↓	↓		
	2						
2	4		2			@1.75': moist	0-2': 0
	5	2			0%		
3	5				↓		
	6						
4	4		4			@4': medium brown SILT, some cmf Gravel, little f Sand (foundry), slag, brick, moist (FILL)	2-4': 0
	12	3			50%		
5	4				↓		
	6						
6	6		6				4-6': 0
	6	4			70%		
7	6				↓		
	7						
8	8		8				6-8': 0
	2	5			60%		
9	2				↓		
	2						
10	3		10				8-10': 0
	1	6			100%		
11	2				↓		
	2						
12	7		12			@12': brick stuck in shoe	10-12': 0
	5	7			10%	@12.5': pushed limestone in shoe	
13	6				↓		
	7						
14	5		14				12-14': 0
	2	8			50%	@14.5': wethered limestone fragments (likely bedrock)	
15	50/0.2'		14.7		↓		14.7': 0
16						Total Depth = 14.7' bgs	
17							
18							
19							
20							

LEGEND
S-)ON SOIL SAMPLE
U- BED SOIL SAMPLE
C- :ORE SAMPLE

Split spoon and auger refusal at 14.7' bgs
No indications of contamination

GENERAL NOTES:
1) NDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
TORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

BORING # SB-29

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PROJECT	BORING: SB-30
City of Watertown, NY	SHEET 1 OF 1
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN
DRILLER: Robert
GROUND SURFACE ELEVATION: N/A DATUM: N/A
JCL GEOLOGIST: E. Detweiler
START DATE: 9/9/08 END DATE: 9/9/08

CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	4	1		NA	85%	@0': black mf SAND (foundry), little cm Gravel (angular), slag, coke, cinders, dry (FILL)	
1	5			↓	↓		
	7						
2	3		2				0-2': 0
	1	2			10%		
3	1				↓		
	1						
4	1		4			@4': pushed stone in shoe (no recovery)	2-4': 0
	1	3			0%		
5	↓				↓		
	1						
6	1		6				4-6': 0
	3	4			10%		
7	2				↓	@7': as above with wood, glass shards, brick fragments (FILL)	
	1						
8	4		8				6-8': 0
	2	5			30%		
9	1				↓		
	2						
10	8		10				8-10': 0
	5	6			60%		
11	5				↓		11': 0
	5						11.5': 3.5
12	3		12				12': 2.8
	5	7			35%		
13	4				↓		13': 5
	1						13.5': 28
14	2		14				14': 0
	5	8			50%		
15	5				↓	@15': 3" crushed stone layer (FILL)	15': 0
	6						15.5': 15
16	7		16				16': 0
	2	9			60%		
17	3				↓	@16.8': wood (peat-like)	17': 0
	2					@17.5': light grey mf Gravel (FILL)	
18	3		18				18': 0
	8	10			45%		
19	7				↓		19': 0
	2					@19.2': wet	19.5': 0
20	50/0.1'		19.6			Total depth = 19.6' bgs	

LEGEND
S-)ON SOIL SAMPLE
U- BED SOIL SAMPLE
C- :ORE SAMPLE

Split spoon refusal at 19.6' bgs
No visual indications of contamination; PID reading inside HSA's at 14' bgs = 0 ppm
PID reading inside HSA's at 18' bgs = 0 ppm

GENERAL NOTES:
1) NDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
TORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	BORING: SB-31
City of Watertown, NY	SHEET 1 OF 1
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: N/A DATUM: N/A
START DATE: 9/10/08 END DATE: 9/10/08

DRILLER: Robert
JCL GEOLOGIST: E. Detweiler
CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	5	1		NA	70%	@0': black Silty mf SAND (foundry), some slag & coke, little cmf Gravel, dry (FILL)	
1	2			↓	↓		
	2						
2	3		2				0-2': 0
	15	2			90%		
3	23				↓		3': 0
	14					@3.5': no odor, black, dry	3.5': 10
4	32		4			@4': as above (0')	
	6	3			60%		
5	8				↓		
	4						
6	6		6				4-6': 0
	4	4			40%		
7	8				↓		
	10						
8	4		8				6-8': 0
	6	5			35%		
9	3				↓		
	6						
10	10		10				8-10': 0
	6	6			50%		
11	2				↓		
	1					@11.5': moist	
12	4		12				10-12': 0
	4	7			85%		
13	2				↓	@13': wood	
	5						
14	3		14				12-14': 0
	3	8			85%	@14.2': olive Silty f SAND, loose, moist (native)	
15	2				↓	@14.6': saturated	
	50/0.4'		15.4			@15.4': weathered limestone fragments in shoe	14-15.4':0
16						Total Depth = 15.4' bgs	
17							
18							
19							
20							

LEGEND
S-)ON SOIL SAMPLE
U- BED SOIL SAMPLE
C- :ORE SAMPLE

Split spoon refusal at 15.4' bgs
No visual indications of contamination

GENERAL NOTES:
1) NDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
TORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

BORING # SB-31

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PROJECT	BORING: SB-32
City of Watertown, NY	SHEET 1 OF 1
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN
DRILLER: Robert
GROUND SURFACE ELEVATION: N/A DATUM: N/A
JCL GEOLOGIST: E. Detweiler
START DATE: 9/10/08 END DATE: 9/10/08
CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	7	1		NA	85%	@0': black Silty mf SAND (foundry), some mf Gravel (rounded & angular), slag, dry (FILL)	
1	8			↓	↓		
	17					@1.4': as above but with c Gravel	
2	18		2				0-2': 0
	12	2			14%		
3	9				↓	@3': as above, little Fe oxide	
	17						
4	24		4			@4': black f SAND (foundry), brick fragments in shoe (FILL)	2-4': 0
	5	3			72%		
5	7				↓		
	8						
6	8		6				4-6': 0
	10	4			40%		
7	19				↓		
	9					@7.1': crushed dolostone layer (FILL)	
8	8		8				6-8': 0
	6	5			50%	@8.5': 10" crushed limestone	
9	7				↓		
	5						
10	9		10				8-10': 0
	4	6			65%	@10.2': crushed limestone, some dark brown Silty mf Sand	
11	16				↓	@11': light petroleum odor, moist, silty sand lense	11': 10
	12						
12	30		12			@12': dark grey Silty f SAND, loose, moist, petroleum odor	12': 85
	32	7			60%		
13	45				↓		13': 67
	18					@13.5': limestone fragments, dry	
14	50/0.4'		13.9			@13.7': Silt & Sand lense, moist	13.9': 40
15						Total Depth = 13.9' bgs	
16							
17							
18							
19							
20							

LEGEND
S- ON SOIL SAMPLE
U- BED SOIL SAMPLE
C- CORE SAMPLE

Split spoon refusal at 13.9" bgs
PID reading down borehole with augers removed = 8.1 ppm peak

GENERAL NOTES:
1) NDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
TORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	BORING: SB-33
City of Watertown, NY	SHEET 1 OF 1
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: N/A DATUM: N/A
START DATE: 9/10/08 END DATE: 9/10/08

DRILLER: Robert
JCL GEOLOGIST: E. Detweiler
CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	4	1		NA	80%	@0': black Silty f SAND, little mf Gravel & brick, slag, loose, dry (FILL)	
1	4			↓	↓		
	2						
2	4		2				0-2': 0
	4	2			70%		
3	2				↓		
	4						
4	5		4				2-4': 0
	5	3			40%		
5	3				↓		
	5					@5.2': as above but tan	
6	4		6			@5.7': as above but medium brown	4-6': 0
	1	4			35%	@6': as above but black with dolostone fragments	
7	1				↓		
	3						
8	3		8			@8': crushed dolostone, some rust-brown Silt and f Sand, loose, dry (FILL)	6-8': 0
	9	5			50%		
9	12				↓		
	9						
10	7		10				8-10': 0
	9	6			38%		
11	11				↓	@11.1': with brick fragments, roots (FILL)	
	8					@11.5': weathered limestone	
12	4		12				
	50/0.3'	7	12.3		80%	@12.3': dry	10-12.3':0
13						Total Depth = 12.3' bgs	
14							
15							
16							
17							
18							
19							
20							

LEGEND
S- ON SOIL SAMPLE
U- BED SOIL SAMPLE
C- CORE SAMPLE

Auger into weathered bedrock at 11.5' to 12'; drive spoon at 12' to refusal at 12.3' bgs
PID reading inside HSAs at 12' bgs = 0 ppm

GENERAL NOTES:
1) NDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
TORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	BORING: SB-34
City of Watertown, NY	SHEET 1 OF 2
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: N/A DATUM: N/A
START DATE: 9/10/08 END DATE: 9/10/08

DRILLER: Robert
JCL GEOLOGIST: E. Detweiler
CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
		1		NA	90%	@0': black mf SAND, some Silt and cmf Gravel (angular), loose, dry (FILL)	
1				↓	↓		
2			2				0-2': 0.0
		2			20%	@2.5': 3" lense of red-brown SAND (foundry), slag, loose (FILL)	
3					↓		
4			4				2-4' 0.0
		3			0%		
5					↓		
6			6				4-6': 0.0
		4			2%		
7					↓		
8			8			@7.9': black Silty mf SAND (foundry), some f Gravel and slag, dry (FILL)	6-8': 0.0
		5			85%	@8.2': moist	
9					↓		
						@9.5': grey crushed stone and green slag	
10			10				8-10': 0
		6			80%		
11					↓		
12			12			@12': orange-brown Silty mf SAND (foundry) with mf Gravel, slag, FE oxide, moist (FILL)	10-12': 0
		7			70%		
13					↓		
14			14				12-14': 0
		8			40%		
15					↓	@15': crushed dolostone	
16			16				14-16': 0
		9			60%	@16.5': grey-brown Silty mf SAND (foundry), little mf Gravel, moist to wet	
17					↓		
18			18				16-18': 0
		10			45%		
19					↓		
						@19.2': crushed dolostone	
20			20				18-20': 0

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	BORING: SB-34
City of Watertown, NY	SHEET 2 OF 2
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: N/A DATUM: N/A
START DATE: 9/10/08 END DATE: 9/10/08

DRILLER: Robert
JCL GEOLOGIST: E. Detweiler
CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	3	11		NA	8%		
21	7			↓	↓		
	11					@21.6': wet	
22	27		22			@21.8': grey weathered limestone (likely bedrock)	20-22': 0
23						Total Depth = 22.0' bgs	
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

Split spoon & auger refusal @ 22.0' bgs (weathered limestone)
PID reading inside HSAs at 20' bgs = 0 ppm

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	BORING: SB-35
City of Watertown, NY	SHEET 1 OF 1
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN
DRILLER: Robert
GROUND SURFACE ELEVATION: N/A DATUM: N/A
JCL GEOLOGIST: E. Detweiler
START DATE: 9/11/08 END DATE: 9/11/08
CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	2	1		NA	90%	@0': black f Sand and SILT, some cmf Gravel, slag, dry (FILL)	
1	4			↓	↓		
	5						
2	5		2			@2': medium brown SILT, little f Sand, soft, moist (FILL)	0-2': 0
	4	2			85%		
3	3				↓		
	4						
4	4		4			@4': as above with little mf Gravel, little Fe mottling	2-4': 0
	1	3			55%		
5	2				↓		
	2						
6	2		6				4-6': 0
	3	4			60%		
7	4				↓		
	3						
8	4		8				6-8': 0
	3	5			75%		
9	3				↓		
	2						
10	3		10				8-10': 0
	1	6			50%		
11	2				↓		
	2						
12	4		12				10-12': 0
	2	7			45%	@12.5': as above (2') but light brown, low plasticity	
13	2				↓		
	3						
14	4		14				12-14': 0
	2	8			40%		
15	3				↓		
	3						
16	5		16				14-16': 0
	3	9			50%		
17	3				↓	@17': as above (2') with some m Gravel, some cm Sand, stone fragments	
	3						
18	4		18				16-18': 0
	3	10			40%	@18.5': as above but trace f Gravel, firm	
19	3				↓		
	3						
20	4		20				18-20': 0

LEGEND
S-)ON SOIL SAMPLE
U- BED SOIL SAMPLE
C- :ORE SAMPLE

Total Depth = 20' bgs

Split spoon and auger refusal at 20' bgs; PID reading inside HSAs at 20' = 0 ppm

GENERAL NOTES:
1) NDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
TORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	BORING: SB-36
City of Watertown, NY	SHEET 1 OF 2
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: N/A DATUM: N/A
START DATE: 9/11/08 END DATE: 9/11/08

DRILLER: Robert
JCL GEOLOGIST: E. Detweiler
CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
		1		NA	50%	@0': black mf SAND (foundry), some Silt, little brick fragments, loose, dry (FILL)	
1				↓	↓	@1': crushed concrete and stone (FILL)	
2			2				0-2': 0.0
		2			25%		
3					↓		
4			4				2-4' 0.0
		3			5%	@4.5': black Sandy SILT, trace brick and crushed concrete, soft, moist (FILL)	
5					↓		
6			6			@6': crushed stone, gravel and concrete (FILL)	4-6': 0.0
		4			3%		
7					↓		
8			8				6-8': 0.0
		5			3%		
9					↓		
10			10				8-10': 0
		6			25%		
11					↓	@11': black & brown Silty f SAND (foundry), some mf Gravel, moist (FILL)	
12			12				10-12': 0
		7			50%		
13					↓		
14			14				12-14': 0
		8			100%		
15					↓		
16			16				14-16': 0
		9			75%		
17					↓		
18			18				16-18': 0
		10			40%	@18.5': as above with little cmf Gravel (rounded), soft, wet, Fe mottling	
19					↓		
20			20				18-20': 0

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	BORING: SB-36
City of Watertown, NY	SHEET 2 OF 2
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: N/A DATUM: N/A
START DATE: 9/11/08 END DATE: 9/11/08

DRILLER: Robert
JCL GEOLOGIST: E. Detweiler
CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	3	11		NA	80%	as above	
21	50/0.4'		20.9	↓	↓		20-20.9':0
22						Total Depth = 20.9' bgs	
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

Split spoon refusal @ 20.9' bgs (weathered limestone); stop augering at 20'
PID reading inside HSAs at 20' bgs = 0 ppm

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	BORING: SB-37
City of Watertown, NY	SHEET 1 OF 1
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: N/A DATUM: N/A
START DATE: 9/11/08 END DATE: 9/11/08

DRILLER: Robert
JCL GEOLOGIST: E. Detweiler
CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NA

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	NA	1		NA	45%	0-0.5': asphalt	
1	3			↓	↓	@0.5': black SILT, some mf Sand and cmf Gravel, soft, dry (FILL)	
	3						
2	4		2			@2': black slag and f SAND (foundry), some Silt, Fe oxide, dry (FILL)	0-2': 0
	6	2			70%		
3	5				↓		
	4						
4	6		4				2-4': 0
	3	3			45%		
5	2				↓	@5': moist	
	1						
6	1		6				4-6': 0
	3	4			30%		
7	3				↓		
	3						
8	3		8				6-8': 0
	8	5			15%	@8.5': 2" layer of dolostone fragments	
9	8				↓	@8.7': black f SAND (foundry), some mf Gravel, slag, moist (FILL)	9': 3.4
	12						
10	4		10				10': 0
	3	6			70%		
11	4				↓		11': 6
	3						
12	4		12				12': 0
	4	7			50%		
13	2				↓	@13': wood chips(plywood-like, entire recovery) (FILL)	
	4						
14	2		14				12-14': 0
	2	8			90%		
15	2				↓	@14.7': black Silty f SAND, weathered limestone, moist (FILL)	
	50/0.5'		15.5			@15.3': weathered limestone, dry	14-15.5':0
16						Total Depth = 15.5' bgs	
17							
18							
19							
20							

LEGEND
S-)ON SOIL SAMPLE
U- BED SOIL SAMPLE
C- :ORE SAMPLE

Split spoon and auger refusal at 15.5' bgs
No indications of contamination, PID readings may be related to wood

GENERAL NOTES:
1) NDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
TORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

BORING # SB-37

TEST PIT LOGS 2008

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Test Pit Log

Test Pit No. TP-01

Equipment Used: excavator 250

Weather: sunny Temp.: 65°

Field Engineer/Geologist: RCM

Test Pit Dimensions: 10' x 5' x 5'
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/8/08

Depth	PID Reading	Description
0-1'	0.0 ppm	Topsoil with fill and debris
1-4'	0.0 ppm	Fill intermixed with weathered bedrock (2-4' bgs)
4-5'	0.0 ppm	Bedrock with med-brown SILT and SAND in fractures

Comments

- ❑ No rock encountered; or
- ✓ Rock encountered at 4 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ✓ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks:

PID headspace reading = 0.0 ppm

Approx. 2' weathered bedrock

Collect sample SI-TP-01 @ 4' bgs

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Test Pit Log

Test Pit No. TP-02

Project: Sewall's Island RI

Equipment Used: Excavator 250

Lu Project No.: 34202

Weather: sunny Temp.: 65°

Date: 9/8/08

Field Engineer/Geologist: RCM

Test Pit Dimensions: 10' x 10' x 15'
Length Width Depth

Depth	PID Reading	Description
0 - 0.5'	-	Concrete slab
0.5 - 5'	-	Fill to depth of sewer pipe
5 – 15'	-	Fill; slag chunks in bottom

Comments

- ✓ No rock encountered; or
- ❑ Rock encountered at 4 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ✓ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks:

PID headspace reading = 0.0

Sewer pipe runs along concrete footer wall of fmr. building to bridge abutment.

Collect sediment/soil samples from inside and below joint in sewer pipe.

Sample SI-TP-02 @ 15' bgs; SI-TP-02A @ 1' bgs

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Test Pit Log

Test Pit No. TP-03

Equipment Used: Excavator 250

Weather: sunny Temp.: 65°

Field Engineer/Geologist: RCM

Test Pit Dimensions: 10' x 20' x 10'
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/8/08

Depth	PID Reading	Description
0 – 10'	0.0 ppm	Brick, demolition debris, and concrete in bottom

Comments

- ✓ No rock encountered; or
- ❑ Rock encountered at _____ feet
- ❑ Perch/Seepage water encountered at _____ feet
- ✓ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: _____

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Test Pit Log

Test Pit No. TP-04

Equipment Used: Excavator 250

Weather: sunny Temp.: 65°

Field Engineer/Geologist: RCM

Test Pit Dimensions: 12' x _____ x 6'
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/8/08

Depth	PID Reading	Description
0 – 6'	0.0 ppm	Fill, brick. Bedrock @ 6' bgs.

Comments

- ❑ No rock encountered; or
- ✓ Rock encountered at 6 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ✓ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: _____

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Test Pit Log

Test Pit No. TP-05

Equipment Used: Excavator 250

Weather: sunny Temp.: 65°

Field Engineer/Geologist: RCM

Test Pit Dimensions: 10' x 5' x 3'
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/8/08

Depth	PID Reading	Description
0 – 3'	0.0 ppm	Fill: brick, wood, dark brown cmf SAND

Comments

- ❑ No rock encountered; or
- ✓ Rock encountered at 3 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ✓ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks:

PID headspace reading = 0.0 ppm

Sample SI-TP-05 collected @ 2' bgs

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Test Pit Log

Test Pit No. TP-06

Equipment Used: Excavator 250

Weather: sunny Temp.: 65°

Field Engineer/Geologist: RCM

Test Pit Dimensions: 20' x 20' x 5'
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/8/08

Depth	PID Reading	Description
0 – 0.5'	0.0 ppm	Concrete equipment pad
0.5 – 5'	0.0 ppm	Black stained sandy Fill, some slag, slight odor

Comments

- ❑ No rock encountered; or
- ✓ Rock encountered at 5 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ✓ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks:

PID headspace reading = 0.0 ppm

Sample SI-TP-06 collected @ 4' below concrete pad

Bottom of concrete pit sits on bedrock

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Test Pit Log

Test Pit No. TP-07

Equipment Used: Excavator 250

Weather: sunny Temp.: 65°

Field Engineer/Geologist: RCM

Test Pit Dimensions: 15' x 10' x 7'
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/8/08

Depth	PID Reading	Description
0 – 7'	0.0 ppm	Fill: brick and debris; overgrown with sumac roots

Comments

- ❑ No rock encountered; or
- ✓ Rock encountered at 7 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ✓ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks:

4 pipes running east to west across test pit: 1- 4" cast iron, 2 – 2" iron, 1- ½" pipe

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Test Pit Log

Test Pit No. TP-08

Equipment Used: Excavator 250

Weather: sunny Temp.: 65°

Field Engineer/Geologist: RCM

Test Pit Dimensions: 10' x 5' x 5'
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/8/08

Depth	PID Reading	Description
0 – 5'	0.0 ppm	Fill. At least 5 various diameter pipes ranging from < ½" to 4" encountered.
5 – 5.5'	0.0 ppm	Light brown SAND, wet. Black staining (no odor) above sand.

Comments

- ❑ No rock encountered; or
- ✓ Rock encountered at 5.5 feet
- ✓ Perch/Seepage water encountered at 5.5 feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks:

PID headspace reading = 0.0 ppm under pipes; 4.3 ppm on top of bedrock

Collect sample SI-TP-08 @ 5.5' bgs

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Test Pit Log

Test Pit No. TP-09

Equipment Used: Excavator 250

Weather: rain Temp.: 60°

Field Engineer/Geologist: RCM

Test Pit Dimensions: 10' x 5' x 3.5'
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/9/08

Depth	PID Reading	Description
0 – 0.5'	0.0 ppm	Concrete slab
0.5 – 3'	0.0 ppm	Fill: med. brown SAND with a black, stained layer of slag
3 – 3.5'	0.0 ppm	Fractured limestone bedrock

Comments

- ❑ No rock encountered; or
- ✓ Rock encountered at 3 feet
- ❑ Perch/Seepage water encountered at 5.5 feet
- ✓ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks:

PID headspace reading = 0.0 ppm

Collect sample SI-TP-09 @ 3' bgs

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Test Pit Log

Test Pit No. TP-10

Equipment Used: 250 Excavator

Weather: rain Temp.: 60°

Field Engineer/Geologist: RCM

Test Pit Dimensions: 10' x 5' x 3.0'
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/9/08

Depth	PID Reading	Description
0 – 0.5'	0.0 ppm	Concrete slab
0.5 – 2.5'	0.0 ppm	Fill: bricks, black slag/cinders layered with med. brown SAND
2.5 – 3.0'	0.0 ppm	Fractured bedrock

Comments

- ❑ No rock encountered; or
- ✓ Rock encountered at 3 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ✓ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: _____

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Test Pit Log

Test Pit No. TP-11

Equipment Used: 250 Excavator

Weather: rain Temp.: 60°

Field Engineer/Geologist: RCM

Test Pit Dimensions: 10' x 5' x 3.0'
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/9/08

Depth	PID Reading	Description
0 – 0.5'	0.0 ppm	Concrete slab
0.5 – 2.5'	0.0 ppm	Fill: bricks, black slag layer with med. brown SAND
2.5 – 3.0'	0.0 ppm	Fractured bedrock

Comments

- ❑ No rock encountered; or
- ✓ Rock encountered at 3 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ✓ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks:

PID headspace reading = 0.0 ppm

Collect sample SI-TP-11 @ 2.5' bgs

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Test Pit Log

Test Pit No. TP-12

Equipment Used: 250 Excavator

Weather: rain Temp.: 60°

Field Engineer/Geologist: RCM

Test Pit Dimensions: 10' x 5' x 3.5'
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/9/08

Depth	PID Reading	Description
0 – 2.5'	0.0 ppm	Fill and brick layer; sandy
2.5 – 3.0'	0.0 ppm	Black slag layer
3.0 – 3.5'	0.0 ppm	Fractured bedrock

Comments

- ❑ No rock encountered; or
- ✓ Rock encountered at 3.5 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ✓ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks:

PID headspace reading = 0.0 ppm

Collect sample SI-TP-12 @ 2.5' bgs

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Test Pit Log

Test Pit No. TP-13

Equipment Used: 250 Excavator

Weather: rain Temp.: 60°

Field Engineer/Geologist: RCM

Test Pit Dimensions: 15' x 15' x 18'
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/9/08

Depth	PID Reading	Description
0 – 5'	0.0 ppm	Fill, wood, brick, and metal debris
5 - 18'	0.0 ppm	Fill with concrete slab pieces.

Comments

- ❑ No rock encountered; or
- ✓ Rock encountered at 18 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ✓ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks:

Concrete foundation walls lining inside of test pit – former basement

Collect sample SI-TP-13 @ 18' bgs

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Test Pit Log

Test Pit No. TP-14

Equipment Used: 250 Excavator

Weather: rain Temp.: 60°

Field Engineer/Geologist: RCM

Test Pit Dimensions: 15' x 10' x 8'
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/9/08

Depth	PID Reading	Description
0 – 6'	0.0 ppm	Fill: brick, concrete, metal
6 – 6.5'	0.0 ppm	Old concrete floor to basement?
6.5 – 7.5'	0.0 ppm	Sub-floor drain
7.5 – 8'	0.0 ppm	Fill on top of bedrock

Comments

- ❑ No rock encountered; or
- ✓ Rock encountered at 8 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ✓ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks:

Test pit completed in low point of building debris pile – former basement.

Fill approximately 6' deep. Collect sample SI-TP-14 @ 6' bgs, in and under clay drainage pipe.

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Test Pit Log

Test Pit No. TP-15

Equipment Used: 250 Excavator

Weather: rain Temp.: 60°

Field Engineer/Geologist: RCM

Test Pit Dimensions: 10' x 10' x 18'
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/9/08

Depth	PID Reading	Description
0 – 18'	0.0 ppm	Fill: black foundry sand intermixed with debris, brick, block footers, and concrete slab pieces.

Comments

- ❑ No rock encountered; or
- ✓ Rock encountered at 18 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ✓ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: _____

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Test Pit Log

Test Pit No. TP-16

Project: Sewall's Island RI

Equipment Used: 250 Excavator

Lu Project No.: 34202

Weather: rain Temp.: 60°

Date: 9/9/08

Field Engineer/Geologist: RCM

Test Pit Dimensions: 5' x 5' x 2'
Length Width Depth

Depth	PID Reading	Description
0 – 1'	0.0 ppm	Fill
1 – 2'		Fractured limestone bedrock

Comments

- ❑ No rock encountered; or
- ✓ Rock encountered at 2 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ✓ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: _____

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Test Pit Log

Test Pit No. TP-17

Equipment Used: 250 Excavator

Weather: rain Temp.: 60°

Field Engineer/Geologist: RCM

Test Pit Dimensions: 5' x 5' x 4'
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/9/08

Depth	PID Reading	Description
0 – 3'	0.0 ppm	Fill, foundry sand, and brick
3 - 4'	0.0 ppm	Weathered limestone bedrock

Comments

- ❑ No rock encountered; or
- ✓ Rock encountered at 3-4 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ✓ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: _____

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Test Pit Log

Test Pit No. TP-18

Equipment Used: 250 Excavator

Weather: rain Temp.: 60°

Field Engineer/Geologist: RCM

Test Pit Dimensions: 10' x 10' x 4'
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/9/08

Depth	PID Reading	Description
0 – 2'	0.0 ppm	Building debris
2 – 4'	0.0 ppm	Concrete slab and footer
4'	0.0 ppm	Fractured bedrock

Comments

- ❑ No rock encountered; or
- ✓ Rock encountered at 4 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ✓ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: _____

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Test Pit Log

Test Pit No. TP-19

Project: Sewall's Island RI

Equipment Used: 250 Excavator

Lu Project No.: 34202

Weather: rain Temp.: 60°

Date: 9/9/08

Field Engineer/Geologist: RCM

Test Pit Dimensions: 10' (Length) x 5' (Width) x 10' (Depth)

Depth	PID Reading	Description
0 – 1'	0.0 ppm	Rail timbers and ballast
1 – 2'	0.0 ppm	Fill- med-brown sandy SILT
2 - 9'	0.0 ppm	Light to med-brown sandy SILT
9 – 10'	0.0 ppm	Dark brown SAND and SILT little f-gravel and fractured limestone bedrock.

Comments

- ❑ No rock encountered; or
- ✓ Rock encountered at 10 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ✓ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks:

Test pit in rail line

Collect sample SI-TP-19 @ 9.5' bgs

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Test Pit Log

Test Pit No. TP-20

Equipment Used: 250 Excavator

Weather: partly sunny Temp.: 60°

Field Engineer/Geologist: RCM

Test Pit Dimensions: 15' x 5' x 15'
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/9/08

Depth	PID Reading	Description
0 – 15'	0.0 ppm	Fill- mostly foundry sand, slag, and building debris

Comments

- ❑ No rock encountered; or
- ✓ Rock encountered at 15 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ✓ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks:

Encountered approximately 4' diameter brick pipe (possibly a collapsed chimney).

Collect sample SI-TP-20 @ 12' bgs from foundry sand/slag inside chimney.

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Test Pit Log

Test Pit No. TP-21

Project: Sewall's Island RI

Equipment Used: 250 Excavator

Lu Project No.: 34202

Weather: partly sunny Temp.: 60°

Date: 9/9/08

Field Engineer/Geologist: RCM

Test Pit Dimensions: 10' (Length) x 5' (Width) x 18' (Depth)

Depth	PID Reading	Description
0 – 0.5'	0.0 ppm	Concrete slab
0.5 – 6'	0.0 ppm	Fill: dark brown foundry sand
6 – 6.5'	0.0 ppm	Pipe from river bank
6.5 – 17'	0.0 ppm	Fill: dark brown foundry sand and slag pieces
17 – 18'	30.5 ppm	Fill: black stained foundry sand/slag, petroleum odor, sheen on groundwater infiltrating test pit.

Comments

- ❑ No rock encountered; or
- ✓ Rock encountered at 18 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ✓ Ground water encountered at 17.5 feet

Remarks:

Test pit completed between fmr. building slab and river wall. Pulled sewer line from foundation wall and from river bank wall (approx.. 15-foot section). Pipe was empty with no odor. Contamination observed @ 17' bgs. PID headspace reading = 95 ppm

Collect sample SI-TP-21 @ 17.5' bgs

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Test Pit Log

Test Pit No. TP-22

Project: Sewall's Island RI

Equipment Used: 250 Excavator

Lu Project No.: 34202

Weather: cloudy Temp.: 60°

Date: 9/9/08

Field Engineer/Geologist: RCM

Test Pit Dimensions: 10' x 10' x 18' from top of upper foundation,14' from street level
Length Width Depth

Depth	PID Reading	Description
0 – 4'	0.0 ppm	Fill: building debris on top of foundation floor
4 – 4.5'	-	Concrete slab
4.5 – 6.5'	0.0 ppm	Black cinder layer mixed with slag
6.5 – 16'	60.4 ppm	Fill: foundry sand with fractured bedrock
16 – 18'	43.6 ppm	Fractured bedrock with stained sand; strong petroleum odor

Comments

- ❑ No rock encountered; or
- ✓ Rock encountered at 18 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ✓ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks:

Possible fill from bridge re-construction.

Collect sample SI-TP-21 @ 18' bgs

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Test Pit Log

Test Pit No. TP-23

Equipment Used: 250 Excavator

Weather: partly sunny Temp.: 60°

Field Engineer/Geologist: RCM

Test Pit Dimensions: 10' (Length) x 5' (Width) x 5.5' (Depth)

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/9/08

Depth	PID Reading	Description
0 – 0.5'	-	Concrete slab
0.5 – 5'	2.1 ppm	Fill: light brown to black/dark brown foundry sand; slight petroleum odor
5 – 5.5'	12.7 ppm	Fractured bedrock pieces and foundry sand; petroleum odor

Comments

- ❑ No rock encountered; or
- ✓ Rock encountered at 5.5 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ✓ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks:

Collect sample SI-TP-23 @ 5.5' bgs

Test pit adjacent to rail features in slab.

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Test Pit Log

Test Pit No. TP-24

Equipment Used: 250 Excavator

Weather: partly sunny Temp.: 60°

Field Engineer/Geologist: RCM

Test Pit Dimensions: 10' x 5' x 8-12'
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/9/08

Depth	PID Reading	Description
0 – 0.5'	0.0 ppm	Concrete slab
1.5 – 12'	0.0 ppm	Fill: slag and foundry sand; no odor

Comments

- ❑ No rock encountered; or
- ✓ Rock encountered at 8-12 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ✓ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks:

Collect sample SI-TP-24 @ 12' bgs

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Test Pit Log

Test Pit No. TP-25

Equipment Used: 250 Excavator

Weather: sunny Temp.: 60°

Field Engineer/Geologist: RCM

Test Pit Dimensions: 10' x 5' x 6'
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/10/08

Depth	PID Reading	Description
0 – 3'	0.0 ppm	Fill: foundry sand, concrete, brick
3 – 5'	0.0 ppm	Fill: brick layered with ash and cinders
5 – 5.5'	0.0 ppm	Old concrete floor
5.5 – 6'	0.0 ppm	Fractured limestone bedrock

Comments

- ❑ No rock encountered; or
- ✓ Rock encountered at 6 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ✓ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks:

Collect sample SI-TP-25 @ 4' bgs from mixed cinder and ash layer

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Test Pit Log

Test Pit No. TP-26

Equipment Used: 250 Excavator

Weather: sunny Temp.: 60°

Field Engineer/Geologist: RCM

Test Pit Dimensions: 10' x 5' x 6'
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/10/08

Depth	PID Reading	Description
0 – 1'	0.0 ppm	Fill: sand and gravel, brick
1 – 5'	0.0 ppm	Light brown SILT little Clay, hard
5 – 6'	0.0 ppm	Fill: Sand, ash, and gravel
6'	0.0 ppm	Bedrock

Comments

- ❑ No rock encountered; or
- ✓ Rock encountered at 6 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ✓ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks:

Collect sample SI-TP-26 @ 5.5' bgs

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Test Pit Log

Test Pit No. TP-27

Equipment Used: 250 Excavator

Weather: sunny Temp.: 60°

Field Engineer/Geologist: RCM

Test Pit Dimensions: 10' x 5' x 9'
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/10/08

Depth	PID Reading	Description
0 – 1.5'	0.0 ppm	Topsoil on concrete slab
1.5 – 9'	0.0 ppm	light brown sandy SILT little Clay trace mf-Gravel
9'	0.0 ppm	Limestone bedrock

Comments

- ❑ No rock encountered; or
- ✓ Rock encountered at 9 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks:

Collect sample SI-TP-27 @ 9' bgs

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Test Pit Log

Test Pit No. TP-28

Equipment Used: 250 Excavator

Weather: sunny Temp.: 60°

Field Engineer/Geologist: RCM

Test Pit Dimensions: 10' x 5' x 8'
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/10/08

Depth	PID Reading	Description
0 – 2'	0.0 ppm	Fill: brick, ash, cinders
2 – 6'	0.0 ppm	light brown sandy SILT trace Gravel
6 – 7.5'	0.0 ppm	Fill: black to dark brown sand and gravel
7.5 – 8'	0.0 ppm	Light brown SILT some Clay on bedrock

Comments

- ❑ No rock encountered; or
- ✓ Rock encountered at 8 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ✓ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks:

Collect sample SI-TP-28 @ 8' bgs

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Test Pit Log

Test Pit No. TP-29

Equipment Used: 250 Excavator

Weather: sunny Temp.: 60°

Field Engineer/Geologist: RCM

Test Pit Dimensions: 10' x 5' x 8'
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/10/08

Depth	PID Reading	Description
0 – 6'	0.0 ppm	Fill: brick, concrete, foundry sand
6 – 8'	0.0 ppm	light brown sandy SILT little mf-Gravel trace Clay

Comments

- ❑ No rock encountered; or
- ✓ Rock encountered at 8 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ✓ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks:

Collect sample SI-TP-29 @ 8' bgs

Fill grades from 7 feet deep at the southern end of the test pit to only 4 feet deep at the northern end.

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Test Pit Log

Test Pit No. TP-30

Equipment Used: 250 Excavator

Weather: sunny Temp.: 60°

Field Engineer/Geologist: RCM

Test Pit Dimensions: 10' x 5' x 3'
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/10/08

Depth	PID Reading	Description
0 – 2'	0.0 ppm	Fill: foundry sand, brick, metal
2 – 3'	0.0 ppm	Fractured limestone bedrock

Comments

- ❑ No rock encountered; or
- ✓ Rock encountered at 2-3 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ✓ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: _____

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Test Pit Log

Test Pit No. TP-31

Equipment Used: 250 Excavator

Weather: sunny Temp.: 60°

Field Engineer/Geologist: RCM

Test Pit Dimensions: 10' x 5' x 6'
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/10/08

Depth	PID Reading	Description
0 – 1'	0.0 ppm	Railbed timbers and ballast; black cinders and sand
1 – 5.5'	0.0 ppm	Light brown sandy SILT some mf-Gravel
5.5 -6'	0.0 ppm	Black sandy SILT mixed between bedrock fractures

Comments

- ❑ No rock encountered; or
- ✓ Rock encountered at 6 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ✓ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks:

Test pit located on top of railbed, approximately 3-4' above grade

Collect sample SI-TP-31 @ 5.5' bgs

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Test Pit Log

Test Pit No. TP-32

Equipment Used: 250 Excavator

Weather: sunny Temp.: 60°

Field Engineer/Geologist: RCM

Test Pit Dimensions: _____ x _____ x _____
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/10/08

Depth	PID Reading	Description
0 0.2'	0.0 ppm	Limestone bedrock

Comments

- ❑ No rock encountered; or
- ✓ Rock encountered at 0.2 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ✓ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: _____

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Test Pit Log

Test Pit No. TP-33

Equipment Used: 250 Excavator

Weather: sunny Temp.: 60°

Field Engineer/Geologist: RCM

Test Pit Dimensions: 5' x 5' x 2'
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/10/08

Depth	PID Reading	Description
0 – 2'	0.0 ppm	Fill; glass

Comments

- ❑ No rock encountered; or
- ✓ Rock encountered at 2 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ✓ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks:

Collect sample SI-TP-33 @ 1.5' bgs

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Test Pit Log

Test Pit No. TP-34

Equipment Used: 250 Excavator

Weather: sunny Temp.: 60°

Field Engineer/Geologist: RCM

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/10/08

Test Pit Dimensions: 10' (Length) x 10' (Width) x 6-10' (Depth)

Depth	PID Reading	Description
0 – 10'	0.0 ppm	Fill: foundry sand with metal debris

Comments

- ❑ No rock encountered; or
- ❑ Rock encountered at _____ feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: Test pit is inside concrete containment area. Attempt 2nd pit adjacent to 1st in similar concrete containment area – encounter slab at 1' below grade.

Pit is sloped along the floor from approximately 6' to bottom at south end to 10' at north end.

Water pipes encountered; no PID readings on residual water in pipes.

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Test Pit Log

Test Pit No. TP-35

Equipment Used: 250 Excavator

Weather: sunny Temp.: 60°

Field Engineer/Geologist: RCM

Test Pit Dimensions: 10' x 5' x 10'
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/10/08

Depth	PID Reading	Description
0 – 10'	0.0 ppm	Fill: foundry sand and debris

Comments

- ❑ No rock encountered; or
- ✓ Rock encountered at 10 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks:

Test pit located under steel plate in slab

Collect sample SI-TP-35 @ 10' bgs

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Test Pit Log

Test Pit No. TP-36

Equipment Used: 250 Excavator

Weather: sunny Temp.: 60°

Field Engineer/Geologist: RCM

Test Pit Dimensions: _____ x _____ x _____
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/10/08

Depth	PID Reading	Description
0 – 0.5'	-	Concrete slab
0.5 – 6'	-	Fill: brick, slag, fractured bedrock @ 6'

Comments

- ❑ No rock encountered; or
- ✓ Rock encountered at 6 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks:

Test pit located next to former elevator shaft.

Collect sample SI-TP-36 @ 5' bgs from bottom of elevator pit

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Test Pit Log

Test Pit No. TP-37

Equipment Used: 250 Excavator

Weather: sunny Temp.: 55°

Field Engineer/Geologist: RCM

Test Pit Dimensions: _____ x _____ x _____
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/10/08 & 9/22/08

Depth	PID Reading	Description
0 – 10'	-	Fill, debris

Comments

- ❑ No rock encountered; or
- ✓ Rock encountered at 6 feet
- ❑ Perch/Seepage water encountered at 10 feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: Test pit located in west end of former casting pit. Encounter water in debris @ 10' bgs.

Collect water sample

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Test Pit Log

Test Pit No. TP-38

Equipment Used: 250 Excavator

Weather: sunny Temp.: 55°

Field Engineer/Geologist: RCM

Test Pit Dimensions: 65' x 25' x 20'
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/11/08

Depth	PID Reading	Description
0 – 20'	-	Fill: foundry sand, metal debris, slag, coupula smelting pots, metal filings. Encounter buried drums

Comments

- ✓ No rock encountered; or
- ❑ Rock encountered at _____ feet
- ❑ Perch/Seepage water encountered at _____ feet
- ✓ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks:

Encounter Drum 1- punctured, staged, and sample product in drum and affected soils in test pit- SI-TP-38E at 10' bgs. Collect sample SI-TP-38E @ 20' bgs.

Encounter Drum 2- punctured, staged, and sample product in drum and affected soils in test pit- SI-TP-38W @ 20' bgs. Submit samples for waste characterization (PCBs, reactivity, VOCs, Metals, pH, and flashpoint). Report spill to NYSDEC- Spill #0806564

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Test Pit Log

Test Pit No. TP-39

Equipment Used: 250 Excavator

Weather: cloudy Temp.: 60°

Field Engineer/Geologist: RCM

Test Pit Dimensions: 15' x 8' x 21'
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/12/08

Depth	PID Reading	Description
0 – 21'	0.0 ppm	Fill: foundry sand, slag, wood, and metal debris. Encounter buried drum.

Comments

- ❑ No rock encountered; or
- ✓ Rock encountered at 21 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ✓ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks:

Test pit located in wooded area south of landfill. All fill encountered. Wooded bank area is presumably all fill material as well. Encounter crushed empty drum and 3 drum covers in test pit.

PID reading in drum = 0.0 ppm

Collect sample SI-TP-39 @ 21' bgs + MS/MSD

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Test Pit Log

Test Pit No. TP-40

Equipment Used: 250 Excavator

Weather: cloudy Temp.: 60°

Field Engineer/Geologist: RCM

Test Pit Dimensions: 10' x 5' x 8'
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/12/08

Depth	PID Reading	Description
0 – 8'	0.0 ppm	Fill: brick, concrete, debris. Concrete slab foundation at 8'.

Comments

- ✓ No rock encountered; or
- ❑ Rock encountered at _____ feet
- ❑ Perch/Seepage water encountered at _____ feet
- ✓ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: _____

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Test Pit Log

Test Pit No. TP-41

Equipment Used: 250 Excavator

Weather: rain Temp.: 60°

Field Engineer/Geologist: RCM

Test Pit Dimensions: 10' x 5' x 12'
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/12/08

Depth	PID Reading	Description
0 – 12'	0.0 ppm	Fill: foundry sand, slag, coupula pots

Comments

- ✓ No rock encountered; or
- ❑ Rock encountered at _____ feet
- ❑ Perch/Seepage water encountered at _____ feet
- ✓ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks:

Collect sample SI-TP-41 @ 12' bgs

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Test Pit Log

Test Pit No. TP-42

Equipment Used: 250 Excavator

Weather: rain Temp.: 60°

Field Engineer/Geologist: RCM

Test Pit Dimensions: 10' x 10' x 5'
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/12/08

Depth	PID Reading	Description
0 – 5'	-	Fill: foundry sand, slag, ceramic insulators

Comments

- ❑ No rock encountered; or
- ✓ Rock encountered at 4 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ✓ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks:

Collect sample SI-TP-42 @ 5' bgs

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Test Pit Log

Test Pit No. TP-43

Equipment Used: 250 Excavator

Weather: rain Temp.: 60°

Field Engineer/Geologist: RCM

Test Pit Dimensions: 10' x 5' x _____
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/12/08 & 9/22/08

Depth	PID Reading	Description
0 – 5'	0.0 ppm	Fill: foundry sand, metal debris, slag
5 – 7'	0.0 ppm	Concrete block, concrete wall/slab debris, and rebar.

Comments

- ❑ No rock encountered; or
- ✓ Rock encountered at 4 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ✓ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks:

9/12/08 – stop excavation @ 5' bgs, sample water in pit (SI-TP-43-W) and backfill.

9/22/08- water sample non-detect for VOCs, SVOCs, PCBs. Water at 3' deep in slab. Pump water into tank to continue excavation. Test pit has smooth concrete bottom at 7' bgs.

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Test Pit Log

Test Pit No. TP-44

Equipment Used: 250 Excavator

Weather: rain Temp.: 60°

Field Engineer/Geologist: RCM

Test Pit Dimensions: 10' x 10' x 3'
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/12/08

Depth	PID Reading	Description
0 – 0.5'	0.0 ppm	Concrete slab
0.5 – 2.5'	0.0 ppm	Fill: bricks and brick walls under rails
2.5 – 3'	0.0 ppm	Fractured bedrock

Comments

- ❑ No rock encountered; or
- ✓ Rock encountered at 3 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ✓ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: _____

Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL

Test Pit Log

Test Pit No. TP-45

Equipment Used: 250 Excavator

Weather: rain Temp.: 60°

Field Engineer/Geologist: RCM

Test Pit Dimensions: 10' x 10' x 5'
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/12/08

Depth	PID Reading	Description
0 – 5'	0.0 ppm	Fill: foundry sand and slag. Rotted, collapsed drum encountered

Comments

- ✓ No rock encountered; or
- ❑ Rock encountered at _____ feet
- ❑ Perch/Seepage water encountered at _____ feet
- ✓ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks:

Collect soil sample SI-TP-45 from 5' bgs in bottom of pit, below drum

Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL

Test Pit Log

Test Pit No. TP-46

Equipment Used: 250 Excavator

Weather: rain Temp.: 60°

Field Engineer/Geologist: RCM

Test Pit Dimensions: 10' x 5' x 2'
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/12/08

Depth	PID Reading	Description
0 – 1'	0.0 ppm	Fill: foundry sand and brick
1 – 2'	0.0 ppm	Fractured bedrock

Comments

- ❑ No rock encountered; or
- ✓ Rock encountered at 2 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ✓ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: _____

Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL

Test Pit Log

Test Pit No. TP-47

Equipment Used: 250 Excavator

Weather: rain Temp.: 60°

Field Engineer/Geologist: RCM

Test Pit Dimensions: 10' x 5' x 5'
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/12/08

Depth	PID Reading	Description
0 – 5'	0.0 ppm	Fill: foundry sand and slag. Concrete slab @ 5'

Comments

- ✓ No rock encountered; or
- ❑ Rock encountered at _____ feet
- ❑ Perch/Seepage water encountered at _____ feet
- ✓ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks:

Collect sample SI-TP-47 @ 5' bgs

Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL

Test Pit Log

Test Pit No. TP-48

Equipment Used: 250 Excavator

Weather: rain Temp.: 60°

Field Engineer/Geologist: RCM

Test Pit Dimensions: 5' x 5' x 3'
Length Width Depth

Project: Sewall's Island RI

Lu Project No.: 34202

Date: 9/12/08

Depth	PID Reading	Description
0 – 2'	0.0 ppm	Topsoil with organics; light brown sandy SILT trace Clay
2 – 3'	0.0 ppm	Fractured bedrock

Comments

- ❑ No rock encountered; or
- ❑ Rock encountered at _____ feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks:

Collect sample SI-TP-48 @ 2' bgs

TEST PIT LOGS 2009-2010

Lu Engineers

Test Pit Log

Test Pit No.: TP-1B

Project: Sewalls Island

Lu Project No.: 34202

Equipment Used: Excavator

Date: 12/17/2009

Weather: _____ Temp.: 5°

Field Engineer/Geologist: Greg Andrus

Test Pit Dimensions: 12‘ (Length) x 10’ (Width) x 21 ’ (Depth)

Depth	PID Reading	Description
0-21’	0.0	Foundry sand, slag, metal, concrete, crushed drum, crucible, possible native soil @ bedrock clay, and silt

Comments

- ❑ No rock encountered; or
- ❑ Rock encountered at ____21___ feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: No visual evidence of contamination, or unusual odors in the soil.

No PID or Jerome readings.

Lu Engineers

Test Pit Log

Test Pit No.: TP-2B

Project: Sewalls Island

Lu Project No.: 34202

Equipment Used: Excavator

Date: 12/17/2009

Weather: _____ Temp.: 5°

Field Engineer/Geologist: Greg Andrus

Test Pit Dimensions: 14‘ (Length) x 10’ (Width) x 22 ’ (Depth)

Depth	PID Reading	Description
0-22’	0.0	Thick layer of rusty steel, automotive battery, metal materials,

Comments

- ❑ No rock encountered; or
- ❑ Rock encountered at ____22___ feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: No visual evidence of contamination, or unusual odors in the soil.

No PID or Jerome readings.

Lu Engineers

Test Pit Log

Test Pit No.: TP-3B

Project: Sewalls Island

Lu Project No.: 34202

Equipment Used: Excavator

Date: 12/17/2009

Weather: _____ Temp.: 5°

Field Engineer/Geologist: Greg Andrus

Test Pit Dimensions: 14‘ (Length) x 10’ (Width) x 23 ’ (Depth)

Depth	PID Reading	Description
0-23’	0.0	Metal, cables, one empty drum

Comments

- ❑ No rock encountered; or
- ❑ Rock encountered at ____23___ feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: No visual evidence of contamination, or unusual odors in the soil.

No PID or Jerome readings.

Lu Engineers

Test Pit Log

Test Pit No.: TP-4B

Project: Sewalls Island

Lu Project No.: 34202

Equipment Used: Excavator

Date: 12/17/2009

Weather: _____ Temp.: 5°

Field Engineer/Geologist: Greg Andrus

Test Pit Dimensions: 15‘ (Length) x 10’ (Width) x 22 ’ (Depth)

Depth	PID Reading	Description
0-22’	0.0	one empty drum, piping fitted with 2 cast labels (M2x), concrete , rebar, and granite crucible

Comments

- ❑ No rock encountered; or
- ❑ Rock encountered at ____22___ feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: No visual evidence of contamination, or unusual odors in the soil.

No PID or Jerome readings.

Lu Engineers

Test Pit Log

Test Pit No.: TP-5B

Project: Sewalls Island

Lu Project No.: 34202

Equipment Used: Excavator

Date: 12/17/2009

Weather: _____ Temp.: 5°

Field Engineer/Geologist: Greg Andrus

Test Pit Dimensions: 15‘ x 12’ x 28 ’
Length Width Depth

Depth	PID Reading	Description
0-28’	0.0	concrete, rebar, piping, etc. foundry sand mixed with glass fragments, similar fill material in other TP

Comments

- ❑ No rock encountered; or
- ❑ Rock encountered at ____28___ feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: No visual evidence of contamination, or unusual odors in the soil.

No PID or Jerome readings.

Lu Engineers

Test Pit Log

Test Pit No.: TP-6B

Project: Sewalls Island

Lu Project No.: 34202

Equipment Used: Excavator

Date: 12/18/2009

Weather: _____ Temp.: ____°____

Field Engineer/Geologist: Eric Detweiler

Test Pit Dimensions: 30‘ x 20’ x 30 ’
Length Width Depth

Depth	PID Reading	Description
0-30’	0.0	Black soil with abundant metal (plat steel, granite, etc.), metal post, brick, concrete, foundry sand, five (5) crushed drums (PID: 0.0 ppm), slag, casting slag,

Comments

- ❑ No rock encountered; or
- ❑ Rock encountered at ____30___ feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: No visual evidence of contamination, or unusual odors in the soil.

No PID or Jerome readings.

Lu Engineers

Test Pit Log

Test Pit No.: TP-7B

Project: Sewalls Island

Lu Project No.: 34202

Equipment Used: Excavator

Date: 12/18/2009

Weather: partly sunny Temp.: 22°

Field Engineer/Geologist: Eric Detweiler

Test Pit Dimensions: 45 ‘ x 10’ x 21 ’
Length Width Depth

Depth	PID Reading	Description
0-21’	0.0	½ “ cable, sheet metal, crushed empty drums PID:0.0p ppm), rusty scrap metal, oven bricks, glass, slag, abundant scrap metal, piping, foundry sand, drum lids, metal cans/ buckets, plate steel

Comments

- ❑ No rock encountered; or
- ❑ Rock encountered at 21 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: No visual evidence of contamination, or unusual odors in the soil.

No PID or Jerome readings.

Lu Engineers

Test Pit Log

Test Pit No.: TP-8B

Project: Sewalls Island

Lu Project No.: 34202

Equipment Used: Excavator

Date: 12/21/2009

Weather: partly sunny Temp.: 24°

Field Engineer/Geologist: Eric Detweiler

Test Pit Dimensions: 25 ‘ x 12’ x 20.5 ’
Length Width Depth

Depth	PID Reading	Description
0-20.5’	0.0	Similar fill to TP-7, at approximately 15’ bgs clean brown sand, drum lids, foundry sand, coke, brick, glass, wood; collected sample

Comments

- ❑ No rock encountered; or
- ❑ Rock encountered at 20.5 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: No visual evidence of contamination, or unusual odors in the soil.

No PID or Jerome readings.

Collected sample @ 20.5’

Lu Engineers

Test Pit Log

Test Pit No.: TP-9B

Project: Sewalls Island

Lu Project No.: 34202

Equipment Used: Excavator

Date: 12/21/2009

Weather: overcast, light snow Temp.: 20°

Field Engineer/Geologist: Eric Detweiler

Test Pit Dimensions: 8‘ x 12’ x 21 ’
Length Width Depth

Depth	PID Reading	Description
0-21	0.0	Metal buried within 0-5’, auto springs, metal, grating, R.R.rail, steal I-beam, brick, oven brick; collected sample

Comments

- ❑ No rock encountered; or
- ❑ Rock encountered at 21 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: No visual evidence of contamination, or unusual odors in the soil.

No PID or Jerome readings.

Collected sample @ 21

Lu Engineers

Test Pit Log

Test Pit No.: TP-10B

Project: Sewalls Island

Lu Project No.: 34202

Equipment Used: Excavator

Date: 12/21/2009

Weather: overcast, light snow Temp.: 22º

Field Engineer/Geologist: Eric Detweiler

Test Pit Dimensions: 15‘ x 20’ x 22 ’
Length Width Depth

Depth	PID Reading	Description
0-22	0.0	Large metal I-beam at surface, stone, concrete, rebar, 1’ cable, large concrete, large stone, clean brown soil encountered @ approximately 12-15’; sample collected

Comments

- ❑ No rock encountered; or
- ❑ Rock encountered at 22 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: No visual evidence of contamination, or unusual odors in the soil.

No PID or Jerome readings.

Collected sample @ 22

Lu Engineers

Test Pit Log

Test Pit No.: TP-11B

Project: Sewalls Island

Lu Project No.: 34202

Equipment Used: Excavator

Date: 12/21/2009

Weather: overcast Temp.: 18°

Field Engineer/Geologist: Eric Detweiler

Test Pit Dimensions: 20‘ x 20’ x 18’
Length Width Depth

Depth	PID Reading	Description
0-18	0.0	Removed large metal structure 2’x2’x1’(maybe a pump), building material, 2 x large steel I-beams, concrete building pieces, brick, foundry sand,

Comments

- ❑ No rock encountered; or
- ❑ Rock encountered at 18 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: No visual evidence of contamination, or unusual odors in the soil.

No PID or Jerome readings.

Lu Engineers

Test Pit Log

Test Pit No.: TP-12B

Project: Sewalls Island

Lu Project No.: 34202

Equipment Used: Excavator

Date: 12/21/2009

Weather: light snow Temp.: 18°

Field Engineer/Geologist: Eric Detweiler

Test Pit Dimensions: 20‘ x 12’ x 20’
Length Width Depth

Depth	PID Reading	Description
0-20’	0.0	Within 2’ of surface uncovered 6” steel pipe, buried piping (fence posts), 6-8 1’ cables, plate steel, rock, concrete, brick, scrap metal, large rock, rebar

Comments

- ❑ No rock encountered; or
- X Rock encountered at 20 feet
- ❑ Perch/Seepage water encountered at _____ feet
- X No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: No visual evidence of contamination, or unusual odors in the soil.

No PID or Jerome readings.

Lu Engineers

Test Pit Log

Test Pit No.: TP-13B

Project: Sewalls Island

Lu Project No.: 34202

Equipment Used: Excavator

Date: 12/22/2009

Weather: mostly sunny Temp.: 5°

Field Engineer/Geologist: Eric Detweiler

Test Pit Dimensions: 25 ‘ x 16’ x 25’
Length Width Depth

Depth	PID Reading	Description
0-25’	21.3	Buried concrete, wood, metal strapping, conduit, stone, foundry sand, scrap metal, petroleum/tar type odor on soil @ bedrock interface (PID: 21.3 ppm), above bedrock groundwater encountered (slight sheen)

Comments

- ❑ No rock encountered; or
- ❑ Rock encountered at 25 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: PID reading 21.3 ppm

No Jerome readings

Collected soil and water sample at “worst-case” medium to check for sheen and headspace

12.5ppm headspace

Lu Engineers

Test Pit Log

Test Pit No.: TP-14B

Project: Sewalls Island

Lu Project No.: 34202

Equipment Used: Excavator

Date: 12/22/2009

Weather: mostly sunny Temp.: 5°

Field Engineer/Geologist: Eric Detweiler

Test Pit Dimensions: 20 ‘ x 25’ x 26-27’
Length Width Depth

Depth	PID Reading	Description
0-26-27’	5.1	Concrete with rebar, stone, wood, R.R. ties, conduit, 6’ steel pipe, scrap metal, mostly building demo material, steel beams; slight sheen on water collecting above bedrock; sample collected

Comments

- ❑ No rock encountered; or
- X Rock encountered at 26-27 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- X Ground water encountered at 24’ feet

Remarks: Petroleum odor on bottom 2’ of soil PID: 5.1 ppm

No Jerome readings

Collected soil sample at bedrock interface

Lu Engineers

Test Pit Log

Test Pit No.: TP-15B

Project: Sewalls Island

Lu Project No.: 34202

Equipment Used: Excavator

Date: 12/22/2009

Weather: partly sunny Temp.: 12°

Field Engineer/Geologist: Eric Detweiler

Test Pit Dimensions: 12 ‘ x 15’ x 11’
Length Width Depth

Depth	PID Reading	Description
0-11’	0.0	Two (2) drum carcasses (crushed, holes, PID: 0.0), glass, sand, foundry sand, concrete, piping, slag, @ 6-10 ‘ uncovered 4-5 ½ rusty drum carcasses, (PID: 0.0 ppm); sample collected at bedrock interface

Comments

- ❑ No rock encountered; or
- ❑ Rock encountered at 11 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: No visual evidence of contamination, or unusual odors

No PID or Jerome readings

Collected soil sample at bedrock interface beneath drum area

Lu Engineers

Test Pit Log

Test Pit No.: TP-16B

Project: Sewalls Island

Lu Project No.: 34202

Equipment Used: Excavator

Date: 12/23/2009

Weather: Snowing Temp.: 10°

Field Engineer/Geologist: Eric Detweiler

Test Pit Dimensions: 15' x 15' x 17'
Length Width Depth

Depth	PID Reading	Description
0-17'	2.1	Rebar, Sand, glass, stone, wood, ½ drum carcass- No PID reading, cable, slag, garbage, @ 15-17' encountered sweet solvent-like odor (PID:2.1ppm @ bedrock interface); Sample taken

Comments

- ❑ No rock encountered; or
- ❑ Rock encountered at 17 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: PID: 2.1 @ 17.0' (bedrock)

No visual evidence of contamination

No Jerome readings

Sample taken

Lu Engineers

Test Pit Log

Test Pit No.: TP-17B

Project: Sewalls Island

Lu Project No.: 34202

Equipment Used: Excavator

Date: 12/23/2009

Weather: Snowing Temp.: 10°

Field Engineer/Geologist: Eric Detweiler

Test Pit Dimensions: 25' x 17' x 20'
Length Width Depth

Depth	PID Reading	Description
0-4'	0	2 drum carcasses, rusted and squished (PID: 0.0 ppm) Sample taken, (Jerome upwind:0.007mg/m3, downwind: 0.009 mg/m3)
4-20'	0	Rebar, concrete, similar fill materials, additional large steal beams @ 10'; reached bedrock at 20', dry, no visual indication of contamination or odors, no GW encountered

Comments

- ❑ No rock encountered; or
- ❑ Rock encountered at 20 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: No PID readings

Jerome readings @ 4' upwind:0.007 mg/m3, downwind: 0.009 mg/m3

Lu Engineers

Test Pit Log

Test Pit No.: TP-18B

Project: Sewalls Island

Lu Project No.: 34202

Equipment Used: Excavator

Date: 12/23/2009

Weather: Snowing Temp.: 10°

Field Engineer/Geologist: Eric Detweiler

Test Pit Dimensions: 28' x 15' x 22'
Length Width Depth

Depth	PID Reading	Description
0-22'	0	Piping, concrete, stone, similar fill material, cable, scrap metal; wet at bedrock, but no saturated soil; no evidence of contamination or elevated readings; collected sample at 22'

Comments

- ❑ No rock encountered; or
- ❑ Rock encountered at 22 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: No visual evidence of contamination, or unusual odors in the soil

No PID or Jerome readings

Sample Collected

Lu Engineers

Test Pit Log

Test Pit No.: TP-19B

Project: Sewalls Island

Lu Project No.: 34202

Equipment Used: Excavator

Date: 12/28/2009

Weather: Snowing Temp.: 10°

Field Engineer/Geologist: Eric Detweiler

Test Pit Dimensions: 25' x 15' x 23'
Length Width Depth

Depth	PID Reading	Description
0-23'	0	Southeast corner of Grid 2- rebar, 5 gallon bucket, large amounts of metal shavings, cut metal, plate steel, @ 15'large amounts of sheet metal (roofing); collected sample at 23' bgs,

Comments

- ❑ No rock encountered; or
- ❑ Rock encountered at 23 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: No visual evidence of contamination, or unusual odors in the soil.

No PID or Jerome readings.

Sample taken

Lu Engineers

Test Pit Log

Test Pit No.: TP-20B

Project: Sewalls Island

Lu Project No.: 34202

Equipment Used: Excavator

Date: 12/28/2009

Weather: Snowing Temp.: 30°

Field Engineer/Geologist: Eric Detweiler

Test Pit Dimensions: 17' x 12' x 22'
Length Width Depth

Depth	PID Reading	Description
0-3'	0	Rebar, 4'x4' plate steel
3-22'	0	Drum carcass (No PID reading, no odor or visual evidence of contamination, full of holes and flattened), concrete with rebar, tree

Comments

- ❑ No rock encountered; or
- ❑ Rock encountered at 22 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: No visual evidence of contamination, or unusual odors in the soil.

No PID or Jerome readings.

Lu Engineers

Test Pit Log

Test Pit No.: TP-21B

Project: Sewalls Island

Lu Project No.: 34202

Equipment Used: Excavator

Date: 12/28/2009

Weather: Snowing Temp.: 30°

Field Engineer/Geologist: Eric Detweiler

Test Pit Dimensions: 17' x 12' x 22'
Length Width Depth

Depth	PID Reading	Description
0-10'	0.0	Scrap steel
10-22'	0.0	Cable, rebar, sheet metal, metal table, glass, brick

Comments

- ❑ No rock encountered; or
- ❑ Rock encountered at 22 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: No visual evidence of contamination, or unusual odors in the soil.

No PID or Jerome readings.

Lu Engineers

Test Pit Log

Test Pit No.: TP-22B

Project: Sewalls Island

Lu Project No.: 34202

Equipment Used: Excavator

Date: 12/29/2009

Weather: clear (-20° wind-chill) Temp.: -5°

Field Engineer/Geologist: Eric Detweiler

Test Pit Dimensions: 40' x 20' x 30'
Length Width Depth

Depth	PID Reading	Description
0-30'	0.0	Buried steel shavings, plate steel, 2 drum carcasses (rusted with holes and flattened PID for both is 0.0ppm) cable, rebar, concrete stone, foundry sand, ash, and scrap metal. Sample taken

Comments

- ❑ No rock encountered; or
- ❑ Rock encountered at 30 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: No visual evidence of contamination, or unusual odors.

No PID or Jerome readings.

Sample and duplicate taken from bedrock

Lu Engineers

Test Pit Log

Test Pit No.: TP-23B

Project: Sewalls Island

Lu Project No.: 34202

Equipment Used: Excavator

Date: 12/29/2009

Weather: Flurries Temp.: 15°

Field Engineer/Geologist: Eric Detweiler

Test Pit Dimensions: 55' x 15' x 28.5'
Length Width Depth

Depth	PID Reading	Description
0-23,28.5'	0.0	Approximately 4-6 bgs uncovered 5 empty drum carcasses, rusted full of holes, most crushed; 1 drum intact shape but full of rust holes and no contents (PID: 0.6 ppm inside drum); 1 drum intact with gear-lube/tar type oil (PID: 217 ppm inside drum) Similar fill materials; metal, rebar, thick braided cable, plate steel, brick, glass, slag, etc. 3 samples collected (2 soil, 1 drum contents)

Comments

- ❑ No rock encountered; or
- ❑ Rock encountered at 23 north end, 28.5' south end feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: No visual evidence of contamination, or unusual odors in the soil.

Peak PID reading in 1 drum 217 ppm

No Jerome readings.

Collected sample within gear-lube drum, one (1) confirmatory sample (TP-23 (28.5')) at bedrock interface 28.5 ' bgs (no evidence of spillage or staining at soil sample location). and one (1) sample (TP-23 (23')) from bedrock interface where 8-10 carcasses were found

Lu Engineers

Test Pit Log

Test Pit No.: TP-24B

Project: Sewalls Island

Lu Project No.: 34202

Equipment Used: Excavator

Date: 1/4/2010

Weather: Flurries Temp.: 10°

Field Engineer/Geologist: Eric Detweiler

Test Pit Dimensions: 20' x 10' x 23'
Length Width Depth

Depth	PID Reading	Description
0-23'	0.0	Uncovered 2 rusted within 5', crushed drums, large metal object, similar fill materials

Comments

- ❑ No rock encountered; or
- ❑ Rock encountered at 23 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: No visual evidence of contamination, or unusual odors in the soil.

No PID or Jerome readings.

Lu Engineers

Test Pit Log

Test Pit No.: TP-25B

Project: Sewalls Island

Lu Project No.: 34202

Equipment Used: Excavator

Date: 1/4/2010

Weather: Flurries Temp.: 10°

Field Engineer/Geologist: Eric Detweiler

Test Pit Dimensions: 10' x 8' x 24'
Length Width Depth

Depth	PID Reading	Description
0-24'	0.0	Buried concrete with rebar and a lot of 1" of braided steel cable, piping, I beam, 2 drums (empty and rusted PID: 0.0 ppm)

Comments

- ❑ No rock encountered; or
- ❑ Rock encountered at 24 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: No visual evidence of contamination, or unusual odors in the soil.

No PID or Jerome readings.

Lu Engineers

Test Pit Log

Test Pit No.: TP-26B

Project:

Lu Project No.: 34202

Equipment Used: Excavator

Date: 1/4/2010

Weather: Flurries Temp.: 10°

Field Engineer/Geologist: Eric Detweiler

Test Pit Dimensions: 20' x 10' x 16'
Length Width Depth

Depth	PID Reading	Description
0-16'	0.0	Similar fill material encountered in TP-16B

Comments

- ❑ No rock encountered; or
- ❑ Rock encountered at 16 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: No visual evidence of contamination, or unusual odors in the soil.

No PID or Jerome readings.

Lu Engineers

Test Pit Log

Test Pit No.: TP-27B

Project: Sewalls Island

Lu Project No.: 34202

Equipment Used: Excavator

Date: 1/4/2010

Weather: Flurries Temp.: 10°

Field Engineer/Geologist: Eric Detweiler

Test Pit Dimensions: 10' x 15' x 23
Length Width Depth

Depth	PID Reading	Description
0-23'	0.0	Cable, tire, metal mesh, rebar, metal rods, plate steel, etc. brick, and glass

Comments

- ❑ No rock encountered; or
- ❑ Rock encountered at 23 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: No visual evidence of contamination, or unusual odors in the soil.

No PID or Jerome readings.

Lu Engineers

Test Pit Log

Test Pit No.: TP-28B

Project: Sewalls Island

Lu Project No.: 34202

Equipment Used: Excavator

Date: 1/4/2010

Weather: Flurries Temp.: 10°

Field Engineer/Geologist: Eric Detweiler

Test Pit Dimensions: 10' x 15' x 23
Length Width Depth

Depth	PID Reading	Description
0-23'	0.0	Similar fill materials, coiled cable, rebar, cone, and foundry sand fill

Comments

- ❑ No rock encountered; or
- ❑ Rock encountered at 23 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: No visual evidence of contamination, or unusual odors in the soil.

No PID or Jerome readings.

Lu Engineers

Test Pit Log

Test Pit No.: TP-29B

Project: Sewalls Island

Lu Project No.: 34202

Equipment Used: Excavator

Date: 1/5/2010

Weather: light snow Temp.: 10°

Field Engineer/Geologist: Eric Detweiler

Test Pit Dimensions: 12' x 8' x 24
Length Width Depth

Depth	PID Reading	Description
0-24'	0.0	Similar fill material to other TPs, metal including a locked chest @ 2-3 ft (no treasure), rusty-ash layer @ 23'

Comments

- ❑ No rock encountered; or
- ❑ Rock encountered at 24 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: No visual evidence of contamination, or unusual odors in the soil.

No PID or Jerome readings.

Lu Engineers

Test Pit Log

Test Pit No.: TP-30B

Project: Sewalls Island

Lu Project No.: 34202

Equipment Used: Excavator

Date: 1/5/2010

Weather: partly sunny Temp.: 14°

Field Engineer/Geologist: Eric Detweiler

Test Pit Dimensions: 12' x 8' x 22
Length Width Depth

Depth	PID Reading	Description
0-22'	0.0	Large concrete footers with rebar, I-beams, cable, scrap steel, sheet metal etc. appears to be an ash layer at bedrock

Comments

- ❑ No rock encountered; or
- ❑ Rock encountered at 22 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: No visual evidence of contamination, or unusual odors in the soil.

No PID or Jerome readings.

Lu Engineers

Test Pit Log

Test Pit No.: TP-31B

Project: Sewalls Island

Lu Project No.: 34202

Equipment Used: Excavator

Date: 1/5/2010

Weather: flurries Temp.: 18°

Field Engineer/Geologist: Eric Detweiler

Test Pit Dimensions: 12' x 8' x 18
Length Width Depth

Depth	PID Reading	Description
0-18'	0.0	Similar fill materials to other TPs, encountered buried scrap metal, rebar, concrete, etc.

Comments

- ❑ No rock encountered; or
- ❑ Rock encountered at 18 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: No visual evidence of contamination, or unusual odors in the soil.

No PID or Jerome readings.

Lu Engineers

Test Pit Log

Test Pit No.: TP-32B

Project: Sewalls Island

Lu Project No.: 34202

Equipment Used: Excavator

Date: 1/5/2010

Weather: flurries Temp.: 20°

Field Engineer/Geologist: Eric Detweiler

Test Pit Dimensions: 30' x 10' x 17.5'
Length Width Depth

Depth	PID Reading	Description
0-17.5'	0.0	Steel cable, small amounts of buried metal, but no obvious metal; rusty-ash layer above native soil; Approximately 1' of native Silty SAND @ 17'

Comments

- ❑ No rock encountered; or
- ❑ Rock encountered at 17.5 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: No visual evidence of contamination, or unusual odors in the soil.

No PID or Jerome readings.

Lu Engineers

Test Pit Log

Test Pit No.: TP-33B

Project: Sewalls Island

Lu Project No.: 34202

Equipment Used: Excavator

Date: 1/5/2010

Weather: partly sunny Temp.: 20°

Field Engineer/Geologist: Eric Detweiler

Test Pit Dimensions: 21' x 10' x 19'
Length Width Depth

Depth	PID Reading	Description
0-19	0.0	Scrap metal, rebar, cable, etc. wet at bedrock interface @ approximately 19-20'

Comments

- ❑ No rock encountered; or
- ❑ Rock encountered at 19 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: No visual evidence of contamination, or unusual odors in the soil.

No PID or Jerome readings.

Lu Engineers

Test Pit Log

Test Pit No.: TP-34B

Project: Sewalls Island

Lu Project No.: 34202

Equipment Used: Excavator

Date: 1/6/2010

Weather: clear Temp.: 12°

Field Engineer/Geologist: Eric Detweiler

Test Pit Dimensions: 13' (Length) x 8' (Width) x 12' (Depth)

Depth	PID Reading	Description
0-12'	0.0	Similar fill material as other TP

Comments

- ❑ No rock encountered; or
- ❑ Rock encountered at 12 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: No visual evidence of contamination, or unusual odors in the soil.

No PID or Jerome readings.

Lu Engineers

Test Pit Log

Test Pit No.: TP-35B

Project: Sewalls Island

Lu Project No.: 34202

Equipment Used: Excavator

Date: 1/6/2010

Weather: clear Temp.: 12°

Field Engineer/Geologist: Eric Detweiler

Test Pit Dimensions: 15 x 7' x 18
Length Width Depth

Depth	PID Reading	Description
0-18'	0.0	Similar fill material as other TP

Comments

- ❑ No rock encountered; or
- ❑ Rock encountered at 18 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: No visual evidence of contamination, or unusual odors in the soil.

No PID or Jerome readings.

Lu Engineers

Test Pit Log

Test Pit No.: TP-36B

Project: Sewalls Island

Lu Project No.: 34202

Equipment Used: Excavator

Date: 1/6/2010

Weather: clear Temp.: 12°

Field Engineer/Geologist: Eric Detweiler

Test Pit Dimensions: 15 x 7' x 17'
Length Width Depth

Depth	PID Reading	Description
0-17	0.0	Similar fill material as other TP, foundry sand, brick, stone, slag, etc.

Comments

- ❑ No rock encountered; or
- ❑ Rock encountered at 17 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: No visual evidence of contamination, or unusual odors in the soil.

No PID or Jerome readings.

Lu Engineers

Test Pit Log

Test Pit No.: TP-37B

Project: Sewalls Island

Lu Project No.: 34202

Equipment Used: Excavator

Date: 1/6/2010

Weather: mostly sunny Temp.: 20°

Field Engineer/Geologist: Eric Detweiler

Test Pit Dimensions: 22‘ x 15’ x 27’
Length Width Depth

Depth	PID Reading	Description
0-27’	0.0	Similar fill material as other TP, along bank uncovered large concrete footers, rebar, glass, brick, steel, spool, etc.

Comments

- ❑ No rock encountered; or
- ❑ Rock encountered at 27 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: No visual evidence of contamination, or unusual odors in the soil.

No PID or Jerome readings.

Lu Engineers

Test Pit Log

Test Pit No.: TP-38B

Project: Sewalls Island

Lu Project No.: 34202

Equipment Used: Excavator

Date: 1/6/2010 and 1/7/2010

Weather: mostly sunny Temp.: 20°

Field Engineer/Geologist: Eric Detweiler

Test Pit Dimensions: 35‘ x 18’ x 18 ’
Length Width Depth

Depth	PID Reading	Description
0-18’	0.0	Similar fill material as other TP, @ approximately 10’ uncovered three (3) drums; first drum is approximately 35-40 gallons with approximately 15 gallons of product, strong solvent and mothball odor, collected sample; second drum contains oily product (10 gallon combination of old solvent and oil/grease) collected samples (PID: 88 ppm); third drum with green label (“Clorothene NU, Superior Solvent”) contents appears oily collected sample of contents (10-20 gallons)

Comments

- ❑ No rock encountered; or
- ❑ Rock encountered at 18 feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: Odors observed and PID reading of drum 2 was 88 ppm

No Jerome readings.

Confirmatory sidewall (4) and floor samples (1) were taken including duplicate and MS/MSD. Also, soil and product from drum 2 and 3 were sampled.

Lu Engineers

Test Pit Log

Test Pit No.: TP-39B

Project: Sewalls Island

Lu Project No.: 34202

Equipment Used: Excavator

Date: 1/7/2010

Weather: partly sunny Temp.: 20°

Field Engineer/Geologist: Eric Detweiler

Test Pit Dimensions: 45‘ x 20’ x 25’
Length Width Depth

Depth	PID Reading	Description
0-25’	0.0	Approximately 4’ bgs four (4) drums uncovered; first drum carcass with slight paint thinner type odor, no contents PID: 1,478 ppm; three (3) additional crushed drums with no contents, full of holes; Sheet metal, brick, stone, cable, concrete fill, foundry sand, Collected sample at bedrock

Comments

- ❑ No rock encountered; or
- ❑ Rock encountered at _____ feet
- ❑ Perch/Seepage water encountered at _____ feet
- ❑ No groundwater encountered; or
- ❑ Ground water encountered at _____ feet

Remarks: Odors observed and PID reading of drum 1 was 1,478 ppm

No Jerome readings.

Sample collected at 6’on floor where drums were found, also on bedrock at 25’

HYDROGEOLOGICAL DATA

MONITORING WELL LOGS

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PROJECT	BORING: WB-01 (MW-1)
City of Watertown, NY	SHEET 1 OF 2
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN

DRILLER: Robert
GROUND SURFACE ELEVATION: N/A DATUM: N/A
JCL GEOLOGIST: E. Detweiler
START DATE: 9/12/08 END DATE: 9/15/08

CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NQ Core / HX rollerbit (ream)

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	5			NA	85%	@0': black SILT and m-f Sand, dry, crushed stone, FILL	
1	4			↓		@0.5': as above with slag	
	5					@1': orange-brown f Sandy SILT, moist, Fe mottling	
2	4	S1	2			@2': dark brown f SAND, moist, poorly graded	0-2': 0
	2				75%		
3	4					@3': medium brown SILT, little f Sand, moist, soft, low plasticity	
	4						
4	2	S2	4				2-4': 0
	1				75%		
5	1						
	3						
6	2	S3	6				4-6': 0
	4				75%		
7	3						
	4						
8	4		8			@8': limestone fragments in shoe	
	50/0.3'	S4	8.3		95%	8.3	6-8.3': 0
9	NA	core				@8.3': begin coring; moderate to highly weathered limestone, close fractures, hard, medium to thick bedded,	
	↓						
10		C1	9.8	45%	72%		0.0
11							
12							
13							
14							
15		C2	14.8	75%	86%	slight weathering, moderately close fractures, hard, thick bedded	0.0
16							
17							
18							
19							
20		C3	19.8	98%	96%	massive	0.0

LEGEND
S-)ON SOIL SAMPLE
U- BED SOIL SAMPLE
C- :ORE SAMPLE

Split spoon refusal @ 8.3' bgs; auger to 8.5' bgs; begin NQ coring at 8.5'.
Core run 1 = 8.3-9.8', run 2=9.8-14.8', run 3=14.8-19.8', run 4=19.8-24.8', run 5=24.8-29.8'
Drillers lose average of 600-700 galllons of coring water per 5' run; Ream corehole w/rollerbit to 27' (HX)
Construct MW-1: screen=27-7'; sandpack=27-5'; bentonite seal=5-3'; grout=3'-grade

GENERAL NOTES:
1) NDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
TORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	BORING: WB-01 (MW-1)
City of Watertown, NY	SHEET 2 OF 2
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN

DRILLER: Robert
JCL GEOLOGIST: E. Detweiler

GROUND SURFACE ELEVATION: N/A DATUM: N/A
START DATE: 9/12/08 END DATE: 9/15/08

CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 3" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NQ Core / HX rollerbit (ream)

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	NA						
21	↓						
22							
23							
							0.0
24		C4	24.8	100%	100%	massive, some drill break, few porous to pitted voids	
25							
26							
27							
28							
29							
30		C5	29.8	100%	100%	massive, nearly full 5' intact core 29.8'	0.0
31							
32						Total depth = 29.8' bgs	
33							
34							
35							
36							
37							
38							
39							
40							

LEGEND
S-)ON SOIL SAMPLE
U- BED SOIL SAMPLE
C- :ORE SAMPLE

see pg.1 for drilling notes

GENERAL NOTES:
1) NDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
TORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	BORING: WB-02S (MW-2S)
City of Watertown, NY	SHEET 1 OF 2
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN

DRILLER: Robert
JCL GEOLOGIST: E. Detweiler

GROUND SURFACE ELEVATION: N/A DATUM: N/A
START DATE: 9/12/08 END DATE: 9/16/08

CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 6.25" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NQ Core / HX rollerbit (ream)

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	NA	NA	NA	NA	NA	no sampling; see boring log SB-19 for soil description	
1	↓	↓	↓	↓	↓		
2							0-2': 0
3							
4							2-4': 0
5							
6							4-6': 0
7							
8							
							6-8': 0
9							
10							8-10': 0
11							
12							10-12': 0
13							
14							12-14': 0
15							
16							14-16':78
17							
18						@18': difficult augering, likely weathered bedrock	16-18':38
19							
20						20	18.0

LEGEND
S- ON SOIL SAMPLE
U- BED SOIL SAMPLE
C- CORE SAMPLE

Auger refusal @ 20.0' bgs; begin NQ coring at 20.0'.
Core run 1 = 20-23.8', run 2=23.8-28.85'
Drillers lose average of 500-600 galllons of coring water per 5' run; Ream corehole w/rollerbit to 28' (HX)
Construct MW-2S: screen=28-13'; sandpack=28-13'; bentonite seal=13-11'; grout=11'-grade

GENERAL NOTES:
1) NDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
TORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

BORING # WB-02 (MW-2S)

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PROJECT	BORING: WB-02S (MW-2S)
City of Watertown, NY	SHEET 2 OF 2
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN

DRILLER: Robert
GROUND SURFACE ELEVATION: N/A DATUM: N/A
JCL GEOLOGIST: E. Detweiler
START DATE: 9/12/08 END DATE: 9/16/08

CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 6.25" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NQ Core / HX rollerbit (ream)

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	NA	C1	20	96%	100%	@20':begin coring; moderately weathered limestone, close fractures, hard, vertical fractures	0.0
21	↓					throughout run; medium to thick bedded	
22							
23							
24		C2	23.8	97%	99%	@23.8; as above but thick bedded; horizontal discontinuities at 25.1', 26.8'	0.0
25							
26							
27							
28							
29			28.8			28.8'	0.0
30						Total depth = 28.8'	
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

LEGEND
S-)ON SOIL SAMPLE
U- BED SOIL SAMPLE
C- :ORE SAMPLE

see pg.1 for drilling notes

GENERAL NOTES:
1) NDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
TORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	BORING: WB-02D (MW-2D)
City of Watertown, NY	SHEET 1 OF 3
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN

DRILLER: Robert
JCL GEOLOGIST: E. Detweiler

GROUND SURFACE ELEVATION: N/A DATUM: N/A
START DATE: 9/16/08 END DATE: 9/16/08

CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 6.25" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NQ Core / HX rollerbit (ream)

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	NA	NA	NA	NA	NA	no sampling; see boring log SB-19 for soil description	
1	↓	↓	↓	↓	↓		
2							0-2': 0
3							
4							2-4': 0
5							
6							4-6': 0
7							
8							6-8': 0
9							
10							8-10': 0
11							
12							10-12':10
13							
14							12-14':26
15							
16						@16': difficult augering	14-16':108
17							
18							16-18':38
19							
20						20	0.0

LEGEND
S- ON SOIL SAMPLE
U- BED SOIL SAMPLE
C- CORE SAMPLE

Auger refusal @ 20.0' bgs; begin HX coring at 20.0'.
Core run 1 = 20-20.6', run 2=20.6-24.7', run 3=24.7-29.7', run 4=29.7-34.7', run 5=34.7-39.7', run 6=39.7-42.7'
Drillers lose average of 500-600 galllons of coring water per 5' run
Construct MW-2S: screen=42.7-32.7'; sandpack=42.7-31.5'; bentonite seal=31.5-29'; grout=29'-grade

GENERAL NOTES:
1) NDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
TORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

BORING # WB-02 (MW-2S)

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PROJECT	BORING: WB-02D (MW-2D)
City of Watertown, NY	SHEET 2 OF 3
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN

DRILLER: Robert
GROUND SURFACE ELEVATION: N/A DATUM: N/A
JCL GEOLOGIST: E. Detweiler
START DATE: 9/16/08 END DATE: 9/16/08

CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 6.25" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NQ Core / HX rollerbit (ream)

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	NA	C1	20	71%	100%	@20':begin coring; moderately weathered limestone, close fractures, hard, vertical fractures	0.0
21	↓	C2	20.6	78%	82%	throughout run; medium to thick bedded	
22							
23							
24						@23.8; as above but thick bedded; horizontal discontinuities at 25.1', 26.8'; very close joints	
25		C3	24.7	96%	98%		0.0
26							
27							
28							
29							
30		C4	29.7	96%	98%	@30.4': massive, few pitted voids	0.0
31							
32							
33							
34							
35		C5	34.7	100%	98%		0.0
36							
37							
38							
39							
40		C6	39.7	100%	100%		0.0

LEGEND
S-)ON SOIL SAMPLE
U- BED SOIL SAMPLE
C- :ORE SAMPLE

see pg.1 for drilling notes

GENERAL NOTES:
1) NDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
TORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	BORING: WB-02D (MW-2D)
City of Watertown, NY	SHEET 3 OF 3
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN

DRILLER: Robert
GROUND SURFACE ELEVATION: N/A DATUM: N/A
JCL GEOLOGIST: E. Detweiler
START DATE: 9/16/08 END DATE: 9/16/08

CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 6.25" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NQ Core / HX rollerbit (ream)

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	NA	C6		100%	100%		0.0
41							
42							
43			42.7			42.7	0.0
44						Total Depth = 42.7' bgs	
45							
46							
47							
48							
49							
50							
51							
52							
53							
54							
55							
56							
57							
58							
59							
60							

LEGEND
S-)ON SOIL SAMPLE
U- BED SOIL SAMPLE
C- :ORE SAMPLE

see pg.1 for drilling notes

GENERAL NOTES:
1) NDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
TORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	BORING: WB-03 (MW-3)
City of Watertown, NY	SHEET 1 OF 2
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN
DRILLER: Robert
GROUND SURFACE ELEVATION: N/A DATUM: N/A
JCL GEOLOGIST: E. Detweiler
START DATE: 9/17/08 END DATE: 9/18/08
CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 6.25" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NQ Core / HX rollerbit (ream)

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	11	S1		NA	40%	@0': crushed stone, dry, FILL	
1	4			↓	↓	@0.5': black Silt and foundry SAND mix, some cmf Gravel, dry, soft, FILL	
	3						
2	3		2			@2': green slag in shoe	0-2': 0
	4	S2			45%	@2.5': trace brick fragments	
3	5				↓		
	3						
4	2		4			@4': empty spoon with blow-in	2-4': 0
	4	S3			1%		
5	3				↓		
	2						
6	6		6				4-6': 0
	3	S4			35%		
7	2				↓		
	7						
8	4		8			@7.8': crushed stone fragments (2")	
	9	S5			60%	@8': similar FILL to above	6-8': 0
9	7				↓		
	4						
10	2		10			@9.8': drove spoon through stone	8-10': 0
	6	S6			50%		
11	2				↓	@11': brown-black foundry SAND, dry, FILL	
	1						
12	1		12				10-12': 0
	2	S7			45%	@12.5': intermixed slag, little cmf Gravel, FILL	
13	2				↓	@13': with coke, FILL	
	8						
14	12		14				12-14': 0
	3	S8			100%		
15	4				↓	@15': Fe staining	
	1						
16	↓		16				14-16': 0
	5	S9			50%		
17	10				↓	@17': PID hits, no unusual odors or staining, primarily foundry sand FILL	17': 65
	11						17.5':52
18	5		18				18': 0
	4	S10			75%		
19	1				↓		
	8						
20	9		20			@19.8': crushed limestone, dry 20	20': 0

LEGEND
S- ON SOIL SAMPLE
U- BED SOIL SAMPLE
C- CORE SAMPLE

spoon refusal @ 23.3' bgs, auger to 24', spoon refusal at 24.6'; auger refusal at 25.75' bsg; begin NQ coring at 20.0'. Core run 1 = 25.75-27.5'+/-, @27.5' core barrel drops nearly 3' into rock void(31.5'), approx. 2.3' of water in void; install rubber furnco upside down to hold bentonite at 26.5'; Drillers lose 250-300 galllons of coring water in first foot of coring Construct MW-3: screen=27-31'; sandpack=none(void); bentonite seal=22-26.5'; grout=22'-grade

GENERAL NOTES:
1) NDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
TORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	BORING: WB-03 (MW-3)
City of Watertown, NY	SHEET 2 OF 2
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: N/A DATUM: N/A
START DATE: 9/17/08 END DATE: 9/18/08

DRILLER: Robert
JCL GEOLOGIST: E. Detweiler
CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 6.25" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NQ Core / HX rollerbit (ream)

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	6		20	NA	20%		0.0
21	5			↓	↓	@21': medium brown f Sandy SILT, moist, firm, Fe staining	
	11						
22	15	S11	22				
	21				20%		
23	17				↓		
	50/0.3'	S12	23.3				
24	-				50%	@24': limestone fragments in spoon, dry @ overburden FILL/bedrock interface	0.0
	14				↓		
25	50/0.1'	S13	24.6			spoon refusal @24.6', auger refusal at 25.75'	0.0
26						25.75	0.0
	NA	C1	26	26%	33%	@approx. 27.5' core barrel drops 3'+/- into bedrock void, construct custom well	
27	↓			↓	↓	@26'; moderate to highly weathered limestone, close fractures, hard, medium bedded	0.0
28							
29							
30							
31							
			31.5			31.5	
32							
33						Total Depth = 31.5' bgs	
34							
35							
36							
37							
38							
39							
40							

LEGEND
S- ON SOIL SAMPLE
U- BED SOIL SAMPLE
C- CORE SAMPLE

see pg.1 for drilling notes

GENERAL NOTES:
1) NDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
TORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	BORING: WB-04 (MW-4)
City of Watertown, NY	SHEET 1 OF 2
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN

DRILLER: Robert
JCL GEOLOGIST: E. Detweiler

GROUND SURFACE ELEVATION: N/A DATUM: N/A
START DATE: 9/18/08 END DATE: 9/18/08

CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 6.25" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: HX core

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	NA	NA	NA	NA	NA	no sampling; see boring log SB-18 for soil description	
1	↓	↓	↓	↓	↓		
2							0-2': 0
3							
4							2-4': 0
5							
6							4-6': 0
7							
8							6-8': 0
9							
10							8-10': 0
11							
12							10-12': 0
13							
14							12-14': 0
15							
16							14-16':78
17							
18							16-18':38
19							
20						20	18.0

LEGEND
S- ON SOIL SAMPLE
U- BED SOIL SAMPLE
C- CORE SAMPLE

Auger refusal @ 25.5' bgs; begin coring at 25.5'.
Core run 1 = 25.5-30.2', run 2=30.2-35.2', run 3=35.2-40.2'
core run 1 wouldn't advance, spinning on 10" of wood
Construct MW-4: screen=38.5-23.5'; sandpack=38.5-22'; bentonite seal=22-20'; grout=20'-grade

GENERAL NOTES:
1) NDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
TORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	BORING: WB-04 (MW-4)
City of Watertown, NY	SHEET 2 OF 2
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: N/A DATUM: N/A
START DATE: 9/18/08 END DATE: 9/18/08

DRILLER: Robert
JCL GEOLOGIST: E. Detweiler
CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 6.25" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NQ Core / HX rollerbit (ream)

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	NA	NA	NA	NA	NA		0.0
21	↓	↓	↓	↓	↓		
22							
23							
24							0.0
25							
						@ 25.5' auger refusal	0.0
26		C1	25.5			@25.5': highly weathered limestone, hard, parting to medium bedding, very close to close fractures, few pits/vugs	
27							
28							
29							
30							
		C2	30.2	42%	78%	@30.5': core barrel drops approx 0.25' in small void; at 30.8': massive bedding, few porous voids	0.0
31							
32							
33							
34							
35							
		C3	35.2				0.0
36							
37							
38							
39							
40							

LEGEND
S- ON SOIL SAMPLE
U- BED SOIL SAMPLE
C- CORE SAMPLE

see pg.1 for drilling notes Total Depth =40.2'

GENERAL NOTES:
1) NDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
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PROJECT	BORING: WB-05 (MW-5)
City of Watertown, NY	SHEET 1 OF 2
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN

DRILLER: Robert
GROUND SURFACE ELEVATION: N/A DATUM: N/A
JCL GEOLOGIST: E. Detweiler
START DATE: 9/22/08 END DATE: 9/22/08

CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 6.25" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: HX core

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	NA	NA	NA	NA	NA	@0': medium brown SAND, moist, loose FILL (close proximity to SB-8)	
1	↓	↓	↓	↓	↓		
						@1.5': encounter bedrock	0.0
2		C1	1.5	72%	69%	@1.5': slightly weatherd limestone, hard, thin to thick bedding, very close fracture spacing	0.0
3							
4							
5							
6		C2	5.6	100%	100%		0.0
7							
8							
9							
10							
11		C3	10.6	100%	98%	@10.6': massive bedding	0.0
12							
13							
14							
15							
16		C4	15.6	100%	100%		0.0
17							
18							
19							
20							

LEGEND
S- ON SOIL SAMPLE
U- BED SOIL SAMPLE
C- CORE SAMPLE

Auger refusal @ 1.5' bgs; begin coring at 1.5'.
Core run 1 = 1.5-5.6', run 2=5.6-10.6', run 3=10.6-15.6', run 4=15.6-20.6', run 5=20.6-25.6', run 6=25.6-30.6'

Construct MW-5: screen=29.8-19.8'; sandpack=29.8-18'; bentonite seal=18-15'; grout=15'-grade

GENERAL NOTES:
1) NDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
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PROJECT	BORING: WB-05 (MW-5)
City of Watertown, NY	SHEET 2 OF 2
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN

DRILLER: Robert
GROUND SURFACE ELEVATION: N/A DATUM: N/A
JCL GEOLOGIST: E. Detweiler
START DATE: 9/18/08 END DATE: 9/18/08

CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 6.25" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NQ Core / HX rollerbit (ream)

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	NA						
21	↓	C5	20.6	100%	100%	@20.6': as above, slightly weathered discontinuities at 22.4' and 23.9'	0.0
22							
23							
24							
25							
26		C6	25.6	100%	98%	@ 30.6': sulphur odor when core cracked w hammer	0.0
27							
28							
29							
30							
31			30.6			30.6	0.0
32						Total Depth = 30.6' bgs	
33							
34							
35							
36							
37							
38							
39							
40							

LEGEND
S- ON SOIL SAMPLE
U- BED SOIL SAMPLE
C- CORE SAMPLE

see pg.1 for drilling notes

GENERAL NOTES:
1) NDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
TORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	BORING: WB-06 (MW-6)
City of Watertown, NY	SHEET 1 OF 2
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN

DRILLER: Robert
GROUND SURFACE ELEVATION: N/A DATUM: N/A
JCL GEOLOGIST: E. Detweiler
START DATE: 9/23/08 END DATE: 9/25/08

CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 6.25" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: HX core

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	NA	NA	NA	NA	NA	@0': black foundry SAND, some Silt, coke, slag, dry FILL	
1	↓	↓	↓	↓	↓		
2						2	0.0
		C1	2	35%	70%	@2': slightly weatherd limestone, hard, banded to thick bedding, very close fracture spacing, horizontal & vertical fracturing; heavily fractured to 6' bgs, drill break	0.0
3							
4							
5							
6						@6': thin to thick bedding, very close vertical & horizontal fracturing, few pitted to vug voids	0.0
7							
8							
9							
10		C2	9.8	79%	92%		0.0
11							
12							
13							
14							
15		C3	14.8	75%	88%	@ 15': medium to massive bedding	0.0
16							
17							
18							
19							
20		C4	19.8	100%	95%		0.0

LEGEND
S- ON SOIL SAMPLE
U- BED SOIL SAMPLE
C- CORE SAMPLE

Auger refusal @ 2' bgs; begin coring at 2'
Core run 1 = 2-9.8', run 2=9.8-14.8', run 3=14.8-19.8', run 4=19.8-24.8', run 5=24.8-29.8', run 6=29.8-34.0'
spun 4" casing to 2.8' to core through
Construct MW-6: screen=34-24'; sandpack=34-23'; bentonite seal=23-21'; grout=21'-grade

GENERAL NOTES:
1) NDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
TORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	BORING: WB-06 (MW-6)
City of Watertown, NY	SHEET 2 OF 2
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN

DRILLER: Robert
GROUND SURFACE ELEVATION: N/A DATUM: N/A
JCL GEOLOGIST: E. Detweiler
START DATE: 9/23/08 END DATE: 9/25/08

CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 6.25" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NQ Core / HX rollerbit (ream)

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	NA					as above	
21	↓						0.0
22							
23							
24							
25		C5	24.8	92%	95%		
26							0.0
27							
28							
29							
30		C6	29.8	100%	100%		
31							0.0
32							
33							
34			34			34	
35						Total depth = 34.0' bgs	
36							
37							
38							
39							
40							

LEGEND
S-)ON SOIL SAMPLE
U- BED SOIL SAMPLE
C- :ORE SAMPLE

see pg.1 for drilling notes

GENERAL NOTES:
1) NDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
TORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	BORING: WB-07 (MW-7)
City of Watertown, NY	SHEET 1 OF 2
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN

DRILLER: Robert
GROUND SURFACE ELEVATION: N/A DATUM: N/A
JCL GEOLOGIST: E. Detweiler
START DATE: 9/25/08 END DATE: 9/25/08

CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 6.25" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: HX core

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	NA	NA	NA	NA	NA	@0': black foundry SAND, some Silt, coke, slag, dry FILL	
1	↓	↓	↓	↓	↓		
		C1	1.1	36%	72%	1.1	
2						@1.1': slightly weatherd limestone, hard, banded to thick bedding, very close fracture spacing, horizontal & vertical fracturing; heavily fractured to 4' bgs, drill break	0.0
3							
4							
						@4.3': thin to thick bedding, very close vertical & horizontal fracturing, few porous to pitted voids	
5		C2	4.9	74%	85%		0.0
6							
7							
8							
9							
10							
		C3	10.2	100%	100%	@10.2': massive bedding	0.0
11							
12							
13							
14							
15							
		C4	15.2				0.0
16							
17							
						@17.2': joint, fresh to slightly weathered, sulphur odor	
18							
19							
20							

LEGEND
S-)ON SOIL SAMPLE
U- BED SOIL SAMPLE
C- :ORE SAMPLE

no augering, bedrock at 1.1' bgs; spun 4" casing to 3' to core through (1.9' into rock);begin coring at 1.1'
Core run 1 = 1.1-4.9', run 2=4.9-10.2', run 3=10.2-15.2', run 4=15.2-20.2', run 5=20.2-25.2', run 6=25.2-30.2'
run 7=30.2-35.2', run 8=35.2-40.2'
Construct MW-7: screen=40.2-30.2'; sandpack=40.2-28.2'; bentonite seal=28.2-25.7'; grout=25.7'-grade

GENERAL NOTES:
1) NDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
TORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	BORING: WB-07 (MW-7)
City of Watertown, NY	SHEET 2 OF 2
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN

DRILLER: Robert — GROUND SURFACE ELEVATION: N/A — DATUM: N/A

JCL GEOLOGIST: E. Detweiler — START DATE: 9/25/08 — END DATE: 9/25/08

CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 6.25" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NQ Core / HX rollerbit (ream)

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	NA	C5	20.2	100%	100%	as above, sulphur odor	0.0
21	↓						
22							
23							
24							
25							
		C6	25.2	100%	100%	solid 54" core from 25.2' to 29.7'	0.0
26							
27							
28							
29							
30							
		C7	30.2	100%	100%		0.0
31							
32							
33							
34							
35							
		C8	35.2	100%	100%	porous to pitted voids	0.0
36							
37							
38							
39							
40			40.2			40.2	0.0

LEGEND
S- ON SOIL SAMPLE
U- BED SOIL SAMPLE
C- CORE SAMPLE

see pg.1 for drilling notes — Total Depth = 40.2' bgs

GENERAL NOTES:
1) NDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
TORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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PROJECT	BORING: WB-08 (MW-8)
City of Watertown, NY	SHEET 1 OF 2
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN

DRILLER: Robert
GROUND SURFACE ELEVATION: N/A DATUM: N/A
JCL GEOLOGIST: E. Detweiler
START DATE: 9/26/08 END DATE: 9/26/08

CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 6.25" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: HX core

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
	NA	NA	NA	NA	NA	@0': black foundry SAND, some Silt, coke, slag, dry FILL	
1	↓	↓	↓	↓	↓		
		C1	1.5	46%	81%	1.1	0.0
2						@1.1': slightly weatherd limestone, hard, banded to thick bedding, very close fracture spacing, horizontal & vertical fracturing; heavily fractured to 5.2' bgs, drill break	0.0
3							
4							
5		C2	4.8	84%	100%		0.0
						@5.2': thin to thick bedding, very close vertical & horizontal fracturing	
6							
7							
8							
9							
10							
		C3	10.1	100%	100%	@10.2': massive bedding, few porous voids	0.0
11							
12							
13							
14							
15							
		C4	15.3	100%	100%		0.0
16							
						@16.6': moderately weathered joint, very close fracture spacing	
17							
18							
19							
20							

LEGEND
S- ON SOIL SAMPLE
U- BED SOIL SAMPLE
C- CORE SAMPLE

no augering, bedrock at 1.5' bgs; spun 4" casing to 3' to core through (1.5' into rock);begin coring at 1.5'
Core run 1 = 1.5-4.8', run 2=4.8-10.1', run 3=10.1-15.3', run 4=15.3-20.3', run 5=20.3-25.3', run 6=25.3-30.3'
run 7=30.3-35.4'; in first run natural gas-refuse type odor during coring, film on water but no elevated readings
Construct MW-8: screen=35.4-15.4'; sandpack=35.4-14.4'; bentonite seal=14.4-12.4'; grout=12.4'-grade

GENERAL NOTES:
1) NDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
TORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL
175 Sullys Trail, Suite 202
Corporate Crossings Office Park
Pittsford, NY 14534

PROJECT	BORING: WB-08 (MW-8)
City of Watertown, NY	SHEET 2 OF 2
Sewall's Island Remedial Investigation	JOB #: 34202
Soil Borings	CHKD. BY:

BORING LOCATION: SEE PLAN
DRILLER: Robert
GROUND SURFACE ELEVATION: N/A DATUM: N/A
JCL GEOLOGIST: E. Detweiler
START DATE: 9/26/08 END DATE: 9/26/08
CONTRACTOR: Paragon Env. Constr.
TYPE OF DRILL RIG: Mobile B-48 ATV rig
CASING SIZE AND TYPE: 6.25" Hollow Stem Auger
OVERBURDEN SAMPLING METHOD: Continuous/Split spoons
ROCK DRILLING METHOD: NQ Core / HX rollerbit (ream)

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS
NA				

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION		PID (ppm)
	NA	C5	20.3	100%	100%	as above		0.0
21	↓							
22								
23								
24								
25								
		C6	25.3	100%	100%	@25.6': moderately weathered, very close joint (horizontal fracture)		0.0
26								
27								
28								
29								
30								
		C7	30.3	100%	100%			0.0
31								
32								
33								
34								
35								
		C8	35.4	100%	100%	few porous to pitted voids	35.4	0.0
36								
37								
38								
39								
40								

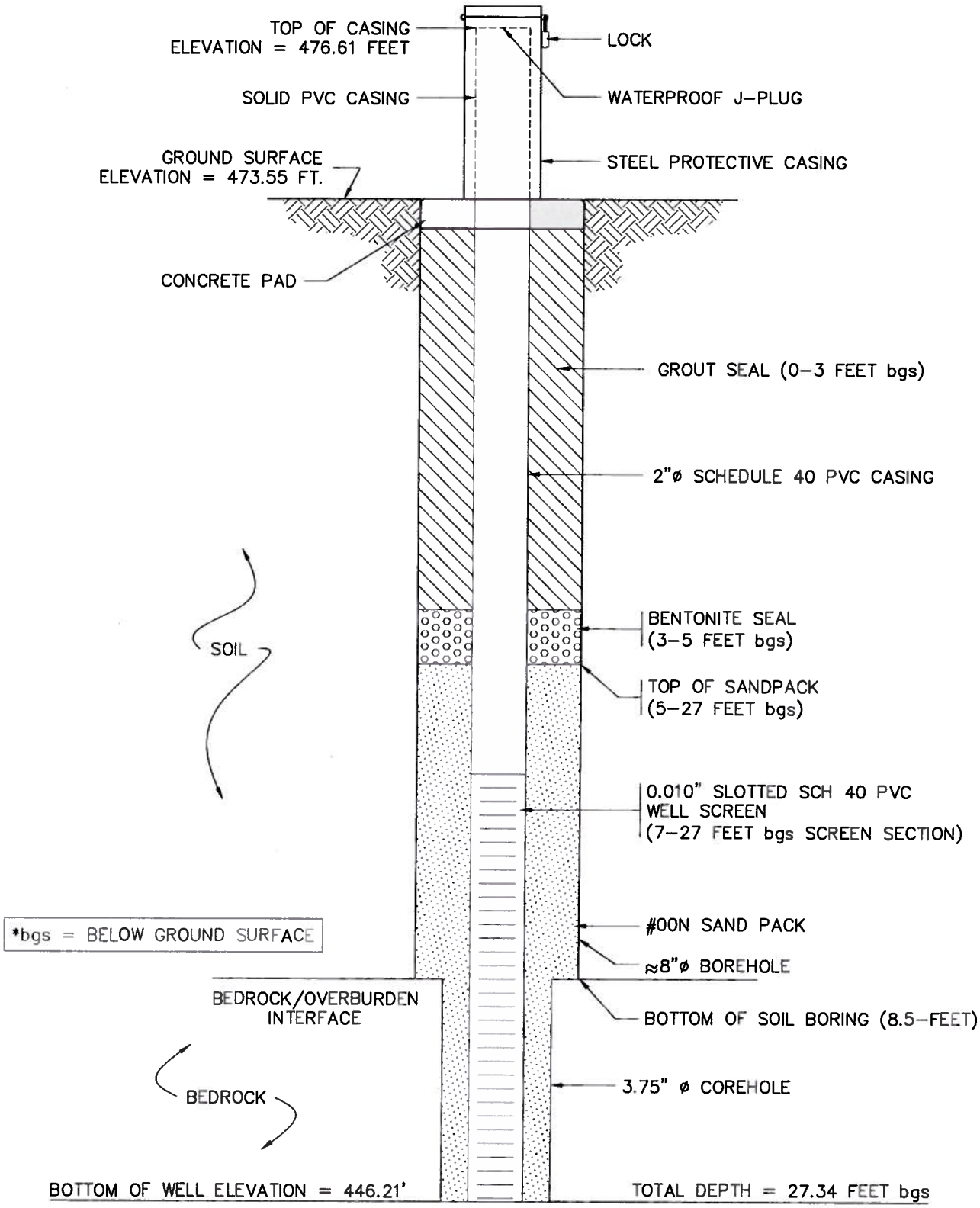
LEGEND
S- ON SOIL SAMPLE
U- BED SOIL SAMPLE
C- CORE SAMPLE

see pg.1 for drilling notes

GENERAL NOTES:
1) NDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
TORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

MW-1 CONSTRUCTION DETAIL

INSTALLED 9/12/2008



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MONITORING WELL AS-BUILT DIAGRAM

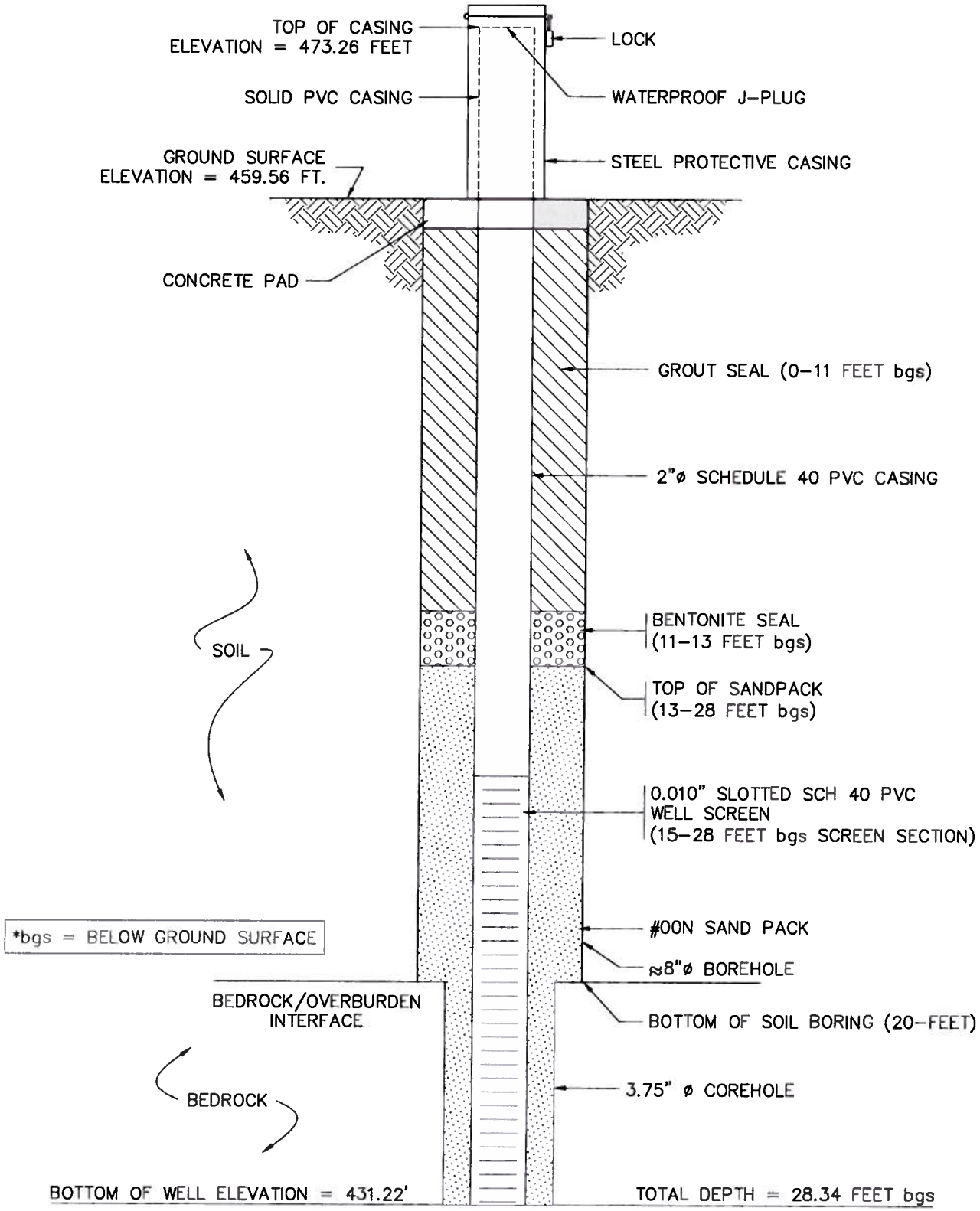
MONITORING WELL 1
CITY OF WATERTOWN
SEWALL'S ISLAND IRM

DATE:	MARCH 2012
SCALE:	NONE
DRAWN/CHECKED	DLS/ED
P.N.	34202

J:\Projects\34200 Watertown\34202 Sewall's Island\Cadd\RI_MWs.dwg, 3/15/2012 1:26:45 PM, diane, AC2008

MW-2S CONSTRUCTION DETAIL

INSTALLED 9/15/2008 – 9/17/2008



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MONITORING WELL AS-BUILT DIAGRAM

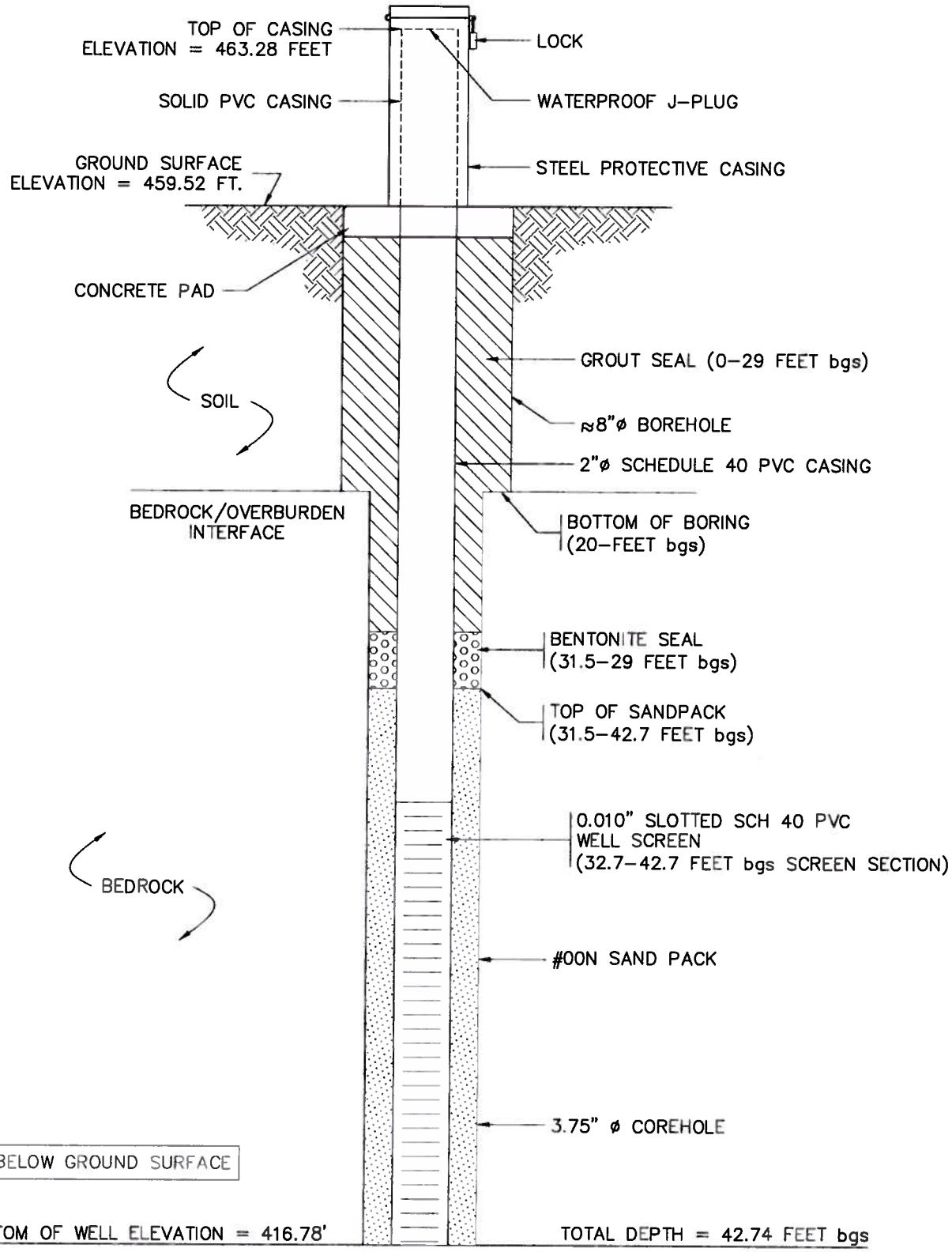
MONITORING WELL 2S
CITY OF WATERTOWN
SEWALL'S ISLAND IRM

DATE:	MARCH 2012
SCALE:	NONE
DRAWN/CHECKED	DLS/ED
P.N.	34202

J:\Projects\34200 Watertown\34202 Sewall's Island\Cadd\RI_MWs.dwg, 3/15/2012 1:27:19 PM, diane, AC2008

MW-2D CONSTRUCTION DETAIL

INSTALLED 9/16/2008 – 9/17/2008



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MONITORING WELL AS-BUILT DIAGRAM

MONITORING WELL 2D
CITY OF WATERTOWN
SEWALL'S ISLAND IRM

DATE:	MARCH 2012
SCALE:	NONE
DRAWN/CHECKED	DLS/ED
P.N.	34202

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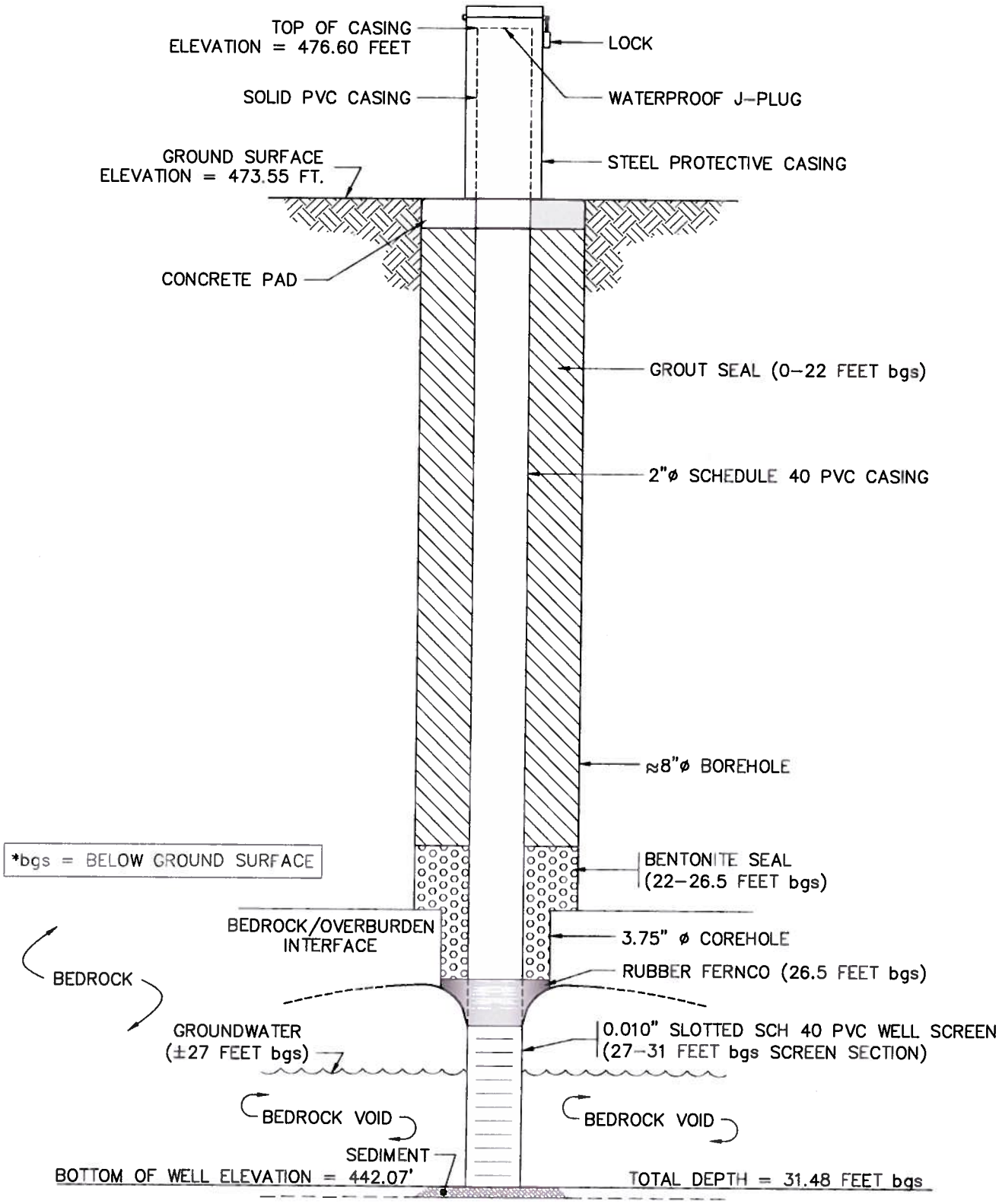
MW-3 CONSTRUCTION DETAIL

INSTALLED 9/17/2008 – 9/18/2008



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MONITORING WELL AS-BUILT DIAGRAM

MONITORING WELL 3
CITY OF WATERTOWN
SEWALL'S ISLAND IRM

DATE:	MARCH 2012
SCALE:	NONE
DRAWN/CHECKED	DLS/ED
P.N.	34202

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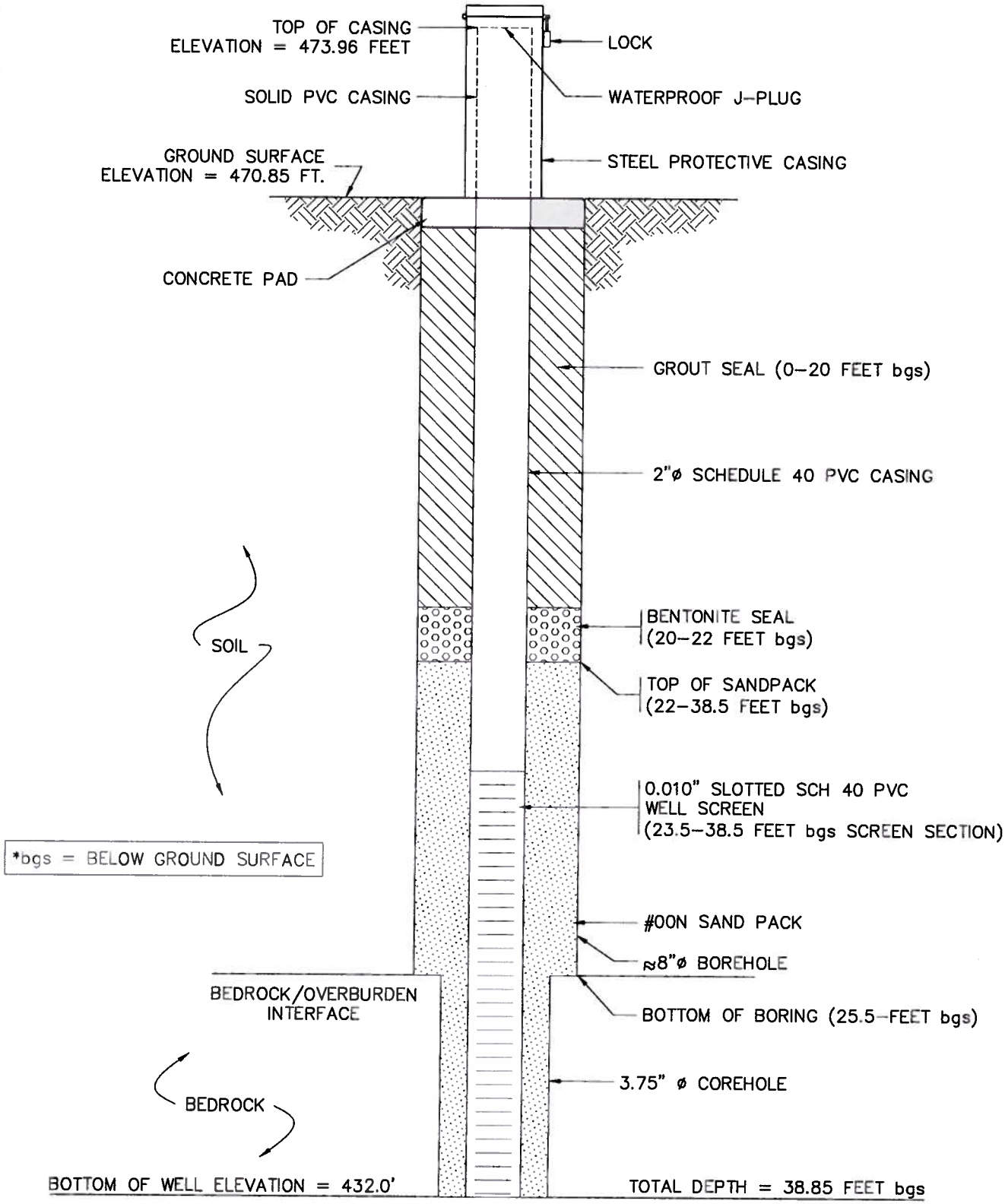
MW-4 CONSTRUCTION DETAIL

INSTALLED 9/18/2008 – 9/19/2008



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MONITORING WELL AS-BUILT DIAGRAM

MONITORING WELL 4
CITY OF WATERTOWN
SEWALL'S ISLAND IRM

DATE:	MARCH 2012
SCALE:	NONE
DRAWN/CHECKED	DLS/ED
P.N.	34202

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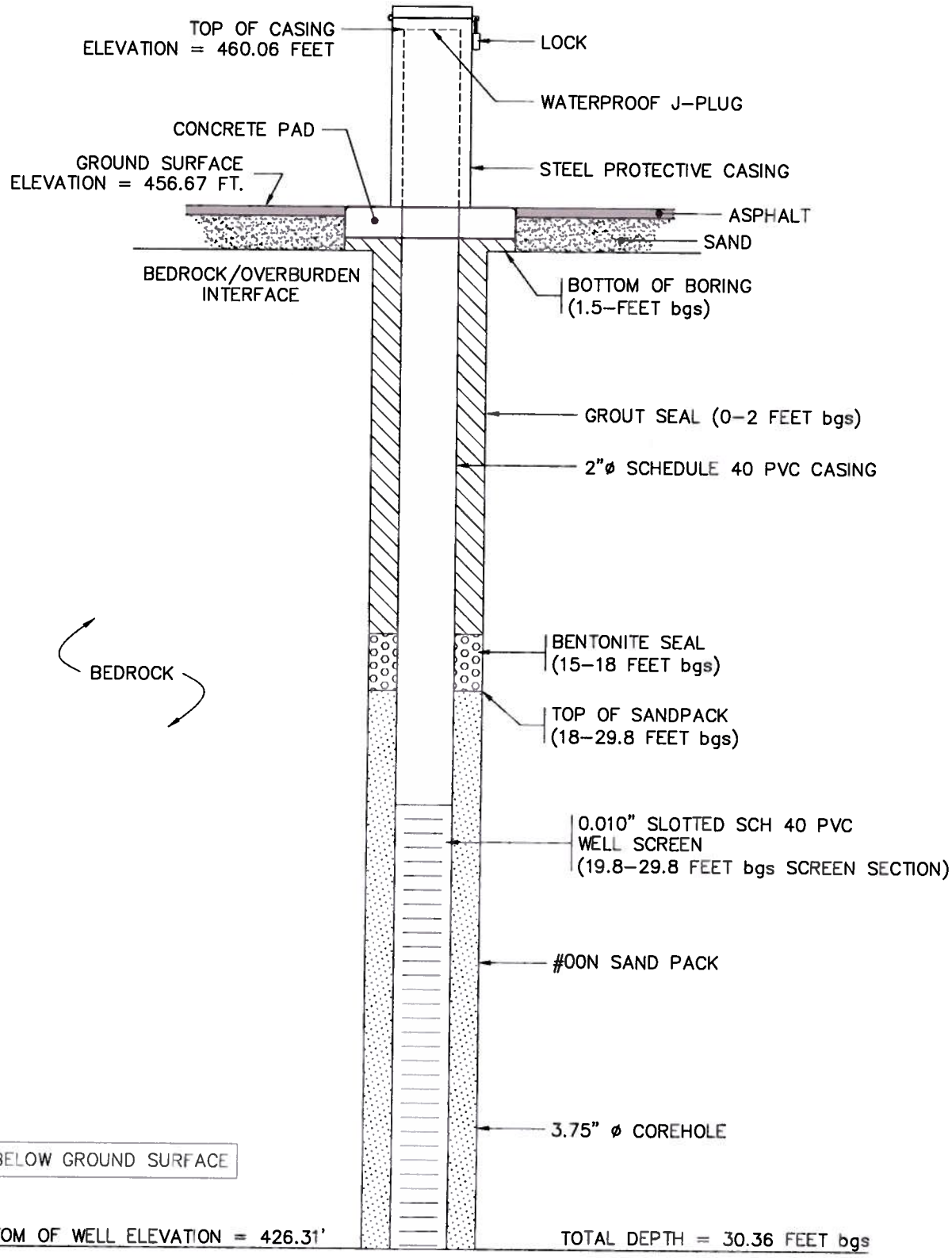
MW-5 CONSTRUCTION DETAIL

INSTALLED 9/22/2008 – 9/23/2008



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MONITORING WELL AS-BUILT DIAGRAM

MONITORING WELL 5
CITY OF WATERTOWN
SEWALL'S ISLAND IRM

DATE:	MARCH 2012
SCALE:	NONE
DRAWN/CHECKED	DLS/ED
P.N.	34202

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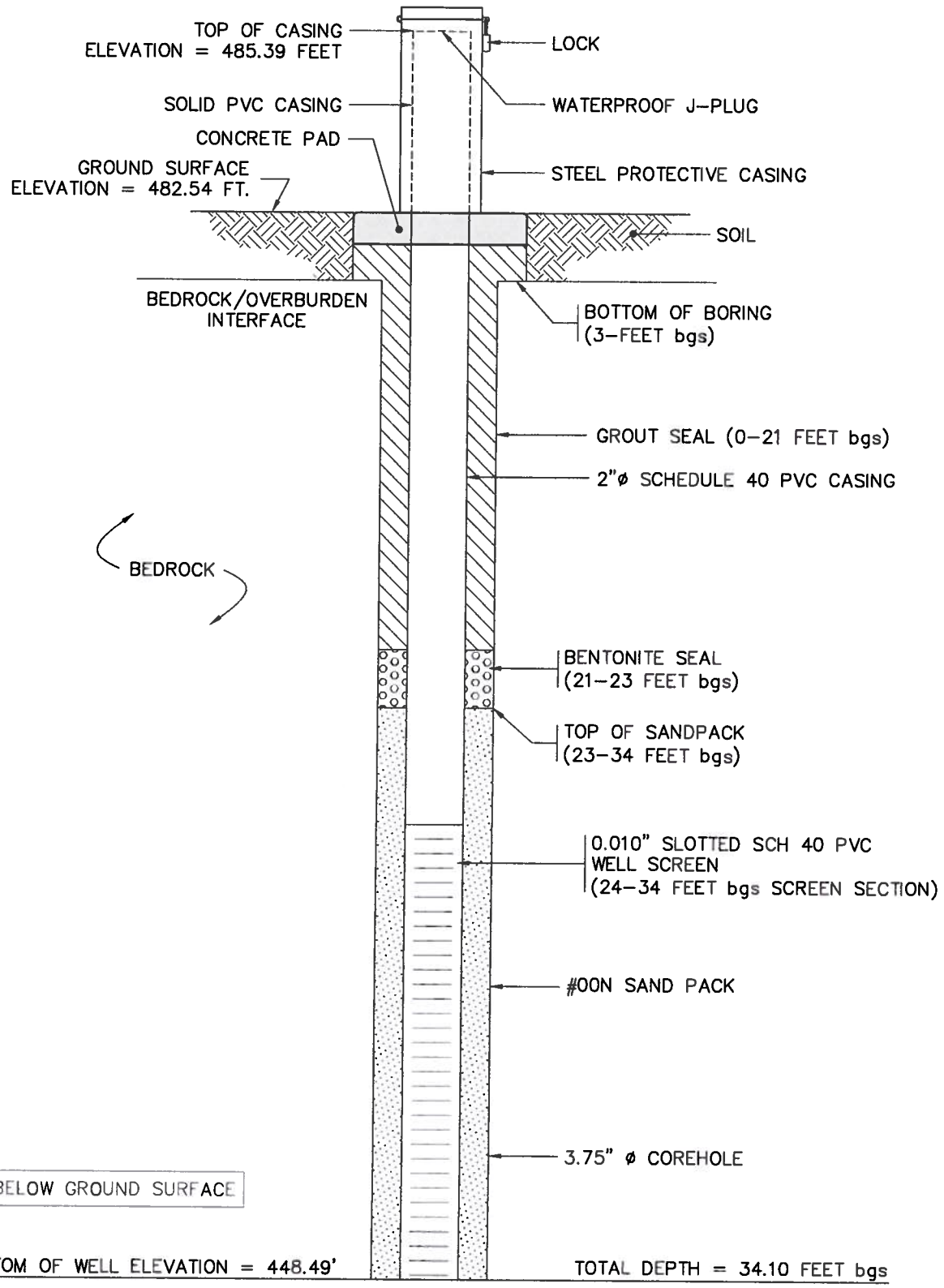
MW-6 CONSTRUCTION DETAIL

INSTALLED 9/23/2008 – 9/25/2008



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MONITORING WELL AS-BUILT DIAGRAM

MONITORING WELL 6
CITY OF WATERTOWN
SEWALL'S ISLAND IRM

DATE:	MARCH 2012
SCALE:	NONE
DRAWN/CHECKED	DLS/ED
P.N.	34202

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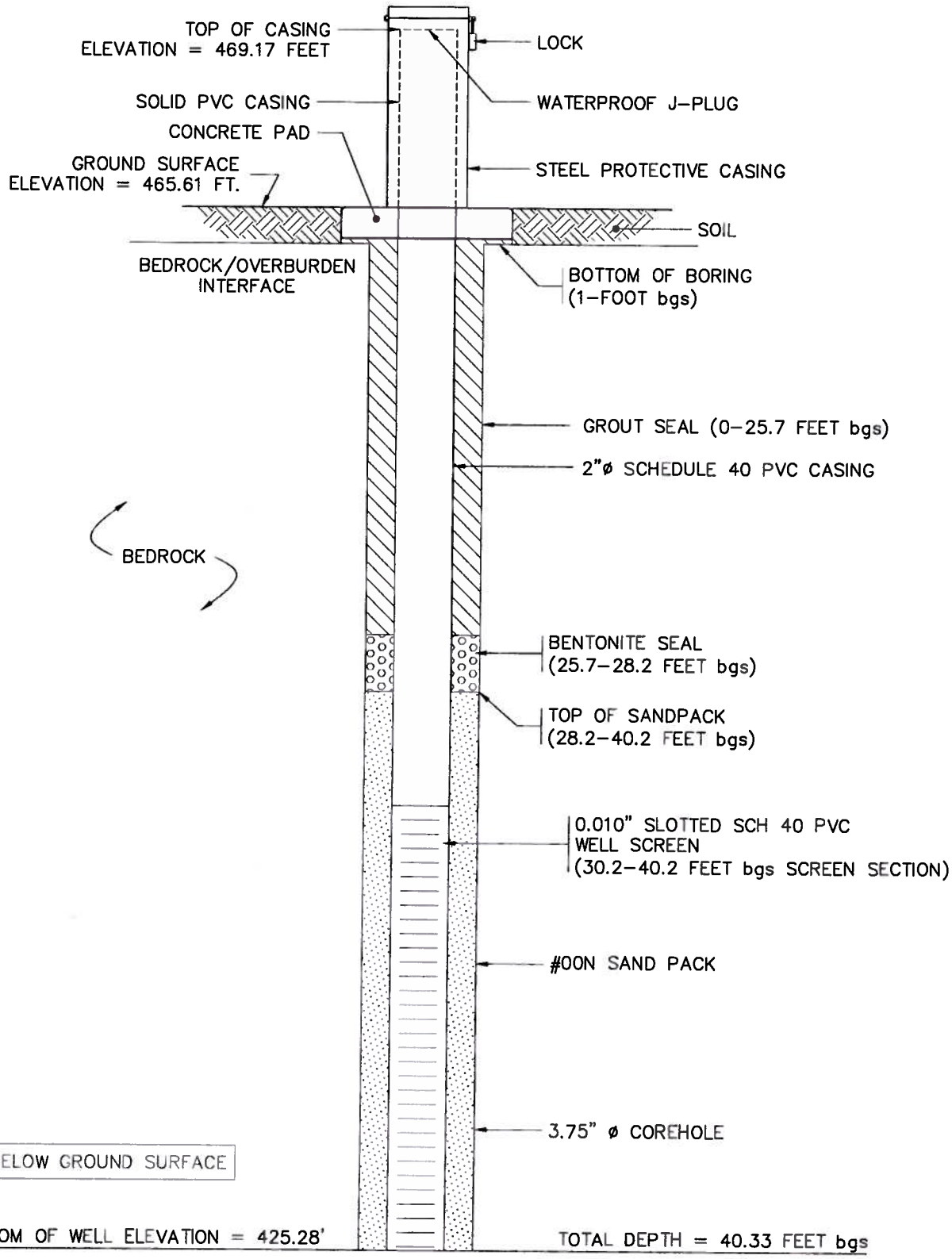
MW-7 CONSTRUCTION DETAIL

INSTALLED 9/25/2008



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MONITORING WELL AS-BUILT DIAGRAM

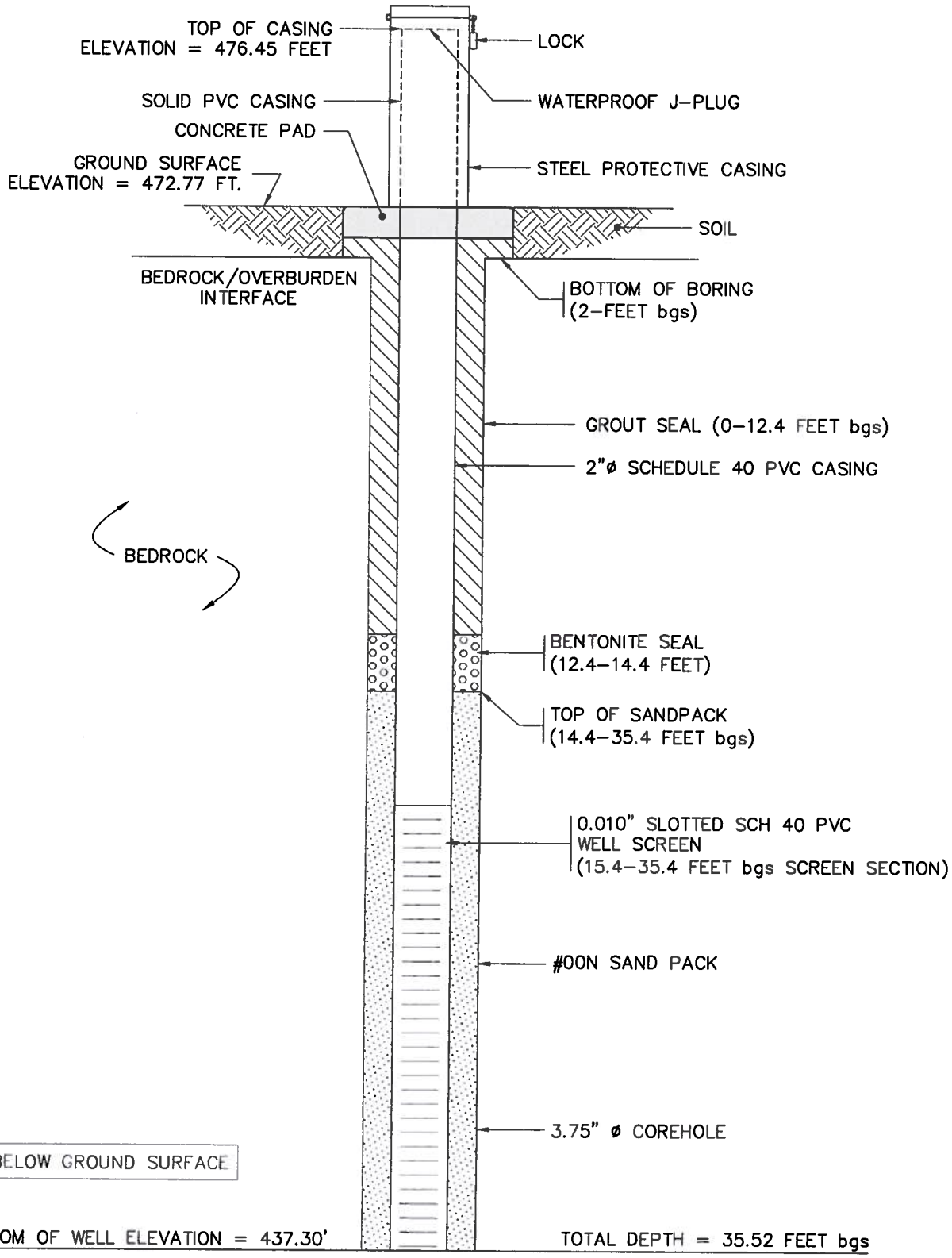
MONITORING WELL 7
CITY OF WATERTOWN
SEWALL'S ISLAND IRM

DATE:	MARCH 2012
SCALE:	NONE
DRAWN/CHECKED	DLS/ED
P.N.	34202

J:\Projects\34200 Watertown\34202 Sewall's Island\Cadd\RI_MW&.dwg, 3/15/2012 1:28:49 PM, diane, AC2008

MW-8 CONSTRUCTION DETAIL

INSTALLED 9/26/2008



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MONITORING WELL AS-BUILT DIAGRAM

MONITORING WELL 8
CITY OF WATERTOWN
SEWALL'S ISLAND IRM

DATE:	MARCH 2012
SCALE:	NONE
DRAWN/CHECKED	DLS/ED
P.N.	34202

J:\Projects\34200 Watertown\34202 Sewall's Island\Cadd\RI_MWs.dwg, 3/15/2012 1:29:08 PM, diane, AC2008

Well Development Field Record

LU ENGINEERS
Civil and Environmental
2230 Penfield Road
Penfield, New York 14526
585.377.1450 Fax 585.377.1266

Project Name: Sewalls Island
Well ID: MW-1
Logged by: RCM

Development Date: 11-5-08
Installation Date: 9-12-08

Job # 34202
Start Time: 13:20
End Time: 14:40

Initial Depth to Water: 11.85
Final Depth to Water: >30.1
Screen Length: 20'
Well Volume: 3 gals
(2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth)

Measurement Point: top PVC casing mark
Well Depth before: 30.40
Well Depth after:
Sediment Depth Removed:

Well Diameter: 2"
Well Integrity:
Cap ✓
Casing ✓
Locked ✓
Collar ✓
no j-plug

Protective casing stick-up: 3.15'
Casing/Well difference: 0.09'

WATER QUALITY PARAMETERS

Time	Volume Purged (gals)	Purge Rate (gals/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	Comments DTW	Volts
13:25	~~2.5~~							12.2	12.0
13:40	2.5gal	0.060	15.1	7.12	~~8~~ 5.35	70	1.22	20.4	13.0
13:55	5 gal	0.060	15.1	6.94	4.22	42	1.19	25.7	13.5
14:05	Well dry							>28.3	14.0
14:25	start pump 0.16					48		27.3	
14:30	Well dry								

Type of Water Quality Meter: Horiba U-22
Purge Observations: clear, well pumped dry
Purge Water Containerized: no

EQUIPMENT DOCUMENTATION

- ☒ Submersible Pump monsoon/whale
- ☐ PVC Bailer
- ☐ Surge Block
- ☐ Other

Approximate Recharge Rate: holding @ 27.3 dtw

Total Gallons Removed: 5 gal

Well Development Criteria Met:

Notes: Well purged dry after pumping for 40 min at approx 500mL/min
Let recharge for 20 min

Signature: Eric Deffel
Checked By: ED

Well Development Field Record

LU ENGINEERS
Civil and Environmental
2230 Penfield Road
Penfield, New York 14526
585.377.1450 Fax 585.377.1266

Project Name: Sewalls Island
Well ID: MW-2S
Logged by: RCM

Development Date: 11-5-08
Installation Date: 9/15/08, 9/16/08

Job # 34202
Start Time: 18:00
End Time: _____

Initial Depth to Water: 18.41
Final Depth to Water: _____
Screen Length: 13'
Well Volume: 2.22 gals
(2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth)

Measurement Point: TOC
Well Depth before: 32.05
Well Depth after: _____
Sediment Depth Removed: _____

Well Diameter: 2"
Well Integrity:
Cap ✓
Casing ✓
Locked ✓
Collar ✓

Protective casing stick-up: 3.86
Casing/Well difference: 0.16'

WATER QUALITY PARAMETERS

Time	Volume Purged (gals)	Purge Rate (gals/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	DTW	Comments
18:10'	start	pump							
18:15	5 gal	0.6	12.1	7.3	6.26	>1000	1.15	21.3	
18:20	10 gal	0.6	12.3	7.2	5.2	283	1.15	22.03	
18:28	15 gal	0.6	12.5	7.2	3.63	271	1.12	22.20	
18:34	20 gal	0.6	11.9	7.2	2.94	305	1.11	21.80	
18:41	25 gal	0.6	12.2	7.2	2.57	81	1.11	22.84	

Type of Water Quality Meter: Horiba U-22
Purge Observations: petroleum odor, slight sheen, grey to brown turbid
Purge Water Containerized: yes

EQUIPMENT DOCUMENTATION

- ☒ Submersible Pump Monsoon/whale
- ☐ PVC Bailer
- ☐ Surge Block
- ☐ Other _____

Approximate Recharge Rate: _____

Total Gallons Removed: 40 gallons

Well Development Criteria Met:

Notes:

8:49	30 gal					48			
8:57	35 gal								
9:03	40 gal								

Signature: [signature]
Checked By: ED

Well Development Field Record

LU ENGINEERS
Civil and Environmental
2230 Penfield Road
Penfield, New York 14526
585.377.1450 Fax 585.377.1266

Project Name: Seawalls
Well ID: MW-2D
Logged by: RM

Development Date: 11-5-08
Installation Date: 9/16/08 - 9/17/08

Job # 34202
Start Time: 16:25
End Time:

Initial Depth to Water: 28.7
Final Depth to Water:
Screen Length: 10'
Well Volume: 2.9 gals
(2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth)

Measurement Point: TOC
Well Depth before: 46.5
Well Depth after:
Sediment Depth Removed:

Well Diameter: 2"
Well Integrity:
Cap ✓
Casing ✓
Locked ✓
Collar ✓

Protective casing stick-up: 3.96'
Casing/Well difference: 0.2'

WATER QUALITY PARAMETERS

Time	Volume Purged (gals)	Purge Rate (gals/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	Comments
16:32	start pump					>1,000		
16:40	5 gal		11.7	8.8	6.78	769	0.763	
16:47	10 gal		11.2	8.26	6.22	>1,000	0.782	
16:57	15 gal		11.1	8.1	7.12	>1,000	0.525	
17:05	20 gal		11.0	7.9	7.34	288	0.535	
17:25	25 gal		11.0	7.5	6.97	66	0.493	

Type of Water Quality Meter: Horiba U22
Purge Observations: Clear
Purge Water Containerized: NO

EQUIPMENT DOCUMENTATION

- ☑ Submersible Pump whale
- ☐ PVC Bailer
- ☐ Surge Block
- ☐ Other

Approximate Recharge Rate:

Total Gallons Removed: 35 gal

Well Development Criteria Met:

Notes:

17:25	30 gal		11.0	7.5	6.68	219	0.533

Signature: [signature]
Checked By: ED

Well Development Field Record

LU ENGINEERS
Civil and Environmental
2230 Penfield Road
Penfield, New York 14526
585.377.1450 Fax 585.377.1266

Project Name: SENALL'S ISLAND RI-ERP
Well ID: MW-3
Logged by: ED

Development Date: 11/5/08
Installation Date: 9/17/08-9/18/08

Job # 34202
Start Time: 13:25
End Time: 14:30

Initial Depth to Water: 30.50
Final Depth to Water: 30.62
Screen Length: 4'
Well Volume: 0.66 gals
(2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth)

Measurement Point: TOP PVC CASING
Well Depth before: 34.55
Well Depth after: 34.54
Sediment Depth Removed: 0.01'

Well Diameter: 2"
Well Integrity:
Cap ✓
Casing ✓
Locked ✓
Collar

Protective casing stick-up: 3.17'
Casing/Well difference: 0.12'

WATER QUALITY PARAMETERS

Time	Volume Purged (gals)	Purge Rate (gals/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	Comments
13:40	0		13.5	6.85	3.65	557	0.839	DTW=30.55 19mV
13:50	5		12.8	6.41	1.33	395	0.821	DTW=30.60 57mV
13:58	10	0.62 gpm	12.6	6.47	1.80	49.3	0.812	DTW=30.62 64mV
14:06	15	0.62 gpm	12.6	6.45	1.28	48.5	0.810	DTW=30.6 68mV
14:14	20	0.62 gpm	12.6	6.47	1.42	28.5	0.810	DTW=30.62 67mV
14:22	25	0.62 gpm	12.6	6.49	1.56	35.2	0.809	DTW=30.67 66mV

Type of Water Quality Meter: Horiba U-22, LaMotte 2020
Purge Observations: Rust-colored turbidity originally, cleaned up w/ each surge
Purge Water Containerized: NO

EQUIPMENT DOCUMENTATION

- ☒ Submersible Pump – Whale
- ☐ PVC Bailer
- ☐ Surge Block
- ☐ Other

Approximate Recharge Rate:

Total Gallons Removed: 26

Well Development Criteria Met:

Notes: Surged well every 5 min. to remove sed (note: no sandpack as screen is set in bedrock void)

Signature: Eric Detwiler
Checked By: RM

Well Development Field Record

LU ENGINEERS
Civil and Environmental
2230 Penfield Road
Penfield, New York 14526
585.377.1450 Fax 585.377.1266

Project Name: SEWALL'S ISLAND ERP
Job # 34202
Well ID: MW-4
Development Date: 11/5/08
Start Time: 10:05
Logged by: ED
Installation Date: 9/18/08
End Time: 12:10

Initial Depth to Water: 27.08
Measurement Point: PVC CASING
Well Diameter: 2"
Final Depth to Water: 27.15
Well Depth before: 41.98'
Well Integrity:
Screen Length: 15'
Well Depth after: TD=42.07'
Cap ✓
Well Volume: 2.44 gals
Sediment Depth Removed: 0.09
Casing ✓
(2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth)
Locked ✓
Collar

Protective casing stick-up: 3.29'
Casing/Well difference: 0.18'

WATER QUALITY PARAMETERS

Time	Volume Purged (gals)	Purge Rate (gals/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	Comments
10:15	0		12.2	6.32	4.14	<1000	1.30	ORP=-53 mV TURBID
10:20	2		10.9	6.37	1.89	278	1.23	ORP=-83 mV DTW=28'
10:30	5	DTW=28.3'	10.8	6.5	4.28	77.8	1.17	surging -94mV
10:35	9	DTW=28.28	10.7	6.60	4.70	96.5	1.15	surging -92mV
10:50	12	DTW=28.25	10.7	6.60	2.50	40.5	1.14	-102mV
11:00	15	DTW=28.27	10.6	6.70	3.69	136	1.10	surging -102mV

Type of Water Quality Meter: Horiba U-22
Purge Observations: turbidity cleared quickly
Purge Water Containerized: NO

EQUIPMENT DOCUMENTATION

- ☑ Submersible Pump – Whale
- ☐ PVC Bailer
- ☐ Surge Block
- ☐ Other

Approximate Recharge Rate:
Total Gallons Removed: 65 +/-

Well Development Criteria Met:

Notes: Well drew down 1-1.3' and held during purging

Signature: Eric Detail
Checked By: RM

Well Development Field Record

LU ENGINEERS
Civil and Environmental
2230 Penfield Road
Penfield, New York 14526
585.377.1450 Fax 585.377.1266

Project Name: Sewalls Island
Well ID: MW-5
Logged by: RCM

Development Date: 11-5-08
Installation Date: 9-22-08

Job # 34202
Start Time: 9:30
End Time: _____

Initial Depth to Water: 14.13
Final Depth to Water: 22.10
Screen Length: 10
Well Volume: 3.2 gals
(2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth)

Measurement Point: Mark on Riser PVC
Well Depth before: 33.75
Well Depth after: _____
Sediment Depth Removed: _____

Well Diameter: 2
Well Integrity:
Cap ✓
Casing ✓
Locked ✓
Collar ✓

Protective casing stick-up: 3.84

Casing/Well difference: 0.45'

WATER QUALITY PARAMETERS 9:42 Turn on pump, set rate @ 12.5 V

Time	Volume Purged (gals)	Purge Rate (gals/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	Comments	
9:49		0.25						DTW	V
10:05	5 gal	0.25	15.2	7.18	2.8	6,818	0.469	17.5	12.5
10:25	5 gal	0.25	15.1	7.3	3.10	396	0.438	18.2	12.2
10:40	5 gal	0.38	14.9	7.4	3.52	198	0.450	18.9	11.7
10:55	5 gal	0.38	15.1	7.4	3.50	240	0.460	18.2	11.5
11:10	5 gal	0.38	15.1	7.4	3.80	157	0.402	18.0	12.2

Type of Water Quality Meter: Horiba U-22
Purge Observations: Cloudy - Grey
Purge Water Containerized: No

EQUIPMENT DOCUMENTATION

- ☑ Submersible Pump Monsoon
- ☐ PVC Bailer
- ☐ Surge Block
- ☐ Other _____

Approximate Recharge Rate: _____

Total Gallons Removed: 30 +/-

Well Development Criteria Met:

Notes: Surged well with pump for 1.5 hrs.

Time	Volume	Purge Rate	Temp	pH	Dissolved O_2	Turbidity	Cond.	DTW	V
11:25	5 gal	0.30	15.2	7.4	3.70	207	0.42	21.6	12.5
11:40	5 gal	0.3	15.4	7.5	4.47	115	0.374	19.5	12.2
11:55	5 gal	0.3	15.4	7.5	4.10	29.4	0.372	22.1	12.0

Signature: Rebecca C May
Checked By: SD

12:15 +10 gal

Well Development Field Record

LU ENGINEERS
Civil and Environmental
2230 Penfield Road
Penfield, New York 14526
585.377.1450 Fax 585.377.1266

Project Name: Sewalls Island RI - ERP
Well ID: MW-6
Logged by: ED

Development Date: 11/5/08
Installation Date: 9/23/08 - 9/24/08

Job # 34202
Start Time: 14:50
End Time: _____

Initial Depth to Water: 23.20
Final Depth to Water: 23.90
Screen Length: 10'
Well Volume: 2.24 gals
(2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth)

Measurement Point: Top of PVC Casing
Well Depth before: 36.90
Well Depth after: 36.95
Sediment Depth Removed: 0.05'

Well Diameter: 2"
Well Integrity:
Cap ✓
Casing ✓
Locked ✓
Collar _____

Protective casing stick-up: 3.16'
Casing/Well difference: 0.31'

WATER QUALITY PARAMETERS

Time	Volume Purged (gals)	Purge Rate (gals/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	Comments
14:55	0		14.0	7.37	3.21	101.4	0.648	DTW=27.6 46 mV
15:04	5	0.55	12.6	7.07	0.95	14.4	0.606	DTW= 29.28 24 mV
15:13	10	0.52	12.1	7.07	1.40	24.0	0.573	DTW= 29.89 22 mV after surged
15:22	15	0.52	12.0	7.08	1.38	3.66	0.564	DTW=30.05 18 mV
15:31	20	0.52	11.9	7.08	1.41	8.99	0.569	DTW=30.3 11 mV
15:39	25	0.55	11.7	7.09	1.32	1.37	0.569	DTW= 30.43 -2 mV

Type of Water Quality Meter: Horiba U-22; LaMotte 2020 Turb.
Purge Observations: Very clear water, even following surging; sulphur odor
Purge Water Containerized: NO

EQUIPMENT DOCUMENTATION

- ☒ Submersible Pump - whale
- ☐ PVC Bailer
- ☐ Surge Block
- ☐ Other _____

Approximate Recharge Rate: 0.033 gal/min (0.2'/min)

Total Gallons Removed: 30

Well Development Criteria Met:

Notes: Sulphur odor noted on water; surging well does not increase turbidity significantly
DTW after removing whale pump = 28.95 @ 15:49
★ Water recharging @ a rate of approx 0.2'/min

Signature: [signature]
Checked By: RM

Well Development Field Record

LU ENGINEERS
Civil and Environmental
2230 Penfield Road
Penfield, New York 14526
585.377.1450 Fax 585.377.1266

Project Name: Sewalls
Well ID: MW-7
Logged by: RCM

Development Date: 11-5-08
Installation Date: 9/25/08

Job # 34202
Start Time: 14:45
End Time: 16:00

Initial Depth to Water: 16.02
Final Depth to Water: >43.1
Screen Length: 10'
Well Volume: 4.5 gals
(2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth)

Measurement Point: mark @ top PVC riser
Well Depth before: 43.91
Well Depth after:
Sediment Depth Removed:

Well Diameter: 2"
Well Integrity:
Cap ✓
Casing ✓
Locked
Collar ✓

Protective casing stick-up: 3.74'
Casing/Well difference: 0.18'

WATER QUALITY PARAMETERS

Time	Volume Purged (gals)	Purge Rate (gals/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	Comments	
14:54	start pump							DTW	✓
15:10	2.5 gal	0.166	13.5	12.38	4.01	338	3.78	31.8	11.5
15:25	5 gal	0.166	13.2	12.37	2.43	458	3.47	39.3	12.5
15:35	well dry								
16:00	start pump								

Type of Water Quality Meter: Horiba U-22
Purge Observations: cloudy
Purge Water Containerized: no

EQUIPMENT DOCUMENTATION

- ☒ Submersible Pump monsoon
- ☐ PVC Bailer
- ☐ Surge Block
- ☐ Other

Approximate Recharge Rate: 0.1'/min
Total Gallons Removed: ~7.5

Well Development Criteria Met:

Notes: Well purged dry, slow recharge 2.0' in 20 min

Signature: Rebecca C May
Checked By: ED

Well Development Field Record

LU ENGINEERS
Civil and Environmental
2230 Penfield Road
Penfield, New York 14526
585.377.1450 Fax 585.377.1266

Project Name: Sewall's Island RI
Well ID: MW-8
Logged by: _____

Development Date: 11/5/08
Installation Date: 9/26/08

Job # 34202
Start Time: 16:10
End Time: 17:00

Initial Depth to Water: 10.19
Final Depth to Water: 38.94
Screen Length: 20'
Well Volume: 4.73 gals
(2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth)

Measurement Point: Top of PVC Casing
Well Depth before: 38.89
Well Depth after: 39.20
Sediment Depth Removed: 0.31'

Well Diameter: 2"
Well Integrity:
Cap ✓
Casing ✓
Locked ✓
Collar _____

Protective casing stick-up: 3.93'
Casing/Well difference: 0.25'

WATER QUALITY PARAMETERS

Time	Volume Purged (gals)	Purge Rate (gals/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	Comments
16:20	0	0.5	11.7	10.79	2.25	>1000	4.74	DTW=18.8' -44 mV
16:35	3		12.0	11.72	2.90	677	2.63	DTW 26.9' -94 mV
16:48	6		11.9	10.84	2.53	546	2.91	DTW=32' -79 mV

Type of Water Quality Meter: Horiba U-22, LaMotte 2020
Purge Observations: initially turbid, grout odor
Purge Water Containerized: NO

EQUIPMENT DOCUMENTATION

- ☒ Submersible Pump
- ☐ PVC Bailer
- ☐ Surge Block
- ☐ Other _____

Approximate Recharge Rate: ?

Total Gallons Removed: 8 +/-

Well Development Criteria Met:

Notes: Very turbid on initial development; grout odor (pH); looks like suspended grout
*After surging pump won't pull water (to little water column)

Signature: [signature]
Checked By: RM

Groundwater Sampling Field Record

LU ENGINEERS
Civil and Environmental

2230 Penfield Road
Penfield, New York 14526
585.377.1450 Fax 585.377.1266

Project Name Seawall's Island
Location ID MW-1
Activity Time 15:30 – 16:30

Field Sample ID SI-MW1-01
Sample Time 10:15 on 12-3-08

Job # 34202
Sampling Event # 1
Date 12-2-08

SAMPLING NOTES

Initial Depth to Water 11.65 feet
Final Depth to Water 29.8 feet
Screen Length _____ feet
Total Volume Purged 6 gallons

Measurement Point TOR
Well Depth 30.4 feet
Pump Intake Depth —
PID Well Head —

Well Diameter 2"
Well Integrity:
Cap ✓
Casing ✓
Locked ✓
Collar ✓

[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]
Volume of Water in casing – 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth

PURGE DATA 3x volume = 9 gal.

Time	Depth to Water (ft)	Temp. (deg. C)	pH (units)	Turbidity (NTU)	Cond. (mS/cm)	Comments
15:45	11.65	start				
15:55		8.7	5.5	49.7	12.13	1 gal
16:00	21.8	8.5	6.3	34.9	11.43	2 gal
16:05		8.8	6.7	21.8	11.31	3 gal
16:10	27.2	8.9	6.7	14.2	11.34	4 gal
16:20	29.5	9.0	6.8	5.65	10.78	5 gal Well beginning to go dry
16:30	29.8	8.7	6.8	18.7	10.81	6 gal Well dry

Purge Observations: clear
Purge Water Containerized: no

EQUIPMENT DOCUMENTATION

Type of Pump: — dedicated PVC bailer
Type of Tubing: —
Type of Water Quality Meter: Myron 6P; LaMotte 2020 Calibrated: 12-1-08

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	3 x 40 ml	✓
SVOCs	Amber L	✓
PCBs	Amber L	✓
Metals	250 mL	✓
Extra	Amber L	✓

LOCATION NOTES

Well purged dry, sampled on recharge the following day.

Signature: Rebecca C May
Checked By: _____

Groundwater Sampling Field Record

LU ENGINEERS
Civil and Environmental

2230 Penfield Road
Penfield, New York 14526
585.377.1450 Fax 585.377.1266

Project Name Seawall's Island
Location ID MW-2S
Activity Time 14:00

Field Sample ID SI-MW2S-01
Sample Time 15:00

Job # 34202
Sampling Event # 1
Date 12/3/08

SAMPLING NOTES

Initial Depth to Water 18.04 feet
Final Depth to Water 18.44 feet
Screen Length _____ feet
Total Volume Purged [illegible] 9 gal (9) gallons
[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]
Volume of Water in casing – 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth

Measurement Point TOR
Well Depth 32.04 feet
Pump Intake Depth _____
PID Well Head _____

Well Diameter 2"
Well Integrity:
Cap _____
Casing _____
Locked _____
Collar _____

PURGE DATA

Time	Depth to Water (ft)	Temp. (deg. C)	pH (units)	Turbidity (NTU)	Cond. (mS/cm)	Comments
14:08	18.1	10.0	6.76	4.85	.9621	initial - no sheen
14:15		10.5	6.79	>1000	.9754	1 gal - very turbid
14:30	18.32	11.0	6.77	>1000	.9847	3 gal - "; dark grey
14:41		10.6	6.79	160	.9911	5 gal
14:50		10.9	6.79	78.2	.9895	6 gal
14:53	18.38	10.6	6.77	77.3	.9924	7 gal
14:58		10.7	6.78	172	.9867	8 gal

Purge Observations: Remained turbid for first 4 gallons purged then cleared
Purge Water Containerized: yes - light sheen observed on purge water

EQUIPMENT DOCUMENTATION

Type of Pump: bailer
Type of Tubing: _____
Type of Water Quality Meter: Myron 6P; LaMotte 2020

Calibrated: _____

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	3 x 40 ml	
SVOCs	Amber L	
PCBs	Amber L	
Metals	250 mL	
Extra	Amber L	

LOCATION NOTES

degraded petrol odor

1 well vol = 2.3 = 6.8 (3 vols)

Signature: _____
Checked By: _____

Groundwater Sampling Field Record

LU ENGINEERS
Civil and Environmental

2230 Penfield Road
Penfield, New York 14526
585.377.1450 Fax 585.377.1266

Project Name: Seawall's Island
Location ID: MW-2D
Activity Time: 13:40

Field Sample ID: SI-MW2D-01
Sample Time: 15:10

Job #: 34202
Sampling Event #: 1
Date: 12-3-08

SI-MW2D-01-D @ 15:20

SAMPLING NOTES

Initial Depth to Water: 28.34 feet
Final Depth to Water: 28.36 feet
Screen Length: _____ feet
Total Volume Purged: 9 gal gallons

Measurement Point: TOR
Well Depth: 46.5 feet
Pump Intake Depth: –
PID Well Head: –

Well Diameter: 2"
Well Integrity:
Cap: ✓
Casing: ✓
Locked: ✓
Collar: ✓

[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]
Volume of Water in casing – 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth

PURGE DATA

3x volume = 8.8 gal

Time	Depth to Water (ft)	Temp. (deg. C)	pH (units)	Turbidity (NTU)	Cond. (mS/cm)	Comments
14:00	28.34					
14:05		8.5	7.7	15.7	0.56	1 gal
14:10		8.9	7.3	45.1	0.81	2 gal
14:15		9.9	7.4	30.3	1.15	3 gal
14:20		9.5	7.1	43.5	1.14	4 gal
14:25	28.41	9.3	7.1	30.2	1.04	5 gal
14:35		9.8	7.1	19.3	0.99	6 gal
14:40		9.8	7.1	18.1	0.98	7 gal
14:45		9.7	7.1	18.7	0.91	8 gal
14:50		9.5	7.1	15.7	0.87	9 gal

Purge Observations: clear
Purge Water Containerized: no

EQUIPMENT DOCUMENTATION

Type of Pump: ✓ dedicated PVC bailer
Type of Tubing: ✓
Type of Water Quality Meter: Myron 6P; LaMotte 2020

Calibrated: 12-1-08

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected	
VOCs	3 x 40 ml	✓	✓
SVOCs	Amber L	✓	✓
PCBs	Amber L	✓	✓
Metals	250 mL	✓	✓
Extra	Amber L	✓	✓

LOCATION NOTES

Signature: Rebecca C May
Checked By: _____

Groundwater Sampling Field Record

LU ENGINEERS
Civil and Environmental

2230 Penfield Road
Penfield, New York 14526
585.377.1450 Fax 585.377.1266

Project Name Seawall's Island
Job # 34202
Location ID MW-3
Field Sample ID SI-MW3-01
Sampling Event # 1
Activity Time 12:45
Sample Time 13:25
Date 12/3/08

SAMPLING NOTES

Initial Depth to Water 29.92 feet
Measurement Point TOR
Well Diameter 2"
Final Depth to Water 29.95 feet
Well Depth 34.53 feet
Well Integrity:
Screen Length _____ feet
Pump Intake Depth _____
Cap _____
Total Volume Purged _____ gallons
PID Well Head _____
Casing _____
[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]
Locked _____
Volume of Water in casing – 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth
Collar _____

PURGE DATA

Time	Depth to Water (ft)	Temp. (deg. C)	pH (units)	Turbidity (NTU)	Cond. (mS/cm)	Comments
12:50	29.95	10.5	6.66	28.6	0.7837	initial
12:55		11.1	6.59	306	0.7748	1 gal
13:00	29.97	11.1	6.60	300	0.7954	2 gal
13:10		11.3	6.58	88.5	0.7781	3 gal
13:16	29.98	11.4	6.58	281	0.7887	4 gal
13:21		11.5	6.58	428	0.7795	5 gal

Purge Observations: _____
Purge Water Containerized: _____

EQUIPMENT DOCUMENTATION

Type of Pump: _____
Type of Tubing: _____
Type of Water Quality Meter: Myron 6P; LaMotte 2020
Calibrated: _____

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	3 x 40 ml	
SVOCs	Amber L	
PCBs	Amber L	
Metals	250 mL	
Extra	Amber L	

LOCATION NOTES

No sand pack – clear but w/ bedrock particulates (grey)

1 well vol = 0.75 gal (2.25 min)

Signature: _____
Checked By: _____

Groundwater Sampling Field Record

LU ENGINEERS
Civil and Environmental

2230 Penfield Road
Penfield, New York 14526
585.377.1450 Fax 585.377.1266

Project Name Seawall's Island
Location ID MW4
Activity Time 10:30

Field Sample ID SI-MW4-01
Sample Time 11:55

Job # 34202
Sampling Event # 1
Date 12/3/08

SAMPLING NOTES

Initial Depth to Water 26.60 feet
Final Depth to Water _____ feet
Screen Length _____ feet
Total Volume Purged _____ gallons

Measurement Point TOR
Well Depth 41.96 feet
Pump Intake Depth NA
PID Well Head _____

Well Diameter 2"
Well Integrity:
Cap _____
Casing _____
Locked _____
Collar _____

[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]
Volume of Water in casing – 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth

PURGE DATA

Time	Depth to Water (ft)	Temp. (deg. C)	pH (units)	Turbidity (NTU)	Cond. (mS/cm)	Comments
10:40	26.6	9.4	6.90	41.6	1.155	initial
10:46	26.71	9.5	6.78	577	1.227	1 gal
10:52	26.65	9.1	6.88	723	1.058	2 gal
11:00	26.64	9.0	6.86	229	1.023	3 gal
11:05		8.9	6.81	568	1.016	4 gal
11:09	26.67	8.8	6.78	121	1.013	5 gal
11:30		8.7	6.70	170	1.026	6 gal
11:35		8.9	6.76	28.9	0.9766	7 gal
11:40	26.64	9.1	6.82	22.5	0.9564	8 gall
11:50	26.	9.1	6.74	17.2	0.9815	10 gal

Purge Observations: water less turbid in bottom 1/2 of bailer
Purge Water Containerized: _____

EQUIPMENT DOCUMENTATION

Type of Pump: _____
Type of Tubing: _____
Type of Water Quality Meter: Myron 6P; LaMotte 2020
Calibrated: _____

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	3 x 40 ml	
SVOCs	Amber L	
PCBs	Amber L	
Metals	250 mL	
Extra	Amber L	

LOCATION NOTES

1 well vol = 2.5 gal (7.5 to purge)

Signature: _____
Checked By: _____

Groundwater Sampling Field Record

LU ENGINEERS
Civil and Environmental

2230 Penfield Road
Penfield, New York 14526
585.377.1450 Fax 585.377.1266

Project Name Seawall's Island
Location ID MW-5
Activity Time 8:00

Field Sample ID SI-MW5-01
Sample Time 9:35

Job # 34202
Sampling Event # 1
Date 12-3-08

SAMPLING NOTES

Initial Depth to Water 13.85 feet
Final Depth to Water 13.86 feet
Screen Length _____ feet
Total Volume Purged 10 gallons

Measurement Point TOR
Well Depth 33.75 feet
Pump Intake Depth _____
PID Well Head _____

Well Diameter 2"
Well Integrity:
Cap _____
Casing _____
Locked _____
Collar _____

[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]
Volume of Water in casing – 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth

PURGE DATA

Time	Depth to Water (ft)	Temp. (deg. C)	pH (units)	Turbidity (NTU)	Cond. (mS/cm)	Comments
8:15	13.85					
8:25		8.7	10.9	37.5	0.64	1 gal
8:35	14.32	10.6	10.5	32.9	0.56	2 gal
8:40		10.0	8.75	187	0.43	3 gal
8:45		10.9	8.07	393	0.48	4 gal
8:50	14.35	10.6	7.75	588	0.49	5 gal
9:00		10.5	7.63	569	0.49	6 gal
9:10		10.8	7.55	409	0.49	7 gal
9:15		11.5	7.52	370	0.47	8 gal
9:20		11.0	7.51	297	0.49	9 gal
9:25		11.6	7.54	250	0.49	10 gal

Purge Observations: _____
Purge Water Containerized: _____

EQUIPMENT DOCUMENTATION

Type of Pump: NA - BAILER
Type of Tubing: NA
Type of Water Quality Meter: Myron 6P; LaMotte 2020

Calibrated: _____

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	3 x 40 ml	
SVOCs	Amber L	
PCBs	Amber L	
Metals	250 mL	
Extra	Amber L	

Signature: _____
Checked By: _____

LOCATION NOTES

* 13.4 to river @ N Pearl Bridge
* 4.80' to river level near bldg. on MW5 panel

Groundwater Sampling Field Record

LU ENGINEERS
Civil and Environmental

2230 Penfield Road
Penfield, New York 14526
585.377.1450 Fax 585.377.1266

Project Name Seawall's Island
Location ID MW-6
Activity Time 11:15-12:40

Field Sample ID SI-MW6-01
Sample Time 12:05

Job # 34202
Sampling Event # 1
Date 12-3-08

SI-MW6-01-MS @ 12:10
SI-MW6-01-MSD @ 12:15

SAMPLING NOTES

Initial Depth to Water 23.21 feet
Final Depth to Water _____ feet
Screen Length _____ feet
Total Volume Purged _____ gallons

Measurement Point TOR
Well Depth 36.90 feet
Pump Intake Depth _____
PID Well Head _____

Well Diameter 2"
Well Integrity:
Cap _____
Casing _____
Locked _____
Collar _____

[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]
Volume of Water in casing – 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth

PURGE DATA

approx 6.6 gal = 23' dtw

Time	Depth to Water (ft)	Temp. (deg. C)	pH (units)	Turbidity (NTU)	Cond. (mS/cm)	Comments
11:25	23.21					
11:30		10.2	7.9	51.0	0.49	1 gal
11:35		10.3	7.9	46.8	0.51	2 gal
11:40		10.0	7.6	45.6	0.50	3 gal
11:45	23.98	10.2	7.4	24.2	0.51	4 gal
11:50		10.3	7.4	27.0	0.50	5 gal
11:55		10.0	7.4	21.9	0.50	6 gal
12:00		10.2	7.4	17.8	0.50	7 gal
12:05	sample					

Purge Observations: clear
Purge Water Containerized: no

EQUIPMENT DOCUMENTATION

Type of Pump: dedicated bailer
Type of Tubing: _____
Type of Water Quality Meter: Myron 6P; LaMotte 2020

Calibrated: _____

* DTW River on high ~14.75 side of N fork

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected		
VOCs	3 x 40 ml	✓	✓	✓
SVOCs	Amber L	✓	✓	✓
PCBs	Amber L	✓	✓	✓
Metals	250 mL	✓	✓	✓
Extra	Amber L	✓	✓	✓

LOCATION NOTES

Signature: _____
Checked By: _____

Groundwater Sampling Field Record

LU ENGINEERS
Civil and Environmental

2230 Penfield Road
Penfield, New York 14526
585.377.1450 Fax 585.377.1266

Project Name Seawall's Island
Location ID MW-7
Activity Time Begin 15:45

12/3/08
Field Sample ID SI-MW7-01
Sample Time 16:30

Job # 34202
Sampling Event # 1
Date 12/2/08 → PURGE

SAMPLING NOTES

PURGE ★ FINAL DEPTH = 42.79 AFTER SAMPLING

Initial Depth to Water 9.21 feet
Final Depth to Water 43.65 feet
Screen Length _____ feet
Total Volume Purged 8 gallons

Measurement Point TOR
Well Depth 43.89 TD feet
Pump Intake Depth _____
PID Well Head _____

Well Diameter 2"
Well Integrity:
Cap _____
Casing _____
Locked _____
Collar _____

[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]
Volume of Water in casing – 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth

PURGE DATA

Time	Depth to Water (ft)	Temp. (deg. C)	pH (units)	Turbidity (NTU)	Cond. (mS/cm)	Comments
15:45	9.30	9.6	6.52	0.45	458.3	
15:53	21.26	10.3	6.53	1.48	453.7	(after 2 gal)
16:01	30.79	9.5	7.05	5.9	515.7	(after 4 gal)
16:08	37.75	9.0	11.18	90.8	1895	(" 6 gal) grout=pH
16:15	42.58	8.5	11.47	106.4	2404	(" 7 gal)
16:25	43.65	8.7	11.53	127.2	2508	bailed dry after
					★ CONVERT TO µS	evacuating approx. 8 gal

Purge Observations: very clear from 9.2 to 35 +/- ft btoc, then noticeable turb.
Purge Water Containerized: no ★ drill water & grout have affected pH

EQUIPMENT DOCUMENTATION

Type of Pump: NA BAILER
Type of Tubing: NA
Type of Water Quality Meter: Myron 6P; LaMotte 2020
Calibrated: _____

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	3 x 40 ml	
SVOCs	Amber L	
PCBs	Amber L	
Metals	250 mL	
Extra	Amber L	

LOCATION NOTES

Signature: _____
Checked By: _____

Groundwater Sampling Field Record

LU ENGINEERS
Civil and Environmental

2230 Penfield Road
Penfield, New York 14526
585.377.1450 Fax 585.377.1266

Project Name Seawall's Island
Location ID MW-8
Activity Time 17:00 – 17:45

Field Sample ID SI-MW8-01
Sample Time 16:50

Job # 34202
Sampling Event # 1
Date 12-2-08

SAMPLING NOTES

Initial Depth to Water 9.76 feet
Final Depth to Water _____ feet
Screen Length _____ feet
Total Volume Purged _____ gallons

Measurement Point TOR
Well Depth 39.15 feet
Pump Intake Depth _____
PID Well Head _____

Well Diameter 2"
Well Integrity:
Cap _____
Casing _____
Locked _____
Collar _____

[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]
Volume of Water in casing – 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth

PURGE DATA 4.8 gal x 3 = 14.4 gal

Time	Depth to Water (ft)	Temp. (deg. C)	pH (units)	Turbidity (NTU)	Cond. (mS/cm)	Comments
17:05	9.76					
17:10	16.13	7.4	11.3	27.6	2.25	1 gal
17:20	22.82	8.8	11.1	441	2.06	2 gal
17:25		9.2	11.2	>1,000	1.97	3 gal
17:30	30.35	9.1	10.0	>1,000	0.93	4 gal
17:32	34.47	8.9	8.3	>1,000	1.73	5 gal
17:35		8.8	7.6	>1,000	14.6	6 gal
						Well Dry

Purge Observations: cloudy + smells of grout after 2 gal
Purge Water Containerized: No

EQUIPMENT DOCUMENTATION

Type of Pump: ~~Dedicated~~ Bailer
Type of Tubing: _____
Type of Water Quality Meter: Myron 6P; LaMotte 2020

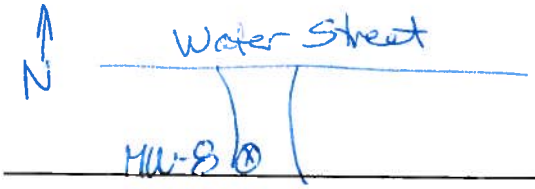
Calibrated: 12-1-08

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	3 x 40 ml	
SVOCs	Amber L	
PCBs	Amber L	
Metals	250 mL	
Extra	Amber L	

Signature: _____
Checked By: _____

LOCATION NOTES



GROUNDWATER ELEVATION DATA

Groundwater Elevations

Sewall's Island Site #E623021

December 2, 2008

	MW-1	MW-2S	MW-2D	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8
PVC Elevation (ft)	476.61	463.26	463.28	476.60	473.96	460.06	485.39	469.17	476.45
Depth to Water (ft)	11.65	18.04	28.34	29.92	26.60	13.85	23.21	9.21	9.76
Water Elevation (ft)	464.96	445.22	434.94	446.68	447.36	446.21	462.18	459.96	466.69

March 26, 2009

	MW-1	MW-2S	MW-2D	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8
PVC Elevation (ft)	476.61	463.26	463.28	476.60	473.96	460.06	485.39	469.17	476.45
Depth to Water (ft)	13.03	19.27	29.92	31.05	27.34	16.34	24.91	10.30	9.73
Water Elevation (ft)	463.58	443.99	433.36	445.55	446.62	443.72	460.48	458.87	466.72

November 10, 2009

	MW-1	MW-2S	MW-2D	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8
PVC Elevation (ft)	476.61	463.26	463.28	476.60	473.96	460.06	485.39	469.17	476.45
Depth to Water (ft)	14.78	20.00	30.88	32.45	28.82	NA	24.32	11.99	12.47
Water Elevation (ft)	461.83	443.26	432.40	444.15	445.14	NA	461.07	457.18	463.98

March 31, 2010

	MW-1	MW-2S	MW-2D	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8
PVC Elevation (ft)	476.61	463.26	463.28	476.60	473.96	460.06	485.39	469.17	476.45
Depth to Water (ft)	11.73	19.80	28.76	30.46	27.13	15.72	23.57	10.49	8.14
Water Elevation (ft)	464.88	443.46	434.52	446.14	446.83	444.34	461.82	458.68	468.31

September 21, 2010

	MW-1	MW-2S	MW-2D	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8
PVC Elevation (ft)	476.61	463.26	463.28	476.60	473.96	460.06	485.39	469.17	476.45
Depth to Water (ft)	15.72	20.70	31.12	31.49	28.91	17.11	23.95	14.41	8.72
Water Elevation (ft)	460.89	442.56	432.16	445.11	445.05	442.95	461.44	454.76	467.73

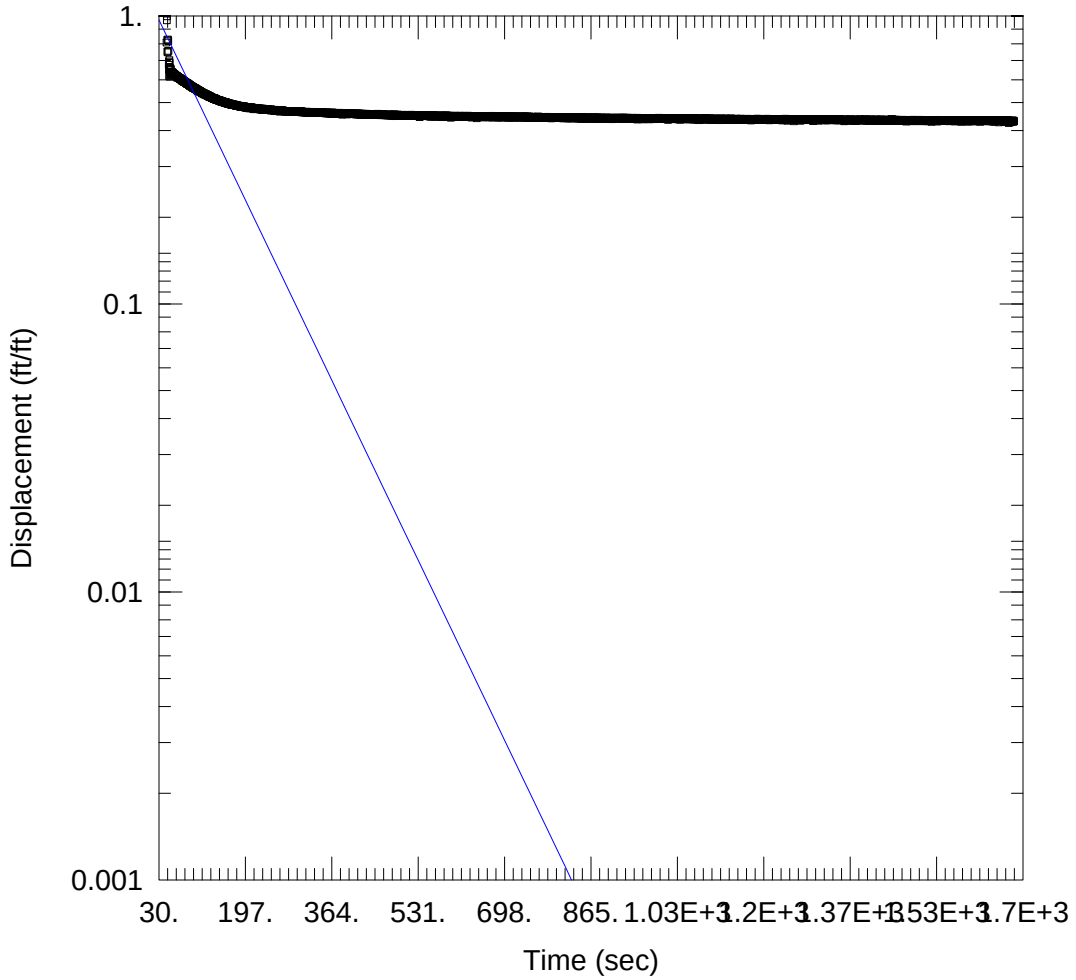
September 23, 2011

	MW-1	MW-2S	MW-2D	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8
PVC Elevation (ft)	476.61	463.26	463.28	476.60	473.96	460.06	485.39	469.17	476.45
Depth to Water (ft)	13.98	21.45	31.20	31.96	29.20	17.01	24.60	10.04	12.10
Water Elevation (ft)	462.63	441.81	432.08	444.64	444.76	443.05	460.79	459.13	464.35

December 13, 2011

	MW-1	MW-2S	MW-2D	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8
PVC Elevation (ft)	476.61	463.26	463.28	476.60	473.96	460.06	485.39	469.17	476.45
Depth to Water (ft)	11.70	19.02	30.80	31.00	26.91	16.58	24.40	8.64	8.60
Water Elevation (ft)	464.91	444.24	432.48	445.60	447.05	443.48	460.99	460.53	467.85

AQUIFER TESTING DATA



SLUG OUT

Data Set: J:\...\SI MW1.aqt
Date: 05/14/12 Time: 21:01:36

PROJECT INFORMATION

Company: Lu Engineers
Client: City of Watertown
Project: 34202
Location: Sewall's Island Site
Test Well: MW-1
Test Date: 3/31/2010

AQUIFER DATA

Saturated Thickness: 25. ft
Anisotropy Ratio (Kz/Kr): 1.

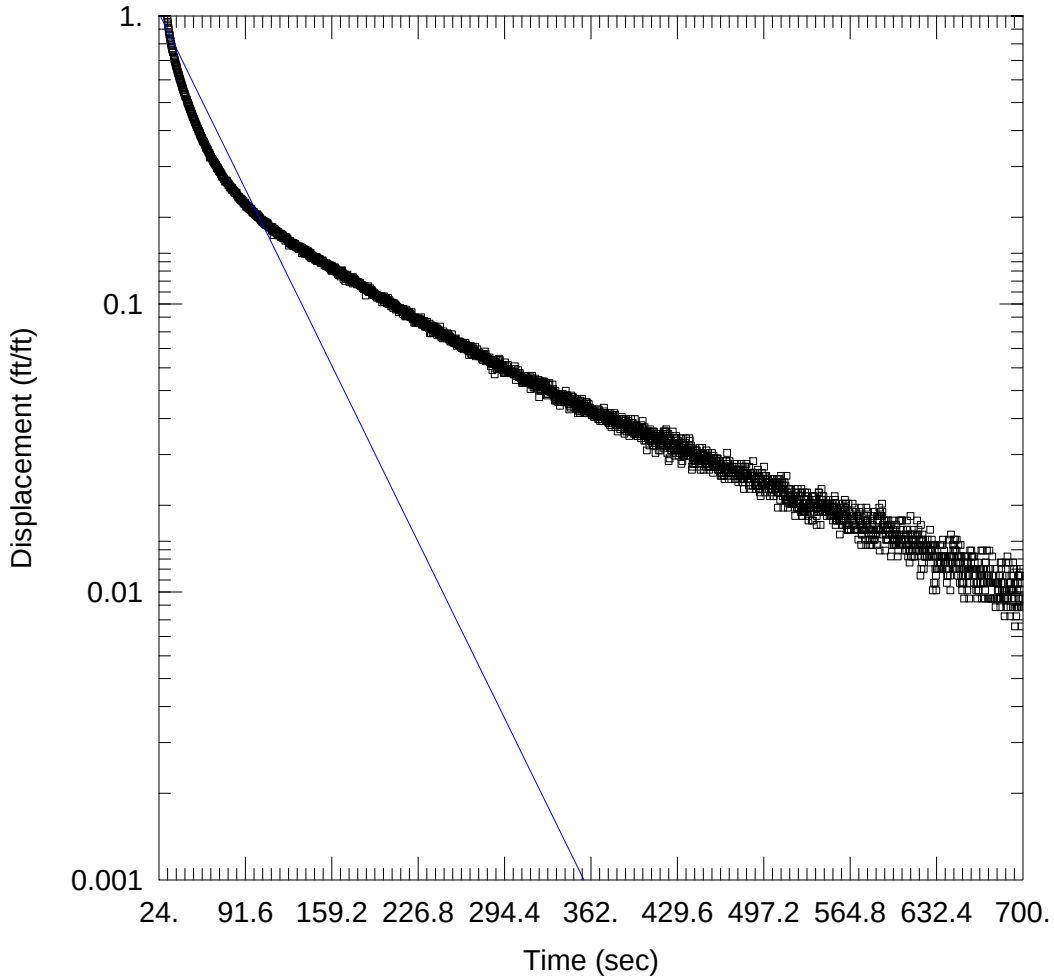
WELL DATA (MW-1)

Initial Displacement: -2.629 ft
Total Well Penetration Depth: 18.67 ft
Casing Radius: 0.083 ft
Static Water Column Height: 18.67 ft
Screen Length: 20. ft
Wellbore Radius: 0.16 ft
Gravel Pack Porosity: 0.38

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 1.022E-5 ft/sec
y0 = -3.298 ft



SLUG OUT

Data Set: J:\...\SI MW2S.aqt
Date: 05/14/12 Time: 21:02:10

PROJECT INFORMATION

Company: Lu Engineers
Client: City of Watertown
Project: 34202
Location: Sewall's Island Site
Test Well: MW-2S
Test Date: 3/31/2010

AQUIFER DATA

Saturated Thickness: 12. ft
Anisotropy Ratio (Kz/Kr): 1.

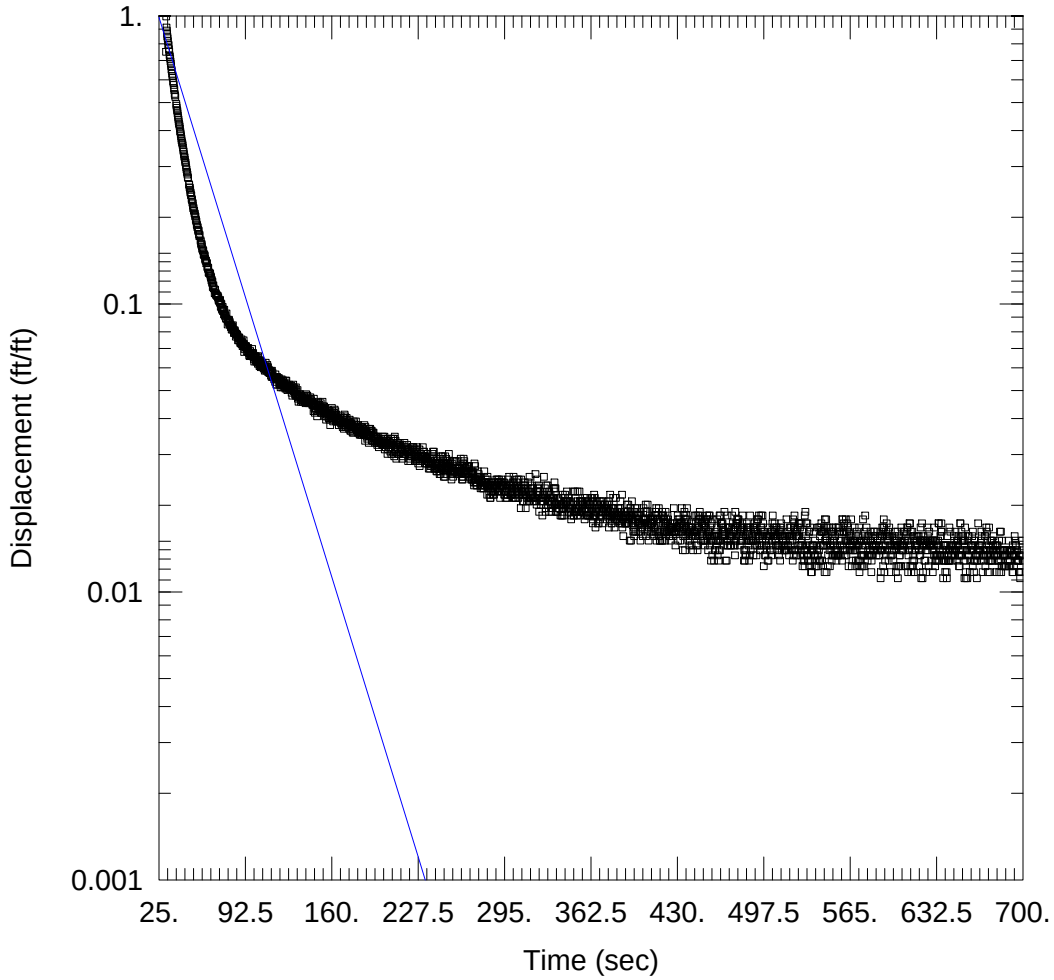
WELL DATA (MW-2S)

Initial Displacement: -1.581 ft
Total Well Penetration Depth: 8.54 ft
Casing Radius: 0.083 ft
Static Water Column Height: 8.54 ft
Screen Length: 13. ft
Wellbore Radius: 0.16 ft
Gravel Pack Porosity: 0.38

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 3.212E-5 ft/sec
y0 = -2.666 ft



SLUG OUT

Data Set: J:\...\SI MW4.aqt
Date: 05/14/12 Time: 21:02:29

PROJECT INFORMATION

Company: Lu Engineers
Client: City of Watertown
Project: 34202
Location: Sewall's Island Site
Test Well: MW-4
Test Date: 3/31/2010

AQUIFER DATA

Saturated Thickness: 20. ft
Anisotropy Ratio (Kz/Kr): 1.

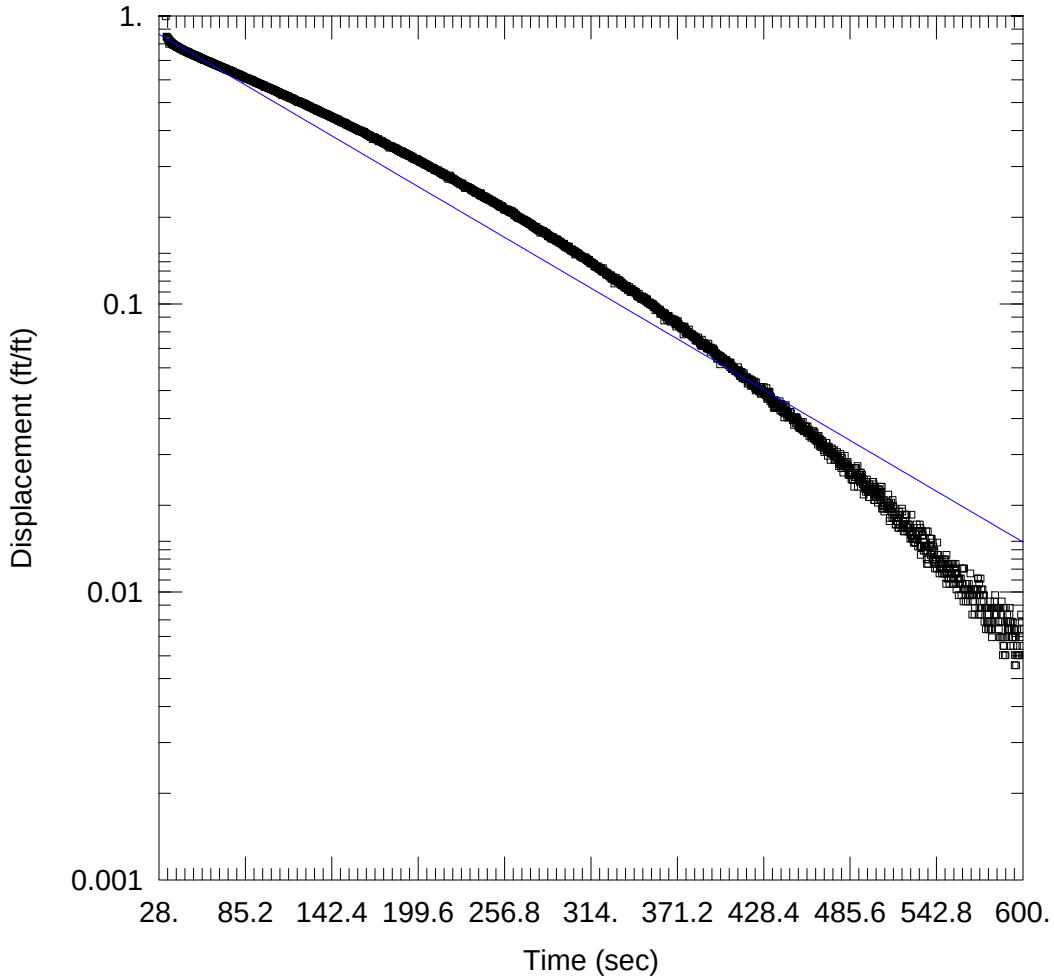
WELL DATA (MW-4)

Initial Displacement: -1.792 ft
Total Well Penetration Depth: 14.83 ft
Casing Radius: 0.083 ft
Static Water Column Height: 14.83 ft
Screen Length: 15. ft
Wellbore Radius: 0.16 ft
Gravel Pack Porosity: 0.38

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 4.925E-5 ft/sec
y0 = -4.059 ft



SLUG OUT

Data Set: J:\...\SI MW5.aqt
Date: 05/14/12 Time: 21:03:00

PROJECT INFORMATION

Company: Lu Engineers
Client: City of Watertown
Project: 34202
Location: Sewall's Island Site
Test Well: MW-5
Test Date: 3/31/2010

AQUIFER DATA

Saturated Thickness: 25. ft Anisotropy Ratio (Kz/Kr): 1.

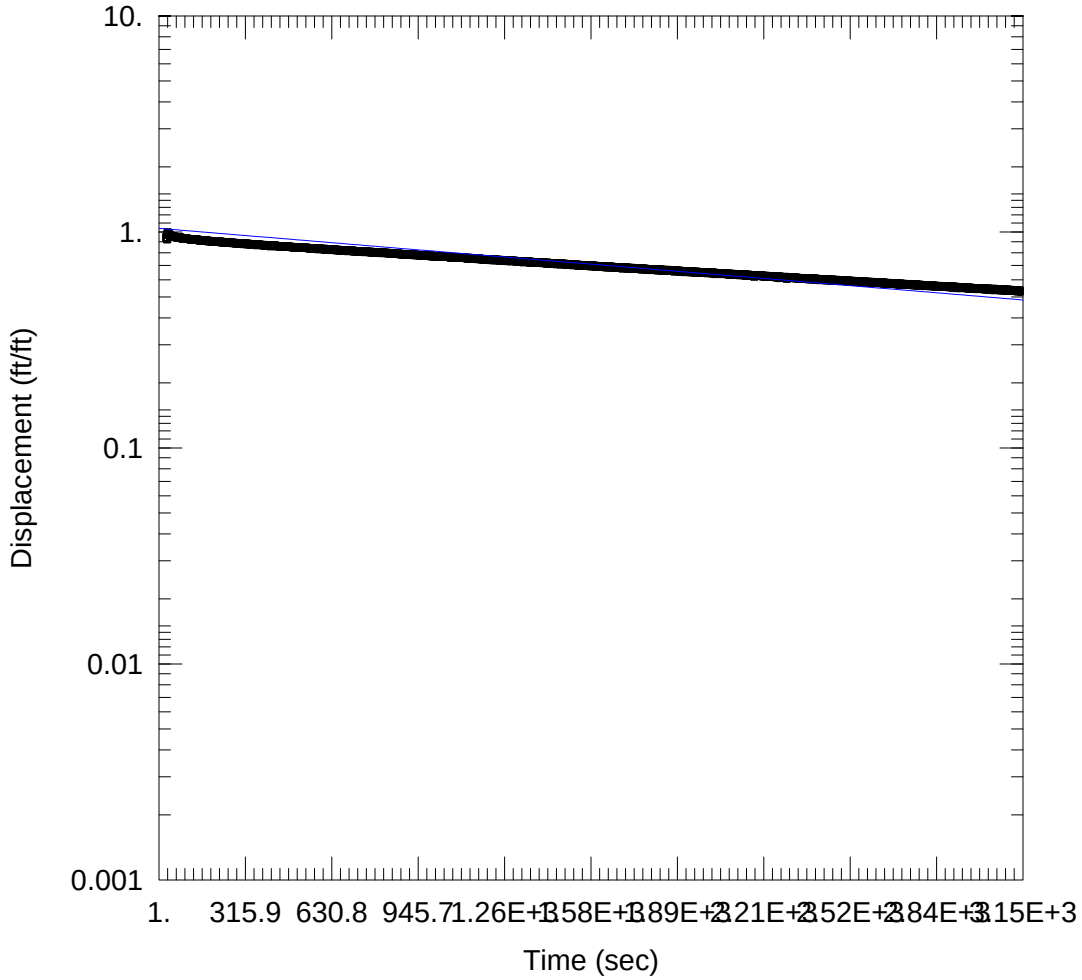
WELL DATA (MW-5)

Initial Displacement: -2.157 ft
Total Well Penetration Depth: 18.03 ft
Casing Radius: 0.083 ft
Static Water Column Height: 18.03 ft
Screen Length: 10. ft
Wellbore Radius: 0.16 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 7.611E-6 ft/sec y0 = -2.273 ft



SLUG OUT

Data Set: J:\...\SI MW6.aqt
Date: 05/14/12 Time: 21:03:30

PROJECT INFORMATION

Company: Lu Engineers
Client: City of Watertown
Project: 34202
Location: Sewall's Island Site
Test Well: MW-6
Test Date: 3/31/2010

AQUIFER DATA

Saturated Thickness: 20. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-6)

Initial Displacement: -1.833 ft
Total Well Penetration Depth: 13.38 ft
Casing Radius: 0.083 ft
Static Water Column Height: 13.38 ft
Screen Length: 10. ft
Wellbore Radius: 0.16 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 2.479E-7 ft/sec
y0 = -1.904 ft

CITY OF WATERTOWN – SEWALL'S ISLAND SITE

FINAL ENGINEERING REPORT

NYSDEC ERP SITE#E623021

HYDROGEOLOGICAL CALCULATIONS

HYDRAULIC CONDUCTIVITY (K) VALUES*

- **MW-1: 0.00001022 ft/sec**
- **MW-2S: 0.00003212 ft/sec**
- **MW-4: 0.00004925 ft/sec**
- **MW-5: 0.000007611 ft/sec**
- **MW-6: 0.0000002479 ft/sec**
  0.0000994489 ft/sec

AVERAGE K (for 5 wells tested) = 0.0000994489/5 = 0.00001989 ft/sec = 1.989 x 10^{-5} ft/sec

HYDRAULIC GRADIENT CALCULATION (March 2010 data)

- **MW-8 to MW-2S: 468.31-443.46 = 24.85 ft / 1,176 ft = 0.021 ft/ft**
  (average gradient, northeast to southwest across Site)
- **MW-6 to MW-2S: 461.82-443.46 = 18.36 ft / 870 ft = 0.021 ft/ft**
  (average gradient, east to west across Site)
- **MW-1 to MW-2S: 464.88-443.46 = 21.42 ft / 420 = 0.051 ft/ft**
  (maximum gradient, east to west across western half of Site)

GROUNDWATER VELOCITY CALCULATION

- **V= K x I/n**

- **MW-6 to MW-2S: 1.989 x 10^{-5}ft/sec (0.021 ft/ft / 0.20) = 2.09 x 10^{-6} ft/sec = 0.18 ft/day**
  (using average K for Site, northeast to southwest across Site)
- **MW-1 to MW-2S: 2.117 x 10^{-5}ft/sec (0.051 ft/ft / 0.20) = 5.4 x 10^{-6} ft/sec = 0.47 ft/day**
  (using average K of MW-1 and MW-2S)

*** Hydraulic Conductivity (K) values were determined by using AQTESOLV for Windows Standard 3.5**

EXTRACTION WELL LOGS

Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL

PROJECT	BORING EW-1
Sewall's Island ERP Site #E623021	SHEET 1 OF 1
PAOC2 Extraction Wells	JOB #: 34202
	CHKD. BY:

CONTRACTOR: Nature's Way
DRILLER: Steve
JCL PERSONNEL: E. Detweiler

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: DATUM: N/A
START DATE: 9/21/2010 END DATE: 9/21/2010

TYPE OF DRILL RIG: Acker AD2
CASING SIZE AND TYPE: 4.25" ID hollow-stem auger
OVERBURDEN SAMPLING METHOD: split-spoon
ROCK DRILLING METHOD: n/a

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
1							
2						soil/fill - no samples	
3							
4							
5							
6							
7							
8							
9							
10							
	3		10-12		5%		
11	9						
	9					11.5' FILL: med-brown foundry SAND with Gravel; moist; petroleum odor	
12	6						25
	6		12-14		45%	12.5' FILL: dark brown-black sandy SILT with Gravel; moist; strong petroleum odor	75
13	2						
	2						75
14	7					13.5' FILL: charcoal grey foundry SAND and SILT; staining	
	4		14-14.7		100%		75
15	50/0.2'					14.7' split-spoon refusal	80
	-						25
16	-						
	50/0.1'		16-16.1		100%	16' charcoal grey SILT little f-SAND. Split-spoon refusal on rock @ 16.1'	35
17	-						
	-						
18							
19							
20							

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

Screen interval = 19.5-15.5'; #4 Q-rock sandpack = 19.5-14.5'; bentonite seal 14.5-13'; grout = 13'-grade
Auger refusal at approx. 19.6' bgs

GENERAL NOTES:
1) Stratification Lines represent approximate boundary between soil types; transitions may be gradual.
2) PID readings were taken directly on exposed soil in disposable sleeve, immediately following retrieval from boring.
bgs = below ground surface
ppm = parts per million

BORING # EW-1

Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL

PROJECT	BORING EW-2
Sewall's Island ERP Site #E623021	SHEET 1 OF 1
PAOC2 Extraction Wells	JOB #: 34202
	CHKD. BY:

CONTRACTOR: Nature's Way
DRILLER: Steve
JCL PERSONNEL: E. Detweiler

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: DATUM: N/A
START DATE: 9/21/2010 END DATE: 9/21/2010

TYPE OF DRILL RIG: Acker AD2
CASING SIZE AND TYPE: 4.25" ID hollow-stem auger
OVERBURDEN SAMPLING METHOD: split-spoon
ROCK DRILLING METHOD: n/a

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
1							
2						soil/fill - no samples	
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
	4		14-16		30%	14-16' FILL: black foundry SAND with coke and Gravel; moist; petroleum odor	133
15	4						
	12						
16	9						
	5		16-16.8		20%	16-16.8' FILL: black Silt/Sand/Gravel mix; moist to wet; strong petroleum odor and staining	181
17	50/0.3					16.8' split-spoon refusal on rock	
18							
19							
20							

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

Auger into rock to approx. 18' bgs.

GENERAL NOTES:
1) Stratification Lines represent approximate boundary between soil types; transitions may be gradual.
2) PID readings were taken directly on exposed soil in disposable sleeve, immediately following retrieval from boring.
bgs = below ground surface
ppm = parts per million

BORING # EW-2

Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL

PROJECT	BORING EW-3
Sewall's Island ERP Site #E623021 PAOC2 Extraction Wells	SHEET 1 OF 1 JOB #: 34202 CHKD. BY:

CONTRACTOR: NYEG Drilling
DRILLER: Doug
JCL PERSONNEL: G. Andrus

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: DATUM: N/A
START DATE: 7/19/2011 END DATE: 7/19/2011

TYPE OF DRILL RIG: CME 55
CASING SIZE AND TYPE: 4.25" ID hollow-stem auger
OVERBURDEN SAMPLING METHOD: split-spoon
ROCK DRILLING METHOD: n/a

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
1						Debris/Soil - no samples	
2							
3							
4							
5							
6							
7							
8						7-8' concrete	
9						Soil/Fill- no samples	
10							
11							
12							
13							
14							
	2		14-16			14-14.75' black m,f-SAND, moist, no odor. 1-2" thick CLAY lens below sand layer.	
15	2					14.75-15.5' black, oily PEAT	50
	2						
16	2					15.5-17.5' black SAND, wet/oily	
	2		16-18				
17	3						
	2					17.5-18' brown m,f-SAND trace Silt, strong odor, moist	80
18	6					saturated at 17.75' bgs	
	2		18-20			18-19.5' similar soil as above, moist, strong odor	136
19	2					19.5-20.4' grey-brown m,f-SAND and GRAVEL, saturated	117
	3						
20	2					20.4' refusal on rock	

50/0.4'

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

Augered approx. 1.5' into rock. Set well at ~22' bgs.

GENERAL NOTES:
1) Stratification Lines represent approximate boundary between soil types; transitions may be gradual.
2) PID readings were taken directly on exposed soil in disposable sleeve, immediately following retrieval from boring.
bgs = below ground surface
ppm = parts per million

Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL

PROJECT	BORING EW-4
Sewall's Island ERP Site #E623021 PAOC2 Extraction Wells	SHEET 1 OF 1 JOB #: 34202 CHKD. BY:

CONTRACTOR: NYEG Drilling
DRILLER: Doug
JCL PERSONNEL: G. Andrus

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: DATUM: N/A
START DATE: 7/19/2011 END DATE: 7/19/2011

TYPE OF DRILL RIG: CME 55
CASING SIZE AND TYPE: 4.25" ID hollow-stem auger
OVERBURDEN SAMPLING METHOD: split-spoon
ROCK DRILLING METHOD: n/a

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
						0-0.2' concrete	
1							
2						soil/fill - no samples	
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
	1		14-16		0%	no recovery	
15	2						
	2						
16	5						
	3		16-18		25%	16-18' dark grey-black mf SAND, wet, strong odor	
17	1						
	2						
18	1					@18' rock fragment	206
	32		18-18.7		70	18-18.7' mf SAND some Gravel; black tar-like staining; odor; wet	140
19	50/0.2'					18.7' split spoon refusal	
20						Total Depth = 20' bgs	

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

Extraction well set at ~20' bgs. 4-foot screened interval

GENERAL NOTES:
1) Stratification Lines represent approximate boundary between soil types; transitions may be gradual.
2) PID readings were taken directly on exposed soil in disposable sleeve, immediately following retrieval from boring.
bgs = below ground surface
ppm = parts per million

BORING # EW-4

Lu Engineers ENVIRONMENTAL • TRANSPORTATION • CIVIL	PROJECT Sewall's Island ERP Site #E623021 PAOC2 Extraction Wells	BORING EW-5 SHEET 1 OF 1 JOB #: 34202 CHKD. BY:

CONTRACTOR: NYEG Drilling
DRILLER: Doug
JCL PERSONNEL: L. Neubauer

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: DATUM: N/A
START DATE: 7/19/2011 END DATE: 7/19/2011

TYPE OF DRILL RIG: CME 55
CASING SIZE AND TYPE: 4.25" ID hollow-stem auger
OVERBURDEN SAMPLING METHOD: split-spoon
ROCK DRILLING METHOD: n/a

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
						0-0.3' concrete	
1						soil/fill - no samples	
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
	3		14-15.4		90%	14-15' grey m,f-SAND, moist	60
15	12						
	50/0.4'					15-15.4' grey m,f-SAND some Gravel, saturated @ 15' bgs	116
16						15.4' split-spoon refusal on rock	
17							
18							
19							
20							

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

Augered into rock. Set well at ~ 16.5' bgs.

GENERAL NOTES:
1) Stratification Lines represent approximate boundary between soil types; transitions may be gradual.
2) PID readings were taken directly on exposed soil in disposable sleeve, immediately following retrieval from boring.
bgs = below ground surface
ppm = parts per million

BORING # EW-5

Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL

PROJECT	BORING EW-6
Sewall's Island ERP Site #E623021 PAOC2 Extraction Wells	SHEET 1 OF 1 JOB #: 34202 CHKD. BY:

CONTRACTOR: NYEG Drilling
DRILLER: Doug
JCL PERSONNEL: L. Neubauer

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: DATUM: N/A
START DATE: 7/20/2011 END DATE: 7/20/2011

TYPE OF DRILL RIG: CME 55
CASING SIZE AND TYPE: 4.25" ID hollow-stem auger
OVERBURDEN SAMPLING METHOD: split-spoon
ROCK DRILLING METHOD: n/a

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
						0-0.3' concrete	
1							
2						soil/fill - no samples	
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
	3		12-14		30%	12-14' dark brown m,f-SAND and GRAVEL trace Silt, moist, no odor	0.0
13	5					rock fragment @ 12.5'	
	3						
14	6					black staining, wet @ 14'	3.5
	2		14-16		50%	14-15' same as above; black staining, odor	9
15	2						
	3					15' black PEAT with organics, loose, wet	100
16	50/0.1					15.5' f-SAND and GRAVEL, black staining, saturated	20
						15.6' split-spoon refusal	
17							
18							
19							
20							

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

Augered to approx. 16.5' bgs.

GENERAL NOTES:
1) Stratification Lines represent approximate boundary between soil types; transitions may be gradual.
2) PID readings were taken directly on exposed soil in disposable sleeve, immediately following retrieval from boring.
bgs = below ground surface
ppm = parts per million

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PROJECT	BORING EW-7
Sewall's Island ERP Site #E623021 PAOC2 Extraction Wells	SHEET 1 OF 1 JOB #: 34202 CHKD. BY:

CONTRACTOR: NYEG Drilling
DRILLER: Doug
JCL PERSONNEL: L. Neubauer

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: DATUM: N/A
START DATE: 7/20/2011 END DATE: 7/20/2011

TYPE OF DRILL RIG: CME 55
CASING SIZE AND TYPE: 4.25" ID hollow-stem auger
OVERBURDEN SAMPLING METHOD: split-spoon
ROCK DRILLING METHOD: n/a

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
1							
2						soil/fill - no samples	
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
	8		12-14		50%	12-13' FILL: dark brown foundry SAND little Gravel, slag, metal pieces, dry	0.1
13	8						
	7					13' black stained soil/fill similar to above	68
14	3						
	2		41-16		75%	14-15' same as above	
15	2						200
	7					15-15.7' black stained PEAT; wood and organics	100
16	4					15.7-16' grey m,f-SAND and GRAVEL, moist, odor	50
	15					16-17' grey-black m,f-SAND	80
17	7					17-18' GRAVEL and rock fragments; saturated @ 17.8	65
	14						
18	4					18' split-spoon refusal on rock.	
19							
20							

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

Augered approx. 1' into rock. Set well at ~ 19' bgs.

GENERAL NOTES:
1) Stratification Lines represent approximate boundary between soil types; transitions may be gradual.
2) PID readings were taken directly on exposed soil in disposable sleeve, immediately following retrieval from boring.
bgs = below ground surface
ppm = parts per million

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PROJECT	BORING EW-8
Sewall's Island ERP Site #E623021 PAOC2 Extraction Wells	SHEET 1 OF 1 JOB #: 34202 CHKD. BY:

CONTRACTOR: NYEG Drilling
DRILLER: Doug
JCL PERSONNEL: L. Neubauer

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: DATUM: N/A
START DATE: 7/20/2011 END DATE: 7/20/2011

TYPE OF DRILL RIG: CME 55
CASING SIZE AND TYPE: 4.25" ID hollow-stem auger
OVERBURDEN SAMPLING METHOD: split-spoon
ROCK DRILLING METHOD: n/a

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
						0-0.5' concrete	
1							
2						soil/fill - no samples	
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
	7		12-14		75%	12-14' FILL: foundry SAND, slag, metal pieces, brick, dry	0.0
13	5						
	5						
14	11					moist @ 14'	
	2		14-16		35%	14-16' FILL: SAND, slag, rock fragments	
15	1						
	3					wet @ 15'	5
16	2						
	50/0.4'		16-16.4		100%	16-16.4' black SAND and GRAVEL with rock fragments, saturated, odor	187
17						16.4' split-spoon refusal	
18							
19							
20							

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

Augered into rock. Set well at ~ 18' bgs.

GENERAL NOTES:
1) Stratification Lines represent approximate boundary between soil types; transitions may be gradual.
2) PID readings were taken directly on exposed soil in disposable sleeve, immediately following retrieval from boring.
bgs = below ground surface
ppm = parts per million

BORING # EW-8

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PROJECT	BORING EW-9
Sewall's Island ERP Site #E623021 PAOC2 Extraction Wells	SHEET 1 OF 1 JOB #: 34202 CHKD. BY:

CONTRACTOR: NYEG Drilling
DRILLER: Doug
JCL PERSONNEL: L. Neubauer

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: DATUM: N/A
START DATE: 7/21/2011 END DATE: 7/21/2011

TYPE OF DRILL RIG: CME 55
CASING SIZE AND TYPE: 4.25" ID hollow-stem auger
OVERBURDEN SAMPLING METHOD: split-spoon
ROCK DRILLING METHOD: n/a

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS

DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
1							
2						soil/fill - no samples	
3							
4							
5							
6							
7							
8							
9							
10							
	3		10-11.2		25%	10-11' m,f-SAND and GRAVEL, wet, no odor	0.7
11	27						
	50/0.2'					11-11.2' rock pieces, dry, no odor. Split-spoon refusal @ 11.2' on rock.	0.0
12							
13							
14							
15							
16							
17							
18							
19							
20							

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

No evidence of contamination encountered. No extraction well installed.

GENERAL NOTES:
1) Stratification Lines represent approximate boundary between soil types; transitions may be gradual.
2) PID readings were taken directly on exposed soil in disposable sleeve, immediately following retrieval from boring.
bgs = below ground surface
ppm = parts per million

BORING # EW-9

Lu Engineers ENVIRONMENTAL • TRANSPORTATION • CIVIL	PROJECT Sewall's Island ERP Site #E623021 PAOC2 Extraction Wells	BORING EW-9a SHEET 1 OF 1 JOB #: 34202 CHKD. BY:

CONTRACTOR: NYEG Drilling
DRILLER: Doug
JCL PERSONNEL: L. Neubauer

BORING LOCATION: SEE PLAN
GROUND SURFACE ELEVATION: DATUM: N/A
START DATE: 7/21/2011 END DATE: 7/21/2011

TYPE OF DRILL RIG: CME 55
CASING SIZE AND TYPE: 4.25" ID hollow-stem auger
OVERBURDEN SAMPLING METHOD: split-spoon
ROCK DRILLING METHOD: n/a

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS

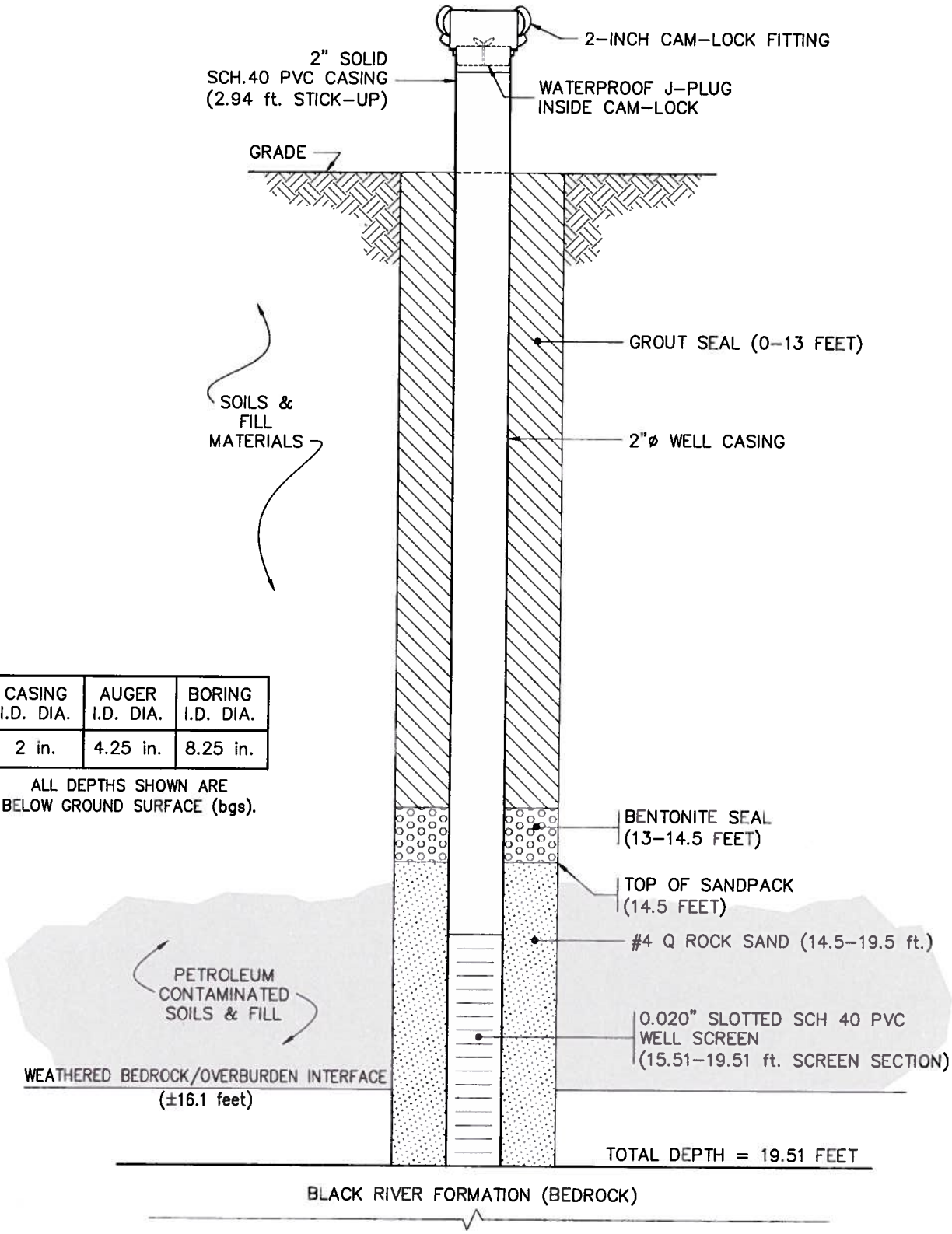
DEPTH	SAMPLE DATA BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	PID (ppm)
1							
2						soil/fill - no samples	
3							
4							
5							
6							
7							
8							
9							
10							
	9		10-10.7		10%	10-10.7' m,f-SAND and GRAVEL with rock fragments; moist	0.0
11	50/0.2'					10.7' split-spoon refusal on rock	0.0
12							
13							
14							
15							
16							
17							
18							
19							
20							

LEGEND
S- SPLIT SPOON SOIL SAMPLE
U- UNDISTURBED SOIL SAMPLE
C- ROCK CORE SAMPLE

No water or evidence of contamination encountered. No extraction well installed.

GENERAL NOTES:
1) Stratification Lines represent approximate boundary between soil types; transitions may be gradual.
2) PID readings were taken directly on exposed soil in disposable sleeve, immediately following retrieval from boring.
bgs = below ground surface
ppm = parts per million

BORING # EW-9a



CASING I.D. DIA.	AUGER I.D. DIA.	BORING I.D. DIA.
2 in.	4.25 in.	8.25 in.

ALL DEPTHS SHOWN ARE BELOW GROUND SURFACE (bgs).

EW-1 CONSTRUCTION DETAIL

NOT TO SCALE

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EXTRACTION WELL AS-BUILT DIAGRAM

EXTRACTION WELL 1

CITY OF WATERTOWN

SEWALL'S ISLAND IRM

DATE:	NOVEMBER 2011
SCALE:	NONE
DRAWN/CHECKED	DLS/ED
P.N.	34202

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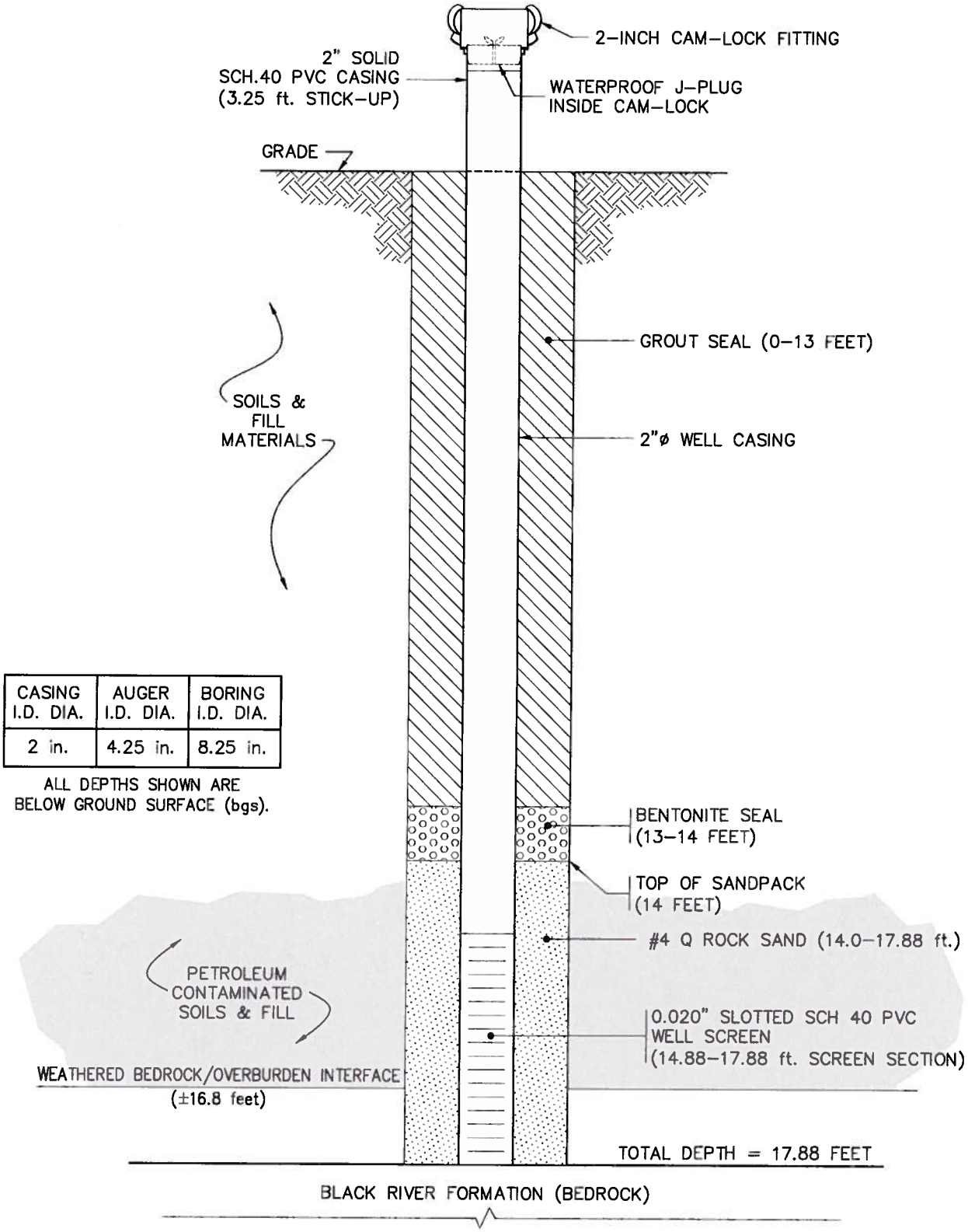

CASING I.D. DIA.	AUGER I.D. DIA.	BORING I.D. DIA.
2 in.	4.25 in.	8.25 in.

ALL DEPTHS SHOWN ARE BELOW GROUND SURFACE (bgs).

EW-2 CONSTRUCTION DETAIL

NOT TO SCALE

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EXTRACTION WELL AS-BUILT DIAGRAM

EXTRACTION WELL 2
CITY OF WATERTOWN
SEWALL'S ISLAND IRM

DATE:	NOVEMBER 2011
SCALE:	NONE
DRAWN/CHECKED	DLS/ED
P.N.	34202

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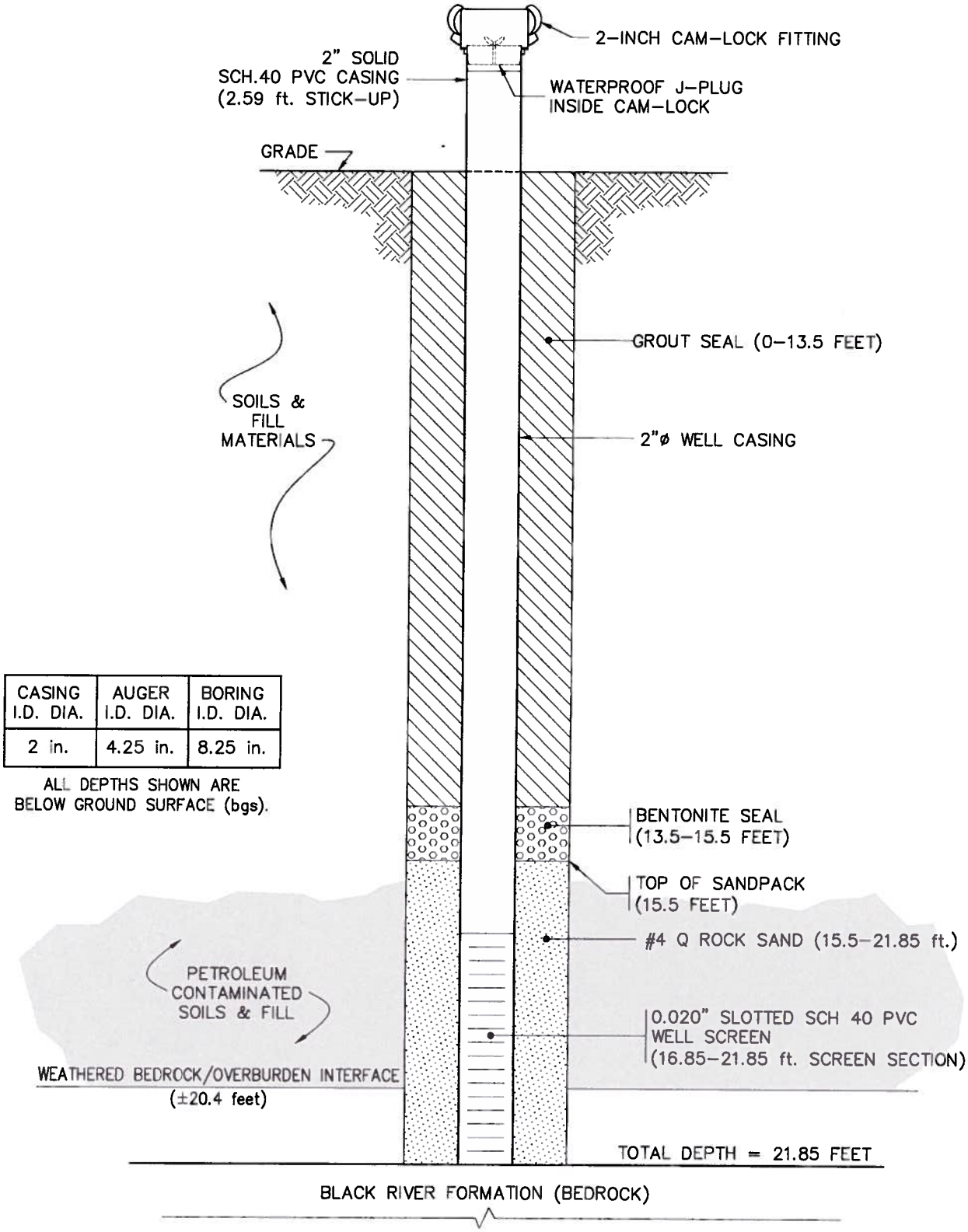

CASING I.D. DIA.	AUGER I.D. DIA.	BORING I.D. DIA.
2 in.	4.25 in.	8.25 in.

ALL DEPTHS SHOWN ARE BELOW GROUND SURFACE (bgs).

EW-3 CONSTRUCTION DETAIL

NOT TO SCALE

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EXTRACTION WELL AS-BUILT DIAGRAM

EXTRACTION WELL 3
CITY OF WATERTOWN
SEWALL'S ISLAND IRM

DATE:	NOVEMBER 2011
SCALE:	NONE
DRAWN/CHECKED	DLS/ED
P.N.	34202

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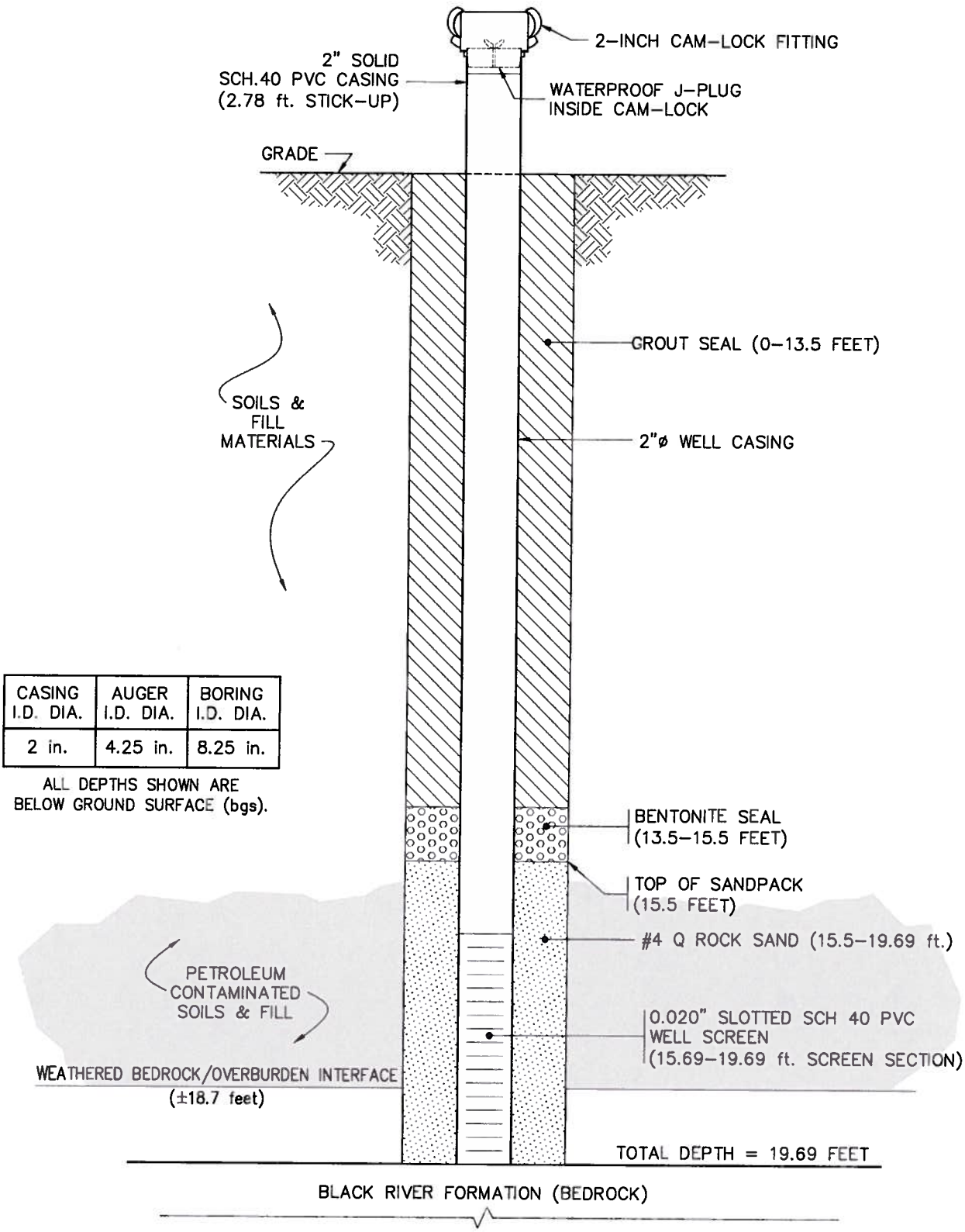

CASING I.D. DIA.	AUGER I.D. DIA.	BORING I.D. DIA.
2 in.	4.25 in.	8.25 in.

ALL DEPTHS SHOWN ARE BELOW GROUND SURFACE (bgs).

EW-4 CONSTRUCTION DETAIL

NOT TO SCALE

Lu Engineers
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EXTRACTION WELL AS-BUILT DIAGRAM

EXTRACTION WELL 4

CITY OF WATERTOWN

SEWALL'S ISLAND IRM

DATE:	NOVEMBER 2011
SCALE:	NONE
DRAWN/CHECKED	DLS/ED
P.N.	34202

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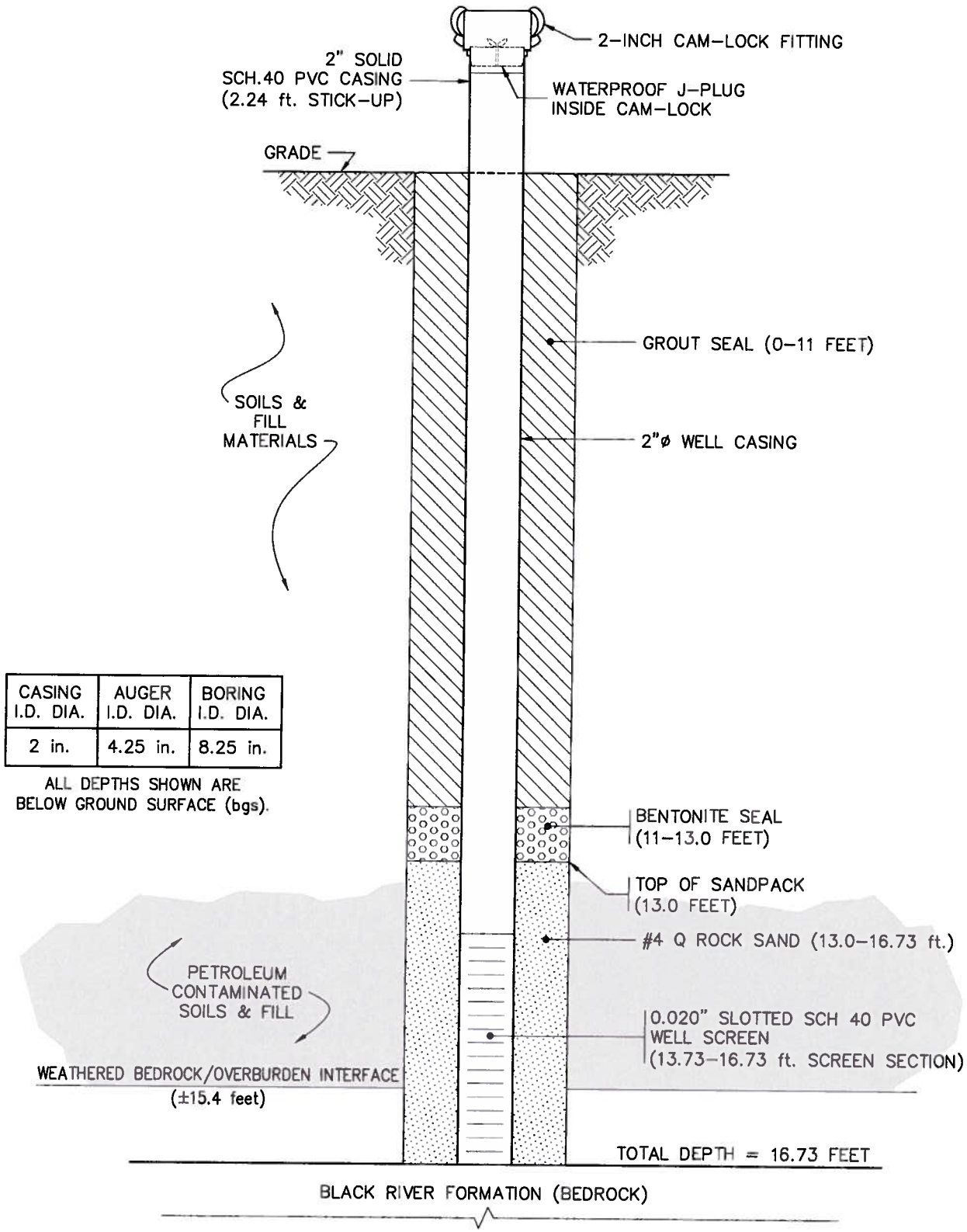

CASING I.D. DIA.	AUGER I.D. DIA.	BORING I.D. DIA.
2 in.	4.25 in.	8.25 in.

ALL DEPTHS SHOWN ARE BELOW GROUND SURFACE (bgs).

EW-5 CONSTRUCTION DETAIL

NOT TO SCALE

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EXTRACTION WELL AS-BUILT DIAGRAM

EXTRACTION WELL 5

CITY OF WATERTOWN

SEWALL'S ISLAND IRM

DATE:	NOVEMBER 2011
SCALE:	NONE
DRAWN/CHECKED	DLS/ED
P.N.	34202

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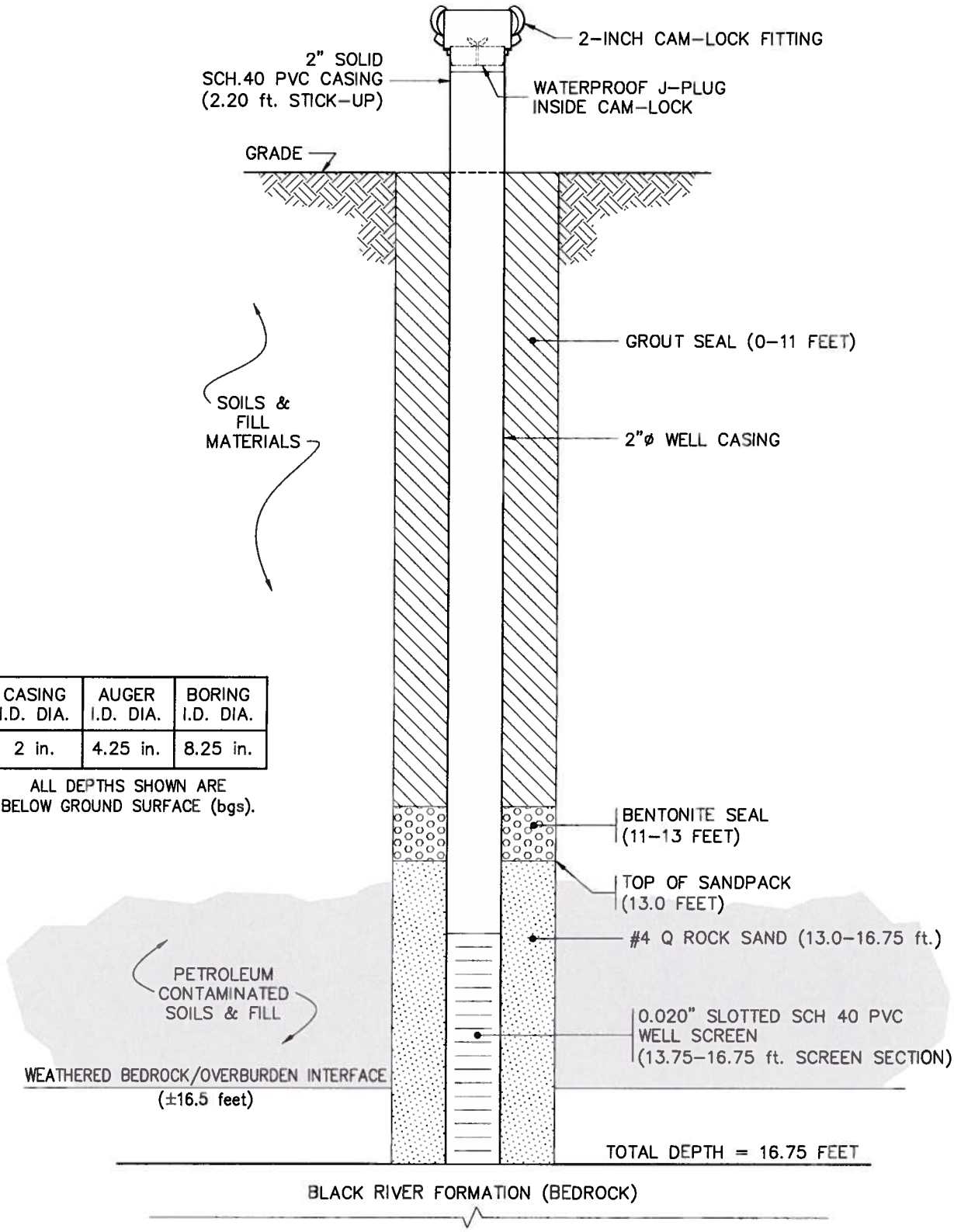

CASING I.D. DIA.	AUGER I.D. DIA.	BORING I.D. DIA.
2 in.	4.25 in.	8.25 in.

ALL DEPTHS SHOWN ARE BELOW GROUND SURFACE (bgs).

EW-6 CONSTRUCTION DETAIL

NOT TO SCALE

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EXTRACTION WELL AS-BUILT DIAGRAM

EXTRACTION WELL 6
CITY OF WATERTOWN
SEWALL'S ISLAND IRM

DATE:	NOVEMBER 2011
SCALE:	NONE
DRAWN/CHECKED	DLS/ED
P.N.	34202

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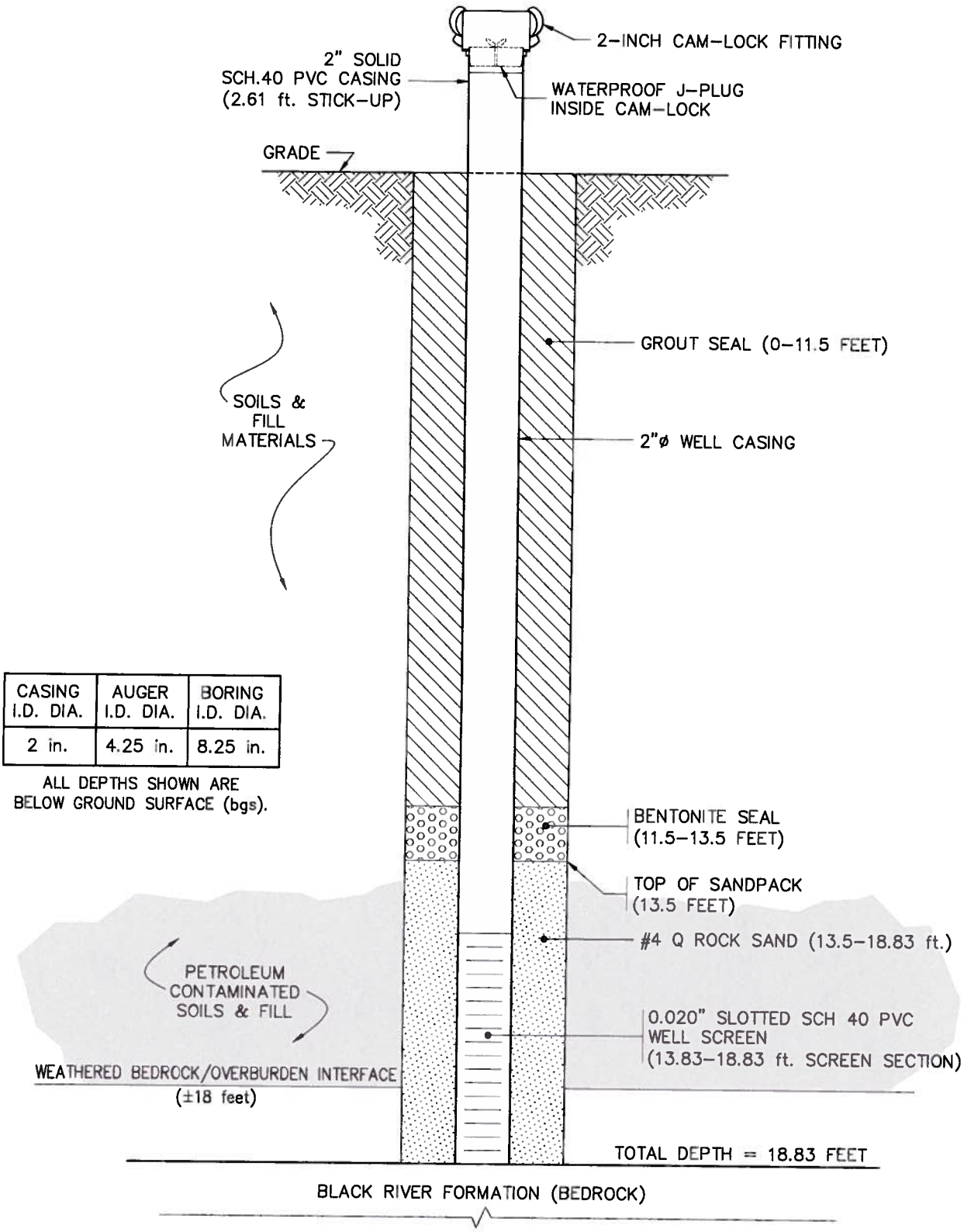

CASING I.D. DIA.	AUGER I.D. DIA.	BORING I.D. DIA.
2 in.	4.25 in.	8.25 in.

ALL DEPTHS SHOWN ARE BELOW GROUND SURFACE (bgs).

EW-7 CONSTRUCTION DETAIL

NOT TO SCALE

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EXTRACTION WELL AS-BUILT DIAGRAM

EXTRACTION WELL 7
CITY OF WATERTOWN
SEWALL'S ISLAND IRM

DATE:	NOVEMBER 2011
SCALE:	NONE
DRAWN/CHECKED	DLS/ED
P.N.	34202

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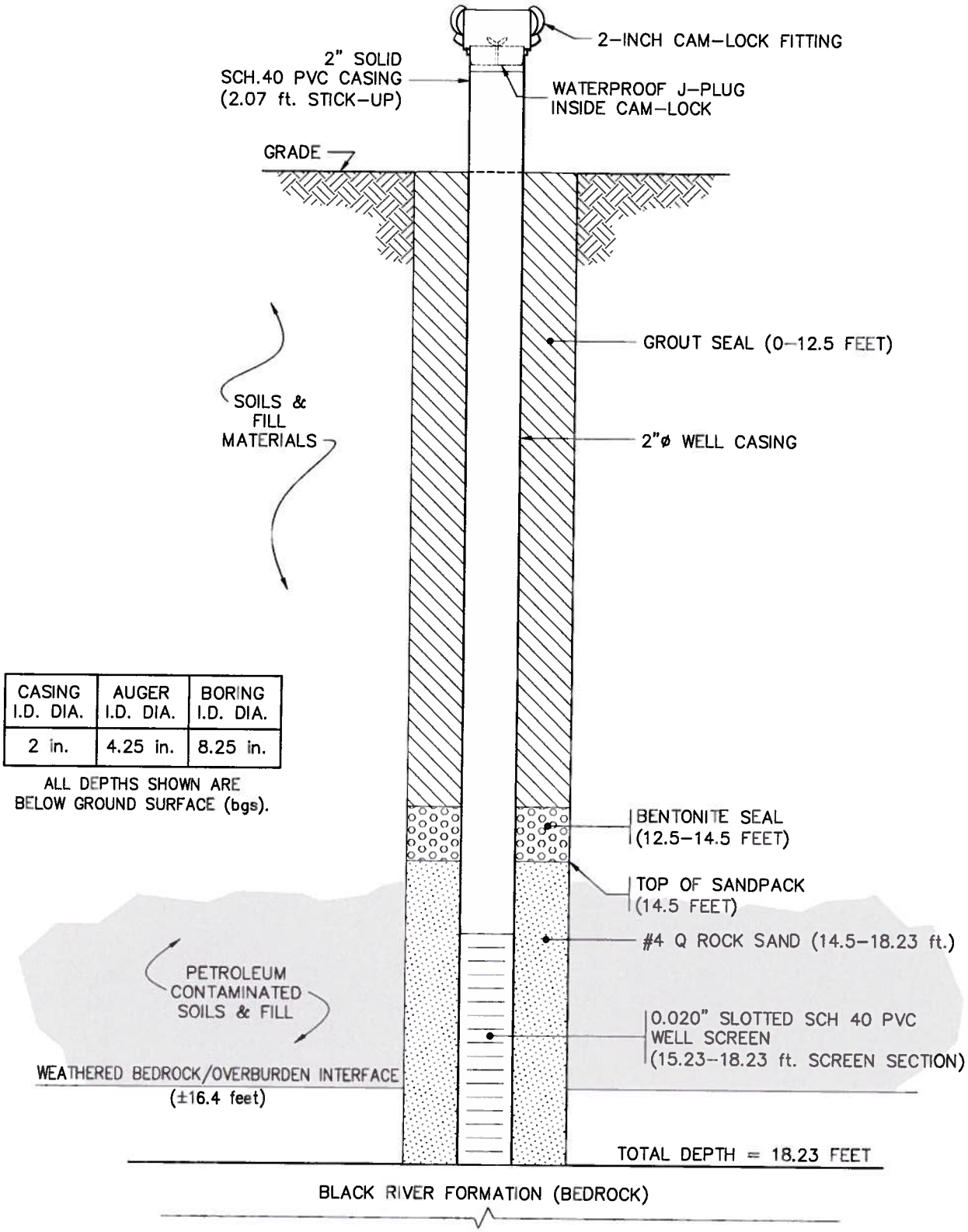

CASING I.D. DIA.	AUGER I.D. DIA.	BORING I.D. DIA.
2 in.	4.25 in.	8.25 in.

ALL DEPTHS SHOWN ARE BELOW GROUND SURFACE (bgs).

EW-8 CONSTRUCTION DETAIL

NOT TO SCALE

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EXTRACTION WELL AS-BUILT DIAGRAM

EXTRACTION WELL 8
CITY OF WATERTOWN
SEWALL'S ISLAND IRM

DATE:	NOVEMBER 2011
SCALE:	NONE
DRAWN/CHECKED	DLS/ED
P.N.	34202

J:\Projects\34200 Watertown\34202 Sewall's Island\Cadd\RI_MWs.dwg, 11/28/2011 2:42:22 PM, dlane, AC2008

TOTAL FLUIDS EXTRACTION DATA

SEWALL'S ISLAND PAOC2 IRM
SUMMARY OF VAPOR PHASE PRODUCT RECOVERY
9/14-12/12/11

LOCATION	TIME (MIN)	LIQUID PRODUCT (GAL)	AVERAGE AIR FLOW (CFM)	VAPOR CONC. *(MG/M^3)	VAPOR RECOVERY RATE (GPM)	VAPOR RECOVERY RATE (GPD)	PRODUCT RECOVERED (GAL)
PAOC2	108000	0	85	100	0.0000883	0.13	9.54
						TOTAL	9.54

*calculated @ 100 F

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Sewall's Island TFE System
Monitoring Log

Instrument's Used: Fluke 992 Air Flow Meter, MiniRae 3000 Calibrated: 9/10/11

Monitored by: ED/JF/WW/GA/LN

DATE	WELL HEAD VACUUM (" Hg) (@ knockout tank)	SYSTEM PUMP VACUUM(" Hg) (@ restrict. valve)	EXTRACTION WELLS CONNECTED	EXHAUST VELOCITY (cfm)	EXHAUST FLOW VOLUME (cfm)	PID READING @ EXHAUST (ppm)
9/15/11	-19.5	-19.0	EW-4, EW-6			
9/16/11	-18.5	-20.0				
9/17/11	-19.0	-19.0				
9/18/11	-20.0	-20.0				
9/19/11	-19.5	-20.0				
9/20/11	-19	-18.0				
9/21/11	-20	-20.5				
9/22/11	-20	-19.0				
9/23/11	-13.5	-17.5	EW-1, EW-2	(vol) 123	5,100 (vol)	180; 151
9/24/11	-13.5	-16.0				
9/25/11	-12.0	-17.0				
9/28/11	-13.5	-12.5	MW-2S			
9/29/11	-18.0	-18.0				
9/30/11	-18.0	-18.0				
10/1/11	-17.0	-17.5				
10/2/11	-15.0	-16.0				
10/3/11	-19.0	-15.5	10/4/11 EW-2			★ (EW-2 from 10/4/11-10/6/11)
10/5/11	-12.0	-12.0				
10/7/11	-20.0	-20.0	10/6/11 MW-2S			★ (MW-2S from 10/6/11-10/17/11)
10/8/11	-20.0	-20.5				
10/9/11	-20.0	-18.0				
10/10/11	-20.0	-20.0				
10/11/11	-20.0	-19.0				
10/12/11	-18.0	-21.0				
10/13/11	-19.5	-20.0				
10/14/11	-20.0	-20.0				
10/15/11	-18.5	-18.5				
10/16/11	-21.5	-21.5				
10/17/11	GENERATOR FAILURE					

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Sewall's Island TFE System
Monitoring Log

Instrument's Used: Fluke 992 Air Flow Meter, MiniRae 3000 Calibrated: 10/17/11

Monitored by: ED/JF/WW

	DATE	WELL HEAD VACUUM (" Hg) (@ knockout tank)	SYSTEM PUMP VACUUM(" Hg) (@ restrict. valve)	EXTRACTION WELLS CONNECTED	EXHAUST VELOCITY (cfm)	EXHAUST FLOW VOLUME (cfm)	PID READING @ EXHAUST (ppm)
	11/3/11	-17.75	-17.5	EW-1, EW-4	3,950 (avg)	85 (avg)	59.3 peak / 58 sust.
	11/4/11	-18.0	-17.5	↓			
	11/5/11	-18.0	-16.5				
	11/6/11	-17.0	-17.75				
	11/7/11	-18.5	-18.5				
	11/9/11	-18.0	-19.25				
	11/11/11	-18.0	-18.5				
	11/12/11	-18.0	-18.5				
	11/14/11	-19.0	-19.5				
	11/15/11	-18.5	-18.5				
Arrival	11/16/11	-18.5	-17.25	↓	3,961 (avg)	86 (avg)	37.6 peak / 36.5 sustained
Departure	11/16/11	-6.25	-16.0	EW-2, EW-3	3,800 (avg)	83.5 (avg)	46.2 peak / 46 sustained
	11/17/11	-6.25	-18.25	↓			
	11/19/11	-7.0	-18.5				
	11/21/11	-7.0	-17.75	↓			
	11/23/11	SYSTEM DOWN DUE TO SECOND GENERATOR FAILURE					
SYSTEM RESTART →	11/25/11	-7.0	-17.0	EW-2, EW-3			
	11/27/11	-8.5	-19.5	↓			
Arrival	11/29/11	-8.5	-18.0	↓	3,710 (avg)	82 (avg)	14.8 peak / sustained
Departure	11/29/11	-20.5	-21.0	EW-4, MW-2S	2,538 (avg)	56.5 (avg)	21.9 peak / 21.5 sustained
	12/1/11	-20.5	-19.0	↓			
	12/3/11	-21.0	-19.0				
	12/5/11	-21.0	-19.0				
	12/7/11	-21.5	-21.0				
	12/8/11	-21.5	-21.5				
	12/9/11	-21.5	-22.0	↓			
	12/12/11	SYSTEM STOPPED FOR DEMOB 9:40 am					

Appendix C
Laboratory Analytical Data

SURFACE SOIL SAMPLE RESULTS

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-01

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1368-01B

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: V1J8520.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 15

Date Analyzed: 08/22/2008

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	5.9	U
74-87-3	Chloromethane	5.9	U
75-01-4	Vinyl chloride	5.9	U
74-83-9	Bromomethane	5.9	U
75-00-3	Chloroethane	5.9	U
75-69-4	Trichlorofluoromethane	5.9	U
75-35-4	1,1-Dichloroethene	5.9	U
67-64-1	Acetone	5.9	U
74-88-4	Iodomethane	5.9	U
75-15-0	Carbon disulfide	5.9	U
75-09-2	Methylene chloride	1.5	J
156-60-5	trans-1,2-Dichloroethene	5.9	U
1634-04-4	Methyl tert-butyl ether	5.9	U
75-34-3	1,1-Dichloroethane	5.9	U
108-05-4	Vinyl acetate	5.9	U
78-93-3	2-Butanone	5.9	U
156-59-2	cis-1,2-Dichloroethene	5.9	U
594-20-7	2,2-Dichloropropane	5.9	U
74-97-5	Bromochloromethane	5.9	U
67-66-3	Chloroform	5.9	U
71-55-6	1,1,1-Trichloroethane	5.9	U
563-58-6	1,1-Dichloropropene	5.9	U
56-23-5	Carbon tetrachloride	5.9	U
107-06-2	1,2-Dichloroethane	5.9	U
71-43-2	Benzene	5.9	U
79-01-6	Trichloroethene	5.9	U
78-87-5	1,2-Dichloropropane	5.9	U
74-95-3	Dibromomethane	5.9	U
75-27-4	Bromodichloromethane	5.9	U
10061-01-5	cis-1,3-Dichloropropene	5.9	U
108-10-1	4-Methyl-2-pentanone	5.9	U
108-88-3	Toluene	5.9	U
10061-02-6	trans-1,3-Dichloropropene	5.9	U
79-00-5	1,1,2-Trichloroethane	5.9	U
142-28-9	1,3-Dichloropropane	5.9	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-01B

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1J8520.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 15 Date Analyzed: 08/22/2008

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
127-18-4	Tetrachloroethene	5.9	U
591-78-6	2-Hexanone	5.9	U
124-48-1	Dibromochloromethane	5.9	U
106-93-4	1,2-Dibromoethane	5.9	U
108-90-7	Chlorobenzene	5.9	U
630-20-6	1,1,1,2-Tetrachloroethane	5.9	U
100-41-4	Ethylbenzene	5.9	U
1330-20-7	m,p-Xylene	2.6	BJ
95-47-6	o-Xylene	5.9	U
1330-20-7	Xylene (Total)	2.6	BJ
100-42-5	Styrene	5.9	U
75-25-2	Bromoform	5.9	U
98-82-8	Isopropylbenzene	5.9	U
79-34-5	1,1,2,2-Tetrachloroethane	5.9	U
108-86-1	Bromobenzene	5.9	U
96-18-4	1,2,3-Trichloropropane	5.9	U
103-65-1	n-Propylbenzene	5.9	U
95-49-8	2-Chlorotoluene	5.9	U
108-67-8	1,3,5-Trimethylbenzene	5.9	U
106-43-4	4-Chlorotoluene	5.9	U
98-06-6	tert-Butylbenzene	5.9	U
95-63-6	1,2,4-Trimethylbenzene	5.9	U
135-98-8	sec-Butylbenzene	5.9	U
99-87-6	4-Isopropyltoluene	5.9	U
541-73-1	1,3-Dichlorobenzene	5.9	U
106-46-7	1,4-Dichlorobenzene	5.9	U
104-51-8	n-Butylbenzene	5.9	U
95-50-1	1,2-Dichlorobenzene	5.9	U
96-12-8	1,2-Dibromo-3-chloropropane	5.9	U
120-82-1	1,2,4-Trichlorobenzene	5.9	U
87-68-3	Hexachlorobutadiene	5.9	U
87-61-6	1,2,3-Trichlorobenzene	5.9	U
91-20-3	Naphthalene	5.9	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-01B

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1J8520.D

Level: (TRACE or LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 15 Date Analyzed: 08/22/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-02

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-02B

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1J8521.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 9.0 Date Analyzed: 08/22/2008

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	5.4	U
74-87-3	Chloromethane	5.4	U
75-01-4	Vinyl chloride	5.4	U
74-83-9	Bromomethane	5.4	U
75-00-3	Chloroethane	5.4	U
75-69-4	Trichlorofluoromethane	5.4	U
75-35-4	1,1-Dichloroethene	5.4	U
67-64-1	Acetone	5.4	U
74-88-4	Iodomethane	5.4	U
75-15-0	Carbon disulfide	5.4	U
75-09-2	Methylene chloride	1.4	J
156-60-5	trans-1,2-Dichloroethene	5.4	U
1634-04-4	Methyl tert-butyl ether	5.4	U
75-34-3	1,1-Dichloroethane	5.4	U
108-05-4	Vinyl acetate	5.4	U
78-93-3	2-Butanone	5.4	U
156-59-2	cis-1,2-Dichloroethene	5.4	U
594-20-7	2,2-Dichloropropane	5.4	U
74-97-5	Bromochloromethane	5.4	U
67-66-3	Chloroform	5.4	U
71-55-6	1,1,1-Trichloroethane	5.4	U
563-58-6	1,1-Dichloropropene	5.4	U
56-23-5	Carbon tetrachloride	5.4	U
107-06-2	1,2-Dichloroethane	5.4	U
71-43-2	Benzene	5.4	U
79-01-6	Trichloroethene	5.4	U
78-87-5	1,2-Dichloropropane	5.4	U
74-95-3	Dibromomethane	5.4	U
75-27-4	Bromodichloromethane	5.4	U
10061-01-5	cis-1,3-Dichloropropene	5.4	U
108-10-1	4-Methyl-2-pentanone	5.4	U
108-88-3	Toluene	5.4	U
10061-02-6	trans-1,3-Dichloropropene	5.4	U
79-00-5	1,1,2-Trichloroethane	5.4	U
142-28-9	1,3-Dichloropropane	5.4	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-02

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1368-02B

Sample wt/vol: 5.10 (g/mL) G

Lab File ID: V1J8521.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 9.0

Date Analyzed: 08/22/2008

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
127-18-4	Tetrachloroethene	5.4	U
591-78-6	2-Hexanone	5.4	U
124-48-1	Dibromochloromethane	5.4	U
106-93-4	1,2-Dibromoethane	5.4	U
108-90-7	Chlorobenzene	5.4	U
630-20-6	1,1,1,2-Tetrachloroethane	5.4	U
100-41-4	Ethylbenzene	5.4	U
1330-20-7	m,p-Xylene	2.7	BJ
95-47-6	o-Xylene	5.4	U
1330-20-7	Xylene (Total)	2.7	BJ
100-42-5	Styrene	5.4	U
75-25-2	Bromoform	5.4	U
98-82-8	Isopropylbenzene	5.4	U
79-34-5	1,1,2,2-Tetrachloroethane	5.4	U
108-86-1	Bromobenzene	5.4	U
96-18-4	1,2,3-Trichloropropane	5.4	U
103-65-1	n-Propylbenzene	5.4	U
95-49-8	2-Chlorotoluene	5.4	U
108-67-8	1,3,5-Trimethylbenzene	5.4	U
106-43-4	4-Chlorotoluene	5.4	U
98-06-6	tert-Butylbenzene	5.4	U
95-63-6	1,2,4-Trimethylbenzene	5.4	U
135-98-8	sec-Butylbenzene	5.4	U
99-87-6	4-Isopropyltoluene	5.4	U
541-73-1	1,3-Dichlorobenzene	5.4	U
106-46-7	1,4-Dichlorobenzene	5.4	U
104-51-8	n-Butylbenzene	5.4	U
95-50-1	1,2-Dichlorobenzene	5.4	U
96-12-8	1,2-Dibromo-3-chloropropane	5.4	U
120-82-1	1,2,4-Trichlorobenzene	5.4	U
87-68-3	Hexachlorobutadiene	5.4	U
87-61-6	1,2,3-Trichlorobenzene	5.4	U
91-20-3	Naphthalene	5.4	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-02

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-02B

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1J8521.D

Level: (TRACE or LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 9.0 Date Analyzed: 08/22/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-03

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-03B

Sample wt/vol: 5.20 (g/mL) G Lab File ID: V1J8522.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 13 Date Analyzed: 08/22/2008

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	5.5	U
74-87-3	Chloromethane	5.5	U
75-01-4	Vinyl chloride	5.5	U
74-83-9	Bromomethane	5.5	U
75-00-3	Chloroethane	5.5	U
75-69-4	Trichlorofluoromethane	5.5	U
75-35-4	1,1-Dichloroethene	5.5	U
67-64-1	Acetone	5.5	U
74-88-4	Iodomethane	5.5	U
75-15-0	Carbon disulfide	5.5	U
75-09-2	Methylene chloride	1.6	J
156-60-5	trans-1,2-Dichloroethene	5.5	U
1634-04-4	Methyl tert-butyl ether	5.5	U
75-34-3	1,1-Dichloroethane	5.5	U
108-05-4	Vinyl acetate	5.5	U
78-93-3	2-Butanone	5.5	U
156-59-2	cis-1,2-Dichloroethene	5.5	U
594-20-7	2,2-Dichloropropane	5.5	U
74-97-5	Bromochloromethane	5.5	U
67-66-3	Chloroform	5.5	U
71-55-6	1,1,1-Trichloroethane	5.5	U
563-58-6	1,1-Dichloropropene	5.5	U
56-23-5	Carbon tetrachloride	5.5	U
107-06-2	1,2-Dichloroethane	5.5	U
71-43-2	Benzene	5.5	U
79-01-6	Trichloroethene	5.5	U
78-87-5	1,2-Dichloropropane	5.5	U
74-95-3	Dibromomethane	5.5	U
75-27-4	Bromodichloromethane	5.5	U
10061-01-5	cis-1,3-Dichloropropene	5.5	U
108-10-1	4-Methyl-2-pentanone	5.5	U
108-88-3	Toluene	2.2	J
10061-02-6	trans-1,3-Dichloropropene	5.5	U
79-00-5	1,1,2-Trichloroethane	5.5	U
142-28-9	1,3-Dichloropropane	5.5	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-03

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-03B

Sample wt/vol: 5.20 (g/mL) G Lab File ID: V1J8522.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 13 Date Analyzed: 08/22/2008

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
127-18-4	Tetrachloroethene	5.5	U
591-78-6	2-Hexanone	5.5	U
124-48-1	Dibromochloromethane	5.5	U
106-93-4	1,2-Dibromoethane	5.5	U
108-90-7	Chlorobenzene	5.5	U
630-20-6	1,1,1,2-Tetrachloroethane	5.5	U
100-41-4	Ethylbenzene	5.5	U
1330-20-7	m,p-Xylene	2.4	BJ
95-47-6	o-Xylene	5.5	U
1330-20-7	Xylene (Total)	2.4	BJ
100-42-5	Styrene	5.5	U
75-25-2	Bromoform	5.5	U
98-82-8	Isopropylbenzene	5.5	U
79-34-5	1,1,2,2-Tetrachloroethane	5.5	U
108-86-1	Bromobenzene	5.5	U
96-18-4	1,2,3-Trichloropropane	5.5	U
103-65-1	n-Propylbenzene	5.5	U
95-49-8	2-Chlorotoluene	5.5	U
108-67-8	1,3,5-Trimethylbenzene	5.5	U
106-43-4	4-Chlorotoluene	5.5	U
98-06-6	tert-Butylbenzene	5.5	U
95-63-6	1,2,4-Trimethylbenzene	5.5	U
135-98-8	sec-Butylbenzene	5.5	U
99-87-6	4-Isopropyltoluene	5.5	U
541-73-1	1,3-Dichlorobenzene	5.5	U
106-46-7	1,4-Dichlorobenzene	5.5	U
104-51-8	n-Butylbenzene	5.5	U
95-50-1	1,2-Dichlorobenzene	5.5	U
96-12-8	1,2-Dibromo-3-chloropropane	5.5	U
120-82-1	1,2,4-Trichlorobenzene	5.5	U
87-68-3	Hexachlorobutadiene	5.5	U
87-61-6	1,2,3-Trichlorobenzene	5.5	U
91-20-3	Naphthalene	5.5	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-03

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-03B

Sample wt/vol: 5.20 (g/mL) G Lab File ID: V1J8522.D

Level: (TRACE or LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 13 Date Analyzed: 08/22/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-04

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-04B

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1J8523.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 17 Date Analyzed: 08/22/2008

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	6.0	U
74-88-4	Iodomethane	6.0	U
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
108-05-4	Vinyl acetate	6.0	U
78-93-3	2-Butanone	6.0	U
156-59-2	cis-1,2-Dichloroethene	6.0	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	6.0	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-04

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1368-04B

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: V1J8523.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 17

Date Analyzed: 08/22/2008

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
127-18-4	Tetrachloroethene	6.0	U
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
630-20-6	1,1,1,2-Tetrachloroethane	6.0	U
100-41-4	Ethylbenzene	6.0	U
1330-20-7	m,p-Xylene	2.2	BJ
95-47-6	o-Xylene	6.0	U
1330-20-7	Xylene (Total)	2.2	BJ
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
108-86-1	Bromobenzene	6.0	U
96-18-4	1,2,3-Trichloropropane	6.0	U
103-65-1	n-Propylbenzene	6.0	U
95-49-8	2-Chlorotoluene	6.0	U
108-67-8	1,3,5-Trimethylbenzene	6.0	U
106-43-4	4-Chlorotoluene	6.0	U
98-06-6	tert-Butylbenzene	6.0	U
95-63-6	1,2,4-Trimethylbenzene	6.0	U
135-98-8	sec-Butylbenzene	6.0	U
99-87-6	4-Isopropyltoluene	6.0	U
541-73-1	1,3-Dichlorobenzene	6.0	U
106-46-7	1,4-Dichlorobenzene	6.0	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	6.0	U
87-61-6	1,2,3-Trichlorobenzene	6.0	U
91-20-3	Naphthalene	6.0	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-04

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-04B

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1J8523.D

Level: (TRACE or LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 17 Date Analyzed: 08/22/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-05

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1368-05B

Sample wt/vol: 5.10 (g/mL) G

Lab File ID: V1J8524.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 14

Date Analyzed: 08/22/2008

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	5.7	U
74-87-3	Chloromethane	5.7	U
75-01-4	Vinyl chloride	5.7	U
74-83-9	Bromomethane	5.7	U
75-00-3	Chloroethane	5.7	U
75-69-4	Trichlorofluoromethane	5.7	U
75-35-4	1,1-Dichloroethene	5.7	U
67-64-1	Acetone	5.7	U
74-88-4	Iodomethane	5.7	U
75-15-0	Carbon disulfide	5.7	U
75-09-2	Methylene chloride	5.7	U
156-60-5	trans-1,2-Dichloroethene	5.7	U
1634-04-4	Methyl tert-butyl ether	5.7	U
75-34-3	1,1-Dichloroethane	5.7	U
108-05-4	Vinyl acetate	5.7	U
78-93-3	2-Butanone	5.7	U
156-59-2	cis-1,2-Dichloroethene	5.7	U
594-20-7	2,2-Dichloropropane	5.7	U
74-97-5	Bromochloromethane	5.7	U
67-66-3	Chloroform	5.7	U
71-55-6	1,1,1-Trichloroethane	5.7	U
563-58-6	1,1-Dichloropropene	5.7	U
56-23-5	Carbon tetrachloride	5.7	U
107-06-2	1,2-Dichloroethane	5.7	U
71-43-2	Benzene	5.7	U
79-01-6	Trichloroethene	5.7	U
78-87-5	1,2-Dichloropropane	5.7	U
74-95-3	Dibromomethane	5.7	U
75-27-4	Bromodichloromethane	5.7	U
10061-01-5	cis-1,3-Dichloropropene	5.7	U
108-10-1	4-Methyl-2-pentanone	5.7	U
108-88-3	Toluene	1.3	J
10061-02-6	trans-1,3-Dichloropropene	5.7	U
79-00-5	1,1,2-Trichloroethane	5.7	U
142-28-9	1,3-Dichloropropane	5.7	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-05

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-05B

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1J8524.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 14 Date Analyzed: 08/22/2008

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
127-18-4	Tetrachloroethene	5.7	U
591-78-6	2-Hexanone	5.7	U
124-48-1	Dibromochloromethane	5.7	U
106-93-4	1,2-Dibromoethane	5.7	U
108-90-7	Chlorobenzene	5.7	U
630-20-6	1,1,1,2-Tetrachloroethane	5.7	U
100-41-4	Ethylbenzene	5.7	U
1330-20-7	m,p-Xylene	2.0	BJ
95-47-6	o-Xylene	5.7	U
1330-20-7	Xylene (Total)	2.0	BJ
100-42-5	Styrene	5.7	U
75-25-2	Bromoform	5.7	U
98-82-8	Isopropylbenzene	5.7	U
79-34-5	1,1,2,2-Tetrachloroethane	5.7	U
108-86-1	Bromobenzene	5.7	U
96-18-4	1,2,3-Trichloropropane	5.7	U
103-65-1	n-Propylbenzene	5.7	U
95-49-8	2-Chlorotoluene	5.7	U
108-67-8	1,3,5-Trimethylbenzene	5.7	U
106-43-4	4-Chlorotoluene	5.7	U
98-06-6	tert-Butylbenzene	5.7	U
95-63-6	1,2,4-Trimethylbenzene	5.7	U
135-98-8	sec-Butylbenzene	5.7	U
99-87-6	4-Isopropyltoluene	5.7	U
541-73-1	1,3-Dichlorobenzene	5.7	U
106-46-7	1,4-Dichlorobenzene	5.7	U
104-51-8	n-Butylbenzene	5.7	U
95-50-1	1,2-Dichlorobenzene	5.7	U
96-12-8	1,2-Dibromo-3-chloropropane	5.7	U
120-82-1	1,2,4-Trichlorobenzene	5.7	U
87-68-3	Hexachlorobutadiene	5.7	U
87-61-6	1,2,3-Trichlorobenzene	5.7	U
91-20-3	Naphthalene	5.7	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-05

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-05B

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1J8524.D

Level: (TRACE or LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 14 Date Analyzed: 08/22/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-06

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-06B

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1J8525.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 16 Date Analyzed: 08/22/2008

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	6.0	U
74-88-4	Iodomethane	6.0	U
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
108-05-4	Vinyl acetate	6.0	U
78-93-3	2-Butanone	6.0	U
156-59-2	cis-1,2-Dichloroethene	6.0	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	6.0	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-06

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-06B

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1J8525.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 16 Date Analyzed: 08/22/2008

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
127-18-4	Tetrachloroethene	6.0	U
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
630-20-6	1,1,1,2-Tetrachloroethane	6.0	U
100-41-4	Ethylbenzene	6.0	U
1330-20-7	m,p-Xylene	1.9	BJ
95-47-6	o-Xylene	6.0	U
1330-20-7	Xylene (Total)	1.9	BJ
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
108-86-1	Bromobenzene	6.0	U
96-18-4	1,2,3-Trichloropropane	6.0	U
103-65-1	n-Propylbenzene	6.0	U
95-49-8	2-Chlorotoluene	6.0	U
108-67-8	1,3,5-Trimethylbenzene	6.0	U
106-43-4	4-Chlorotoluene	6.0	U
98-06-6	tert-Butylbenzene	6.0	U
95-63-6	1,2,4-Trimethylbenzene	6.0	U
135-98-8	sec-Butylbenzene	6.0	U
99-87-6	4-Isopropyltoluene	6.0	U
541-73-1	1,3-Dichlorobenzene	6.0	U
106-46-7	1,4-Dichlorobenzene	6.0	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	6.0	U
87-61-6	1,2,3-Trichlorobenzene	6.0	U
91-20-3	Naphthalene	6.0	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-06

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-06B

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1J8525.D

Level: (TRACE or LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 16 Date Analyzed: 08/22/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-07

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-07B

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1J8526.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 10 Date Analyzed: 08/22/2008

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
74-88-4	Iodomethane	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
108-05-4	Vinyl acetate	5.6	U
78-93-3	2-Butanone	5.6	U
156-59-2	cis-1,2-Dichloroethene	5.6	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	5.6	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-07

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-07B

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1J8526.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 10 Date Analyzed: 08/22/2008

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
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
630-20-6	1,1,1,2-Tetrachloroethane	5.6	U
100-41-4	Ethylbenzene	5.6	U
1330-20-7	m,p-Xylene	1.8	BJ
95-47-6	o-Xylene	5.6	U
1330-20-7	Xylene (Total)	1.8	BJ
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
108-86-1	Bromobenzene	5.6	U
96-18-4	1,2,3-Trichloropropane	5.6	U
103-65-1	n-Propylbenzene	5.6	U
95-49-8	2-Chlorotoluene	5.6	U
108-67-8	1,3,5-Trimethylbenzene	5.6	U
106-43-4	4-Chlorotoluene	5.6	U
98-06-6	tert-Butylbenzene	5.6	U
95-63-6	1,2,4-Trimethylbenzene	5.6	U
135-98-8	sec-Butylbenzene	5.6	U
99-87-6	4-Isopropyltoluene	5.6	U
541-73-1	1,3-Dichlorobenzene	5.6	U
106-46-7	1,4-Dichlorobenzene	5.6	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	5.6	U
87-61-6	1,2,3-Trichlorobenzene	5.6	U
91-20-3	Naphthalene	5.6	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-07

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1368
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1368-07B
Sample wt/vol: 5.00 (g/mL) G
Lab File ID: V1J8526.D
Level: (TRACE or LOW/MED) LOW
Date Received: 08/21/2008
% Moisture: not dec. 10
Date Analyzed: 08/22/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-08

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-08B

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1J8527.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 24 Date Analyzed: 08/22/2008

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
74-88-4	Iodomethane	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
108-05-4	Vinyl acetate	6.6	U
78-93-3	2-Butanone	6.6	U
156-59-2	cis-1,2-Dichloroethene	6.6	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	6.6	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-08

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-08B

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1J8527.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 24 Date Analyzed: 08/22/2008

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
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
630-20-6	1,1,1,2-Tetrachloroethane	6.6	U
100-41-4	Ethylbenzene	6.6	U
1330-20-7	m,p-Xylene	2.3	BJ
95-47-6	o-Xylene	6.6	U
1330-20-7	Xylene (Total)	2.3	BJ
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
108-86-1	Bromobenzene	6.6	U
96-18-4	1,2,3-Trichloropropane	6.6	U
103-65-1	n-Propylbenzene	6.6	U
95-49-8	2-Chlorotoluene	6.6	U
108-67-8	1,3,5-Trimethylbenzene	6.6	U
106-43-4	4-Chlorotoluene	6.6	U
98-06-6	tert-Butylbenzene	6.6	U
95-63-6	1,2,4-Trimethylbenzene	6.6	U
135-98-8	sec-Butylbenzene	6.6	U
99-87-6	4-Isopropyltoluene	6.6	U
541-73-1	1,3-Dichlorobenzene	6.6	U
106-46-7	1,4-Dichlorobenzene	6.6	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	6.6	U
87-61-6	1,2,3-Trichlorobenzene	6.6	U
91-20-3	Naphthalene	6.6	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-08

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1368
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1368-08B
Sample wt/vol: 5.00 (g/mL) G
Lab File ID: V1J8527.D
Level: (TRACE or LOW/MED) LOW
Date Received: 08/21/2008
% Moisture: not dec. 24
Date Analyzed: 08/22/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	5989-27-5	D-Limonene	12.343	23	NJ
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-09

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-09B

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1J8528.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 27 Date Analyzed: 08/22/2008

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
74-88-4	Iodomethane	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
108-05-4	Vinyl acetate	6.8	U
78-93-3	2-Butanone	6.8	U
156-59-2	cis-1,2-Dichloroethene	6.8	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	6.8	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-09

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1368-09B

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: V1J8528.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 27

Date Analyzed: 08/22/2008

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
127-18-4	Tetrachloroethene	6.8	U
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
630-20-6	1,1,1,2-Tetrachloroethane	6.8	U
100-41-4	Ethylbenzene	6.8	U
1330-20-7	m,p-Xylene	2.1	BJ
95-47-6	o-Xylene	6.8	U
1330-20-7	Xylene (Total)	2.1	BJ
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
108-86-1	Bromobenzene	6.8	U
96-18-4	1,2,3-Trichloropropane	6.8	U
103-65-1	n-Propylbenzene	6.8	U
95-49-8	2-Chlorotoluene	6.8	U
108-67-8	1,3,5-Trimethylbenzene	6.8	U
106-43-4	4-Chlorotoluene	6.8	U
98-06-6	tert-Butylbenzene	6.8	U
95-63-6	1,2,4-Trimethylbenzene	6.8	U
135-98-8	sec-Butylbenzene	6.8	U
99-87-6	4-Isopropyltoluene	6.8	U
541-73-1	1,3-Dichlorobenzene	6.8	U
106-46-7	1,4-Dichlorobenzene	6.8	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	6.8	U
87-61-6	1,2,3-Trichlorobenzene	6.8	U
91-20-3	Naphthalene	6.8	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-09

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-09B

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1J8528.D

Level: (TRACE or LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 27 Date Analyzed: 08/22/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-10

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1368-10B

Sample wt/vol: 5.10 (g/mL) G

Lab File ID: V1J8529.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 19

Date Analyzed: 08/22/2008

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	6.1	U
74-88-4	Iodomethane	6.1	U
75-15-0	Carbon disulfide	6.1	U
75-09-2	Methylene chloride	6.1	U
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
108-05-4	Vinyl acetate	6.1	U
78-93-3	2-Butanone	6.1	U
156-59-2	cis-1,2-Dichloroethene	6.1	U
594-20-7	2,2-Dichloropropane	6.1	U
74-97-5	Bromochloromethane	6.1	U
67-66-3	Chloroform	6.1	U
71-55-6	1,1,1-Trichloroethane	6.1	U
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	6.1	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-10

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-10B

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1J8529.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 19 Date Analyzed: 08/22/2008

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
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
630-20-6	1,1,1,2-Tetrachloroethane	6.1	U
100-41-4	Ethylbenzene	6.1	U
1330-20-7	m,p-Xylene	1.7	BJ
95-47-6	o-Xylene	6.1	U
1330-20-7	Xylene (Total)	1.7	BJ
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
108-86-1	Bromobenzene	6.1	U
96-18-4	1,2,3-Trichloropropane	6.1	U
103-65-1	n-Propylbenzene	6.1	U
95-49-8	2-Chlorotoluene	6.1	U
108-67-8	1,3,5-Trimethylbenzene	6.1	U
106-43-4	4-Chlorotoluene	6.1	U
98-06-6	tert-Butylbenzene	6.1	U
95-63-6	1,2,4-Trimethylbenzene	6.1	U
135-98-8	sec-Butylbenzene	6.1	U
99-87-6	4-Isopropyltoluene	6.1	U
541-73-1	1,3-Dichlorobenzene	6.1	U
106-46-7	1,4-Dichlorobenzene	6.1	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	6.1	U
87-61-6	1,2,3-Trichlorobenzene	6.1	U
91-20-3	Naphthalene	6.1	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-10

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-10B

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1J8529.D

Level: (TRACE or LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 19 Date Analyzed: 08/22/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-11

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-11B

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1J8530.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 26 Date Analyzed: 08/22/2008

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
74-88-4	Iodomethane	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
108-05-4	Vinyl acetate	6.6	U
78-93-3	2-Butanone	6.6	U
156-59-2	cis-1,2-Dichloroethene	6.6	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	6.6	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-11

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-11B

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1J8530.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 26 Date Analyzed: 08/22/2008

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
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
630-20-6	1,1,1,2-Tetrachloroethane	6.6	U
100-41-4	Ethylbenzene	6.6	U
1330-20-7	m,p-Xylene	2.0	BJ
95-47-6	o-Xylene	6.6	U
1330-20-7	Xylene (Total)	2.0	BJ
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
108-86-1	Bromobenzene	6.6	U
96-18-4	1,2,3-Trichloropropane	6.6	U
103-65-1	n-Propylbenzene	6.6	U
95-49-8	2-Chlorotoluene	6.6	U
108-67-8	1,3,5-Trimethylbenzene	6.6	U
106-43-4	4-Chlorotoluene	6.6	U
98-06-6	tert-Butylbenzene	6.6	U
95-63-6	1,2,4-Trimethylbenzene	6.6	U
135-98-8	sec-Butylbenzene	6.6	U
99-87-6	4-Isopropyltoluene	6.6	U
541-73-1	1,3-Dichlorobenzene	6.6	U
106-46-7	1,4-Dichlorobenzene	6.6	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	6.6	U
87-61-6	1,2,3-Trichlorobenzene	6.6	U
91-20-3	Naphthalene	6.6	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-11

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-11B

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1J8530.D

Level: (TRACE or LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 26 Date Analyzed: 08/22/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-12

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1368-12B

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: V1J8531.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 13

Date Analyzed: 08/22/2008

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	5.7	U
74-87-3	Chloromethane	5.7	U
75-01-4	Vinyl chloride	5.7	U
74-83-9	Bromomethane	5.7	U
75-00-3	Chloroethane	5.7	U
75-69-4	Trichlorofluoromethane	5.7	U
75-35-4	1,1-Dichloroethene	5.7	U
67-64-1	Acetone	5.7	U
74-88-4	Iodomethane	5.7	U
75-15-0	Carbon disulfide	5.7	U
75-09-2	Methylene chloride	5.7	U
156-60-5	trans-1,2-Dichloroethene	5.7	U
1634-04-4	Methyl tert-butyl ether	5.7	U
75-34-3	1,1-Dichloroethane	5.7	U
108-05-4	Vinyl acetate	5.7	U
78-93-3	2-Butanone	5.7	U
156-59-2	cis-1,2-Dichloroethene	5.7	U
594-20-7	2,2-Dichloropropane	5.7	U
74-97-5	Bromochloromethane	5.7	U
67-66-3	Chloroform	5.7	U
71-55-6	1,1,1-Trichloroethane	5.7	U
563-58-6	1,1-Dichloropropene	5.7	U
56-23-5	Carbon tetrachloride	5.7	U
107-06-2	1,2-Dichloroethane	5.7	U
71-43-2	Benzene	5.7	U
79-01-6	Trichloroethene	5.7	U
78-87-5	1,2-Dichloropropane	5.7	U
74-95-3	Dibromomethane	5.7	U
75-27-4	Bromodichloromethane	5.7	U
10061-01-5	cis-1,3-Dichloropropene	5.7	U
108-10-1	4-Methyl-2-pentanone	5.7	U
108-88-3	Toluene	5.7	U
10061-02-6	trans-1,3-Dichloropropene	5.7	U
79-00-5	1,1,2-Trichloroethane	5.7	U
142-28-9	1,3-Dichloropropane	5.7	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-12

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1368-12B

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: V1J8531.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 13

Date Analyzed: 08/22/2008

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
127-18-4	Tetrachloroethene	5.7	U
591-78-6	2-Hexanone	5.7	U
124-48-1	Dibromochloromethane	5.7	U
106-93-4	1,2-Dibromoethane	5.7	U
108-90-7	Chlorobenzene	5.7	U
630-20-6	1,1,1,2-Tetrachloroethane	5.7	U
100-41-4	Ethylbenzene	5.7	U
1330-20-7	m,p-Xylene	1.5	BJ
95-47-6	o-Xylene	5.7	U
1330-20-7	Xylene (Total)	1.5	BJ
100-42-5	Styrene	5.7	U
75-25-2	Bromoform	5.7	U
98-82-8	Isopropylbenzene	5.7	U
79-34-5	1,1,2,2-Tetrachloroethane	5.7	U
108-86-1	Bromobenzene	5.7	U
96-18-4	1,2,3-Trichloropropane	5.7	U
103-65-1	n-Propylbenzene	5.7	U
95-49-8	2-Chlorotoluene	5.7	U
108-67-8	1,3,5-Trimethylbenzene	5.7	U
106-43-4	4-Chlorotoluene	5.7	U
98-06-6	tert-Butylbenzene	5.7	U
95-63-6	1,2,4-Trimethylbenzene	5.7	U
135-98-8	sec-Butylbenzene	5.7	U
99-87-6	4-Isopropyltoluene	5.7	U
541-73-1	1,3-Dichlorobenzene	5.7	U
106-46-7	1,4-Dichlorobenzene	5.7	U
104-51-8	n-Butylbenzene	5.7	U
95-50-1	1,2-Dichlorobenzene	5.7	U
96-12-8	1,2-Dibromo-3-chloropropane	5.7	U
120-82-1	1,2,4-Trichlorobenzene	5.7	U
87-68-3	Hexachlorobutadiene	5.7	U
87-61-6	1,2,3-Trichlorobenzene	5.7	U
91-20-3	Naphthalene	5.7	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-12

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-12B

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1J8531.D

Level: (TRACE or LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 13 Date Analyzed: 08/22/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-13

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-13B

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1J8547.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 21 Date Analyzed: 08/23/2008

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
74-88-4	Iodomethane	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
108-05-4	Vinyl acetate	6.2	U
78-93-3	2-Butanone	6.2	U
156-59-2	cis-1,2-Dichloroethene	6.2	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	6.2	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-13

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-13B

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1J8547.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 21 Date Analyzed: 08/23/2008

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
127-18-4	Tetrachloroethene	6.2	U
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
630-20-6	1,1,1,2-Tetrachloroethane	6.2	U
100-41-4	Ethylbenzene	6.2	U
1330-20-7	m,p-Xylene	1.4	BJ
95-47-6	o-Xylene	6.2	U
1330-20-7	Xylene (Total)	1.4	BJ
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
108-86-1	Bromobenzene	6.2	U
96-18-4	1,2,3-Trichloropropane	6.2	U
103-65-1	n-Propylbenzene	6.2	U
95-49-8	2-Chlorotoluene	6.2	U
108-67-8	1,3,5-Trimethylbenzene	6.2	U
106-43-4	4-Chlorotoluene	6.2	U
98-06-6	tert-Butylbenzene	6.2	U
95-63-6	1,2,4-Trimethylbenzene	6.2	U
135-98-8	sec-Butylbenzene	6.2	U
99-87-6	4-Isopropyltoluene	6.2	U
541-73-1	1,3-Dichlorobenzene	6.2	U
106-46-7	1,4-Dichlorobenzene	6.2	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	6.2	U
87-61-6	1,2,3-Trichlorobenzene	6.2	U
91-20-3	Naphthalene	6.2	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-13

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-13B

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1J8547.D

Level: (TRACE or LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 21 Date Analyzed: 08/23/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-14

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-14B

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1J8548.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 15 Date Analyzed: 08/23/2008

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	5.9	U
74-87-3	Chloromethane	5.9	U
75-01-4	Vinyl chloride	5.9	U
74-83-9	Bromomethane	5.9	U
75-00-3	Chloroethane	5.9	U
75-69-4	Trichlorofluoromethane	5.9	U
75-35-4	1,1-Dichloroethene	5.9	U
67-64-1	Acetone	5.9	U
74-88-4	Iodomethane	5.9	U
75-15-0	Carbon disulfide	5.9	U
75-09-2	Methylene chloride	5.9	U
156-60-5	trans-1,2-Dichloroethene	5.9	U
1634-04-4	Methyl tert-butyl ether	5.9	U
75-34-3	1,1-Dichloroethane	5.9	U
108-05-4	Vinyl acetate	5.9	U
78-93-3	2-Butanone	5.9	U
156-59-2	cis-1,2-Dichloroethene	5.9	U
594-20-7	2,2-Dichloropropane	5.9	U
74-97-5	Bromochloromethane	5.9	U
67-66-3	Chloroform	5.9	U
71-55-6	1,1,1-Trichloroethane	5.9	U
563-58-6	1,1-Dichloropropene	5.9	U
56-23-5	Carbon tetrachloride	5.9	U
107-06-2	1,2-Dichloroethane	5.9	U
71-43-2	Benzene	5.9	U
79-01-6	Trichloroethene	5.9	U
78-87-5	1,2-Dichloropropane	5.9	U
74-95-3	Dibromomethane	5.9	U
75-27-4	Bromodichloromethane	5.9	U
10061-01-5	cis-1,3-Dichloropropene	5.9	U
108-10-1	4-Methyl-2-pentanone	5.9	U
108-88-3	Toluene	5.9	U
10061-02-6	trans-1,3-Dichloropropene	5.9	U
79-00-5	1,1,2-Trichloroethane	5.9	U
142-28-9	1,3-Dichloropropane	5.9	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-14

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-14B

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1J8548.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 15 Date Analyzed: 08/23/2008

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
127-18-4	Tetrachloroethene	5.9	U
591-78-6	2-Hexanone	5.9	U
124-48-1	Dibromochloromethane	5.9	U
106-93-4	1,2-Dibromoethane	5.9	U
108-90-7	Chlorobenzene	5.9	U
630-20-6	1,1,1,2-Tetrachloroethane	5.9	U
100-41-4	Ethylbenzene	5.9	U
1330-20-7	m,p-Xylene	1.2	BJ
95-47-6	o-Xylene	5.9	U
1330-20-7	Xylene (Total)	1.2	BJ
100-42-5	Styrene	5.9	U
75-25-2	Bromoform	5.9	U
98-82-8	Isopropylbenzene	5.9	U
79-34-5	1,1,2,2-Tetrachloroethane	5.9	U
108-86-1	Bromobenzene	5.9	U
96-18-4	1,2,3-Trichloropropane	5.9	U
103-65-1	n-Propylbenzene	5.9	U
95-49-8	2-Chlorotoluene	5.9	U
108-67-8	1,3,5-Trimethylbenzene	5.9	U
106-43-4	4-Chlorotoluene	5.9	U
98-06-6	tert-Butylbenzene	5.9	U
95-63-6	1,2,4-Trimethylbenzene	5.9	U
135-98-8	sec-Butylbenzene	5.9	U
99-87-6	4-Isopropyltoluene	5.9	U
541-73-1	1,3-Dichlorobenzene	5.9	U
106-46-7	1,4-Dichlorobenzene	5.9	U
104-51-8	n-Butylbenzene	5.9	U
95-50-1	1,2-Dichlorobenzene	5.9	U
96-12-8	1,2-Dibromo-3-chloropropane	5.9	U
120-82-1	1,2,4-Trichlorobenzene	5.9	U
87-68-3	Hexachlorobutadiene	5.9	U
87-61-6	1,2,3-Trichlorobenzene	5.9	U
91-20-3	Naphthalene	5.9	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-14

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1368
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1368-14B
Sample wt/vol: 5.00 (g/mL) G
Lab File ID: V1J8548.D
Level: (TRACE or LOW/MED) LOW
Date Received: 08/21/2008
% Moisture: not dec. 15
Date Analyzed: 08/23/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-15

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-15B

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1J8549.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 15 Date Analyzed: 08/23/2008

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	5.8	U
74-87-3	Chloromethane	5.8	U
75-01-4	Vinyl chloride	5.8	U
74-83-9	Bromomethane	5.8	U
75-00-3	Chloroethane	5.8	U
75-69-4	Trichlorofluoromethane	5.8	U
75-35-4	1,1-Dichloroethene	5.8	U
67-64-1	Acetone	5.8	U
74-88-4	Iodomethane	5.8	U
75-15-0	Carbon disulfide	5.8	U
75-09-2	Methylene chloride	5.8	U
156-60-5	trans-1,2-Dichloroethene	5.8	U
1634-04-4	Methyl tert-butyl ether	5.8	U
75-34-3	1,1-Dichloroethane	5.8	U
108-05-4	Vinyl acetate	5.8	U
78-93-3	2-Butanone	5.8	U
156-59-2	cis-1,2-Dichloroethene	5.8	U
594-20-7	2,2-Dichloropropane	5.8	U
74-97-5	Bromochloromethane	5.8	U
67-66-3	Chloroform	5.8	U
71-55-6	1,1,1-Trichloroethane	5.8	U
563-58-6	1,1-Dichloropropene	5.8	U
56-23-5	Carbon tetrachloride	5.8	U
107-06-2	1,2-Dichloroethane	5.8	U
71-43-2	Benzene	5.8	U
79-01-6	Trichloroethene	5.8	U
78-87-5	1,2-Dichloropropane	5.8	U
74-95-3	Dibromomethane	5.8	U
75-27-4	Bromodichloromethane	5.8	U
10061-01-5	cis-1,3-Dichloropropene	5.8	U
108-10-1	4-Methyl-2-pentanone	5.8	U
108-88-3	Toluene	5.8	U
10061-02-6	trans-1,3-Dichloropropene	5.8	U
79-00-5	1,1,2-Trichloroethane	5.8	U
142-28-9	1,3-Dichloropropane	5.8	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-15

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1368-15B

Sample wt/vol: 5.10 (g/mL) G

Lab File ID: V1J8549.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 15

Date Analyzed: 08/23/2008

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
127-18-4	Tetrachloroethene	5.8	U
591-78-6	2-Hexanone	5.8	U
124-48-1	Dibromochloromethane	5.8	U
106-93-4	1,2-Dibromoethane	5.8	U
108-90-7	Chlorobenzene	5.8	U
630-20-6	1,1,1,2-Tetrachloroethane	5.8	U
100-41-4	Ethylbenzene	5.8	U
1330-20-7	m,p-Xylene	5.8	U
95-47-6	o-Xylene	5.8	U
1330-20-7	Xylene (Total)	5.8	U
100-42-5	Styrene	5.8	U
75-25-2	Bromoform	5.8	U
98-82-8	Isopropylbenzene	5.8	U
79-34-5	1,1,2,2-Tetrachloroethane	5.8	U
108-86-1	Bromobenzene	5.8	U
96-18-4	1,2,3-Trichloropropane	5.8	U
103-65-1	n-Propylbenzene	5.8	U
95-49-8	2-Chlorotoluene	5.8	U
108-67-8	1,3,5-Trimethylbenzene	5.8	U
106-43-4	4-Chlorotoluene	5.8	U
98-06-6	tert-Butylbenzene	5.8	U
95-63-6	1,2,4-Trimethylbenzene	5.8	U
135-98-8	sec-Butylbenzene	5.8	U
99-87-6	4-Isopropyltoluene	5.8	U
541-73-1	1,3-Dichlorobenzene	5.8	U
106-46-7	1,4-Dichlorobenzene	5.8	U
104-51-8	n-Butylbenzene	5.8	U
95-50-1	1,2-Dichlorobenzene	5.8	U
96-12-8	1,2-Dibromo-3-chloropropane	5.8	U
120-82-1	1,2,4-Trichlorobenzene	5.8	U
87-68-3	Hexachlorobutadiene	5.8	U
87-61-6	1,2,3-Trichlorobenzene	5.8	U
91-20-3	Naphthalene	5.8	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-15

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-15B

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1J8549.D

Level: (TRACE or LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 15 Date Analyzed: 08/23/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-16

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1368-16B

Sample wt/vol: 5.10 (g/mL) G

Lab File ID: V1J8550.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 13

Date Analyzed: 08/23/2008

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
74-88-4	Iodomethane	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
108-05-4	Vinyl acetate	5.6	U
78-93-3	2-Butanone	5.6	U
156-59-2	cis-1,2-Dichloroethene	5.6	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	5.6	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-16

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-16B

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1J8550.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 13 Date Analyzed: 08/23/2008

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
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
630-20-6	1,1,1,2-Tetrachloroethane	5.6	U
100-41-4	Ethylbenzene	5.6	U
1330-20-7	m,p-Xylene	5.6	U
95-47-6	o-Xylene	5.6	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	5.6	U
96-18-4	1,2,3-Trichloropropane	5.6	U
103-65-1	n-Propylbenzene	5.6	U
95-49-8	2-Chlorotoluene	5.6	U
108-67-8	1,3,5-Trimethylbenzene	5.6	U
106-43-4	4-Chlorotoluene	5.6	U
98-06-6	tert-Butylbenzene	5.6	U
95-63-6	1,2,4-Trimethylbenzene	5.6	U
135-98-8	sec-Butylbenzene	5.6	U
99-87-6	4-Isopropyltoluene	5.6	U
541-73-1	1,3-Dichlorobenzene	5.6	U
106-46-7	1,4-Dichlorobenzene	5.6	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	5.6	U
87-61-6	1,2,3-Trichlorobenzene	5.6	U
91-20-3	Naphthalene	5.6	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-16

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-16B

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1J8550.D

Level: (TRACE or LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 13 Date Analyzed: 08/23/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-17

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-17B

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1J8551.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 19 Date Analyzed: 08/23/2008

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
74-88-4	Iodomethane	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
108-05-4	Vinyl acetate	6.2	U
78-93-3	2-Butanone	6.2	U
156-59-2	cis-1,2-Dichloroethene	6.2	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	6.2	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-17

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1368-17B

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: V1J8551.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 19

Date Analyzed: 08/23/2008

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
127-18-4	Tetrachloroethene	6.2	U
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
630-20-6	1,1,1,2-Tetrachloroethane	6.2	U
100-41-4	Ethylbenzene	6.2	U
1330-20-7	m,p-Xylene	6.2	U
95-47-6	o-Xylene	6.2	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	6.2	U
96-18-4	1,2,3-Trichloropropane	6.2	U
103-65-1	n-Propylbenzene	6.2	U
95-49-8	2-Chlorotoluene	6.2	U
108-67-8	1,3,5-Trimethylbenzene	6.2	U
106-43-4	4-Chlorotoluene	6.2	U
98-06-6	tert-Butylbenzene	6.2	U
95-63-6	1,2,4-Trimethylbenzene	6.2	U
135-98-8	sec-Butylbenzene	6.2	U
99-87-6	4-Isopropyltoluene	6.2	U
541-73-1	1,3-Dichlorobenzene	6.2	U
106-46-7	1,4-Dichlorobenzene	6.2	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	6.2	U
87-61-6	1,2,3-Trichlorobenzene	6.2	U
91-20-3	Naphthalene	6.2	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-17

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1368
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1368-17B
Sample wt/vol: 5.00 (g/mL) G
Lab File ID: V1J8551.D
Level: (TRACE or LOW/MED) LOW
Date Received: 08/21/2008
% Moisture: not dec. 19
Date Analyzed: 08/23/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-18

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-18B

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1J8552.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 22 Date Analyzed: 08/23/2008

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
74-88-4	Iodomethane	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
108-05-4	Vinyl acetate	6.4	U
78-93-3	2-Butanone	6.4	U
156-59-2	cis-1,2-Dichloroethene	6.4	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	6.4	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-18

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1368-18B

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: V1J8552.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 22

Date Analyzed: 08/23/2008

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
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
630-20-6	1,1,1,2-Tetrachloroethane	6.4	U
100-41-4	Ethylbenzene	6.4	U
1330-20-7	m,p-Xylene	6.4	U
95-47-6	o-Xylene	6.4	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	6.4	U
96-18-4	1,2,3-Trichloropropane	6.4	U
103-65-1	n-Propylbenzene	6.4	U
95-49-8	2-Chlorotoluene	6.4	U
108-67-8	1,3,5-Trimethylbenzene	6.4	U
106-43-4	4-Chlorotoluene	6.4	U
98-06-6	tert-Butylbenzene	6.4	U
95-63-6	1,2,4-Trimethylbenzene	1.9	J
135-98-8	sec-Butylbenzene	6.4	U
99-87-6	4-Isopropyltoluene	6.4	U
541-73-1	1,3-Dichlorobenzene	6.4	U
106-46-7	1,4-Dichlorobenzene	6.4	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	6.4	U
87-61-6	1,2,3-Trichlorobenzene	6.4	U
91-20-3	Naphthalene	6.4	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-18

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-18B

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1J8552.D

Level: (TRACE or LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 22 Date Analyzed: 08/23/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	7785-70-8	1R-.alpha.-Pinene	10.796	8.7	NJ
02	79-92-5	Camphene	11.131	9.9	NJ
03	18172-67-3	Bicyclo[3.1.1]heptane, 6,6-d	11.614	7.2	NJ
04	5989-27-5	D-Limonene	12.333	18	NJ
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-19

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1368-19B

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: V1J8553.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 13

Date Analyzed: 08/23/2008

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	5.7	U
74-87-3	Chloromethane	5.7	U
75-01-4	Vinyl chloride	5.7	U
74-83-9	Bromomethane	5.7	U
75-00-3	Chloroethane	5.7	U
75-69-4	Trichlorofluoromethane	5.7	U
75-35-4	1,1-Dichloroethene	5.7	U
67-64-1	Acetone	5.7	U
74-88-4	Iodomethane	5.7	U
75-15-0	Carbon disulfide	5.7	U
75-09-2	Methylene chloride	5.7	U
156-60-5	trans-1,2-Dichloroethene	5.7	U
1634-04-4	Methyl tert-butyl ether	5.7	U
75-34-3	1,1-Dichloroethane	5.7	U
108-05-4	Vinyl acetate	5.7	U
78-93-3	2-Butanone	5.7	U
156-59-2	cis-1,2-Dichloroethene	5.7	U
594-20-7	2,2-Dichloropropane	5.7	U
74-97-5	Bromochloromethane	5.7	U
67-66-3	Chloroform	5.7	U
71-55-6	1,1,1-Trichloroethane	5.7	U
563-58-6	1,1-Dichloropropene	5.7	U
56-23-5	Carbon tetrachloride	5.7	U
107-06-2	1,2-Dichloroethane	5.7	U
71-43-2	Benzene	5.7	U
79-01-6	Trichloroethene	5.7	U
78-87-5	1,2-Dichloropropane	5.7	U
74-95-3	Dibromomethane	5.7	U
75-27-4	Bromodichloromethane	5.7	U
10061-01-5	cis-1,3-Dichloropropene	5.7	U
108-10-1	4-Methyl-2-pentanone	5.7	U
108-88-3	Toluene	5.7	U
10061-02-6	trans-1,3-Dichloropropene	5.7	U
79-00-5	1,1,2-Trichloroethane	5.7	U
142-28-9	1,3-Dichloropropane	5.7	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-19

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-19B

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1J8553.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 13 Date Analyzed: 08/23/2008

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
127-18-4	Tetrachloroethene	5.7	U
591-78-6	2-Hexanone	5.7	U
124-48-1	Dibromochloromethane	5.7	U
106-93-4	1,2-Dibromoethane	5.7	U
108-90-7	Chlorobenzene	5.7	U
630-20-6	1,1,1,2-Tetrachloroethane	5.7	U
100-41-4	Ethylbenzene	5.7	U
1330-20-7	m,p-Xylene	5.7	U
95-47-6	o-Xylene	5.7	U
1330-20-7	Xylene (Total)	5.7	U
100-42-5	Styrene	5.7	U
75-25-2	Bromoform	5.7	U
98-82-8	Isopropylbenzene	5.7	U
79-34-5	1,1,2,2-Tetrachloroethane	5.7	U
108-86-1	Bromobenzene	5.7	U
96-18-4	1,2,3-Trichloropropane	5.7	U
103-65-1	n-Propylbenzene	5.7	U
95-49-8	2-Chlorotoluene	5.7	U
108-67-8	1,3,5-Trimethylbenzene	5.7	U
106-43-4	4-Chlorotoluene	5.7	U
98-06-6	tert-Butylbenzene	5.7	U
95-63-6	1,2,4-Trimethylbenzene	5.7	U
135-98-8	sec-Butylbenzene	5.7	U
99-87-6	4-Isopropyltoluene	5.7	U
541-73-1	1,3-Dichlorobenzene	5.7	U
106-46-7	1,4-Dichlorobenzene	5.7	U
104-51-8	n-Butylbenzene	5.7	U
95-50-1	1,2-Dichlorobenzene	5.7	U
96-12-8	1,2-Dibromo-3-chloropropane	5.7	U
120-82-1	1,2,4-Trichlorobenzene	5.7	U
87-68-3	Hexachlorobutadiene	5.7	U
87-61-6	1,2,3-Trichlorobenzene	5.7	U
91-20-3	Naphthalene	5.7	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-19

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1368
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1368-19B
Sample wt/vol: 5.00 (g/mL) G
Lab File ID: V1J8553.D
Level: (TRACE or LOW/MED) LOW
Date Received: 08/21/2008
% Moisture: not dec. 13
Date Analyzed: 08/23/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-20

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1368-20B

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: V1J8554.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 17

Date Analyzed: 08/23/2008

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	6.0	U
74-88-4	Iodomethane	6.0	U
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
108-05-4	Vinyl acetate	6.0	U
78-93-3	2-Butanone	6.0	U
156-59-2	cis-1,2-Dichloroethene	6.0	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	6.0	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-20

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1368-20B

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: V1J8554.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 17

Date Analyzed: 08/23/2008

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
127-18-4	Tetrachloroethene	6.0	U
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
630-20-6	1,1,1,2-Tetrachloroethane	6.0	U
100-41-4	Ethylbenzene	6.0	U
1330-20-7	m,p-Xylene	6.0	U
95-47-6	o-Xylene	6.0	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	6.0	U
96-18-4	1,2,3-Trichloropropane	6.0	U
103-65-1	n-Propylbenzene	6.0	U
95-49-8	2-Chlorotoluene	6.0	U
108-67-8	1,3,5-Trimethylbenzene	6.0	U
106-43-4	4-Chlorotoluene	6.0	U
98-06-6	tert-Butylbenzene	6.0	U
95-63-6	1,2,4-Trimethylbenzene	6.0	U
135-98-8	sec-Butylbenzene	6.0	U
99-87-6	4-Isopropyltoluene	6.0	U
541-73-1	1,3-Dichlorobenzene	6.0	U
106-46-7	1,4-Dichlorobenzene	6.0	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	6.0	U
87-61-6	1,2,3-Trichlorobenzene	6.0	U
91-20-3	Naphthalene	6.0	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-20

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-20B

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1J8554.D

Level: (TRACE or LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 17 Date Analyzed: 08/23/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-21

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-01B

Sample wt/vol: 5.10 (g/mL) G

Lab File ID: V1J8555.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 15

Date Analyzed: 08/23/2008

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	5.8	U
74-87-3	Chloromethane	5.8	U
75-01-4	Vinyl chloride	5.8	U
74-83-9	Bromomethane	5.8	U
75-00-3	Chloroethane	5.8	U
75-69-4	Trichlorofluoromethane	5.8	U
75-35-4	1,1-Dichloroethene	5.8	U
67-64-1	Acetone	5.8	U
74-88-4	Iodomethane	5.8	U
75-15-0	Carbon disulfide	5.8	U
75-09-2	Methylene chloride	5.8	U
156-60-5	trans-1,2-Dichloroethene	5.8	U
1634-04-4	Methyl tert-butyl ether	5.8	U
75-34-3	1,1-Dichloroethane	5.8	U
108-05-4	Vinyl acetate	5.8	U
78-93-3	2-Butanone	5.8	U
156-59-2	cis-1,2-Dichloroethene	5.8	U
594-20-7	2,2-Dichloropropane	5.8	U
74-97-5	Bromochloromethane	5.8	U
67-66-3	Chloroform	5.8	U
71-55-6	1,1,1-Trichloroethane	5.8	U
563-58-6	1,1-Dichloropropene	5.8	U
56-23-5	Carbon tetrachloride	5.8	U
107-06-2	1,2-Dichloroethane	5.8	U
71-43-2	Benzene	5.8	U
79-01-6	Trichloroethene	5.8	U
78-87-5	1,2-Dichloropropane	5.8	U
74-95-3	Dibromomethane	5.8	U
75-27-4	Bromodichloromethane	5.8	U
10061-01-5	cis-1,3-Dichloropropene	5.8	U
108-10-1	4-Methyl-2-pentanone	5.8	U
108-88-3	Toluene	5.8	U
10061-02-6	trans-1,3-Dichloropropene	5.8	U
79-00-5	1,1,2-Trichloroethane	5.8	U
142-28-9	1,3-Dichloropropane	5.8	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-21

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-01B

Sample wt/vol: 5.10 (g/mL) G

Lab File ID: V1J8555.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 15

Date Analyzed: 08/23/2008

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
127-18-4	Tetrachloroethene	5.8	U
591-78-6	2-Hexanone	5.8	U
124-48-1	Dibromochloromethane	5.8	U
106-93-4	1,2-Dibromoethane	5.8	U
108-90-7	Chlorobenzene	5.8	U
630-20-6	1,1,1,2-Tetrachloroethane	5.8	U
100-41-4	Ethylbenzene	5.8	U
1330-20-7	m,p-Xylene	5.8	U
95-47-6	o-Xylene	5.8	U
1330-20-7	Xylene (Total)	5.8	U
100-42-5	Styrene	5.8	U
75-25-2	Bromoform	5.8	U
98-82-8	Isopropylbenzene	5.8	U
79-34-5	1,1,2,2-Tetrachloroethane	5.8	U
108-86-1	Bromobenzene	5.8	U
96-18-4	1,2,3-Trichloropropane	5.8	U
103-65-1	n-Propylbenzene	5.8	U
95-49-8	2-Chlorotoluene	5.8	U
108-67-8	1,3,5-Trimethylbenzene	5.8	U
106-43-4	4-Chlorotoluene	5.8	U
98-06-6	tert-Butylbenzene	5.8	U
95-63-6	1,2,4-Trimethylbenzene	5.8	U
135-98-8	sec-Butylbenzene	5.8	U
99-87-6	4-Isopropyltoluene	5.8	U
541-73-1	1,3-Dichlorobenzene	5.8	U
106-46-7	1,4-Dichlorobenzene	5.8	U
104-51-8	n-Butylbenzene	5.8	U
95-50-1	1,2-Dichlorobenzene	5.8	U
96-12-8	1,2-Dibromo-3-chloropropane	5.8	U
120-82-1	1,2,4-Trichlorobenzene	5.8	U
87-68-3	Hexachlorobutadiene	5.8	U
87-61-6	1,2,3-Trichlorobenzene	5.8	U
91-20-3	Naphthalene	5.8	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-21

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1369
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1369-01B
Sample wt/vol: 5.10 (g/mL) G
Lab File ID: V1J8555.D
Level: (TRACE or LOW/MED) LOW
Date Received: 08/21/2008
% Moisture: not dec. 15
Date Analyzed: 08/23/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-22

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-02B

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: V1J8556.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 15

Date Analyzed: 08/23/2008

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	5.9	U
74-87-3	Chloromethane	5.9	U
75-01-4	Vinyl chloride	5.9	U
74-83-9	Bromomethane	5.9	U
75-00-3	Chloroethane	5.9	U
75-69-4	Trichlorofluoromethane	5.9	U
75-35-4	1,1-Dichloroethene	5.9	U
67-64-1	Acetone	5.9	U
74-88-4	Iodomethane	5.9	U
75-15-0	Carbon disulfide	5.9	U
75-09-2	Methylene chloride	5.9	U
156-60-5	trans-1,2-Dichloroethene	5.9	U
1634-04-4	Methyl tert-butyl ether	5.9	U
75-34-3	1,1-Dichloroethane	5.9	U
108-05-4	Vinyl acetate	5.9	U
78-93-3	2-Butanone	5.9	U
156-59-2	cis-1,2-Dichloroethene	5.9	U
594-20-7	2,2-Dichloropropane	5.9	U
74-97-5	Bromochloromethane	5.9	U
67-66-3	Chloroform	5.9	U
71-55-6	1,1,1-Trichloroethane	5.9	U
563-58-6	1,1-Dichloropropene	5.9	U
56-23-5	Carbon tetrachloride	5.9	U
107-06-2	1,2-Dichloroethane	5.9	U
71-43-2	Benzene	5.9	U
79-01-6	Trichloroethene	5.9	U
78-87-5	1,2-Dichloropropane	5.9	U
74-95-3	Dibromomethane	5.9	U
75-27-4	Bromodichloromethane	5.9	U
10061-01-5	cis-1,3-Dichloropropene	5.9	U
108-10-1	4-Methyl-2-pentanone	5.9	U
108-88-3	Toluene	2.2	J
10061-02-6	trans-1,3-Dichloropropene	5.9	U
79-00-5	1,1,2-Trichloroethane	5.9	U
142-28-9	1,3-Dichloropropane	5.9	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-22

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-02B

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: V1J8556.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 15

Date Analyzed: 08/23/2008

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
127-18-4	Tetrachloroethene	5.9	U
591-78-6	2-Hexanone	5.9	U
124-48-1	Dibromochloromethane	5.9	U
106-93-4	1,2-Dibromoethane	5.9	U
108-90-7	Chlorobenzene	5.9	U
630-20-6	1,1,1,2-Tetrachloroethane	5.9	U
100-41-4	Ethylbenzene	5.9	U
1330-20-7	m,p-Xylene	5.9	U
95-47-6	o-Xylene	5.9	U
1330-20-7	Xylene (Total)	5.9	U
100-42-5	Styrene	5.9	U
75-25-2	Bromoform	5.9	U
98-82-8	Isopropylbenzene	5.9	U
79-34-5	1,1,2,2-Tetrachloroethane	5.9	U
108-86-1	Bromobenzene	5.9	U
96-18-4	1,2,3-Trichloropropane	5.9	U
103-65-1	n-Propylbenzene	5.9	U
95-49-8	2-Chlorotoluene	5.9	U
108-67-8	1,3,5-Trimethylbenzene	5.9	U
106-43-4	4-Chlorotoluene	5.9	U
98-06-6	tert-Butylbenzene	5.9	U
95-63-6	1,2,4-Trimethylbenzene	5.9	U
135-98-8	sec-Butylbenzene	5.9	U
99-87-6	4-Isopropyltoluene	5.9	U
541-73-1	1,3-Dichlorobenzene	5.9	U
106-46-7	1,4-Dichlorobenzene	5.9	U
104-51-8	n-Butylbenzene	5.9	U
95-50-1	1,2-Dichlorobenzene	5.9	U
96-12-8	1,2-Dibromo-3-chloropropane	5.9	U
120-82-1	1,2,4-Trichlorobenzene	5.9	U
87-68-3	Hexachlorobutadiene	5.9	U
87-61-6	1,2,3-Trichlorobenzene	5.9	U
91-20-3	Naphthalene	5.9	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-22

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM Case No.:
Mod. Ref No.: SDG No.: MG1369
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1369-02B
Sample wt/vol: 5.00 (g/mL) G
Lab File ID: V1J8556.D
Level: (TRACE or LOW/MED) LOW
Date Received: 08/21/2008
% Moisture: not dec. 15
Date Analyzed: 08/23/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-23

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-04B

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: V1J8558.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 14

Date Analyzed: 08/23/2008

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	5.8	U
74-87-3	Chloromethane	5.8	U
75-01-4	Vinyl chloride	5.8	U
74-83-9	Bromomethane	5.8	U
75-00-3	Chloroethane	5.8	U
75-69-4	Trichlorofluoromethane	5.8	U
75-35-4	1,1-Dichloroethene	5.8	U
67-64-1	Acetone	5.8	U
74-88-4	Iodomethane	5.8	U
75-15-0	Carbon disulfide	5.8	U
75-09-2	Methylene chloride	5.8	U
156-60-5	trans-1,2-Dichloroethene	5.8	U
1634-04-4	Methyl tert-butyl ether	5.8	U
75-34-3	1,1-Dichloroethane	5.8	U
108-05-4	Vinyl acetate	5.8	U
78-93-3	2-Butanone	5.8	U
156-59-2	cis-1,2-Dichloroethene	5.8	U
594-20-7	2,2-Dichloropropane	5.8	U
74-97-5	Bromochloromethane	5.8	U
67-66-3	Chloroform	5.8	U
71-55-6	1,1,1-Trichloroethane	5.8	U
563-58-6	1,1-Dichloropropene	5.8	U
56-23-5	Carbon tetrachloride	5.8	U
107-06-2	1,2-Dichloroethane	5.8	U
71-43-2	Benzene	5.8	U
79-01-6	Trichloroethene	5.8	U
78-87-5	1,2-Dichloropropane	5.8	U
74-95-3	Dibromomethane	5.8	U
75-27-4	Bromodichloromethane	5.8	U
10061-01-5	cis-1,3-Dichloropropene	5.8	U
108-10-1	4-Methyl-2-pentanone	5.8	U
108-88-3	Toluene	5.8	U
10061-02-6	trans-1,3-Dichloropropene	5.8	U
79-00-5	1,1,2-Trichloroethane	5.8	U
142-28-9	1,3-Dichloropropane	5.8	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-23

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-04B

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: V1J8558.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 14

Date Analyzed: 08/23/2008

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
127-18-4	Tetrachloroethene	5.8	U
591-78-6	2-Hexanone	5.8	U
124-48-1	Dibromochloromethane	5.8	U
106-93-4	1,2-Dibromoethane	5.8	U
108-90-7	Chlorobenzene	5.8	U
630-20-6	1,1,1,2-Tetrachloroethane	5.8	U
100-41-4	Ethylbenzene	5.8	U
1330-20-7	m,p-Xylene	5.8	U
95-47-6	o-Xylene	5.8	U
1330-20-7	Xylene (Total)	5.8	U
100-42-5	Styrene	5.8	U
75-25-2	Bromoform	5.8	U
98-82-8	Isopropylbenzene	5.8	U
79-34-5	1,1,2,2-Tetrachloroethane	5.8	U
108-86-1	Bromobenzene	5.8	U
96-18-4	1,2,3-Trichloropropane	5.8	U
103-65-1	n-Propylbenzene	5.8	U
95-49-8	2-Chlorotoluene	5.8	U
108-67-8	1,3,5-Trimethylbenzene	5.8	U
106-43-4	4-Chlorotoluene	5.8	U
98-06-6	tert-Butylbenzene	5.8	U
95-63-6	1,2,4-Trimethylbenzene	5.8	U
135-98-8	sec-Butylbenzene	5.8	U
99-87-6	4-Isopropyltoluene	5.8	U
541-73-1	1,3-Dichlorobenzene	5.8	U
106-46-7	1,4-Dichlorobenzene	5.8	U
104-51-8	n-Butylbenzene	5.8	U
95-50-1	1,2-Dichlorobenzene	5.8	U
96-12-8	1,2-Dibromo-3-chloropropane	5.8	U
120-82-1	1,2,4-Trichlorobenzene	5.8	U
87-68-3	Hexachlorobutadiene	5.8	U
87-61-6	1,2,3-Trichlorobenzene	5.8	U
91-20-3	Naphthalene	5.8	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-23

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1369
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1369-04B
Sample wt/vol: 5.00 (g/mL) G
Lab File ID: V1J8558.D
Level: (TRACE or LOW/MED) LOW
Date Received: 08/21/2008
% Moisture: not dec. 14
Date Analyzed: 08/23/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-24

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-05B

Sample wt/vol: 5.20 (g/mL) G

Lab File ID: V6G0286.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 11

Date Analyzed: 08/28/2008

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	5.4	U
74-87-3	Chloromethane	5.4	U
75-01-4	Vinyl chloride	5.4	U
74-83-9	Bromomethane	5.4	U
75-00-3	Chloroethane	5.4	U
75-69-4	Trichlorofluoromethane	5.4	U
75-35-4	1,1-Dichloroethene	5.4	U
67-64-1	Acetone	5.4	U
74-88-4	Iodomethane	5.4	U
75-15-0	Carbon disulfide	5.4	U
75-09-2	Methylene chloride	5.4	U
156-60-5	trans-1,2-Dichloroethene	5.4	U
1634-04-4	Methyl tert-butyl ether	5.4	U
75-34-3	1,1-Dichloroethane	5.4	U
108-05-4	Vinyl acetate	5.4	U
78-93-3	2-Butanone	5.4	U
156-59-2	cis-1,2-Dichloroethene	5.4	U
594-20-7	2,2-Dichloropropane	5.4	U
74-97-5	Bromochloromethane	5.4	U
67-66-3	Chloroform	5.4	U
71-55-6	1,1,1-Trichloroethane	5.4	U
563-58-6	1,1-Dichloropropene	5.4	U
56-23-5	Carbon tetrachloride	5.4	U
107-06-2	1,2-Dichloroethane	5.4	U
71-43-2	Benzene	5.4	U
79-01-6	Trichloroethene	5.4	U
78-87-5	1,2-Dichloropropane	5.4	U
74-95-3	Dibromomethane	5.4	U
75-27-4	Bromodichloromethane	5.4	U
10061-01-5	cis-1,3-Dichloropropene	5.4	U
108-10-1	4-Methyl-2-pentanone	5.4	U
108-88-3	Toluene	5.4	U
10061-02-6	trans-1,3-Dichloropropene	5.4	U
79-00-5	1,1,2-Trichloroethane	5.4	U
142-28-9	1,3-Dichloropropane	5.4	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-24

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM Case No.:

Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-05B

Sample wt/vol: 5.20 (g/mL) G

Lab File ID: V6G0286.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 11

Date Analyzed: 08/28/2008

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
127-18-4	Tetrachloroethene	5.4	U
591-78-6	2-Hexanone	5.4	U
124-48-1	Dibromochloromethane	5.4	U
106-93-4	1,2-Dibromoethane	5.4	U
108-90-7	Chlorobenzene	5.4	U
630-20-6	1,1,1,2-Tetrachloroethane	5.4	U
100-41-4	Ethylbenzene	5.4	U
1330-20-7	m,p-Xylene	5.4	U
95-47-6	o-Xylene	5.4	U
1330-20-7	Xylene (Total)	5.4	U
100-42-5	Styrene	5.4	U
75-25-2	Bromoform	5.4	U
98-82-8	Isopropylbenzene	5.4	U
79-34-5	1,1,2,2-Tetrachloroethane	5.4	U
108-86-1	Bromobenzene	5.4	U
96-18-4	1,2,3-Trichloropropane	5.4	U
103-65-1	n-Propylbenzene	5.4	U
95-49-8	2-Chlorotoluene	5.4	U
108-67-8	1,3,5-Trimethylbenzene	5.4	U
106-43-4	4-Chlorotoluene	5.4	U
98-06-6	tert-Butylbenzene	5.4	U
95-63-6	1,2,4-Trimethylbenzene	5.4	U
135-98-8	sec-Butylbenzene	5.4	U
99-87-6	4-Isopropyltoluene	5.4	U
541-73-1	1,3-Dichlorobenzene	5.4	U
106-46-7	1,4-Dichlorobenzene	5.4	U
104-51-8	n-Butylbenzene	5.4	U
95-50-1	1,2-Dichlorobenzene	5.4	U
96-12-8	1,2-Dibromo-3-chloropropane	5.4	U
120-82-1	1,2,4-Trichlorobenzene	5.4	U
87-68-3	Hexachlorobutadiene	5.4	U
87-61-6	1,2,3-Trichlorobenzene	5.4	U
91-20-3	Naphthalene	5.4	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-24

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1369
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1369-05B
Sample wt/vol: 5.20 (g/mL) G
Lab File ID: V6G0286.D
Level: (TRACE or LOW/MED) LOW
Date Received: 08/21/2008
% Moisture: not dec. 11
Date Analyzed: 08/28/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-25

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-06B

Sample wt/vol: 5.10 (g/mL) G

Lab File ID: V6G0287.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 15

Date Analyzed: 08/28/2008

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	5.8	U
74-87-3	Chloromethane	5.8	U
75-01-4	Vinyl chloride	5.8	U
74-83-9	Bromomethane	5.8	U
75-00-3	Chloroethane	5.8	U
75-69-4	Trichlorofluoromethane	5.8	U
75-35-4	1,1-Dichloroethene	5.8	U
67-64-1	Acetone	5.8	U
74-88-4	Iodomethane	5.8	U
75-15-0	Carbon disulfide	5.8	U
75-09-2	Methylene chloride	5.8	U
156-60-5	trans-1,2-Dichloroethene	5.8	U
1634-04-4	Methyl tert-butyl ether	5.8	U
75-34-3	1,1-Dichloroethane	5.8	U
108-05-4	Vinyl acetate	5.8	U
78-93-3	2-Butanone	5.8	U
156-59-2	cis-1,2-Dichloroethene	5.8	U
594-20-7	2,2-Dichloropropane	5.8	U
74-97-5	Bromochloromethane	5.8	U
67-66-3	Chloroform	5.8	U
71-55-6	1,1,1-Trichloroethane	5.8	U
563-58-6	1,1-Dichloropropene	5.8	U
56-23-5	Carbon tetrachloride	5.8	U
107-06-2	1,2-Dichloroethane	5.8	U
71-43-2	Benzene	5.8	U
79-01-6	Trichloroethene	5.8	U
78-87-5	1,2-Dichloropropane	5.8	U
74-95-3	Dibromomethane	5.8	U
75-27-4	Bromodichloromethane	5.8	U
10061-01-5	cis-1,3-Dichloropropene	5.8	U
108-10-1	4-Methyl-2-pentanone	5.8	U
108-88-3	Toluene	5.8	U
10061-02-6	trans-1,3-Dichloropropene	5.8	U
79-00-5	1,1,2-Trichloroethane	5.8	U
142-28-9	1,3-Dichloropropane	5.8	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-25

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-06B

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V6G0287.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 15 Date Analyzed: 08/28/2008

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
127-18-4	Tetrachloroethene	5.8	U
591-78-6	2-Hexanone	5.8	U
124-48-1	Dibromochloromethane	5.8	U
106-93-4	1,2-Dibromoethane	5.8	U
108-90-7	Chlorobenzene	5.8	U
630-20-6	1,1,1,2-Tetrachloroethane	5.8	U
100-41-4	Ethylbenzene	5.8	U
1330-20-7	m,p-Xylene	5.8	U
95-47-6	o-Xylene	5.8	U
1330-20-7	Xylene (Total)	5.8	U
100-42-5	Styrene	5.8	U
75-25-2	Bromoform	5.8	U
98-82-8	Isopropylbenzene	5.8	U
79-34-5	1,1,2,2-Tetrachloroethane	5.8	U
108-86-1	Bromobenzene	5.8	U
96-18-4	1,2,3-Trichloropropane	5.8	U
103-65-1	n-Propylbenzene	5.8	U
95-49-8	2-Chlorotoluene	5.8	U
108-67-8	1,3,5-Trimethylbenzene	5.8	U
106-43-4	4-Chlorotoluene	5.8	U
98-06-6	tert-Butylbenzene	5.8	U
95-63-6	1,2,4-Trimethylbenzene	5.8	U
135-98-8	sec-Butylbenzene	5.8	U
99-87-6	4-Isopropyltoluene	5.8	U
541-73-1	1,3-Dichlorobenzene	5.8	U
106-46-7	1,4-Dichlorobenzene	5.8	U
104-51-8	n-Butylbenzene	5.8	U
95-50-1	1,2-Dichlorobenzene	5.8	U
96-12-8	1,2-Dibromo-3-chloropropane	5.8	U
120-82-1	1,2,4-Trichlorobenzene	5.8	U
87-68-3	Hexachlorobutadiene	5.8	U
87-61-6	1,2,3-Trichlorobenzene	5.8	U
91-20-3	Naphthalene	5.8	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-25

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1369
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1369-06B
Sample wt/vol: 5.10 (g/mL) G
Lab File ID: V6G0287.D
Level: (TRACE or LOW/MED) LOW
Date Received: 08/21/2008
% Moisture: not dec. 15
Date Analyzed: 08/28/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-26

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-07B

Sample wt/vol: 5.80 (g/mL) G

Lab File ID: V6G0288.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 19

Date Analyzed: 08/28/2008

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	5.3	U
74-87-3	Chloromethane	5.3	U
75-01-4	Vinyl chloride	5.3	U
74-83-9	Bromomethane	5.3	U
75-00-3	Chloroethane	5.3	U
75-69-4	Trichlorofluoromethane	5.3	U
75-35-4	1,1-Dichloroethene	5.3	U
67-64-1	Acetone	5.3	U
74-88-4	Iodomethane	5.3	U
75-15-0	Carbon disulfide	5.3	U
75-09-2	Methylene chloride	5.3	U
156-60-5	trans-1,2-Dichloroethene	5.3	U
1634-04-4	Methyl tert-butyl ether	5.3	U
75-34-3	1,1-Dichloroethane	5.3	U
108-05-4	Vinyl acetate	5.3	U
78-93-3	2-Butanone	5.3	U
156-59-2	cis-1,2-Dichloroethene	5.3	U
594-20-7	2,2-Dichloropropane	5.3	U
74-97-5	Bromochloromethane	5.3	U
67-66-3	Chloroform	5.3	U
71-55-6	1,1,1-Trichloroethane	5.3	U
563-58-6	1,1-Dichloropropene	5.3	U
56-23-5	Carbon tetrachloride	5.3	U
107-06-2	1,2-Dichloroethane	5.3	U
71-43-2	Benzene	5.3	U
79-01-6	Trichloroethene	5.3	U
78-87-5	1,2-Dichloropropane	5.3	U
74-95-3	Dibromomethane	5.3	U
75-27-4	Bromodichloromethane	5.3	U
10061-01-5	cis-1,3-Dichloropropene	5.3	U
108-10-1	4-Methyl-2-pentanone	5.3	U
108-88-3	Toluene	5.3	U
10061-02-6	trans-1,3-Dichloropropene	5.3	U
79-00-5	1,1,2-Trichloroethane	5.3	U
142-28-9	1,3-Dichloropropane	5.3	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-26

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-07B

Sample wt/vol: 5.80 (g/mL) G

Lab File ID: V6G0288.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 19

Date Analyzed: 08/28/2008

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
127-18-4	Tetrachloroethene	5.3	U
591-78-6	2-Hexanone	5.3	U
124-48-1	Dibromochloromethane	5.3	U
106-93-4	1,2-Dibromoethane	5.3	U
108-90-7	Chlorobenzene	5.3	U
630-20-6	1,1,1,2-Tetrachloroethane	5.3	U
100-41-4	Ethylbenzene	5.3	U
1330-20-7	m,p-Xylene	5.3	U
95-47-6	o-Xylene	5.3	U
1330-20-7	Xylene (Total)	5.3	U
100-42-5	Styrene	5.3	U
75-25-2	Bromoform	5.3	U
98-82-8	Isopropylbenzene	5.3	U
79-34-5	1,1,2,2-Tetrachloroethane	5.3	U
108-86-1	Bromobenzene	5.3	U
96-18-4	1,2,3-Trichloropropane	5.3	U
103-65-1	n-Propylbenzene	5.3	U
95-49-8	2-Chlorotoluene	5.3	U
108-67-8	1,3,5-Trimethylbenzene	5.3	U
106-43-4	4-Chlorotoluene	5.3	U
98-06-6	tert-Butylbenzene	5.3	U
95-63-6	1,2,4-Trimethylbenzene	5.3	U
135-98-8	sec-Butylbenzene	5.3	U
99-87-6	4-Isopropyltoluene	5.3	U
541-73-1	1,3-Dichlorobenzene	5.3	U
106-46-7	1,4-Dichlorobenzene	5.3	U
104-51-8	n-Butylbenzene	5.3	U
95-50-1	1,2-Dichlorobenzene	5.3	U
96-12-8	1,2-Dibromo-3-chloropropane	5.3	U
120-82-1	1,2,4-Trichlorobenzene	5.3	U
87-68-3	Hexachlorobutadiene	5.3	U
87-61-6	1,2,3-Trichlorobenzene	5.3	U
91-20-3	Naphthalene	5.3	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-26

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1369
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1369-07B
Sample wt/vol: 5.80 (g/mL) G
Lab File ID: V6G0288.D
Level: (TRACE or LOW/MED) LOW
Date Received: 08/21/2008
% Moisture: not dec. 19
Date Analyzed: 08/28/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-27

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-08B

Sample wt/vol: 5.40 (g/mL) G

Lab File ID: V6G0289.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 20

Date Analyzed: 08/28/2008

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	5.8	U
74-87-3	Chloromethane	5.8	U
75-01-4	Vinyl chloride	5.8	U
74-83-9	Bromomethane	5.8	U
75-00-3	Chloroethane	5.8	U
75-69-4	Trichlorofluoromethane	5.8	U
75-35-4	1,1-Dichloroethene	5.8	U
67-64-1	Acetone	5.8	U
74-88-4	Iodomethane	5.8	U
75-15-0	Carbon disulfide	5.8	U
75-09-2	Methylene chloride	5.8	U
156-60-5	trans-1,2-Dichloroethene	5.8	U
1634-04-4	Methyl tert-butyl ether	5.8	U
75-34-3	1,1-Dichloroethane	5.8	U
108-05-4	Vinyl acetate	5.8	U
78-93-3	2-Butanone	5.8	U
156-59-2	cis-1,2-Dichloroethene	5.8	U
594-20-7	2,2-Dichloropropane	5.8	U
74-97-5	Bromochloromethane	5.8	U
67-66-3	Chloroform	5.8	U
71-55-6	1,1,1-Trichloroethane	5.8	U
563-58-6	1,1-Dichloropropene	5.8	U
56-23-5	Carbon tetrachloride	5.8	U
107-06-2	1,2-Dichloroethane	5.8	U
71-43-2	Benzene	5.8	U
79-01-6	Trichloroethene	5.8	U
78-87-5	1,2-Dichloropropane	5.8	U
74-95-3	Dibromomethane	5.8	U
75-27-4	Bromodichloromethane	5.8	U
10061-01-5	cis-1,3-Dichloropropene	5.8	U
108-10-1	4-Methyl-2-pentanone	5.8	U
108-88-3	Toluene	5.8	U
10061-02-6	trans-1,3-Dichloropropene	5.8	U
79-00-5	1,1,2-Trichloroethane	5.8	U
142-28-9	1,3-Dichloropropane	5.8	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-27

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-08B

Sample wt/vol: 5.40 (g/mL) G

Lab File ID: V6G0289.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 20

Date Analyzed: 08/28/2008

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
127-18-4	Tetrachloroethene	5.8	U
591-78-6	2-Hexanone	5.8	U
124-48-1	Dibromochloromethane	5.8	U
106-93-4	1,2-Dibromoethane	5.8	U
108-90-7	Chlorobenzene	5.8	U
630-20-6	1,1,1,2-Tetrachloroethane	5.8	U
100-41-4	Ethylbenzene	5.8	U
1330-20-7	m,p-Xylene	5.8	U
95-47-6	o-Xylene	5.8	U
1330-20-7	Xylene (Total)	5.8	U
100-42-5	Styrene	5.8	U
75-25-2	Bromoform	5.8	U
98-82-8	Isopropylbenzene	5.8	U
79-34-5	1,1,2,2-Tetrachloroethane	5.8	U
108-86-1	Bromobenzene	5.8	U
96-18-4	1,2,3-Trichloropropane	5.8	U
103-65-1	n-Propylbenzene	5.8	U
95-49-8	2-Chlorotoluene	5.8	U
108-67-8	1,3,5-Trimethylbenzene	5.8	U
106-43-4	4-Chlorotoluene	5.8	U
98-06-6	tert-Butylbenzene	5.8	U
95-63-6	1,2,4-Trimethylbenzene	5.8	U
135-98-8	sec-Butylbenzene	5.8	U
99-87-6	4-Isopropyltoluene	5.8	U
541-73-1	1,3-Dichlorobenzene	5.8	U
106-46-7	1,4-Dichlorobenzene	5.8	U
104-51-8	n-Butylbenzene	5.8	U
95-50-1	1,2-Dichlorobenzene	5.8	U
96-12-8	1,2-Dibromo-3-chloropropane	5.8	U
120-82-1	1,2,4-Trichlorobenzene	5.8	U
87-68-3	Hexachlorobutadiene	5.8	U
87-61-6	1,2,3-Trichlorobenzene	5.8	U
91-20-3	Naphthalene	5.8	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-27

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1369
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1369-08B
Sample wt/vol: 5.40 (g/mL) G
Lab File ID: V6G0289.D
Level: (TRACE or LOW/MED) LOW
Date Received: 08/21/2008
% Moisture: not dec. 20
Date Analyzed: 08/28/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-28

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-09B

Sample wt/vol: 5.20 (g/mL) G

Lab File ID: V6G0290.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 19

Date Analyzed: 08/28/2008

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	5.9	U
74-87-3	Chloromethane	5.9	U
75-01-4	Vinyl chloride	5.9	U
74-83-9	Bromomethane	5.9	U
75-00-3	Chloroethane	5.9	U
75-69-4	Trichlorofluoromethane	5.9	U
75-35-4	1,1-Dichloroethene	5.9	U
67-64-1	Acetone	5.9	U
74-88-4	Iodomethane	5.9	U
75-15-0	Carbon disulfide	5.9	U
75-09-2	Methylene chloride	5.9	U
156-60-5	trans-1,2-Dichloroethene	5.9	U
1634-04-4	Methyl tert-butyl ether	5.9	U
75-34-3	1,1-Dichloroethane	5.9	U
108-05-4	Vinyl acetate	5.9	U
78-93-3	2-Butanone	5.9	U
156-59-2	cis-1,2-Dichloroethene	5.9	U
594-20-7	2,2-Dichloropropane	5.9	U
74-97-5	Bromochloromethane	5.9	U
67-66-3	Chloroform	5.9	U
71-55-6	1,1,1-Trichloroethane	5.9	U
563-58-6	1,1-Dichloropropene	5.9	U
56-23-5	Carbon tetrachloride	5.9	U
107-06-2	1,2-Dichloroethane	5.9	U
71-43-2	Benzene	5.9	U
79-01-6	Trichloroethene	5.9	U
78-87-5	1,2-Dichloropropane	5.9	U
74-95-3	Dibromomethane	5.9	U
75-27-4	Bromodichloromethane	5.9	U
10061-01-5	cis-1,3-Dichloropropene	5.9	U
108-10-1	4-Methyl-2-pentanone	5.9	U
108-88-3	Toluene	5.9	U
10061-02-6	trans-1,3-Dichloropropene	5.9	U
79-00-5	1,1,2-Trichloroethane	5.9	U
142-28-9	1,3-Dichloropropane	5.9	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-28

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-09B

Sample wt/vol: 5.20 (g/mL) G

Lab File ID: V6G0290.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 19

Date Analyzed: 08/28/2008

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
127-18-4	Tetrachloroethene	5.9	U
591-78-6	2-Hexanone	5.9	U
124-48-1	Dibromochloromethane	5.9	U
106-93-4	1,2-Dibromoethane	5.9	U
108-90-7	Chlorobenzene	5.9	U
630-20-6	1,1,1,2-Tetrachloroethane	5.9	U
100-41-4	Ethylbenzene	5.9	U
1330-20-7	m,p-Xylene	5.9	U
95-47-6	o-Xylene	5.9	U
1330-20-7	Xylene (Total)	5.9	U
100-42-5	Styrene	5.9	U
75-25-2	Bromoform	5.9	U
98-82-8	Isopropylbenzene	5.9	U
79-34-5	1,1,2,2-Tetrachloroethane	5.9	U
108-86-1	Bromobenzene	5.9	U
96-18-4	1,2,3-Trichloropropane	5.9	U
103-65-1	n-Propylbenzene	5.9	U
95-49-8	2-Chlorotoluene	5.9	U
108-67-8	1,3,5-Trimethylbenzene	5.9	U
106-43-4	4-Chlorotoluene	5.9	U
98-06-6	tert-Butylbenzene	5.9	U
95-63-6	1,2,4-Trimethylbenzene	5.9	U
135-98-8	sec-Butylbenzene	5.9	U
99-87-6	4-Isopropyltoluene	5.9	U
541-73-1	1,3-Dichlorobenzene	5.9	U
106-46-7	1,4-Dichlorobenzene	5.9	U
104-51-8	n-Butylbenzene	5.9	U
95-50-1	1,2-Dichlorobenzene	5.9	U
96-12-8	1,2-Dibromo-3-chloropropane	5.9	U
120-82-1	1,2,4-Trichlorobenzene	5.9	U
87-68-3	Hexachlorobutadiene	5.9	U
87-61-6	1,2,3-Trichlorobenzene	5.9	U
91-20-3	Naphthalene	5.9	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-28

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-09B

Sample wt/vol: 5.20 (g/mL) G Lab File ID: V6G0290.D

Level: (TRACE or LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 19 Date Analyzed: 08/28/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-29

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-10B

Sample wt/vol: 4.90 (g/mL) G

Lab File ID: V6G0291.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 15

Date Analyzed: 08/28/2008

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	6.0	U
74-88-4	Iodomethane	6.0	U
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
108-05-4	Vinyl acetate	6.0	U
78-93-3	2-Butanone	6.0	U
156-59-2	cis-1,2-Dichloroethene	6.0	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	6.0	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-29

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-10B

Sample wt/vol: 4.90 (g/mL) G

Lab File ID: V6G0291.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 15

Date Analyzed: 08/28/2008

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
127-18-4	Tetrachloroethene	6.0	U
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
630-20-6	1,1,1,2-Tetrachloroethane	6.0	U
100-41-4	Ethylbenzene	6.0	U
1330-20-7	m,p-Xylene	6.0	U
95-47-6	o-Xylene	6.0	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	6.0	U
96-18-4	1,2,3-Trichloropropane	6.0	U
103-65-1	n-Propylbenzene	6.0	U
95-49-8	2-Chlorotoluene	6.0	U
108-67-8	1,3,5-Trimethylbenzene	6.0	U
106-43-4	4-Chlorotoluene	6.0	U
98-06-6	tert-Butylbenzene	6.0	U
95-63-6	1,2,4-Trimethylbenzene	6.0	U
135-98-8	sec-Butylbenzene	6.0	U
99-87-6	4-Isopropyltoluene	6.0	U
541-73-1	1,3-Dichlorobenzene	6.0	U
106-46-7	1,4-Dichlorobenzene	6.0	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	6.0	U
87-61-6	1,2,3-Trichlorobenzene	6.0	U
91-20-3	Naphthalene	6.0	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-29

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-10B

Sample wt/vol: 4.90 (g/mL) G Lab File ID: V6G0291.D

Level: (TRACE or LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 15 Date Analyzed: 08/28/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-30

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-11B

Sample wt/vol: 4.80 (g/mL) G

Lab File ID: V6G0292.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 20

Date Analyzed: 08/28/2008

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
74-88-4	Iodomethane	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
108-05-4	Vinyl acetate	6.5	U
78-93-3	2-Butanone	6.5	U
156-59-2	cis-1,2-Dichloroethene	6.5	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	6.5	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-30

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-11B

Sample wt/vol: 4.80 (g/mL) G

Lab File ID: V6G0292.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 20

Date Analyzed: 08/28/2008

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
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
630-20-6	1,1,1,2-Tetrachloroethane	6.5	U
100-41-4	Ethylbenzene	6.5	U
1330-20-7	m,p-Xylene	6.5	U
95-47-6	o-Xylene	6.5	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	6.5	U
96-18-4	1,2,3-Trichloropropane	6.5	U
103-65-1	n-Propylbenzene	6.5	U
95-49-8	2-Chlorotoluene	6.5	U
108-67-8	1,3,5-Trimethylbenzene	6.5	U
106-43-4	4-Chlorotoluene	6.5	U
98-06-6	tert-Butylbenzene	6.5	U
95-63-6	1,2,4-Trimethylbenzene	6.5	U
135-98-8	sec-Butylbenzene	6.5	U
99-87-6	4-Isopropyltoluene	6.5	U
541-73-1	1,3-Dichlorobenzene	6.5	U
106-46-7	1,4-Dichlorobenzene	6.5	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	6.5	U
87-61-6	1,2,3-Trichlorobenzene	6.5	U
91-20-3	Naphthalene	6.5	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-30

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1369
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1369-11B
Sample wt/vol: 4.80 (g/mL) G
Lab File ID: V6G0292.D
Level: (TRACE or LOW/MED) LOW
Date Received: 08/21/2008
% Moisture: not dec. 20
Date Analyzed: 08/28/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-31

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-12B

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: V6G0293.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 14

Date Analyzed: 08/28/2008

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	5.8	U
74-87-3	Chloromethane	5.8	U
75-01-4	Vinyl chloride	5.8	U
74-83-9	Bromomethane	5.8	U
75-00-3	Chloroethane	5.8	U
75-69-4	Trichlorofluoromethane	5.8	U
75-35-4	1,1-Dichloroethene	5.8	U
67-64-1	Acetone	5.8	U
74-88-4	Iodomethane	5.8	U
75-15-0	Carbon disulfide	5.8	U
75-09-2	Methylene chloride	5.8	U
156-60-5	trans-1,2-Dichloroethene	5.8	U
1634-04-4	Methyl tert-butyl ether	5.8	U
75-34-3	1,1-Dichloroethane	5.8	U
108-05-4	Vinyl acetate	5.8	U
78-93-3	2-Butanone	5.8	U
156-59-2	cis-1,2-Dichloroethene	5.8	U
594-20-7	2,2-Dichloropropane	5.8	U
74-97-5	Bromochloromethane	5.8	U
67-66-3	Chloroform	5.8	U
71-55-6	1,1,1-Trichloroethane	5.8	U
563-58-6	1,1-Dichloropropene	5.8	U
56-23-5	Carbon tetrachloride	5.8	U
107-06-2	1,2-Dichloroethane	5.8	U
71-43-2	Benzene	5.8	U
79-01-6	Trichloroethene	5.8	U
78-87-5	1,2-Dichloropropane	5.8	U
74-95-3	Dibromomethane	5.8	U
75-27-4	Bromodichloromethane	5.8	U
10061-01-5	cis-1,3-Dichloropropene	5.8	U
108-10-1	4-Methyl-2-pentanone	5.8	U
108-88-3	Toluene	5.8	U
10061-02-6	trans-1,3-Dichloropropene	5.8	U
79-00-5	1,1,2-Trichloroethane	5.8	U
142-28-9	1,3-Dichloropropane	5.8	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-31

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-12B

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: V6G0293.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 14

Date Analyzed: 08/28/2008

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
127-18-4	Tetrachloroethene	5.8	U
591-78-6	2-Hexanone	5.8	U
124-48-1	Dibromochloromethane	5.8	U
106-93-4	1,2-Dibromoethane	5.8	U
108-90-7	Chlorobenzene	5.8	U
630-20-6	1,1,1,2-Tetrachloroethane	5.8	U
100-41-4	Ethylbenzene	5.8	U
1330-20-7	m,p-Xylene	5.8	U
95-47-6	o-Xylene	5.8	U
1330-20-7	Xylene (Total)	5.8	U
100-42-5	Styrene	5.8	U
75-25-2	Bromoform	5.8	U
98-82-8	Isopropylbenzene	5.8	U
79-34-5	1,1,2,2-Tetrachloroethane	5.8	U
108-86-1	Bromobenzene	5.8	U
96-18-4	1,2,3-Trichloropropane	5.8	U
103-65-1	n-Propylbenzene	5.8	U
95-49-8	2-Chlorotoluene	5.8	U
108-67-8	1,3,5-Trimethylbenzene	5.8	U
106-43-4	4-Chlorotoluene	5.8	U
98-06-6	tert-Butylbenzene	5.8	U
95-63-6	1,2,4-Trimethylbenzene	5.8	U
135-98-8	sec-Butylbenzene	5.8	U
99-87-6	4-Isopropyltoluene	5.8	U
541-73-1	1,3-Dichlorobenzene	5.8	U
106-46-7	1,4-Dichlorobenzene	5.8	U
104-51-8	n-Butylbenzene	5.8	U
95-50-1	1,2-Dichlorobenzene	5.8	U
96-12-8	1,2-Dibromo-3-chloropropane	5.8	U
120-82-1	1,2,4-Trichlorobenzene	5.8	U
87-68-3	Hexachlorobutadiene	5.8	U
87-61-6	1,2,3-Trichlorobenzene	5.8	U
91-20-3	Naphthalene	5.8	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-31

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1369
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1369-12B
Sample wt/vol: 5.00 (g/mL) G
Lab File ID: V6G0293.D
Level: (TRACE or LOW/MED) LOW
Date Received: 08/21/2008
% Moisture: not dec. 14
Date Analyzed: 08/28/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-32

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-13B

Sample wt/vol: 5.20 (g/mL) G

Lab File ID: V6G0294.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 26

Date Analyzed: 08/28/2008

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
74-88-4	Iodomethane	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
108-05-4	Vinyl acetate	6.5	U
78-93-3	2-Butanone	6.5	U
156-59-2	cis-1,2-Dichloroethene	6.5	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	6.5	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-32

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-13B

Sample wt/vol: 5.20 (g/mL) G

Lab File ID: V6G0294.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 26

Date Analyzed: 08/28/2008

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
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
630-20-6	1,1,1,2-Tetrachloroethane	6.5	U
100-41-4	Ethylbenzene	6.5	U
1330-20-7	m,p-Xylene	6.5	U
95-47-6	o-Xylene	6.5	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	6.5	U
96-18-4	1,2,3-Trichloropropane	6.5	U
103-65-1	n-Propylbenzene	6.5	U
95-49-8	2-Chlorotoluene	6.5	U
108-67-8	1,3,5-Trimethylbenzene	6.5	U
106-43-4	4-Chlorotoluene	6.5	U
98-06-6	tert-Butylbenzene	6.5	U
95-63-6	1,2,4-Trimethylbenzene	6.5	U
135-98-8	sec-Butylbenzene	6.5	U
99-87-6	4-Isopropyltoluene	6.5	U
541-73-1	1,3-Dichlorobenzene	6.5	U
106-46-7	1,4-Dichlorobenzene	6.5	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	6.5	U
87-61-6	1,2,3-Trichlorobenzene	6.5	U
91-20-3	Naphthalene	6.5	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-32

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-13B

Sample wt/vol: 5.20 (g/mL) G Lab File ID: V6G0294.D

Level: (TRACE or LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 26 Date Analyzed: 08/28/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-33

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-14B

Sample wt/vol: 5.20 (g/mL) G

Lab File ID: V6G0295.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 45

Date Analyzed: 08/28/2008

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	8.7	U
74-87-3	Chloromethane	8.7	U
75-01-4	Vinyl chloride	8.7	U
74-83-9	Bromomethane	8.7	U
75-00-3	Chloroethane	8.7	U
75-69-4	Trichlorofluoromethane	8.7	U
75-35-4	1,1-Dichloroethene	8.7	U
67-64-1	Acetone	8.7	U
74-88-4	Iodomethane	8.7	U
75-15-0	Carbon disulfide	8.7	U
75-09-2	Methylene chloride	8.7	U
156-60-5	trans-1,2-Dichloroethene	8.7	U
1634-04-4	Methyl tert-butyl ether	8.7	U
75-34-3	1,1-Dichloroethane	8.7	U
108-05-4	Vinyl acetate	8.7	U
78-93-3	2-Butanone	8.7	U
156-59-2	cis-1,2-Dichloroethene	8.7	U
594-20-7	2,2-Dichloropropane	8.7	U
74-97-5	Bromochloromethane	8.7	U
67-66-3	Chloroform	8.7	U
71-55-6	1,1,1-Trichloroethane	8.7	U
563-58-6	1,1-Dichloropropene	8.7	U
56-23-5	Carbon tetrachloride	8.7	U
107-06-2	1,2-Dichloroethane	8.7	U
71-43-2	Benzene	8.7	U
79-01-6	Trichloroethene	8.7	U
78-87-5	1,2-Dichloropropane	8.7	U
74-95-3	Dibromomethane	8.7	U
75-27-4	Bromodichloromethane	8.7	U
10061-01-5	cis-1,3-Dichloropropene	8.7	U
108-10-1	4-Methyl-2-pentanone	8.7	U
108-88-3	Toluene	8.7	U
10061-02-6	trans-1,3-Dichloropropene	8.7	U
79-00-5	1,1,2-Trichloroethane	8.7	U
142-28-9	1,3-Dichloropropane	8.7	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-33

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-14B

Sample wt/vol: 5.20 (g/mL) G

Lab File ID: V6G0295.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 45

Date Analyzed: 08/28/2008

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
127-18-4	Tetrachloroethene	8.7	U
591-78-6	2-Hexanone	8.7	U
124-48-1	Dibromochloromethane	8.7	U
106-93-4	1,2-Dibromoethane	8.7	U
108-90-7	Chlorobenzene	8.7	U
630-20-6	1,1,1,2-Tetrachloroethane	8.7	U
100-41-4	Ethylbenzene	8.7	U
1330-20-7	m,p-Xylene	8.7	U
95-47-6	o-Xylene	8.7	U
1330-20-7	Xylene (Total)	8.7	U
100-42-5	Styrene	8.7	U
75-25-2	Bromoform	8.7	U
98-82-8	Isopropylbenzene	8.7	U
79-34-5	1,1,2,2-Tetrachloroethane	8.7	U
108-86-1	Bromobenzene	8.7	U
96-18-4	1,2,3-Trichloropropane	8.7	U
103-65-1	n-Propylbenzene	8.7	U
95-49-8	2-Chlorotoluene	8.7	U
108-67-8	1,3,5-Trimethylbenzene	8.7	U
106-43-4	4-Chlorotoluene	8.7	U
98-06-6	tert-Butylbenzene	8.7	U
95-63-6	1,2,4-Trimethylbenzene	8.7	U
135-98-8	sec-Butylbenzene	8.7	U
99-87-6	4-Isopropyltoluene	8.7	U
541-73-1	1,3-Dichlorobenzene	8.7	U
106-46-7	1,4-Dichlorobenzene	8.7	U
104-51-8	n-Butylbenzene	8.7	U
95-50-1	1,2-Dichlorobenzene	8.7	U
96-12-8	1,2-Dibromo-3-chloropropane	8.7	U
120-82-1	1,2,4-Trichlorobenzene	8.7	U
87-68-3	Hexachlorobutadiene	8.7	U
87-61-6	1,2,3-Trichlorobenzene	8.7	U
91-20-3	Naphthalene	8.7	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-33

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1369
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1369-14B
Sample wt/vol: 5.20 (g/mL) G
Lab File ID: V6G0295.D
Level: (TRACE or LOW/MED) LOW
Date Received: 08/21/2008
% Moisture: not dec. 45
Date Analyzed: 08/28/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-34

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-15B

Sample wt/vol: 4.80 (g/mL) G

Lab File ID: V6G0296.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 25

Date Analyzed: 08/28/2008

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	6.9	U
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	6.9	U
74-88-4	Iodomethane	6.9	U
75-15-0	Carbon disulfide	6.9	U
75-09-2	Methylene chloride	6.9	U
156-60-5	trans-1,2-Dichloroethene	6.9	U
1634-04-4	Methyl tert-butyl ether	6.9	U
75-34-3	1,1-Dichloroethane	6.9	U
108-05-4	Vinyl acetate	6.9	U
78-93-3	2-Butanone	6.9	U
156-59-2	cis-1,2-Dichloroethene	6.9	U
594-20-7	2,2-Dichloropropane	6.9	U
74-97-5	Bromochloromethane	6.9	U
67-66-3	Chloroform	6.9	U
71-55-6	1,1,1-Trichloroethane	6.9	U
563-58-6	1,1-Dichloropropene	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	6.9	U
78-87-5	1,2-Dichloropropane	6.9	U
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	6.9	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-34

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-15B

Sample wt/vol: 4.80 (g/mL) G

Lab File ID: V6G0296.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 25

Date Analyzed: 08/28/2008

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
127-18-4	Tetrachloroethene	6.9	U
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
630-20-6	1,1,1,2-Tetrachloroethane	6.9	U
100-41-4	Ethylbenzene	6.9	U
1330-20-7	m,p-Xylene	6.9	U
95-47-6	o-Xylene	6.9	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	6.9	U
96-18-4	1,2,3-Trichloropropane	6.9	U
103-65-1	n-Propylbenzene	6.9	U
95-49-8	2-Chlorotoluene	6.9	U
108-67-8	1,3,5-Trimethylbenzene	6.9	U
106-43-4	4-Chlorotoluene	6.9	U
98-06-6	tert-Butylbenzene	6.9	U
95-63-6	1,2,4-Trimethylbenzene	6.9	U
135-98-8	sec-Butylbenzene	6.9	U
99-87-6	4-Isopropyltoluene	6.9	U
541-73-1	1,3-Dichlorobenzene	6.9	U
106-46-7	1,4-Dichlorobenzene	6.9	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	6.9	U
87-61-6	1,2,3-Trichlorobenzene	6.9	U
91-20-3	Naphthalene	6.9	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-34

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1369
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1369-15B
Sample wt/vol: 4.80 (g/mL) G
Lab File ID: V6G0296.D
Level: (TRACE or LOW/MED) LOW
Date Received: 08/21/2008
% Moisture: not dec. 25
Date Analyzed: 08/28/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-35

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-16B

Sample wt/vol: 5.40 (g/mL) G

Lab File ID: V6G0319.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 31

Date Analyzed: 08/29/2008

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
74-88-4	Iodomethane	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
108-05-4	Vinyl acetate	6.7	U
78-93-3	2-Butanone	6.7	U
156-59-2	cis-1,2-Dichloroethene	6.7	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	6.7	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-35

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-16B

Sample wt/vol: 5.40 (g/mL) G

Lab File ID: V6G0319.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 31

Date Analyzed: 08/29/2008

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
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
630-20-6	1,1,1,2-Tetrachloroethane	6.7	U
100-41-4	Ethylbenzene	6.7	U
1330-20-7	m,p-Xylene	6.7	U
95-47-6	o-Xylene	6.7	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	6.7	U
96-18-4	1,2,3-Trichloropropane	6.7	U
103-65-1	n-Propylbenzene	6.7	U
95-49-8	2-Chlorotoluene	6.7	U
108-67-8	1,3,5-Trimethylbenzene	6.7	U
106-43-4	4-Chlorotoluene	6.7	U
98-06-6	tert-Butylbenzene	6.7	U
95-63-6	1,2,4-Trimethylbenzene	6.7	U
135-98-8	sec-Butylbenzene	6.7	U
99-87-6	4-Isopropyltoluene	6.7	U
541-73-1	1,3-Dichlorobenzene	6.7	U
106-46-7	1,4-Dichlorobenzene	6.7	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	6.7	U
87-61-6	1,2,3-Trichlorobenzene	6.7	U
91-20-3	Naphthalene	6.7	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-35

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1369
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1369-16B
Sample wt/vol: 5.40 (g/mL) G
Lab File ID: V6G0319.D
Level: (TRACE or LOW/MED) LOW
Date Received: 08/21/2008
% Moisture: not dec. 31
Date Analyzed: 08/29/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-36

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-17B

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V6G0298.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 22 Date Analyzed: 08/28/2008

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
74-88-4	Iodomethane	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
108-05-4	Vinyl acetate	6.4	U
78-93-3	2-Butanone	6.4	U
156-59-2	cis-1,2-Dichloroethene	6.4	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	6.4	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-36

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-17B

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: V6G0298.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 22

Date Analyzed: 08/28/2008

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
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
630-20-6	1,1,1,2-Tetrachloroethane	6.4	U
100-41-4	Ethylbenzene	6.4	U
1330-20-7	m,p-Xylene	6.4	U
95-47-6	o-Xylene	6.4	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	6.4	U
96-18-4	1,2,3-Trichloropropane	6.4	U
103-65-1	n-Propylbenzene	6.4	U
95-49-8	2-Chlorotoluene	6.4	U
108-67-8	1,3,5-Trimethylbenzene	6.4	U
106-43-4	4-Chlorotoluene	6.4	U
98-06-6	tert-Butylbenzene	6.4	U
95-63-6	1,2,4-Trimethylbenzene	6.4	U
135-98-8	sec-Butylbenzene	6.4	U
99-87-6	4-Isopropyltoluene	6.4	U
541-73-1	1,3-Dichlorobenzene	6.4	U
106-46-7	1,4-Dichlorobenzene	6.4	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	6.4	U
87-61-6	1,2,3-Trichlorobenzene	6.4	U
91-20-3	Naphthalene	6.4	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-36

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM Case No.:
Mod. Ref No.: SDG No.: MG1369
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1369-17B
Sample wt/vol: 5.00 (g/mL) G
Lab File ID: V6G0298.D
Level: (TRACE or LOW/MED) LOW
Date Received: 08/21/2008
% Moisture: not dec. 22
Date Analyzed: 08/28/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	3.342	11	J
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-37

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-18B

Sample wt/vol: 4.90 (g/mL) G

Lab File ID: V6G0299.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 9.0

Date Analyzed: 08/29/2008

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
74-88-4	Iodomethane	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
108-05-4	Vinyl acetate	5.6	U
78-93-3	2-Butanone	5.6	U
156-59-2	cis-1,2-Dichloroethene	5.6	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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	3.6	J
10061-02-6	trans-1,3-Dichloropropene	5.6	U
79-00-5	1,1,2-Trichloroethane	5.6	U
142-28-9	1,3-Dichloropropane	5.6	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-37

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-18B

Sample wt/vol: 4.90 (g/mL) G

Lab File ID: V6G0299.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 9.0

Date Analyzed: 08/29/2008

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
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
630-20-6	1,1,1,2-Tetrachloroethane	5.6	U
100-41-4	Ethylbenzene	5.6	U
1330-20-7	m,p-Xylene	5.6	U
95-47-6	o-Xylene	5.6	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	5.6	U
96-18-4	1,2,3-Trichloropropane	5.6	U
103-65-1	n-Propylbenzene	5.6	U
95-49-8	2-Chlorotoluene	5.6	U
108-67-8	1,3,5-Trimethylbenzene	5.6	U
106-43-4	4-Chlorotoluene	5.6	U
98-06-6	tert-Butylbenzene	5.6	U
95-63-6	1,2,4-Trimethylbenzene	5.6	U
135-98-8	sec-Butylbenzene	5.6	U
99-87-6	4-Isopropyltoluene	5.6	U
541-73-1	1,3-Dichlorobenzene	5.6	U
106-46-7	1,4-Dichlorobenzene	5.6	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	5.6	U
87-61-6	1,2,3-Trichlorobenzene	5.6	U
91-20-3	Naphthalene	5.6	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-37

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-18B

Sample wt/vol: 4.90 (g/mL) G Lab File ID: V6G0299.D

Level: (TRACE or LOW/MED) LOW Date Received: 08/21/2008

% Moisture: not dec. 9.0 Date Analyzed: 08/29/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	3.340	12	J
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-38

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-19B

Sample wt/vol: 5.10 (g/mL) G

Lab File ID: V6G0300.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 19

Date Analyzed: 08/29/2008

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	6.1	U
74-88-4	Iodomethane	6.1	U
75-15-0	Carbon disulfide	6.1	U
75-09-2	Methylene chloride	6.1	U
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
108-05-4	Vinyl acetate	6.1	U
78-93-3	2-Butanone	6.1	U
156-59-2	cis-1,2-Dichloroethene	6.1	U
594-20-7	2,2-Dichloropropane	6.1	U
74-97-5	Bromochloromethane	6.1	U
67-66-3	Chloroform	6.1	U
71-55-6	1,1,1-Trichloroethane	6.1	U
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	6.1	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-38

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-19B

Sample wt/vol: 5.10 (g/mL) G

Lab File ID: V6G0300.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 19

Date Analyzed: 08/29/2008

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
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
630-20-6	1,1,1,2-Tetrachloroethane	6.1	U
100-41-4	Ethylbenzene	6.1	U
1330-20-7	m,p-Xylene	6.1	U
95-47-6	o-Xylene	6.1	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	6.1	U
96-18-4	1,2,3-Trichloropropane	6.1	U
103-65-1	n-Propylbenzene	6.1	U
95-49-8	2-Chlorotoluene	6.1	U
108-67-8	1,3,5-Trimethylbenzene	6.1	U
106-43-4	4-Chlorotoluene	6.1	U
98-06-6	tert-Butylbenzene	6.1	U
95-63-6	1,2,4-Trimethylbenzene	6.1	U
135-98-8	sec-Butylbenzene	6.1	U
99-87-6	4-Isopropyltoluene	6.1	U
541-73-1	1,3-Dichlorobenzene	6.1	U
106-46-7	1,4-Dichlorobenzene	6.1	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	6.1	U
87-61-6	1,2,3-Trichlorobenzene	6.1	U
91-20-3	Naphthalene	6.1	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-38

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1369
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1369-19B
Sample wt/vol: 5.10 (g/mL) G
Lab File ID: V6G0300.D
Level: (TRACE or LOW/MED) LOW
Date Received: 08/21/2008
% Moisture: not dec. 19
Date Analyzed: 08/29/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-39

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-20B

Sample wt/vol: 5.60 (g/mL) G

Lab File ID: V6G0320.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 8.0

Date Analyzed: 08/29/2008

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	4.9	U
74-87-3	Chloromethane	4.9	U
75-01-4	Vinyl chloride	4.9	U
74-83-9	Bromomethane	4.9	U
75-00-3	Chloroethane	4.9	U
75-69-4	Trichlorofluoromethane	4.9	U
75-35-4	1,1-Dichloroethene	4.9	U
67-64-1	Acetone	4.9	U
74-88-4	Iodomethane	4.9	U
75-15-0	Carbon disulfide	4.9	U
75-09-2	Methylene chloride	4.9	U
156-60-5	trans-1,2-Dichloroethene	4.9	U
1634-04-4	Methyl tert-butyl ether	4.9	U
75-34-3	1,1-Dichloroethane	4.9	U
108-05-4	Vinyl acetate	4.9	U
78-93-3	2-Butanone	4.9	U
156-59-2	cis-1,2-Dichloroethene	4.9	U
594-20-7	2,2-Dichloropropane	4.9	U
74-97-5	Bromochloromethane	4.9	U
67-66-3	Chloroform	4.9	U
71-55-6	1,1,1-Trichloroethane	4.9	U
563-58-6	1,1-Dichloropropene	4.9	U
56-23-5	Carbon tetrachloride	4.9	U
107-06-2	1,2-Dichloroethane	4.9	U
71-43-2	Benzene	4.9	U
79-01-6	Trichloroethene	4.9	U
78-87-5	1,2-Dichloropropane	4.9	U
74-95-3	Dibromomethane	4.9	U
75-27-4	Bromodichloromethane	4.9	U
10061-01-5	cis-1,3-Dichloropropene	4.9	U
108-10-1	4-Methyl-2-pentanone	4.9	U
108-88-3	Toluene	4.9	U
10061-02-6	trans-1,3-Dichloropropene	4.9	U
79-00-5	1,1,2-Trichloroethane	4.9	U
142-28-9	1,3-Dichloropropane	4.9	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-39

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-20B

Sample wt/vol: 5.60 (g/mL) G

Lab File ID: V6G0320.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/21/2008

% Moisture: not dec. 8.0

Date Analyzed: 08/29/2008

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
127-18-4	Tetrachloroethene	4.9	U
591-78-6	2-Hexanone	4.9	U
124-48-1	Dibromochloromethane	4.9	U
106-93-4	1,2-Dibromoethane	4.9	U
108-90-7	Chlorobenzene	4.9	U
630-20-6	1,1,1,2-Tetrachloroethane	4.9	U
100-41-4	Ethylbenzene	4.9	U
1330-20-7	m,p-Xylene	4.9	U
95-47-6	o-Xylene	4.9	U
1330-20-7	Xylene (Total)	4.9	U
100-42-5	Styrene	4.9	U
75-25-2	Bromoform	4.9	U
98-82-8	Isopropylbenzene	4.9	U
79-34-5	1,1,2,2-Tetrachloroethane	4.9	U
108-86-1	Bromobenzene	4.9	U
96-18-4	1,2,3-Trichloropropane	4.9	U
103-65-1	n-Propylbenzene	4.9	U
95-49-8	2-Chlorotoluene	4.9	U
108-67-8	1,3,5-Trimethylbenzene	4.9	U
106-43-4	4-Chlorotoluene	4.9	U
98-06-6	tert-Butylbenzene	4.9	U
95-63-6	1,2,4-Trimethylbenzene	4.9	U
135-98-8	sec-Butylbenzene	4.9	U
99-87-6	4-Isopropyltoluene	4.9	U
541-73-1	1,3-Dichlorobenzene	4.9	U
106-46-7	1,4-Dichlorobenzene	4.9	U
104-51-8	n-Butylbenzene	4.9	U
95-50-1	1,2-Dichlorobenzene	4.9	U
96-12-8	1,2-Dibromo-3-chloropropane	4.9	U
120-82-1	1,2,4-Trichlorobenzene	4.9	U
87-68-3	Hexachlorobutadiene	4.9	U
87-61-6	1,2,3-Trichlorobenzene	4.9	U
91-20-3	Naphthalene	4.9	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-39

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1369
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1369-20B
Sample wt/vol: 5.60 (g/mL) G
Lab File ID: V6G0320.D
Level: (TRACE or LOW/MED) LOW
Date Received: 08/21/2008
% Moisture: not dec. 8.0
Date Analyzed: 08/29/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-01A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2320.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/25/2008

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	390	U
111-44-4	Bis(2-chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	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
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
111-91-1	Bis(2-chloroethoxy)methane	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	93	J
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	790	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	790	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	790	U
83-32-9	Acenaphthene	390	U
51-28-5	2,4-Dinitrophenol	790	U
100-02-7	4-Nitrophenol	790	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-01A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2320.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/25/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	790	U
534-52-1	4,6-Dinitro-2-methylphenol	790	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	790	U
85-01-8	Phenanthrene	700	
120-12-7	Anthracene	200	J
86-74-8	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	1600	
129-00-0	Pyrene	1400	
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3´-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	1000	
218-01-9	Chrysene	1400	
117-81-7	Bis(2-ethylhexyl)phthalate	120	J
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	1800	
207-08-9	Benzo(k)fluoranthene	720	
50-32-8	Benzo(a)pyrene	1200	
193-39-5	Indeno(1,2,3-cd)pyrene	1000	
53-70-3	Dibenzo(a,h)anthracene	380	J
191-24-2	Benzo(g,h,i)perylene	1200	

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-01A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2320.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/25/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	11.865	460	J
02	57-10-3	n-Hexadecanoic acid	11.908	420	NJ
03		Unknown-02	13.580	160	J
04	2541-69-7	Benz[a]anthracene, 7-methyl-	13.986	270	NJ
05	593-45-3	Octadecane	14.104	370	NJ
06	54986-63-9	Benzo[c]phenanthrene, 5,8-di	14.333	230	NJ
07	544-85-4	Dotriacontane	14.590	360	NJ
08	1599-67-3	1-Docosene	14.606	840	NJ
09	192-97-2	Benzo[e]pyrene	14.697	930	NJ
10	83-46-5	.beta.-Sitosterol	15.888	1200	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-02

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-02A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2321.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9.0 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/25/2008

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	360	U
111-44-4	Bis(2-chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	79	J
106-47-8	4-Chloroaniline	360	U
111-91-1	Bis(2-chloroethoxy)methane	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	77	J
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	730	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	730	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	730	U
83-32-9	Acenaphthene	360	U
51-28-5	2,4-Dinitrophenol	730	U
100-02-7	4-Nitrophenol	730	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-02

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-02A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2321.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9.0 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/25/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	730	U
534-52-1	4,6-Dinitro-2-methylphenol	730	U
86-30-6	N-Nitrosodiphenylamine	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	730	U
85-01-8	Phenanthrene	830	
120-12-7	Anthracene	190	J
86-74-8	Carbazole	110	J
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	2200	
129-00-0	Pyrene	1900	
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3´-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	1900	
218-01-9	Chrysene	2500	
117-81-7	Bis(2-ethylhexyl)phthalate	360	U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	4000	
207-08-9	Benzo(k)fluoranthene	1400	
50-32-8	Benzo(a)pyrene	2500	
193-39-5	Indeno(1,2,3-cd)pyrene	2400	
53-70-3	Dibenzo(a,h)anthracene	940	
191-24-2	Benzo(g,h,i)perylene	2600	

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-02

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1368
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1368-02A
Sample wt/vol: 30.3 (g/mL) G
Lab File ID: S3F2321.D
Level: (TRACE or LOW/MED) LOW
Extraction: (Type) SONC
% Moisture: 9.0
Decanted: (Y/N) N
Date Received: 08/21/2008
Concentrated Extract Volume: 1000 (uL)
Date Extracted: 08/21/2008
Injection Volume: 1.0 (uL)
GPC Factor: 1.00
Date Analyzed: 08/25/2008
GPC Cleanup: (Y/N) N
pH:
Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	16327-22-3	1,4-Cyclooctadiene, (Z,Z)-	10.536	420	NJ
02	203-64-5	4H-Cyclopenta[def]phenanthre	11.855	220	NJ
03	33543-31-6	Fluoranthene, 2-methyl-	12.918	160	NJ
04	3353-12-6	Pyrene, 4-methyl-	13.004	200	NJ
05	243-46-9	Benzo[b]naphtho[2,3-d]thioph	13.442	200	NJ
06	3351-31-3	Chrysene, 3-methyl-	13.992	230	NJ
07		Unknown-01	14.110	220	J
08	54986-63-9	Benzo[c]phenanthrene, 5,8-di	14.339	320	NJ
09		Unknown-02	14.393	330	J
10	198-55-0	Perylene	14.580	350	NJ
11	192-97-2	Benzo[e]pyrene	14.708	2400	NJ
12	213-46-7	1,2:7,8-Dibenzophenanthrene	15.739	660	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-03

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-03A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2322.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/25/2008

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	380	U
111-44-4	Bis(2-chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2´-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
111-91-1	Bis(2-chloroethoxy)methane	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	770	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	770	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	770	U
83-32-9	Acenaphthene	380	U
51-28-5	2,4-Dinitrophenol	770	U
100-02-7	4-Nitrophenol	770	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-03

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-03A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2322.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/25/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	770	U
534-52-1	4,6-Dinitro-2-methylphenol	770	U
86-30-6	N-Nitrosodiphenylamine	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	770	U
85-01-8	Phenanthrene	310	J
120-12-7	Anthracene	380	U
86-74-8	Carbazole	380	U
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	630	
129-00-0	Pyrene	530	
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3´-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	420	
218-01-9	Chrysene	610	
117-81-7	Bis(2-ethylhexyl)phthalate	380	U
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	870	
207-08-9	Benzo(k)fluoranthene	390	
50-32-8	Benzo(a)pyrene	570	
193-39-5	Indeno(1,2,3-cd)pyrene	510	
53-70-3	Dibenzo(a,h)anthracene	200	J
191-24-2	Benzo(g,h,i)perylene	590	

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-03

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-03A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2322.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/25/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	87-44-5	Caryophyllene	8.384	280	NJ
02		Unknown-01	10.537	1600	J
03	2416-20-8	Hexadecenoic acid, Z-11-	11.868	320	NJ
04	57-10-3	n-Hexadecanoic acid	11.910	170	NJ
05	593-45-3	Octadecane	14.106	160	NJ
06	544-77-4	Hexadecane, 1-iodo-	14.592	280	NJ
07	192-97-2	Benzo[e]pyrene	14.704	440	NJ
08	630-04-6	Hentriacontane	15.073	350	NJ
09	83-48-7	Stigmasterol	15.687	560	NJ
10	000214-20-7	Stigmasterol, 22,23-dihydro-	15.896	620	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-04

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-04A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2323.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/25/2008

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	390	U
111-44-4	Bis(2-chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	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
95-48-7	2-Methylphenol	390	U
108-60-1	2,2´-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
111-91-1	Bis(2-chloroethoxy)methane	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	800	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	800	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	330	J
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	800	U
83-32-9	Acenaphthene	390	U
51-28-5	2,4-Dinitrophenol	800	U
100-02-7	4-Nitrophenol	800	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-04

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-04A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2323.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/25/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	800	U
534-52-1	4,6-Dinitro-2-methylphenol	800	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	800	U
85-01-8	Phenanthrene	1400	
120-12-7	Anthracene	320	J
86-74-8	Carbazole	190	J
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	2600	
129-00-0	Pyrene	2100	
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3´-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	1100	
218-01-9	Chrysene	1400	
117-81-7	Bis(2-ethylhexyl)phthalate	390	U
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	1800	
207-08-9	Benzo(k)fluoranthene	920	
50-32-8	Benzo(a)pyrene	1300	
193-39-5	Indeno(1,2,3-cd)pyrene	960	
53-70-3	Dibenzo(a,h)anthracene	330	J
191-24-2	Benzo(g,h,i)perylene	1000	

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-04

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1368
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1368-04A
Sample wt/vol: 30.2 (g/mL) G
Lab File ID: S3F2323.D
Level: (TRACE or LOW/MED) LOW
Extraction: (Type) SONC
% Moisture: 17
Decanted: (Y/N) N
Date Received: 08/21/2008
Concentrated Extract Volume: 1000 (uL)
Date Extracted: 08/21/2008
Injection Volume: 1.0 (uL)
GPC Factor: 1.00
Date Analyzed: 08/25/2008
GPC Cleanup: (Y/N) N
pH:
Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	87-44-5	Caryophyllene	8.383	340	NJ
02		Unknown-01	10.536	1300	J
03	613-12-7	Anthracene, 2-methyl-	11.754	210	NJ
04	203-64-5	4H-Cyclopenta[def]phenanthre	11.856	240	NJ
05	2416-20-8	Hexadecenoic acid, Z-11-	11.872	500	NJ
06	57-10-3	n-Hexadecanoic acid	11.914	340	NJ
07		Unknown-02	12.288	490	J
08	5737-13-3	Cyclopenta(def)phenanthrenon	12.358	240	NJ
09		Unknown-03	13.015	440	J
10	2381-21-7	Pyrene, 1-methyl-	13.106	190	NJ
11		Unknown-04	13.383	230	J
12		Unknown-05	13.586	200	J
13	501-24-6	Phenol, 3-pentadecyl-	13.613	190	NJ
14	192-97-2	Benzo[e]pyrene	14.585	230	NJ
15	638-68-6	Triacontane	14.601	340	NJ
16	297-03-0	Cyclotetracosane	14.617	380	NJ
17	192-97-2	Benzo[e]pyrene	14.714	1000	NJ
18	630-04-6	Hentriacontane	15.088	340	NJ
19	83-48-7	Stigmasterol	15.702	580	NJ
20	83-47-6	.gamma.-Sitosterol	15.910	980	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-05

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-05A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2324.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/25/2008

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	380	U
111-44-4	Bis(2-chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2´-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
111-91-1	Bis(2-chloroethoxy)methane	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	770	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	770	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	770	U
83-32-9	Acenaphthene	380	U
51-28-5	2,4-Dinitrophenol	770	U
100-02-7	4-Nitrophenol	770	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-05

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-05A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2324.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/25/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	770	U
534-52-1	4,6-Dinitro-2-methylphenol	770	U
86-30-6	N-Nitrosodiphenylamine	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	770	U
85-01-8	Phenanthrene	220	J
120-12-7	Anthracene	380	U
86-74-8	Carbazole	380	U
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	520	
129-00-0	Pyrene	480	
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3´-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	420	
218-01-9	Chrysene	760	
117-81-7	Bis(2-ethylhexyl)phthalate	380	U
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	1000	
207-08-9	Benzo(k)fluoranthene	340	J
50-32-8	Benzo(a)pyrene	630	
193-39-5	Indeno(1,2,3-cd)pyrene	590	
53-70-3	Dibenzo(a,h)anthracene	240	J
191-24-2	Benzo(g,h,i)perylene	680	

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-05

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-05A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2324.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/25/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	87-44-5	Caryophyllene	8.388	320	NJ
02		Unknown-01	10.541	1800	J
03		Unknown-02	11.866	270	J
04	57-10-3	n-Hexadecanoic acid	11.909	260	NJ
05	301-02-0	9-Octadecenamide, (Z)-	13.244	190	NJ
06	74685-33-9	3-Eicosene, (E)-	13.581	170	NJ
07	1705-84-6	Triphenylene, 2-methyl-	13.992	270	NJ
08	593-45-3	Octadecane	14.110	290	NJ
09		Unknown-03	14.339	200	J
10		Unknown-04	14.404	180	J
11	629-92-5	Nonadecane	14.601	210	NJ
12	000130-97-9	E-15-Heptadecenal	14.617	250	NJ
13	192-97-2	Benzo[e]pyrene	14.713	640	NJ
14	83-48-7	Stigmasterol	15.696	740	NJ
15	83-47-6	.gamma.-Sitosterol	15.910	920	NJ
16		Unknown-05	15.964	1200	J
17	1058-61-3	Stigmast-4-en-3-one	16.418	420	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-06

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-06A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2325.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/25/2008

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	390	U
111-44-4	Bis(2-chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	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
95-48-7	2-Methylphenol	390	U
108-60-1	2,2´-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	130	J
106-47-8	4-Chloroaniline	390	U
111-91-1	Bis(2-chloroethoxy)methane	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	150	J
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	790	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	790	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	1300	
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	790	U
83-32-9	Acenaphthene	120	J
51-28-5	2,4-Dinitrophenol	790	U
100-02-7	4-Nitrophenol	790	U
132-64-9	Dibenzofuran	110	J
121-14-2	2,4-Dinitrotoluene	390	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-06

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-06A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2325.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/25/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	130	J
100-01-6	4-Nitroaniline	790	U
534-52-1	4,6-Dinitro-2-methylphenol	790	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	790	U
85-01-8	Phenanthrene	1300	
120-12-7	Anthracene	1400	
86-74-8	Carbazole	320	J
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	4600	
129-00-0	Pyrene	3900	
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	3200	
218-01-9	Chrysene	3900	
117-81-7	Bis(2-ethylhexyl)phthalate	390	U
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	5300	
207-08-9	Benzo(k)fluoranthene	2700	
50-32-8	Benzo(a)pyrene	3500	
193-39-5	Indeno(1,2,3-cd)pyrene	3200	
53-70-3	Dibenzo(a,h)anthracene	1300	
191-24-2	Benzo(g,h,i)perylene	3300	

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1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-06

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-06A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2325.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/25/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.541	1700	J
02		Unknown-02	12.902	210	J
03	243-17-4	11H-Benzo[b]fluorene	12.918	210	NJ
04	2381-21-7	Pyrene, 1-methyl-	13.009	310	NJ
05	479-79-8	11H-Benzo[a]fluoren-11-one	13.367	200	NJ
06	243-46-9	Benzo[b]naphtho[2,3-d]thioph	13.452	230	NJ
07	2541-69-7	Benz[a]anthracene, 7-methyl-	13.997	340	NJ
08		Unknown-03	14.109	330	J
09		Unknown-04	14.403	660	J
10	198-55-0	Perylene	14.595	1400	NJ
11	198-55-0	Perylene	14.729	3600	NJ
12	192-97-2	Benzo[e]pyrene	14.825	1400	NJ
13	630-04-6	Hentriacontane	15.092	690	NJ
14		Unknown-05	15.183	640	J
15		Unknown-06	15.418	750	J
16		Unknown-07	15.541	1100	J
17	213-46-7	1,2:7,8-Dibenzophenanthrene	15.770	1000	NJ
18		Unknown-08	15.973	740	J
19	191-26-4	Dibenzo[def,mno]chrysene	16.016	1300	NJ
20	192-65-4	1,2:4,5-Dibenzopyrene	17.037	1000	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-07

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-07A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2326.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/25/2008

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	370	U
111-44-4	Bis(2-chloroethyl)ether	370	U
95-57-8	2-Chlorophenol	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
95-48-7	2-Methylphenol	370	U
108-60-1	2,2´-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-di-n-propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
111-91-1	Bis(2-chloroethoxy)methane	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-57-6	2-Methylnaphthalene	73	J
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	740	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	740	U
131-11-3	Dimethylphthalate	370	U
208-96-8	Acenaphthylene	190	J
606-20-2	2,6-Dinitrotoluene	370	U
99-09-2	3-Nitroaniline	740	U
83-32-9	Acenaphthene	370	U
51-28-5	2,4-Dinitrophenol	740	U
100-02-7	4-Nitrophenol	740	U
132-64-9	Dibenzofuran	370	U
121-14-2	2,4-Dinitrotoluene	370	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-07

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-07A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2326.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/25/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
86-73-7	Fluorene	370	U
100-01-6	4-Nitroaniline	740	U
534-52-1	4,6-Dinitro-2-methylphenol	740	U
86-30-6	N-Nitrosodiphenylamine	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	740	U
85-01-8	Phenanthrene	200	J
120-12-7	Anthracene	190	J
86-74-8	Carbazole	370	U
84-74-2	Di-n-butylphthalate	370	U
206-44-0	Fluoranthene	500	
129-00-0	Pyrene	560	
85-68-7	Butylbenzylphthalate	370	U
91-94-1	3,3´-Dichlorobenzidine	370	U
56-55-3	Benzo(a)anthracene	430	
218-01-9	Chrysene	680	
117-81-7	Bis(2-ethylhexyl)phthalate	370	U
117-84-0	Di-n-octylphthalate	370	U
205-99-2	Benzo(b)fluoranthene	1000	
207-08-9	Benzo(k)fluoranthene	500	
50-32-8	Benzo(a)pyrene	620	
193-39-5	Indeno(1,2,3-cd)pyrene	530	
53-70-3	Dibenzo(a,h)anthracene	220	J
191-24-2	Benzo(g,h,i)perylene	560	

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-07

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1368
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1368-07A
Sample wt/vol: 30.1 (g/mL) G
Lab File ID: S3F2326.D
Level: (TRACE or LOW/MED) LOW
Extraction: (Type) SONC
% Moisture: 10
Decanted: (Y/N) N
Date Received: 08/21/2008
Concentrated Extract Volume: 1000 (uL)
Date Extracted: 08/21/2008
Injection Volume: 1.0 (uL)
GPC Factor: 1.00
Date Analyzed: 08/25/2008
GPC Cleanup: (Y/N) N
pH:
Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	13.241	240	J
02	27519-02-4	9-Tricosene, (Z)-	13.583	190	NJ
03	638-67-5	Tricosane	14.603	370	NJ
04	192-97-2	Benzo[e]pyrene	14.715	580	NJ
05	83-47-6	.gamma.-Sitosterol	15.912	460	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-08

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-08A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2352.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/26/2008

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	430	U
111-44-4	Bis(2-chloroethyl)ether	430	U
95-57-8	2-Chlorophenol	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
95-48-7	2-Methylphenol	430	U
108-60-1	2,2´-oxybis(1-Chloropropane)	430	U
106-44-5	4-Methylphenol	430	U
621-64-7	N-Nitroso-di-n-propylamine	430	U
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
120-83-2	2,4-Dichlorophenol	430	U
120-82-1	1,2,4-Trichlorobenzene	430	U
91-20-3	Naphthalene	430	U
106-47-8	4-Chloroaniline	430	U
111-91-1	Bis(2-chloroethoxy)methane	430	U
87-68-3	Hexachlorobutadiene	430	U
59-50-7	4-Chloro-3-methylphenol	430	U
91-57-6	2-Methylnaphthalene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	870	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	870	U
131-11-3	Dimethylphthalate	430	U
208-96-8	Acenaphthylene	290	J
606-20-2	2,6-Dinitrotoluene	430	U
99-09-2	3-Nitroaniline	870	U
83-32-9	Acenaphthene	430	U
51-28-5	2,4-Dinitrophenol	870	U
100-02-7	4-Nitrophenol	870	U
132-64-9	Dibenzofuran	430	U
121-14-2	2,4-Dinitrotoluene	430	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-08

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-08A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2352.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	430	U
7005-72-3	4-Chlorophenyl-phenylether	430	U
86-73-7	Fluorene	430	U
100-01-6	4-Nitroaniline	870	U
534-52-1	4,6-Dinitro-2-methylphenol	870	U
86-30-6	N-Nitrosodiphenylamine	430	U
101-55-3	4-Bromophenyl-phenylether	430	U
118-74-1	Hexachlorobenzene	430	U
87-86-5	Pentachlorophenol	870	U
85-01-8	Phenanthrene	1200	
120-12-7	Anthracene	340	J
86-74-8	Carbazole	140	J
84-74-2	Di-n-butylphthalate	430	U
206-44-0	Fluoranthene	2600	
129-00-0	Pyrene	2300	
85-68-7	Butylbenzylphthalate	430	U
91-94-1	3,3´-Dichlorobenzidine	430	U
56-55-3	Benzo(a)anthracene	1500	
218-01-9	Chrysene	1700	
117-81-7	Bis(2-ethylhexyl)phthalate	430	U
117-84-0	Di-n-octylphthalate	430	U
205-99-2	Benzo(b)fluoranthene	2100	
207-08-9	Benzo(k)fluoranthene	970	
50-32-8	Benzo(a)pyrene	1400	
193-39-5	Indeno(1,2,3-cd)pyrene	980	
53-70-3	Dibenzo(a,h)anthracene	350	J
191-24-2	Benzo(g,h,i)perylene	1000	

SW846

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SI-SS-08

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-08A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2352.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	610-48-0	Anthracene, 1-methyl-	11.779	280	NJ
02	203-64-5	4H-Cyclopenta[def]phenanthre	11.854	320	NJ
03	5672-97-9	5,16[1',2']:8,13[1'',2'']-Di	12.052	310	NJ
04	781-92-0	Anthracene, 1,4-dimethyl-	12.281	310	NJ
05	5737-13-3	Cyclopenta(def)phenanthrenon	12.356	520	NJ
06	3442-78-2	Pyrene, 2-methyl-	12.912	220	NJ
07	3442-78-2	Pyrene, 2-methyl-	13.002	280	NJ
08	2136-72-3	Ethanol, 2-(octadecyloxy)-	13.579	240	NJ
09	1705-84-6	Triphenylene, 2-methyl-	13.985	210	NJ
10	1560-88-9	Octadecane, 2-methyl-	14.098	480	NJ
11	111-02-4	2,6,10,14,18,22-Tetracosahex	14.391	260	NJ
12	629-99-2	Pentacosane	14.584	1500	NJ
13	18835-33-1	1-Hexacosene	14.605	530	NJ
14	192-97-2	Benzo[e]pyrene	14.696	970	NJ
15	630-02-4	Octacosane	15.065	600	NJ
16		Unknown-01	15.647	570	J
17	83-47-6	.gamma.-Sitosterol	15.887	1200	NJ
18		Unknown-02	16.341	570	J
19		Unknown-03	16.395	700	J
20		Unknown-04	16.432	420	J
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-09

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-09A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2353.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 27 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/26/2008

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	130	J
111-44-4	Bis(2-chloroethyl)ether	440	U
95-57-8	2-Chlorophenol	440	U
541-73-1	1,3-Dichlorobenzene	440	U
106-46-7	1,4-Dichlorobenzene	440	U
95-50-1	1,2-Dichlorobenzene	440	U
95-48-7	2-Methylphenol	440	U
108-60-1	2,2'-oxybis(1-Chloropropane)	440	U
106-44-5	4-Methylphenol	440	U
621-64-7	N-Nitroso-di-n-propylamine	440	U
67-72-1	Hexachloroethane	440	U
98-95-3	Nitrobenzene	440	U
78-59-1	Isophorone	440	U
88-75-5	2-Nitrophenol	440	U
105-67-9	2,4-Dimethylphenol	440	U
120-83-2	2,4-Dichlorophenol	440	U
120-82-1	1,2,4-Trichlorobenzene	440	U
91-20-3	Naphthalene	350	J
106-47-8	4-Chloroaniline	440	U
111-91-1	Bis(2-chloroethoxy)methane	440	U
87-68-3	Hexachlorobutadiene	440	U
59-50-7	4-Chloro-3-methylphenol	440	U
91-57-6	2-Methylnaphthalene	190	J
77-47-4	Hexachlorocyclopentadiene	440	U
88-06-2	2,4,6-Trichlorophenol	440	U
95-95-4	2,4,5-Trichlorophenol	900	U
91-58-7	2-Chloronaphthalene	440	U
88-74-4	2-Nitroaniline	900	U
131-11-3	Dimethylphthalate	440	U
208-96-8	Acenaphthylene	850	
606-20-2	2,6-Dinitrotoluene	440	U
99-09-2	3-Nitroaniline	900	U
83-32-9	Acenaphthene	370	J
51-28-5	2,4-Dinitrophenol	900	U
100-02-7	4-Nitrophenol	900	U
132-64-9	Dibenzofuran	350	J
121-14-2	2,4-Dinitrotoluene	440	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-09

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-09A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2353.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 27 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	440	U
7005-72-3	4-Chlorophenyl-phenylether	440	U
86-73-7	Fluorene	430	J
100-01-6	4-Nitroaniline	900	U
534-52-1	4,6-Dinitro-2-methylphenol	900	U
86-30-6	N-Nitrosodiphenylamine	440	U
101-55-3	4-Bromophenyl-phenylether	440	U
118-74-1	Hexachlorobenzene	440	U
87-86-5	Pentachlorophenol	900	U
85-01-8	Phenanthrene	3900	
120-12-7	Anthracene	1400	
86-74-8	Carbazole	680	
84-74-2	Di-n-butylphthalate	440	U
206-44-0	Fluoranthene	6100	
129-00-0	Pyrene	4900	
85-68-7	Butylbenzylphthalate	440	U
91-94-1	3,3´-Dichlorobenzidine	440	U
56-55-3	Benzo(a)anthracene	3800	
218-01-9	Chrysene	4300	
117-81-7	Bis(2-ethylhexyl)phthalate	440	U
117-84-0	Di-n-octylphthalate	440	U
205-99-2	Benzo(b)fluoranthene	5200	
207-08-9	Benzo(k)fluoranthene	2600	
50-32-8	Benzo(a)pyrene	3600	
193-39-5	Indeno(1,2,3-cd)pyrene	3000	
53-70-3	Dibenzo(a,h)anthracene	1200	
191-24-2	Benzo(g,h,i)perylene	3200	

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-09

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-09A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2353.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 27 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	5737-13-3	Cyclopenta(def)phenanthrenon	12.356	1100	NJ
02	3442-78-2	Pyrene, 2-methyl-	13.003	430	NJ
03	593-45-3	Octadecane	14.109	560	NJ
04		Unknown-01	14.402	950	J
05	630-03-5	Nonacosane	14.605	5700	NJ
06	297-03-0	Cyclotetracosane	14.621	2200	NJ
07	192-97-2	Benzo[e]pyrene	14.723	3700	NJ
08	7616-22-0	.gamma.-Tocopherol	15.022	920	NJ
09	630-04-6	Hentriacontane	15.086	2400	NJ
10		Unknown-02	15.118	1900	J
11		Unknown-03	15.156	1600	J
12	10191-41-0	Vitamin E	15.230	1500	NJ
13		Unknown-04	15.300	1100	J
14		Unknown-05	15.775	2300	J
15	83-47-6	.gamma.-Sitosterol	15.925	7600	NJ
16		Unknown-06	16.310	1100	J
17		Unknown-07	16.379	2500	J
18		Unknown-08	16.438	4500	J
19	1449-09-8	9,19-Cyclolanostan-3-ol, 24-	16.470	3400	NJ
20	192-65-4	1,2:4,5-Dibenzopyrene	17.031	1200	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-10

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-10A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2354.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/26/2008

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
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
95-50-1	1,2-Dichlorobenzene	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
120-82-1	1,2,4-Trichlorobenzene	410	U
91-20-3	Naphthalene	200	J
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	190	J
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	820	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	820	U
131-11-3	Dimethylphthalate	410	U
208-96-8	Acenaphthylene	630	
606-20-2	2,6-Dinitrotoluene	410	U
99-09-2	3-Nitroaniline	820	U
83-32-9	Acenaphthene	96	J
51-28-5	2,4-Dinitrophenol	820	U
100-02-7	4-Nitrophenol	820	U
132-64-9	Dibenzofuran	160	J
121-14-2	2,4-Dinitrotoluene	410	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-10

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-10A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2354.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
86-73-7	Fluorene	120	J
100-01-6	4-Nitroaniline	820	U
534-52-1	4,6-Dinitro-2-methylphenol	820	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	820	U
85-01-8	Phenanthrene	1500	
120-12-7	Anthracene	640	
86-74-8	Carbazole	300	J
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	3200	
129-00-0	Pyrene	2500	
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3´-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	1800	
218-01-9	Chrysene	2400	
117-81-7	Bis(2-ethylhexyl)phthalate	410	U
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	2600	
207-08-9	Benzo(k)fluoranthene	1300	
50-32-8	Benzo(a)pyrene	1700	
193-39-5	Indeno(1,2,3-cd)pyrene	1200	
53-70-3	Dibenzo(a,h)anthracene	480	
191-24-2	Benzo(g,h,i)perylene	1200	

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-10

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-10A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2354.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	1921-70-6	Pentadecane, 2,6,10,14-tetra	10.744	320	NJ
02	000297-95-5	4-((1E)-3-Hydroxy-1-propenyl	10.968	370	NJ
03	629-92-5	Nonadecane	11.663	300	NJ
04	832-69-9	Phenanthrene, 1-methyl-	11.759	330	NJ
05	613-12-7	Anthracene, 2-methyl-	11.786	360	NJ
06	203-64-5	4H-Cyclopenta[def]phenanthre	11.855	440	NJ
07	612-94-2	Naphthalene, 2-phenyl-	12.053	560	NJ
08	3674-66-6	Phenanthrene, 2,5-dimethyl-	12.288	410	NJ
09		Unknown-01	12.363	600	J
10	243-17-4	11H-Benzo[b]fluorene	12.918	350	NJ
11	3442-78-2	Pyrene, 2-methyl-	13.004	340	NJ
12	479-79-8	11H-Benzo[a]fluoren-11-one	13.362	230	NJ
13	243-46-9	Benzo[b]naphtho[2,3-d]thioph	13.447	220	NJ
14		Unknown-02	13.581	180	J
15	3351-28-8	Chrysene, 1-methyl-	13.992	310	NJ
16		Unknown-03	14.099	320	J
17		Unknown-04	14.398	390	J
18	192-97-2	Benzo[e]pyrene	14.590	940	NJ
19	192-97-2	Benzo[e]pyrene	14.713	1700	NJ
20	630-04-6	Hentriacontane	15.077	460	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-11

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-11A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3F2411.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 26 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 4.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1800	U
111-44-4	Bis(2-chloroethyl)ether	1800	U
95-57-8	2-Chlorophenol	1800	U
541-73-1	1,3-Dichlorobenzene	1800	U
106-46-7	1,4-Dichlorobenzene	1800	U
95-50-1	1,2-Dichlorobenzene	1800	U
95-48-7	2-Methylphenol	1800	U
108-60-1	2,2'-oxybis(1-Chloropropane)	1800	U
106-44-5	4-Methylphenol	1800	U
621-64-7	N-Nitroso-di-n-propylamine	1800	U
67-72-1	Hexachloroethane	1800	U
98-95-3	Nitrobenzene	1800	U
78-59-1	Isophorone	1800	U
88-75-5	2-Nitrophenol	1800	U
105-67-9	2,4-Dimethylphenol	1800	U
120-83-2	2,4-Dichlorophenol	1800	U
120-82-1	1,2,4-Trichlorobenzene	1800	U
91-20-3	Naphthalene	600	J
106-47-8	4-Chloroaniline	1800	U
111-91-1	Bis(2-chloroethoxy)methane	1800	U
87-68-3	Hexachlorobutadiene	1800	U
59-50-7	4-Chloro-3-methylphenol	1800	U
91-57-6	2-Methylnaphthalene	490	J
77-47-4	Hexachlorocyclopentadiene	1800	U
88-06-2	2,4,6-Trichlorophenol	1800	U
95-95-4	2,4,5-Trichlorophenol	3600	U
91-58-7	2-Chloronaphthalene	1800	U
88-74-4	2-Nitroaniline	3600	U
131-11-3	Dimethylphthalate	1800	U
208-96-8	Acenaphthylene	2300	
606-20-2	2,6-Dinitrotoluene	1800	U
99-09-2	3-Nitroaniline	3600	U
83-32-9	Acenaphthene	510	J
51-28-5	2,4-Dinitrophenol	3600	U
100-02-7	4-Nitrophenol	3600	U
132-64-9	Dibenzofuran	910	J
121-14-2	2,4-Dinitrotoluene	1800	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-11

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-11A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3F2411.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 26 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 4.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	1800	U
7005-72-3	4-Chlorophenyl-phenylether	1800	U
86-73-7	Fluorene	980	J
100-01-6	4-Nitroaniline	3600	U
534-52-1	4,6-Dinitro-2-methylphenol	3600	U
86-30-6	N-Nitrosodiphenylamine	1800	U
101-55-3	4-Bromophenyl-phenylether	1800	U
118-74-1	Hexachlorobenzene	1800	U
87-86-5	Pentachlorophenol	3600	U
85-01-8	Phenanthrene	13000	
120-12-7	Anthracene	2700	
86-74-8	Carbazole	1700	J
84-74-2	Di-n-butylphthalate	1800	U
206-44-0	Fluoranthene	20000	
129-00-0	Pyrene	15000	
85-68-7	Butylbenzylphthalate	1800	U
91-94-1	3,3´-Dichlorobenzidine	1800	U
56-55-3	Benzo(a)anthracene	9800	
218-01-9	Chrysene	11000	
117-81-7	Bis(2-ethylhexyl)phthalate	1800	U
117-84-0	Di-n-octylphthalate	1800	U
205-99-2	Benzo(b)fluoranthene	13000	
207-08-9	Benzo(k)fluoranthene	5700	
50-32-8	Benzo(a)pyrene	8800	
193-39-5	Indeno(1,2,3-cd)pyrene	5500	
53-70-3	Dibenzo(a,h)anthracene	2200	
191-24-2	Benzo(g,h,i)perylene	5500	

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-11

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-11A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3F2411.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 26 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 4.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	2531-84-2	Phenanthrene, 2-methyl-	11.695	1600	NJ
02	613-12-7	Anthracene, 2-methyl-	11.722	1700	NJ
03	203-64-5	4H-Cyclopenta[def]phenanthre	11.797	2100	NJ
04	612-94-2	Naphthalene, 2-phenyl-	11.994	1500	NJ
05	84-65-1	9,10-Anthracenedione	12.021	1900	NJ
06	243-17-4	11H-Benzo[b]fluorene	12.860	1100	NJ
07	3442-78-2	Pyrene, 2-methyl-	12.951	1200	NJ
08	479-79-8	11H-Benzo[a]fluoren-11-one	13.309	820	NJ
09	243-46-9	Benzo[b]naphtho[2,3-d]thioph	13.389	940	NJ
10	479-79-8	11H-Benzo[a]fluoren-11-one	13.485	810	NJ
11	1705-84-6	Triphenylene, 2-methyl-	13.939	1000	NJ
12	629-97-0	Docosane	14.051	1300	NJ
13		Unknown-01	14.340	1500	J
14	205-99-2	Benz[e]acephenanthrylene	14.527	2200	NJ
15	192-97-2	Benzo[e]pyrene	14.655	7200	NJ
16	198-55-0	Perylene	14.756	3300	NJ
17	83-47-6	.gamma.-Sitosterol	15.819	2800	NJ
18		Unknown-02	16.322	2000	J
19	5385-75-1	Dibenz(a,e)aceanthrylene	16.904	3200	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-12

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-12A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2412.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 4.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1500	U
111-44-4	Bis(2-chloroethyl)ether	1500	U
95-57-8	2-Chlorophenol	1500	U
541-73-1	1,3-Dichlorobenzene	1500	U
106-46-7	1,4-Dichlorobenzene	1500	U
95-50-1	1,2-Dichlorobenzene	1500	U
95-48-7	2-Methylphenol	1500	U
108-60-1	2,2´-oxybis(1-Chloropropane)	1500	U
106-44-5	4-Methylphenol	1500	U
621-64-7	N-Nitroso-di-n-propylamine	1500	U
67-72-1	Hexachloroethane	1500	U
98-95-3	Nitrobenzene	1500	U
78-59-1	Isophorone	1500	U
88-75-5	2-Nitrophenol	1500	U
105-67-9	2,4-Dimethylphenol	1500	U
120-83-2	2,4-Dichlorophenol	1500	U
120-82-1	1,2,4-Trichlorobenzene	1500	U
91-20-3	Naphthalene	1500	U
106-47-8	4-Chloroaniline	1500	U
111-91-1	Bis(2-chloroethoxy)methane	1500	U
87-68-3	Hexachlorobutadiene	1500	U
59-50-7	4-Chloro-3-methylphenol	1500	U
91-57-6	2-Methylnaphthalene	1500	U
77-47-4	Hexachlorocyclopentadiene	1500	U
88-06-2	2,4,6-Trichlorophenol	1500	U
95-95-4	2,4,5-Trichlorophenol	3000	U
91-58-7	2-Chloronaphthalene	1500	U
88-74-4	2-Nitroaniline	3000	U
131-11-3	Dimethylphthalate	1500	U
208-96-8	Acenaphthylene	1500	U
606-20-2	2,6-Dinitrotoluene	1500	U
99-09-2	3-Nitroaniline	3000	U
83-32-9	Acenaphthene	1500	U
51-28-5	2,4-Dinitrophenol	3000	U
100-02-7	4-Nitrophenol	3000	U
132-64-9	Dibenzofuran	1500	U
121-14-2	2,4-Dinitrotoluene	1500	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-12

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-12A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2412.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 4.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	1500	U
7005-72-3	4-Chlorophenyl-phenylether	1500	U
86-73-7	Fluorene	1500	U
100-01-6	4-Nitroaniline	3000	U
534-52-1	4,6-Dinitro-2-methylphenol	3000	U
86-30-6	N-Nitrosodiphenylamine	1500	U
101-55-3	4-Bromophenyl-phenylether	1500	U
118-74-1	Hexachlorobenzene	1500	U
87-86-5	Pentachlorophenol	3000	U
85-01-8	Phenanthrene	4200	
120-12-7	Anthracene	860	J
86-74-8	Carbazole	470	J
84-74-2	Di-n-butylphthalate	1500	U
206-44-0	Fluoranthene	13000	
129-00-0	Pyrene	11000	
85-68-7	Butylbenzylphthalate	1500	U
91-94-1	3,3´-Dichlorobenzidine	1500	U
56-55-3	Benzo(a)anthracene	12000	
218-01-9	Chrysene	14000	
117-81-7	Bis(2-ethylhexyl)phthalate	1500	U
117-84-0	Di-n-octylphthalate	1500	U
205-99-2	Benzo(b)fluoranthene	21000	
207-08-9	Benzo(k)fluoranthene	7800	
50-32-8	Benzo(a)pyrene	12000	
193-39-5	Indeno(1,2,3-cd)pyrene	11000	
53-70-3	Dibenzo(a,h)anthracene	4700	
191-24-2	Benzo(g,h,i)perylene	13000	

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-12

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1368
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1368-12A
Sample wt/vol: 30.4 (g/mL) G
Lab File ID: S3F2412.D
Level: (TRACE or LOW/MED) LOW
Extraction: (Type) SONC
% Moisture: 13
Decanted: (Y/N) N
Date Received: 08/21/2008
Concentrated Extract Volume: 1000 (uL)
Date Extracted: 08/21/2008
Injection Volume: 1.0 (uL)
GPC Factor: 1.00
Date Analyzed: 08/28/2008
GPC Cleanup: (Y/N) N
pH:
Dilution Factor: 4.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	33543-31-6	Fluoranthene, 2-methyl-	12.859	720	NJ
02	239-35-0	Benzo[b]naphtho[2,1-d]thioph	13.388	750	NJ
03		Unknown-01	14.339	1300	J
04	198-55-0	Perylene	14.526	3000	NJ
05	198-55-0	Perylene	14.654	12000	NJ
06	192-97-2	Benzo[e]pyrene	14.745	4000	NJ
07	112-95-8	Eicosane	15.012	1700	NJ
08	000294-14-8	Benzoxazole, 2-[2-(4-piperid	15.386	1100	NJ
09		Unknown-02	15.445	2400	J
10	215-58-7	Benzo[b]triphenylene	15.637	2100	NJ
11	135-48-8	Pentacene	15.669	3300	NJ
12	191-26-4	Dibenzo[def,mno]chrysene	15.904	3200	NJ
13		Unknown-03	16.310	1700	J
14	192-65-4	1,2:4,5-Dibenzopyrene	16.898	6600	NJ
15	189-55-9	3,4:9,10-Dibenzopyrene	16.994	5000	NJ
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-13

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-13A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3F2359.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/26/2008

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
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
95-50-1	1,2-Dichlorobenzene	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
120-82-1	1,2,4-Trichlorobenzene	420	U
91-20-3	Naphthalene	170	J
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	170	J
606-20-2	2,6-Dinitrotoluene	420	U
99-09-2	3-Nitroaniline	850	U
83-32-9	Acenaphthene	190	J
51-28-5	2,4-Dinitrophenol	850	U
100-02-7	4-Nitrophenol	850	U
132-64-9	Dibenzofuran	120	J
121-14-2	2,4-Dinitrotoluene	420	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-13

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-13A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3F2359.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
86-73-7	Fluorene	190	J
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	3000	
120-12-7	Anthracene	760	
86-74-8	Carbazole	580	
84-74-2	Di-n-butylphthalate	420	U
206-44-0	Fluoranthene	5400	
129-00-0	Pyrene	4000	
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3´-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	2600	
218-01-9	Chrysene	2800	
117-81-7	Bis(2-ethylhexyl)phthalate	420	U
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	3300	
207-08-9	Benzo(k)fluoranthene	1200	
50-32-8	Benzo(a)pyrene	2200	
193-39-5	Indeno(1,2,3-cd)pyrene	1500	
53-70-3	Dibenzo(a,h)anthracene	570	
191-24-2	Benzo(g,h,i)perylene	1500	

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-13

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-13A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3F2359.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	832-69-9	Phenanthrene, 1-methyl-	11.760	330	NJ
02	832-71-3	Phenanthrene, 3-methyl-	11.787	410	NJ
03	203-64-5	4H-Cyclopenta[def]phenanthre	11.861	640	NJ
04	613-12-7	Anthracene, 2-methyl-	11.888	340	NJ
05	243-17-4	11H-Benzo[b]fluorene	12.924	300	NJ
06	2381-21-7	Pyrene, 1-methyl-	13.010	270	NJ
07		Unknown-01	13.368	220	J
08	243-46-9	Benzo[b]naphtho[2,3-d]thioph	13.448	190	NJ
09	479-79-8	11H-Benzo[a]fluoren-11-one	13.544	190	NJ
10		Unknown-02	13.843	170	J
11	191-07-1	Coronene	13.875	660	NJ
12	2541-69-7	Benz[a]anthracene, 7-methyl-	13.998	250	NJ
13		Unknown-03	14.105	240	J
14		Unknown-04	14.404	1200	J
15	198-55-0	Perylene	14.596	1100	NJ
16	192-97-2	Benzo[e]pyrene	14.719	1800	NJ
17		Unknown-05	15.115	750	J
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-14

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-14A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2413.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 4.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1500	U
111-44-4	Bis(2-chloroethyl)ether	1500	U
95-57-8	2-Chlorophenol	1500	U
541-73-1	1,3-Dichlorobenzene	1500	U
106-46-7	1,4-Dichlorobenzene	1500	U
95-50-1	1,2-Dichlorobenzene	1500	U
95-48-7	2-Methylphenol	1500	U
108-60-1	2,2´-oxybis(1-Chloropropane)	1500	U
106-44-5	4-Methylphenol	1500	U
621-64-7	N-Nitroso-di-n-propylamine	1500	U
67-72-1	Hexachloroethane	1500	U
98-95-3	Nitrobenzene	1500	U
78-59-1	Isophorone	1500	U
88-75-5	2-Nitrophenol	1500	U
105-67-9	2,4-Dimethylphenol	1500	U
120-83-2	2,4-Dichlorophenol	1500	U
120-82-1	1,2,4-Trichlorobenzene	1500	U
91-20-3	Naphthalene	620	J
106-47-8	4-Chloroaniline	1500	U
111-91-1	Bis(2-chloroethoxy)methane	1500	U
87-68-3	Hexachlorobutadiene	1500	U
59-50-7	4-Chloro-3-methylphenol	1500	U
91-57-6	2-Methylnaphthalene	1500	U
77-47-4	Hexachlorocyclopentadiene	1500	U
88-06-2	2,4,6-Trichlorophenol	1500	U
95-95-4	2,4,5-Trichlorophenol	3100	U
91-58-7	2-Chloronaphthalene	1500	U
88-74-4	2-Nitroaniline	3100	U
131-11-3	Dimethylphthalate	1500	U
208-96-8	Acenaphthylene	630	J
606-20-2	2,6-Dinitrotoluene	1500	U
99-09-2	3-Nitroaniline	3100	U
83-32-9	Acenaphthene	830	J
51-28-5	2,4-Dinitrophenol	3100	U
100-02-7	4-Nitrophenol	3100	U
132-64-9	Dibenzofuran	420	J
121-14-2	2,4-Dinitrotoluene	1500	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-14

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-14A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2413.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 4.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	1500	U
7005-72-3	4-Chlorophenyl-phenylether	1500	U
86-73-7	Fluorene	930	J
100-01-6	4-Nitroaniline	3100	U
534-52-1	4,6-Dinitro-2-methylphenol	3100	U
86-30-6	N-Nitrosodiphenylamine	1500	U
101-55-3	4-Bromophenyl-phenylether	1500	U
118-74-1	Hexachlorobenzene	1500	U
87-86-5	Pentachlorophenol	3100	U
85-01-8	Phenanthrene	12000	
120-12-7	Anthracene	3000	
86-74-8	Carbazole	2300	
84-74-2	Di-n-butylphthalate	1500	U
206-44-0	Fluoranthene	21000	
129-00-0	Pyrene	16000	
85-68-7	Butylbenzylphthalate	1500	U
91-94-1	3,3´-Dichlorobenzidine	1500	U
56-55-3	Benzo(a)anthracene	11000	
218-01-9	Chrysene	11000	
117-81-7	Bis(2-ethylhexyl)phthalate	1500	U
117-84-0	Di-n-octylphthalate	1500	U
205-99-2	Benzo(b)fluoranthene	11000	
207-08-9	Benzo(k)fluoranthene	4600	
50-32-8	Benzo(a)pyrene	7500	
193-39-5	Indeno(1,2,3-cd)pyrene	4100	
53-70-3	Dibenzo(a,h)anthracene	1400	J
191-24-2	Benzo(g,h,i)perylene	4200	

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1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-14

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-14A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2413.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 4.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	832-69-9	Phenanthrene, 1-methyl-	11.695	1500	NJ
02	2531-84-2	Phenanthrene, 2-methyl-	11.722	1900	NJ
03	203-64-5	4H-Cyclopenta[def]phenanthre	11.796	3100	NJ
04	612-94-2	Naphthalene, 2-phenyl-	11.994	1300	NJ
05	243-17-4	11H-Benzo[b]fluorene	12.769	640	NJ
06	243-17-4	11H-Benzo[b]fluorene	12.865	1700	NJ
07		Unknown-01	12.918	840	J
08	2381-21-7	Pyrene, 1-methyl-	12.950	1100	NJ
09	84-15-1	o-Terphenyl	13.228	870	NJ
10	479-79-8	11H-Benzo[a]fluoren-11-one	13.308	750	NJ
11	243-46-9	Benzo[b]naphtho[2,3-d]thioph	13.388	1300	NJ
12		Unknown-02	13.410	790	J
13		Unknown-03	13.431	700	J
14	2498-75-1	Benz[a]anthracene, 3-methyl-	13.933	690	NJ
15	198-55-0	Perylene	14.521	1700	NJ
16	198-55-0	Perylene	14.649	5000	NJ
17	191-26-4	Dibenzo[def,mno]chrysene	15.894	1500	NJ
18	5385-75-1	Dibenz(a,e)aceanthrylene	16.882	1900	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-15

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-15A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2361.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/26/2008

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	380	U
111-44-4	Bis(2-chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2´-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
111-91-1	Bis(2-chloroethoxy)methane	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	780	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	780	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	780	U
83-32-9	Acenaphthene	380	U
51-28-5	2,4-Dinitrophenol	780	U
100-02-7	4-Nitrophenol	780	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-15

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-15A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2361.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	780	U
534-52-1	4,6-Dinitro-2-methylphenol	780	U
86-30-6	N-Nitrosodiphenylamine	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	780	U
85-01-8	Phenanthrene	250	J
120-12-7	Anthracene	380	U
86-74-8	Carbazole	380	U
84-74-2	Di-n-butylphthalate	190	J
206-44-0	Fluoranthene	510	
129-00-0	Pyrene	610	
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3´-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	660	
218-01-9	Chrysene	1100	
117-81-7	Bis(2-ethylhexyl)phthalate	660	
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	710	
207-08-9	Benzo(k)fluoranthene	260	J
50-32-8	Benzo(a)pyrene	700	
193-39-5	Indeno(1,2,3-cd)pyrene	370	J
53-70-3	Dibenzo(a,h)anthracene	250	J
191-24-2	Benzo(g,h,i)perylene	640	

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-15

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-15A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2361.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	2381-21-7	Pyrene, 1-methyl-	13.009	330	NJ
02	243-46-9	Benzo[b]naphtho[2,3-d]thioph	13.447	320	NJ
03	24360-63-2	Benzo[b]naphtho[2,3-d]thioph	13.741	280	NJ
04		Unknown-01	13.805	830	J
05	3351-28-8	Chrysene, 1-methyl-	14.002	690	NJ
06	1705-84-6	Triphenylene, 2-methyl-	14.029	340	NJ
07	544-76-3	Hexadecane	14.109	460	NJ
08		Unknown-02	14.296	530	J
09	54986-63-9	Benzo[c]phenanthrene, 5,8-di	14.328	230	NJ
10	57-97-6	Benz[a]anthracene, 7,12-dime	14.355	400	NJ
11		Unknown-03	14.408	260	J
12	630-03-5	Nonacosane	14.606	580	NJ
13	56221-91-1	13-Tetradecen-1-ol acetate	14.627	200	NJ
14	192-97-2	Benzo[e]pyrene	14.729	840	NJ
15	24471-47-4	Perylene, 3-methyl-	15.001	290	NJ
16		Unknown-04	15.023	510	J
17	629-92-5	Nonadecane	15.092	450	NJ
18		Unknown-05	15.717	500	J
19	83-47-6	.gamma.-Sitosterol	15.926	810	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-16

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-16A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2362.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/27/2008

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	380	U
111-44-4	Bis(2-chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2´-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
111-91-1	Bis(2-chloroethoxy)methane	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	760	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	760	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	760	U
83-32-9	Acenaphthene	100	J
51-28-5	2,4-Dinitrophenol	760	U
100-02-7	4-Nitrophenol	760	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-16

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-16A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2362.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/27/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	760	U
534-52-1	4,6-Dinitro-2-methylphenol	760	U
86-30-6	N-Nitrosodiphenylamine	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	760	U
85-01-8	Phenanthrene	1200	
120-12-7	Anthracene	230	J
86-74-8	Carbazole	160	J
84-74-2	Di-n-butylphthalate	280	J
206-44-0	Fluoranthene	3300	
129-00-0	Pyrene	3000	
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3´-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	2900	
218-01-9	Chrysene	3500	
117-81-7	Bis(2-ethylhexyl)phthalate	380	U
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	5500	
207-08-9	Benzo(k)fluoranthene	2600	
50-32-8	Benzo(a)pyrene	3500	
193-39-5	Indeno(1,2,3-cd)pyrene	3200	
53-70-3	Dibenzo(a,h)anthracene	1200	
191-24-2	Benzo(g,h,i)perylene	3500	

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1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-16

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-16A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2362.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/27/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	203-64-5	4H-Cyclopenta[def]phenanthre	11.860	240	NJ
02	243-17-4	11H-Benzo[b]fluorene	12.923	180	NJ
03	3353-12-6	Pyrene, 4-methyl-	13.009	170	NJ
04	243-46-9	Benzo[b]naphtho[2,3-d]thioph	13.452	200	NJ
05	296-56-0	Cycloeicosane	13.586	160	NJ
06	3351-28-8	Chrysene, 1-methyl-	13.997	210	NJ
07		Unknown-01	14.408	370	J
08	192-97-2	Benzo[e]pyrene	14.601	730	NJ
09	198-55-0	Perylene	14.729	3300	NJ
10	198-55-0	Perylene	14.825	1300	NJ
11		Unknown-02	14.916	240	J
12		Unknown-03	15.546	540	J
13	213-46-7	1,2:7,8-Dibenzophenanthrene	15.744	350	NJ
14	215-58-7	Benzo[b]triphenylene	15.776	900	NJ
15		Unknown-04	15.974	860	J
16	191-26-4	Dibenzo[def,mno]chrysene	16.022	1100	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-17

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-17A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2363.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/27/2008

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
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
95-50-1	1,2-Dichlorobenzene	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
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	120	J
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	160	J
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	240	J
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	820	U
83-32-9	Acenaphthene	110	J
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

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1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-17

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-17A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2363.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/27/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
86-73-7	Fluorene	400	U
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	1100	
120-12-7	Anthracene	340	J
86-74-8	Carbazole	150	J
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	2500	
129-00-0	Pyrene	2300	
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	2100	
218-01-9	Chrysene	2500	
117-81-7	Bis(2-ethylhexyl)phthalate	400	U
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	3600	
207-08-9	Benzo(k)fluoranthene	1600	
50-32-8	Benzo(a)pyrene	2600	
193-39-5	Indeno(1,2,3-cd)pyrene	2300	
53-70-3	Dibenzo(a,h)anthracene	970	
191-24-2	Benzo(g,h,i)perylene	2600	

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1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-17

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1368
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1368-17A
Sample wt/vol: 30.2 (g/mL) G
Lab File ID: S3F2363.D
Level: (TRACE or LOW/MED) LOW
Extraction: (Type) SONC
% Moisture: 19
Decanted: (Y/N) N
Date Received: 08/21/2008
Concentrated Extract Volume: 1000 (uL)
Date Extracted: 08/21/2008
Injection Volume: 1.0 (uL)
GPC Factor: 1.00
Date Analyzed: 08/27/2008
GPC Cleanup: (Y/N) N
pH:
Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	581-40-8	Naphthalene, 2,3-dimethyl-	8.387	340	NJ
02	91-64-5	2H-1-Benzopyran-2-one	8.633	270	NJ
03	872-05-9	1-Decene	8.980	690	NJ
04		Unknown-01	10.540	1400	J
05	294-62-2	Cyclododecane	10.689	720	NJ
06	33543-31-6	Fluoranthene, 2-methyl-	12.922	250	NJ
07	3353-12-6	Pyrene, 4-methyl-	13.013	270	NJ
08	3353-12-6	Pyrene, 4-methyl-	13.115	180	NJ
09		Unknown-02	13.750	170	J
10	2541-69-7	Benz[a]anthracene, 7-methyl-	14.001	280	NJ
11		Unknown-03	14.119	350	J
12	54986-63-9	Benzo[c]phenanthrene, 5,8-di	14.354	390	NJ
13		Unknown-04	14.407	430	J
14	205-82-3	Benzo[j]fluoranthene	14.600	950	NJ
15	297-03-0	Cyclotetracosane	14.626	350	NJ
16	198-55-0	Perylene	14.728	2500	NJ
17	630-03-5	Nonacosane	15.091	540	NJ
18	469-38-5	9,19-Cyclolanost-24-en-3-ol,	15.786	2500	NJ
19		Unknown-05	15.973	1000	J
20	191-26-4	Dibenzo[def,mno]chrysene	16.021	1200	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

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1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-18

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-18A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2364.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/27/2008

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
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
95-50-1	1,2-Dichlorobenzene	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
120-82-1	1,2,4-Trichlorobenzene	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	860	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	860	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	860	U
83-32-9	Acenaphthene	420	U
51-28-5	2,4-Dinitrophenol	860	U
100-02-7	4-Nitrophenol	860	U
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U

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1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-18

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-18A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2364.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/27/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
86-73-7	Fluorene	420	U
100-01-6	4-Nitroaniline	860	U
534-52-1	4,6-Dinitro-2-methylphenol	860	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	860	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	420	U
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	130	J
117-81-7	Bis(2-ethylhexyl)phthalate	150	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

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-18

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-18A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2364.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/27/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	5989-27-5	D-Limonene	4.014	400	NJ
02	872-05-9	1-Decene	8.982	890	NJ
03	294-62-2	Cyclododecane	10.686	880	NJ
04	000297-95-5	4-((1E)-3-Hydroxy-1-propenyl	10.969	220	NJ
05		Unknown-01	11.738	220	J
06		Unknown-02	12.043	430	J
07		Unknown-03	12.289	270	J
08		Unknown-04	12.363	1400	J
09		Unknown-05	13.015	570	J
10	301-02-0	9-Octadecenamide, (Z)-	13.250	310	NJ
11		Unknown-06	13.384	230	J
12		Unknown-07	13.827	560	J
13	629-78-7	Heptadecane	14.110	230	NJ
14	638-67-5	Tricosane	14.612	580	NJ
15	630-02-4	Octacosane	15.099	720	NJ
16	7494-34-0	26-Nor-5-cholesten-3.beta.-o	15.312	410	NJ
17	6785-58-6	Stigmasta-7,25-dien-3-ol, (3	15.927	1300	NJ
18		Unknown-08	16.028	780	J
19		Unknown-09	16.653	2600	J
20		Unknown-10	16.968	1300	J
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-19

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-19A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2414.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 4.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1500	U
111-44-4	Bis(2-chloroethyl)ether	1500	U
95-57-8	2-Chlorophenol	1500	U
541-73-1	1,3-Dichlorobenzene	1500	U
106-46-7	1,4-Dichlorobenzene	1500	U
95-50-1	1,2-Dichlorobenzene	1500	U
95-48-7	2-Methylphenol	1500	U
108-60-1	2,2´-oxybis(1-Chloropropane)	1500	U
106-44-5	4-Methylphenol	1500	U
621-64-7	N-Nitroso-di-n-propylamine	1500	U
67-72-1	Hexachloroethane	1500	U
98-95-3	Nitrobenzene	1500	U
78-59-1	Isophorone	1500	U
88-75-5	2-Nitrophenol	1500	U
105-67-9	2,4-Dimethylphenol	1500	U
120-83-2	2,4-Dichlorophenol	1500	U
120-82-1	1,2,4-Trichlorobenzene	1500	U
91-20-3	Naphthalene	1500	U
106-47-8	4-Chloroaniline	1500	U
111-91-1	Bis(2-chloroethoxy)methane	1500	U
87-68-3	Hexachlorobutadiene	1500	U
59-50-7	4-Chloro-3-methylphenol	1500	U
91-57-6	2-Methylnaphthalene	1500	U
77-47-4	Hexachlorocyclopentadiene	1500	U
88-06-2	2,4,6-Trichlorophenol	1500	U
95-95-4	2,4,5-Trichlorophenol	3000	U
91-58-7	2-Chloronaphthalene	1500	U
88-74-4	2-Nitroaniline	3000	U
131-11-3	Dimethylphthalate	1500	U
208-96-8	Acenaphthylene	1500	U
606-20-2	2,6-Dinitrotoluene	1500	U
99-09-2	3-Nitroaniline	3000	U
83-32-9	Acenaphthene	1500	U
51-28-5	2,4-Dinitrophenol	3000	U
100-02-7	4-Nitrophenol	3000	U
132-64-9	Dibenzofuran	1500	U
121-14-2	2,4-Dinitrotoluene	1500	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-19

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-19A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2414.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 4.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	1500	U
7005-72-3	4-Chlorophenyl-phenylether	1500	U
86-73-7	Fluorene	1500	U
100-01-6	4-Nitroaniline	3000	U
534-52-1	4,6-Dinitro-2-methylphenol	3000	U
86-30-6	N-Nitrosodiphenylamine	1500	U
101-55-3	4-Bromophenyl-phenylether	1500	U
118-74-1	Hexachlorobenzene	1500	U
87-86-5	Pentachlorophenol	3000	U
85-01-8	Phenanthrene	3000	
120-12-7	Anthracene	520	J
86-74-8	Carbazole	1500	U
84-74-2	Di-n-butylphthalate	1500	U
206-44-0	Fluoranthene	9600	
129-00-0	Pyrene	8700	
85-68-7	Butylbenzylphthalate	1500	U
91-94-1	3,3´-Dichlorobenzidine	1500	U
56-55-3	Benzo(a)anthracene	8300	
218-01-9	Chrysene	10000	
117-81-7	Bis(2-ethylhexyl)phthalate	1500	U
117-84-0	Di-n-octylphthalate	1500	U
205-99-2	Benzo(b)fluoranthene	18000	
207-08-9	Benzo(k)fluoranthene	5100	
50-32-8	Benzo(a)pyrene	11000	
193-39-5	Indeno(1,2,3-cd)pyrene	10000	
53-70-3	Dibenzo(a,h)anthracene	3900	
191-24-2	Benzo(g,h,i)perylene	12000	

SW846

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SI-SS-19

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-19A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2414.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 4.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	243-17-4	11H-Benzo[b]fluorene	12.859	770	NJ
02		Unknown-01	14.339	1200	J
03	192-97-2	Benzo[e]pyrene	14.521	1400	NJ
04	192-97-2	Benzo[e]pyrene	14.654	9900	NJ
05	192-97-2	Benzo[e]pyrene	14.745	3500	NJ
06		Unknown-02	14.836	910	J
07	215-62-3	Dibenz(a,c)acridine	15.349	700	NJ
08		Unknown-03	15.445	2000	J
09	213-46-7	1,2:7,8-Dibenzophenanthrene	15.632	1800	NJ
10	135-48-8	Pentacene	15.664	2700	NJ
11	191-26-4	Dibenzo[def,mno]chrysene	15.899	2900	NJ
12	192-65-4	1,2:4,5-Dibenzopyrene	16.898	5600	NJ
13	189-55-9	3,4:9,10-Dibenzopyrene	16.994	4700	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-20

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-20A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3F2379.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/27/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	800	U
111-44-4	Bis(2-chloroethyl)ether	800	U
95-57-8	2-Chlorophenol	800	U
541-73-1	1,3-Dichlorobenzene	800	U
106-46-7	1,4-Dichlorobenzene	800	U
95-50-1	1,2-Dichlorobenzene	800	U
95-48-7	2-Methylphenol	800	U
108-60-1	2,2´-oxybis(1-Chloropropane)	800	U
106-44-5	4-Methylphenol	800	U
621-64-7	N-Nitroso-di-n-propylamine	800	U
67-72-1	Hexachloroethane	800	U
98-95-3	Nitrobenzene	800	U
78-59-1	Isophorone	800	U
88-75-5	2-Nitrophenol	800	U
105-67-9	2,4-Dimethylphenol	800	U
120-83-2	2,4-Dichlorophenol	800	U
120-82-1	1,2,4-Trichlorobenzene	800	U
91-20-3	Naphthalene	800	U
106-47-8	4-Chloroaniline	800	U
111-91-1	Bis(2-chloroethoxy)methane	800	U
87-68-3	Hexachlorobutadiene	800	U
59-50-7	4-Chloro-3-methylphenol	800	U
91-57-6	2-Methylnaphthalene	800	U
77-47-4	Hexachlorocyclopentadiene	800	U
88-06-2	2,4,6-Trichlorophenol	800	U
95-95-4	2,4,5-Trichlorophenol	1600	U
91-58-7	2-Chloronaphthalene	800	U
88-74-4	2-Nitroaniline	1600	U
131-11-3	Dimethylphthalate	800	U
208-96-8	Acenaphthylene	400	J
606-20-2	2,6-Dinitrotoluene	800	U
99-09-2	3-Nitroaniline	1600	U
83-32-9	Acenaphthene	800	U
51-28-5	2,4-Dinitrophenol	1600	U
100-02-7	4-Nitrophenol	1600	U
132-64-9	Dibenzofuran	800	U
121-14-2	2,4-Dinitrotoluene	800	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-20

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-20A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3F2379.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/27/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	800	U
7005-72-3	4-Chlorophenyl-phenylether	800	U
86-73-7	Fluorene	800	U
100-01-6	4-Nitroaniline	1600	U
534-52-1	4,6-Dinitro-2-methylphenol	1600	U
86-30-6	N-Nitrosodiphenylamine	800	U
101-55-3	4-Bromophenyl-phenylether	800	U
118-74-1	Hexachlorobenzene	800	U
87-86-5	Pentachlorophenol	1600	U
85-01-8	Phenanthrene	3400	
120-12-7	Anthracene	570	J
86-74-8	Carbazole	440	J
84-74-2	Di-n-butylphthalate	880	
206-44-0	Fluoranthene	6900	
129-00-0	Pyrene	5500	
85-68-7	Butylbenzylphthalate	800	U
91-94-1	3,3'-Dichlorobenzidine	800	U
56-55-3	Benzo(a)anthracene	5100	
218-01-9	Chrysene	5900	
117-81-7	Bis(2-ethylhexyl)phthalate	800	U
117-84-0	Di-n-octylphthalate	800	U
205-99-2	Benzo(b)fluoranthene	9500	
207-08-9	Benzo(k)fluoranthene	3000	
50-32-8	Benzo(a)pyrene	5400	
193-39-5	Indeno(1,2,3-cd)pyrene	4800	
53-70-3	Dibenzo(a,h)anthracene	2100	
191-24-2	Benzo(g,h,i)perylene	5400	

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SS-20

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-20A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3F2379.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/21/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/27/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 2.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	5989-27-5	D-Limonene	3.972	1800	NJ
02		Unknown-01	12.332	4900	J
03	2381-21-7	Pyrene, 1-methyl-	12.968	490	NJ
04	479-79-8	11H-Benzo[a]fluoren-11-one	13.326	450	NJ
05	239-35-0	Benzo[b]naphtho[2,1-d]thioph	13.411	750	NJ
06		Unknown-02	13.433	560	J
07		Unknown-03	13.470	570	J
08	479-79-8	11H-Benzo[a]fluoren-11-one	13.507	1200	NJ
09		Unknown-04	14.074	590	J
10	198-55-0	Perylene	14.554	880	NJ
11	198-55-0	Perylene	14.683	5100	NJ
12	192-97-2	Benzo[e]pyrene	14.779	1700	NJ
13	112-95-8	Eicosane	15.051	1200	NJ
14	215-58-7	Benzo[b]triphenylene	15.676	1800	NJ
15	135-48-8	Pentacene	15.708	1400	NJ
16	83-47-6	.gamma.-Sitosterol	15.863	3900	NJ
17	38119-11-8	1-Naphthalenecarboxylic acid	15.954	2300	NJ
18		Unknown-05	16.365	1000	J
19		Unknown-06	16.574	7100	J
20	192-65-4	1,2:4,5-Dibenzopyrene	16.953	3100	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-21

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM Case No.:

Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-01A

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: S3F2415.D

Level: (LOW/MED) LOW

Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N

Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL)

Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00

Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH:

Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	760	U
111-44-4	Bis(2-chloroethyl)ether	760	U
95-57-8	2-Chlorophenol	760	U
541-73-1	1,3-Dichlorobenzene	760	U
106-46-7	1,4-Dichlorobenzene	760	U
95-50-1	1,2-Dichlorobenzene	760	U
95-48-7	2-Methylphenol	760	U
108-60-1	2,2´-oxybis(1-Chloropropane)	760	U
106-44-5	4-Methylphenol	760	U
621-64-7	N-Nitroso-di-n-propylamine	760	U
67-72-1	Hexachloroethane	760	U
98-95-3	Nitrobenzene	760	U
78-59-1	Isophorone	760	U
88-75-5	2-Nitrophenol	760	U
105-67-9	2,4-Dimethylphenol	760	U
120-83-2	2,4-Dichlorophenol	760	U
120-82-1	1,2,4-Trichlorobenzene	760	U
91-20-3	Naphthalene	210	J
106-47-8	4-Chloroaniline	760	U
111-91-1	Bis(2-chloroethoxy)methane	760	U
87-68-3	Hexachlorobutadiene	760	U
59-50-7	4-Chloro-3-methylphenol	760	U
91-57-6	2-Methylnaphthalene	190	J
77-47-4	Hexachlorocyclopentadiene	760	U
88-06-2	2,4,6-Trichlorophenol	760	U
95-95-4	2,4,5-Trichlorophenol	1600	U
91-58-7	2-Chloronaphthalene	760	U
88-74-4	2-Nitroaniline	1600	U
131-11-3	Dimethylphthalate	760	U
208-96-8	Acenaphthylene	760	U
606-20-2	2,6-Dinitrotoluene	760	U
99-09-2	3-Nitroaniline	1600	U
83-32-9	Acenaphthene	760	U
51-28-5	2,4-Dinitrophenol	1600	U
100-02-7	4-Nitrophenol	1600	U
132-64-9	Dibenzofuran	760	U
121-14-2	2,4-Dinitrotoluene	760	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-21

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-01A

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: S3F2415.D

Level: (LOW/MED) LOW

Extraction: (Type) SONC

% Moisture: 15

Decanted: (Y/N) N

Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL)

Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL)

GPC Factor: 1.00

Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N

pH:

Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	760	U
7005-72-3	4-Chlorophenyl-phenylether	760	U
86-73-7	Fluorene	760	U
100-01-6	4-Nitroaniline	1600	U
534-52-1	4,6-Dinitro-2-methylphenol	1600	U
86-30-6	N-Nitrosodiphenylamine	760	U
101-55-3	4-Bromophenyl-phenylether	760	U
118-74-1	Hexachlorobenzene	760	U
87-86-5	Pentachlorophenol	1600	U
85-01-8	Phenanthrene	1500	
120-12-7	Anthracene	760	U
86-74-8	Carbazole	760	U
84-74-2	Di-n-butylphthalate	760	U
206-44-0	Fluoranthene	2900	
129-00-0	Pyrene	4900	
85-68-7	Butylbenzylphthalate	760	U
91-94-1	3,3'-Dichlorobenzidine	760	U
56-55-3	Benzo(a)anthracene	5800	
218-01-9	Chrysene	9600	
117-81-7	Bis(2-ethylhexyl)phthalate	760	U
117-84-0	Di-n-octylphthalate	760	U
205-99-2	Benzo(b)fluoranthene	7600	
207-08-9	Benzo(k)fluoranthene	2500	
50-32-8	Benzo(a)pyrene	6800	
193-39-5	Indeno(1,2,3-cd)pyrene	4400	
53-70-3	Dibenzo(a,h)anthracene	2800	
191-24-2	Benzo(g,h,i)perylene	7100	

SW846

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SI-SS-21

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-01A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2415.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 2.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	2381-21-7	Pyrene, 1-methyl-	12.952	1300	NJ
02	239-35-0	Benzo[b]naphtho[2,1-d]thioph	13.390	1600	NJ
03	24360-63-2	Benzo[b]naphtho[2,3-d]thioph	13.684	860	NJ
04	24360-63-2	Benzo[b]naphtho[2,3-d]thioph	13.748	1800	NJ
05	2422-79-9	Benz[a]anthracene, 12-methyl	13.946	3100	NJ
06	3351-31-3	Chrysene, 3-methyl-	13.972	1500	NJ
07	3351-28-8	Chrysene, 1-methyl-	14.053	990	NJ
08	54986-63-9	Benzo[c]phenanthrene, 5,8-di	14.240	6400	NJ
09		Unknown-01	14.272	4000	J
10	54986-63-9	Benzo[c]phenanthrene, 5,8-di	14.298	4700	NJ
11		Unknown-02	14.352	2700	J
12		Unknown-03	14.389	2400	J
13	198-55-0	Perylene	14.667	9100	NJ
14		Unknown-04	14.934	4900	J
15	24471-47-4	Perylene, 3-methyl-	14.955	5800	NJ
16		Unknown-05	15.003	3800	J
17		Unknown-06	15.244	5600	J
18	000294-14-8	Benzoxazole, 2-[2-(4-piperid	15.409	2500	NJ
19	191-26-4	Dibenzo[def,mno]chrysene	15.938	3200	NJ
20		Unknown-07	16.211	2700	J
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-22

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-02A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2416.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	770	U
111-44-4	Bis(2-chloroethyl)ether	770	U
95-57-8	2-Chlorophenol	770	U
541-73-1	1,3-Dichlorobenzene	770	U
106-46-7	1,4-Dichlorobenzene	770	U
95-50-1	1,2-Dichlorobenzene	770	U
95-48-7	2-Methylphenol	770	U
108-60-1	2,2´-oxybis(1-Chloropropane)	770	U
106-44-5	4-Methylphenol	770	U
621-64-7	N-Nitroso-di-n-propylamine	770	U
67-72-1	Hexachloroethane	770	U
98-95-3	Nitrobenzene	770	U
78-59-1	Isophorone	770	U
88-75-5	2-Nitrophenol	770	U
105-67-9	2,4-Dimethylphenol	770	U
120-83-2	2,4-Dichlorophenol	770	U
120-82-1	1,2,4-Trichlorobenzene	770	U
91-20-3	Naphthalene	170	J
106-47-8	4-Chloroaniline	770	U
111-91-1	Bis(2-chloroethoxy)methane	770	U
87-68-3	Hexachlorobutadiene	770	U
59-50-7	4-Chloro-3-methylphenol	770	U
91-57-6	2-Methylnaphthalene	240	J
77-47-4	Hexachlorocyclopentadiene	770	U
88-06-2	2,4,6-Trichlorophenol	770	U
95-95-4	2,4,5-Trichlorophenol	1600	U
91-58-7	2-Chloronaphthalene	770	U
88-74-4	2-Nitroaniline	1600	U
131-11-3	Dimethylphthalate	770	U
208-96-8	Acenaphthylene	310	J
606-20-2	2,6-Dinitrotoluene	770	U
99-09-2	3-Nitroaniline	1600	U
83-32-9	Acenaphthene	770	U
51-28-5	2,4-Dinitrophenol	1600	U
100-02-7	4-Nitrophenol	1600	U
132-64-9	Dibenzofuran	770	U
121-14-2	2,4-Dinitrotoluene	770	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-22

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-02A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2416.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	770	U
7005-72-3	4-Chlorophenyl-phenylether	770	U
86-73-7	Fluorene	770	U
100-01-6	4-Nitroaniline	1600	U
534-52-1	4,6-Dinitro-2-methylphenol	1600	U
86-30-6	N-Nitrosodiphenylamine	770	U
101-55-3	4-Bromophenyl-phenylether	770	U
118-74-1	Hexachlorobenzene	770	U
87-86-5	Pentachlorophenol	1600	U
85-01-8	Phenanthrene	1400	
120-12-7	Anthracene	480	J
86-74-8	Carbazole	220	J
84-74-2	Di-n-butylphthalate	770	U
206-44-0	Fluoranthene	4800	
129-00-0	Pyrene	5100	
85-68-7	Butylbenzylphthalate	770	U
91-94-1	3,3'-Dichlorobenzidine	770	U
56-55-3	Benzo(a)anthracene	5400	
218-01-9	Chrysene	7200	
117-81-7	Bis(2-ethylhexyl)phthalate	770	U
117-84-0	Di-n-octylphthalate	770	U
205-99-2	Benzo(b)fluoranthene	9900	
207-08-9	Benzo(k)fluoranthene	5100	
50-32-8	Benzo(a)pyrene	7600	
193-39-5	Indeno(1,2,3-cd)pyrene	6700	
53-70-3	Dibenzo(a,h)anthracene	2600	
191-24-2	Benzo(g,h,i)perylene	7900	

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SI-SS-22

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-02A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2416.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 2.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	33543-31-6	Fluoranthene, 2-methyl-	12.864	520	NJ
02	3442-78-2	Pyrene, 2-methyl-	12.949	520	NJ
03	243-46-9	Benzo[b]naphtho[2,3-d]thioph	13.393	500	NJ
04		Unknown-01	13.692	330	J
05	1705-84-6	Triphenylene, 2-methyl-	13.943	1100	NJ
06	3351-28-8	Chrysene, 1-methyl-	13.970	500	NJ
07		Unknown-02	14.050	630	J
08	57-97-6	Benz[a]anthracene, 7,12-dime	14.226	1400	NJ
09	54986-63-9	Benzo[c]phenanthrene, 5,8-di	14.290	1200	NJ
10		Unknown-03	14.343	1300	J
11	192-97-2	Benzo[e]pyrene	14.536	1800	NJ
12	192-97-2	Benzo[e]pyrene	14.664	7200	NJ
13	192-97-2	Benzo[e]pyrene	14.755	1300	NJ
14		Unknown-04	14.926	1000	J
15	24471-47-4	Perylene, 3-methyl-	14.947	1500	NJ
16	213-46-7	1,2:7,8-Dibenzophenanthrene	15.684	3400	NJ
17	191-26-4	Dibenzo[def,mno]chrysene	15.925	2100	NJ
18	192-65-4	1,2:4,5-Dibenzopyrene	16.924	4100	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-23

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-04A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2418.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	760	U
111-44-4	Bis(2-chloroethyl)ether	760	U
95-57-8	2-Chlorophenol	760	U
541-73-1	1,3-Dichlorobenzene	760	U
106-46-7	1,4-Dichlorobenzene	760	U
95-50-1	1,2-Dichlorobenzene	760	U
95-48-7	2-Methylphenol	760	U
108-60-1	2,2´-oxybis(1-Chloropropane)	760	U
106-44-5	4-Methylphenol	760	U
621-64-7	N-Nitroso-di-n-propylamine	760	U
67-72-1	Hexachloroethane	760	U
98-95-3	Nitrobenzene	760	U
78-59-1	Isophorone	760	U
88-75-5	2-Nitrophenol	760	U
105-67-9	2,4-Dimethylphenol	760	U
120-83-2	2,4-Dichlorophenol	760	U
120-82-1	1,2,4-Trichlorobenzene	760	U
91-20-3	Naphthalene	760	U
106-47-8	4-Chloroaniline	760	U
111-91-1	Bis(2-chloroethoxy)methane	760	U
87-68-3	Hexachlorobutadiene	760	U
59-50-7	4-Chloro-3-methylphenol	760	U
91-57-6	2-Methylnaphthalene	760	U
77-47-4	Hexachlorocyclopentadiene	760	U
88-06-2	2,4,6-Trichlorophenol	760	U
95-95-4	2,4,5-Trichlorophenol	1500	U
91-58-7	2-Chloronaphthalene	760	U
88-74-4	2-Nitroaniline	1500	U
131-11-3	Dimethylphthalate	760	U
208-96-8	Acenaphthylene	200	J
606-20-2	2,6-Dinitrotoluene	760	U
99-09-2	3-Nitroaniline	1500	U
83-32-9	Acenaphthene	240	J
51-28-5	2,4-Dinitrophenol	1500	U
100-02-7	4-Nitrophenol	1500	U
132-64-9	Dibenzofuran	760	U
121-14-2	2,4-Dinitrotoluene	760	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-23

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-04A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2418.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	760	U
7005-72-3	4-Chlorophenyl-phenylether	760	U
86-73-7	Fluorene	760	U
100-01-6	4-Nitroaniline	1500	U
534-52-1	4,6-Dinitro-2-methylphenol	1500	U
86-30-6	N-Nitrosodiphenylamine	760	U
101-55-3	4-Bromophenyl-phenylether	760	U
118-74-1	Hexachlorobenzene	760	U
87-86-5	Pentachlorophenol	1500	U
85-01-8	Phenanthrene	1900	
120-12-7	Anthracene	560	J
86-74-8	Carbazole	300	J
84-74-2	Di-n-butylphthalate	760	U
206-44-0	Fluoranthene	5200	
129-00-0	Pyrene	4800	
85-68-7	Butylbenzylphthalate	760	U
91-94-1	3,3'-Dichlorobenzidine	760	U
56-55-3	Benzo(a)anthracene	5000	
218-01-9	Chrysene	6400	
117-81-7	Bis(2-ethylhexyl)phthalate	760	U
117-84-0	Di-n-octylphthalate	760	U
205-99-2	Benzo(b)fluoranthene	11000	
207-08-9	Benzo(k)fluoranthene	3700	
50-32-8	Benzo(a)pyrene	7500	
193-39-5	Indeno(1,2,3-cd)pyrene	7300	
53-70-3	Dibenzo(a,h)anthracene	3500	
191-24-2	Benzo(g,h,i)perylene	8300	

SW846

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SI-SS-23

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-04A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2418.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 2.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	243-17-4	11H-Benzo[b]fluorene	12.872	470	NJ
02	33543-31-6	Fluoranthene, 2-methyl-	12.962	500	NJ
03	243-46-9	Benzo[b]naphtho[2,3-d]thioph	13.401	390	NJ
04		Unknown-01	13.705	410	J
05	205-25-4	7H-Benzo[c]carbazole	13.833	330	NJ
06	3351-28-8	Chrysene, 1-methyl-	13.951	970	NJ
07	2498-77-3	Benz[a]anthracene, 1-methyl-	13.977	430	NJ
08	6111-78-0	Benz[a]anthracene, 11-methyl	14.058	390	NJ
09	54986-63-9	Benzo[c]phenanthrene, 5,8-di	14.271	790	NJ
10		Unknown-02	14.357	1400	J
11	205-82-3	Benzo[j]fluoranthene	14.544	2000	NJ
12	192-97-2	Benzo[e]pyrene	14.672	6800	NJ
13	192-97-2	Benzo[e]pyrene	14.768	3100	NJ
14	213-46-7	1,2:7,8-Dibenzophenanthrene	15.698	3200	NJ
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-24

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-05A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3F2419.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	740	U
111-44-4	Bis(2-chloroethyl)ether	740	U
95-57-8	2-Chlorophenol	740	U
541-73-1	1,3-Dichlorobenzene	740	U
106-46-7	1,4-Dichlorobenzene	740	U
95-50-1	1,2-Dichlorobenzene	740	U
95-48-7	2-Methylphenol	740	U
108-60-1	2,2´-oxybis(1-Chloropropane)	740	U
106-44-5	4-Methylphenol	740	U
621-64-7	N-Nitroso-di-n-propylamine	740	U
67-72-1	Hexachloroethane	740	U
98-95-3	Nitrobenzene	740	U
78-59-1	Isophorone	740	U
88-75-5	2-Nitrophenol	740	U
105-67-9	2,4-Dimethylphenol	740	U
120-83-2	2,4-Dichlorophenol	740	U
120-82-1	1,2,4-Trichlorobenzene	740	U
91-20-3	Naphthalene	170	J
106-47-8	4-Chloroaniline	740	U
111-91-1	Bis(2-chloroethoxy)methane	740	U
87-68-3	Hexachlorobutadiene	740	U
59-50-7	4-Chloro-3-methylphenol	740	U
91-57-6	2-Methylnaphthalene	190	J
77-47-4	Hexachlorocyclopentadiene	740	U
88-06-2	2,4,6-Trichlorophenol	740	U
95-95-4	2,4,5-Trichlorophenol	1500	U
91-58-7	2-Chloronaphthalene	740	U
88-74-4	2-Nitroaniline	1500	U
131-11-3	Dimethylphthalate	740	U
208-96-8	Acenaphthylene	2400	
606-20-2	2,6-Dinitrotoluene	740	U
99-09-2	3-Nitroaniline	1500	U
83-32-9	Acenaphthene	740	U
51-28-5	2,4-Dinitrophenol	1500	U
100-02-7	4-Nitrophenol	1500	U
132-64-9	Dibenzofuran	740	U
121-14-2	2,4-Dinitrotoluene	740	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-24

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-05A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3F2419.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	740	U
7005-72-3	4-Chlorophenyl-phenylether	740	U
86-73-7	Fluorene	740	U
100-01-6	4-Nitroaniline	1500	U
534-52-1	4,6-Dinitro-2-methylphenol	1500	U
86-30-6	N-Nitrosodiphenylamine	740	U
101-55-3	4-Bromophenyl-phenylether	740	U
118-74-1	Hexachlorobenzene	740	U
87-86-5	Pentachlorophenol	1500	U
85-01-8	Phenanthrene	890	
120-12-7	Anthracene	2300	
86-74-8	Carbazole	280	J
84-74-2	Di-n-butylphthalate	740	U
206-44-0	Fluoranthene	5500	
129-00-0	Pyrene	5100	
85-68-7	Butylbenzylphthalate	740	U
91-94-1	3,3'-Dichlorobenzidine	740	U
56-55-3	Benzo(a)anthracene	4900	
218-01-9	Chrysene	5200	
117-81-7	Bis(2-ethylhexyl)phthalate	740	U
117-84-0	Di-n-octylphthalate	740	U
205-99-2	Benzo(b)fluoranthene	6900	
207-08-9	Benzo(k)fluoranthene	3300	
50-32-8	Benzo(a)pyrene	4600	
193-39-5	Indeno(1,2,3-cd)pyrene	3500	
53-70-3	Dibenzo(a,h)anthracene	1400	
191-24-2	Benzo(g,h,i)perylene	3700	

SW846

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SI-SS-24

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-05A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3F2419.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 2.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	506-44-5	9,12,15-Octadecatrien-1-ol,	10.477	1200	NJ
02		Unknown-01	11.807	820	J
03	3674-66-6	Phenanthrene, 2,5-dimethyl-	12.240	610	NJ
04	5737-13-3	Cyclopenta(def)phenanthrenon	12.315	630	NJ
05		Unknown-02	12.854	300	J
06	3442-78-2	Pyrene, 2-methyl-	12.961	570	NJ
07	205-43-6	Benzo[b]naphtho[1,2-d]thioph	13.405	420	NJ
08	82-05-3	7H-Benz[de]anthracen-7-one	13.752	390	NJ
09	3351-31-3	Chrysene, 3-methyl-	13.949	690	NJ
10	2319-96-2	Benz[a]anthracene, 5-methyl-	13.982	350	NJ
11		Unknown-03	14.056	380	J
12		Unknown-04	14.275	770	J
13		Unknown-05	14.355	1200	J
14	192-97-2	Benzo[e]pyrene	14.548	2100	NJ
15	192-97-2	Benzo[e]pyrene	14.676	5000	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-25

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-06A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2385.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/27/2008

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	390	U
111-44-4	Bis(2-chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	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
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
111-91-1	Bis(2-chloroethoxy)methane	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	76	J
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	790	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	790	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	130	J
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	790	U
83-32-9	Acenaphthene	390	U
51-28-5	2,4-Dinitrophenol	790	U
100-02-7	4-Nitrophenol	790	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-25

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-06A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2385.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/27/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	790	U
534-52-1	4,6-Dinitro-2-methylphenol	790	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	790	U
85-01-8	Phenanthrene	840	
120-12-7	Anthracene	210	J
86-74-8	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	1000	
129-00-0	Pyrene	1200	
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	1400	
218-01-9	Chrysene	3000	
117-81-7	Bis(2-ethylhexyl)phthalate	190	J
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	1100	
207-08-9	Benzo(k)fluoranthene	960	
50-32-8	Benzo(a)pyrene	1500	
193-39-5	Indeno(1,2,3-cd)pyrene	800	
53-70-3	Dibenzo(a,h)anthracene	630	
191-24-2	Benzo(g,h,i)perylene	1200	

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SI-SS-25

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-06A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2385.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/27/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.509	870	J
02	3353-12-6	Pyrene, 4-methyl-	12.988	370	NJ
03	301-02-0	9-Octadecenamide, (Z)-	13.223	260	NJ
04		Unknown-02	13.346	220	J
05	243-46-9	Benzo[b]naphtho[2,3-d]thioph	13.426	500	NJ
06		Unknown-03	13.731	590	J
07		Unknown-04	13.768	220	J
08	24360-63-2	Benzo[b]naphtho[2,3-d]thioph	13.789	660	NJ
09	2541-69-7	Benz[a]anthracene, 7-methyl-	13.987	1700	NJ
10	2381-31-9	Benz[a]anthracene, 8-methyl-	14.014	840	NJ
11	3697-24-3	Chrysene, 6-methyl-	14.046	620	NJ
12		Unknown-05	14.094	820	J
13		Unknown-06	14.275	3100	J
14		Unknown-07	14.318	2100	J
15	54986-63-9	Benzo[c]phenanthrene, 5,8-di	14.345	3100	NJ
16		Unknown-08	14.377	960	J
17		Unknown-09	14.398	1100	J
18		Unknown-10	14.585	680	J
19	192-97-2	Benzo[e]pyrene	14.719	2600	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-26

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-07A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2420.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	810	U
111-44-4	Bis(2-chloroethyl)ether	810	U
95-57-8	2-Chlorophenol	810	U
541-73-1	1,3-Dichlorobenzene	810	U
106-46-7	1,4-Dichlorobenzene	810	U
95-50-1	1,2-Dichlorobenzene	810	U
95-48-7	2-Methylphenol	810	U
108-60-1	2,2´-oxybis(1-Chloropropane)	810	U
106-44-5	4-Methylphenol	810	U
621-64-7	N-Nitroso-di-n-propylamine	810	U
67-72-1	Hexachloroethane	810	U
98-95-3	Nitrobenzene	810	U
78-59-1	Isophorone	810	U
88-75-5	2-Nitrophenol	810	U
105-67-9	2,4-Dimethylphenol	810	U
120-83-2	2,4-Dichlorophenol	810	U
120-82-1	1,2,4-Trichlorobenzene	810	U
91-20-3	Naphthalene	810	U
106-47-8	4-Chloroaniline	810	U
111-91-1	Bis(2-chloroethoxy)methane	810	U
87-68-3	Hexachlorobutadiene	810	U
59-50-7	4-Chloro-3-methylphenol	810	U
91-57-6	2-Methylnaphthalene	810	U
77-47-4	Hexachlorocyclopentadiene	810	U
88-06-2	2,4,6-Trichlorophenol	810	U
95-95-4	2,4,5-Trichlorophenol	1600	U
91-58-7	2-Chloronaphthalene	810	U
88-74-4	2-Nitroaniline	1600	U
131-11-3	Dimethylphthalate	810	U
208-96-8	Acenaphthylene	810	U
606-20-2	2,6-Dinitrotoluene	810	U
99-09-2	3-Nitroaniline	1600	U
83-32-9	Acenaphthene	230	J
51-28-5	2,4-Dinitrophenol	1600	U
100-02-7	4-Nitrophenol	1600	U
132-64-9	Dibenzofuran	810	U
121-14-2	2,4-Dinitrotoluene	810	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-26

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-07A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2420.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	810	U
7005-72-3	4-Chlorophenyl-phenylether	810	U
86-73-7	Fluorene	200	J
100-01-6	4-Nitroaniline	1600	U
534-52-1	4,6-Dinitro-2-methylphenol	1600	U
86-30-6	N-Nitrosodiphenylamine	810	U
101-55-3	4-Bromophenyl-phenylether	810	U
118-74-1	Hexachlorobenzene	810	U
87-86-5	Pentachlorophenol	1600	U
85-01-8	Phenanthrene	2300	
120-12-7	Anthracene	580	J
86-74-8	Carbazole	250	J
84-74-2	Di-n-butylphthalate	810	U
206-44-0	Fluoranthene	4500	
129-00-0	Pyrene	3800	
85-68-7	Butylbenzylphthalate	810	U
91-94-1	3,3'-Dichlorobenzidine	810	U
56-55-3	Benzo(a)anthracene	4300	
218-01-9	Chrysene	4900	
117-81-7	Bis(2-ethylhexyl)phthalate	810	U
117-84-0	Di-n-octylphthalate	810	U
205-99-2	Benzo(b)fluoranthene	9000	
207-08-9	Benzo(k)fluoranthene	4500	
50-32-8	Benzo(a)pyrene	6200	
193-39-5	Indeno(1,2,3-cd)pyrene	7000	
53-70-3	Dibenzo(a,h)anthracene	2700	
191-24-2	Benzo(g,h,i)perylene	7300	

SW846

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SI-SS-26

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-07A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2420.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 2.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	2381-21-7	Pyrene, 1-methyl-	12.961	400	NJ
02	2381-15-9	Benz[a]anthracene, 10-methyl	13.949	590	NJ
03		Unknown-01	14.056	510	J
04	1836-87-9	9H-Fluorene, 9-(phenylmethyl	14.350	790	NJ
05	205-99-2	Benz[e]acephenanthrylene	14.542	2000	NJ
06	192-97-2	Benzo[e]pyrene	14.670	5800	NJ
07	192-97-2	Benzo[e]pyrene	14.761	2000	NJ
08		Unknown-02	14.852	560	J
09		Unknown-03	15.466	1400	J
10	215-58-7	Benzo[b]triphenylene	15.658	1300	NJ
11	214-17-5	Benzo[b]chrysene	15.690	2200	NJ
12	191-26-4	Dibenzo[def,mno]chrysene	15.931	2100	NJ
13	192-65-4	1,2:4,5-Dibenzopyrene	16.941	4600	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-27

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-08A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2387.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

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
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
95-50-1	1,2-Dichlorobenzene	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
120-82-1	1,2,4-Trichlorobenzene	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	830	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	830	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	830	U
83-32-9	Acenaphthene	410	U
51-28-5	2,4-Dinitrophenol	830	U
100-02-7	4-Nitrophenol	830	U
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-27

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-08A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2387.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
86-73-7	Fluorene	410	U
100-01-6	4-Nitroaniline	830	U
534-52-1	4,6-Dinitro-2-methylphenol	830	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	830	U
85-01-8	Phenanthrene	640	
120-12-7	Anthracene	110	J
86-74-8	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	800	
129-00-0	Pyrene	600	
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	530	
218-01-9	Chrysene	830	
117-81-7	Bis(2-ethylhexyl)phthalate	530	
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	720	
207-08-9	Benzo(k)fluoranthene	270	J
50-32-8	Benzo(a)pyrene	540	
193-39-5	Indeno(1,2,3-cd)pyrene	350	J
53-70-3	Dibenzo(a,h)anthracene	200	J
191-24-2	Benzo(g,h,i)perylene	430	

SW846

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SI-SS-27

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-08A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2387.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.349	340	J
02	000143-61-3	N-(4-Methoxyphenyl)-2-hydrox	10.717	360	NJ
03	000297-95-5	4-((1E)-3-Hydroxy-1-propenyl	10.936	630	NJ
04	6309-51-9	Isoamyl laurate	11.401	380	NJ
05	112-39-0	Hexadecanoic acid, methyl es	11.738	350	NJ
06	57-10-3	n-Hexadecanoic acid	11.898	380	NJ
07		Unknown-02	12.453	250	J
08	301-02-0	9-Octadecenamide, (Z)-	13.223	520	NJ
09	316-49-4	Benz[a]anthracene, 4-methyl-	14.008	210	NJ
10	544-76-3	Hexadecane	14.088	600	NJ
11	54986-63-9	Benzo[c]phenanthrene, 5,8-di	14.334	930	NJ
12	638-67-5	Tricosane	14.585	3200	NJ
13	297-03-0	Cyclotetracosane	14.601	1000	NJ
14	205-82-3	Benzo[j]fluoranthene	14.702	460	NJ
15	638-67-5	Tricosane	15.066	820	NJ
16	83-48-7	Stigmasterol	15.685	600	NJ
17	000214-20-7	Stigmasterol, 22,23-dihydro-	15.894	1900	NJ
18		Unknown-03	16.401	710	J
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-28

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-09A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2388.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

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
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
95-50-1	1,2-Dichlorobenzene	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
120-82-1	1,2,4-Trichlorobenzene	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

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-28

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM Case No.:

Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-09A

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: S3F2388.D

Level: (LOW/MED) LOW

Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N

Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL)

Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00

Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH:

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
86-73-7	Fluorene	400	U
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	390	J
120-12-7	Anthracene	400	U
86-74-8	Carbazole	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	890	
129-00-0	Pyrene	730	
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3´-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	550	
218-01-9	Chrysene	900	
117-81-7	Bis(2-ethylhexyl)phthalate	3700	
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	860	
207-08-9	Benzo(k)fluoranthene	360	J
50-32-8	Benzo(a)pyrene	620	
193-39-5	Indeno(1,2,3-cd)pyrene	440	
53-70-3	Dibenzo(a,h)anthracene	230	J
191-24-2	Benzo(g,h,i)perylene	540	

SW846

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SI-SS-28

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-09A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2388.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	85-44-9	Phthalic anhydride	7.091	840	NJ
02		Unknown-01	10.504	560	J
03	57-10-3	n-Hexadecanoic acid	11.899	280	NJ
04	3442-78-2	Pyrene, 2-methyl-	12.983	270	NJ
05	301-02-0	9-Octadecenamide, (Z)-	13.223	360	NJ
06	74685-33-9	3-Eicosene, (E)-	13.560	240	NJ
07	1705-84-6	Triphenylene, 2-methyl-	13.982	350	NJ
08	3351-28-8	Chrysene, 1-methyl-	14.009	380	NJ
09		Unknown-02	14.089	890	J
10		Unknown-03	14.281	640	J
11		Unknown-04	14.393	400	J
12	7225-64-1	Heptadecane, 9-octyl-	14.591	1200	NJ
13	192-97-2	Benzo[e]pyrene	14.714	590	NJ
14	630-03-5	Nonacosane	15.077	400	NJ
15		Unknown-05	15.205	360	J
16	83-48-7	Stigmasterol	15.697	580	NJ
17	83-46-5	.beta.-Sitosterol	15.905	1900	NJ
18		Unknown-06	16.418	1000	J
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-29

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-10A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2389.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

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	390	U
111-44-4	Bis(2-chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	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
95-48-7	2-Methylphenol	390	U
108-60-1	2,2´-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
111-91-1	Bis(2-chloroethoxy)methane	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	81	J
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	780	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	780	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	110	J
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	780	U
83-32-9	Acenaphthene	390	U
51-28-5	2,4-Dinitrophenol	780	U
100-02-7	4-Nitrophenol	780	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U

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1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-29

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-10A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2389.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	780	U
534-52-1	4,6-Dinitro-2-methylphenol	780	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	780	U
85-01-8	Phenanthrene	840	
120-12-7	Anthracene	180	J
86-74-8	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	1500	
129-00-0	Pyrene	1500	
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	2000	
218-01-9	Chrysene	3400	
117-81-7	Bis(2-ethylhexyl)phthalate	390	U
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	3000	
207-08-9	Benzo(k)fluoranthene	1000	
50-32-8	Benzo(a)pyrene	2300	
193-39-5	Indeno(1,2,3-cd)pyrene	1600	
53-70-3	Dibenzo(a,h)anthracene	1000	
191-24-2	Benzo(g,h,i)perylene	2100	

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1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SI-SS-29

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-10A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2389.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	91-64-5	2H-1-Benzopyran-2-one	8.593	1700	NJ
02		Unknown-01	10.505	850	J
03	2381-21-7	Pyrene, 1-methyl-	12.989	340	NJ
04	243-46-9	Benzo[b]naphtho[2,3-d]thioph	13.427	470	NJ
05		Unknown-02	13.732	520	J
06	24964-09-8	Benzo[b]naphtho[2,3-d]thioph	13.796	420	NJ
07		Unknown-03	13.865	380	J
08	3351-28-8	Chrysene, 1-methyl-	13.999	1800	NJ
09	2541-69-7	Benz[a]anthracene, 7-methyl-	14.026	970	NJ
10	3697-24-3	Chrysene, 6-methyl-	14.052	790	NJ
11		Unknown-04	14.106	970	J
12	54986-63-9	Benzo[c]phenanthrene, 5,8-di	14.293	3200	NJ
13		Unknown-05	14.330	1700	J
14	54986-63-9	Benzo[c]phenanthrene, 5,8-di	14.362	2800	NJ
15		Unknown-06	14.416	980	J
16	198-55-0	Perylene	14.742	3000	NJ
17		Unknown-07	15.019	1200	J
18	24471-47-4	Perylene, 3-methyl-	15.041	1900	NJ
19		Unknown-08	15.094	1400	J
20		Unknown-09	15.981	1000	J
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-30

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-11A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2390.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

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
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
95-50-1	1,2-Dichlorobenzene	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
120-82-1	1,2,4-Trichlorobenzene	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	830	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	830	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	830	U
83-32-9	Acenaphthene	410	U
51-28-5	2,4-Dinitrophenol	830	U
100-02-7	4-Nitrophenol	830	U
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-30

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-11A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2390.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
86-73-7	Fluorene	410	U
100-01-6	4-Nitroaniline	830	U
534-52-1	4,6-Dinitro-2-methylphenol	830	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	830	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	410	U
206-44-0	Fluoranthene	270	J
129-00-0	Pyrene	220	J
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	170	J
218-01-9	Chrysene	190	J
117-81-7	Bis(2-ethylhexyl)phthalate	410	U
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	270	J
207-08-9	Benzo(k)fluoranthene	120	J
50-32-8	Benzo(a)pyrene	190	J
193-39-5	Indeno(1,2,3-cd)pyrene	140	J
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	160	J

SW846

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SI-SS-30

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-11A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2390.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	301-02-0	9-Octadecenamide, (Z)-	13.221	1100	NJ
02	112-84-5	13-Docosenamide, (Z)-	14.327	500	NJ
03	629-99-2	Pentacosane	14.594	230	NJ
04	6971-40-0	17-Pentatriacontene	14.610	430	NJ
05	630-04-6	Hentriacontane	15.080	480	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-31

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-12A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2391.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

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	380	U
111-44-4	Bis(2-chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2´-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
111-91-1	Bis(2-chloroethoxy)methane	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	770	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	770	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	220	J
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	770	U
83-32-9	Acenaphthene	380	U
51-28-5	2,4-Dinitrophenol	770	U
100-02-7	4-Nitrophenol	770	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-31

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-12A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2391.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	770	U
534-52-1	4,6-Dinitro-2-methylphenol	770	U
86-30-6	N-Nitrosodiphenylamine	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	770	U
85-01-8	Phenanthrene	480	
120-12-7	Anthracene	210	J
86-74-8	Carbazole	380	U
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	1100	
129-00-0	Pyrene	890	
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3´-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	610	
218-01-9	Chrysene	710	
117-81-7	Bis(2-ethylhexyl)phthalate	380	U
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	990	
207-08-9	Benzo(k)fluoranthene	350	J
50-32-8	Benzo(a)pyrene	670	
193-39-5	Indeno(1,2,3-cd)pyrene	480	
53-70-3	Dibenzo(a,h)anthracene	180	J
191-24-2	Benzo(g,h,i)perylene	530	

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1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SI-SS-31

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-12A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2391.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	11.369	240	J
02	5129-60-2	Pentadecanoic acid, 14-methy	11.732	190	NJ
03		Unknown-02	12.987	170	J
04	301-02-0	9-Octadecenamide, (Z)-	13.222	750	NJ
05	630-02-4	Octacosane	14.083	450	NJ
06	112-84-5	13-Docosenamide, (Z)-	14.323	370	NJ
07		Unknown-03	14.382	180	J
08	593-45-3	Octadecane	14.585	970	NJ
09	112-92-5	1-Octadecanol	14.601	740	NJ
10	192-97-2	Benzo[e]pyrene	14.702	440	NJ
11	112-95-8	Eicosane	15.071	660	NJ
12		Unknown-04	15.103	410	J
13	83-46-5	.beta.-Sitosterol	15.888	1100	NJ
14		Unknown-05	16.401	760	J
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-32

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-13A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2392.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 26 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

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	440	U
111-44-4	Bis(2-chloroethyl)ether	440	U
95-57-8	2-Chlorophenol	440	U
541-73-1	1,3-Dichlorobenzene	440	U
106-46-7	1,4-Dichlorobenzene	440	U
95-50-1	1,2-Dichlorobenzene	440	U
95-48-7	2-Methylphenol	440	U
108-60-1	2,2'-oxybis(1-Chloropropane)	440	U
106-44-5	4-Methylphenol	440	U
621-64-7	N-Nitroso-di-n-propylamine	440	U
67-72-1	Hexachloroethane	440	U
98-95-3	Nitrobenzene	440	U
78-59-1	Isophorone	440	U
88-75-5	2-Nitrophenol	440	U
105-67-9	2,4-Dimethylphenol	440	U
120-83-2	2,4-Dichlorophenol	440	U
120-82-1	1,2,4-Trichlorobenzene	440	U
91-20-3	Naphthalene	100	J
106-47-8	4-Chloroaniline	440	U
111-91-1	Bis(2-chloroethoxy)methane	440	U
87-68-3	Hexachlorobutadiene	440	U
59-50-7	4-Chloro-3-methylphenol	440	U
91-57-6	2-Methylnaphthalene	440	U
77-47-4	Hexachlorocyclopentadiene	440	U
88-06-2	2,4,6-Trichlorophenol	440	U
95-95-4	2,4,5-Trichlorophenol	900	U
91-58-7	2-Chloronaphthalene	440	U
88-74-4	2-Nitroaniline	900	U
131-11-3	Dimethylphthalate	440	U
208-96-8	Acenaphthylene	520	
606-20-2	2,6-Dinitrotoluene	440	U
99-09-2	3-Nitroaniline	900	U
83-32-9	Acenaphthene	130	J
51-28-5	2,4-Dinitrophenol	900	U
100-02-7	4-Nitrophenol	900	U
132-64-9	Dibenzofuran	440	U
121-14-2	2,4-Dinitrotoluene	440	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-32

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-13A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2392.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 26 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	440	U
7005-72-3	4-Chlorophenyl-phenylether	440	U
86-73-7	Fluorene	130	J
100-01-6	4-Nitroaniline	900	U
534-52-1	4,6-Dinitro-2-methylphenol	900	U
86-30-6	N-Nitrosodiphenylamine	440	U
101-55-3	4-Bromophenyl-phenylether	440	U
118-74-1	Hexachlorobenzene	440	U
87-86-5	Pentachlorophenol	900	U
85-01-8	Phenanthrene	1200	
120-12-7	Anthracene	590	
86-74-8	Carbazole	230	J
84-74-2	Di-n-butylphthalate	440	U
206-44-0	Fluoranthene	2500	
129-00-0	Pyrene	2000	
85-68-7	Butylbenzylphthalate	440	U
91-94-1	3,3´-Dichlorobenzidine	440	U
56-55-3	Benzo(a)anthracene	1500	
218-01-9	Chrysene	1500	
117-81-7	Bis(2-ethylhexyl)phthalate	440	U
117-84-0	Di-n-octylphthalate	440	U
205-99-2	Benzo(b)fluoranthene	2100	
207-08-9	Benzo(k)fluoranthene	880	
50-32-8	Benzo(a)pyrene	1500	
193-39-5	Indeno(1,2,3-cd)pyrene	1000	
53-70-3	Dibenzo(a,h)anthracene	320	J
191-24-2	Benzo(g,h,i)perylene	1100	

SW846

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SI-SS-32

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-13A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2392.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 26 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	7.288	590	J
02	5129-60-2	Pentadecanoic acid, 14-methy	11.733	260	NJ
03	203-64-5	4H-Cyclopenta[def]phenanthre	11.829	350	NJ
04	35465-71-5	2-Phenylnaphthalene	12.027	240	NJ
05	243-17-4	11H-Benzo[b]fluorene	12.897	220	NJ
06	3353-12-6	Pyrene, 4-methyl-	12.983	230	NJ
07		Unknown-02	13.207	240	J
08	301-02-0	9-Octadecenamide, (Z)-	13.223	480	NJ
09		Unknown-03	14.083	330	J
10	301-02-0	9-Octadecenamide, (Z)-	14.318	520	NJ
11		Unknown-04	14.382	300	J
12	56554-86-0	17-Octadecenal	14.446	240	NJ
13	192-97-2	Benzo[e]pyrene	14.580	1000	NJ
14	95008-11-0	10-Heneicosene (c,t)	14.601	730	NJ
15	198-55-0	Perylene	14.703	990	NJ
16	55320-06-4	Heneicosane, 11-decyl-	15.066	620	NJ
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-33

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-14A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2393.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 45 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

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	590	U
111-44-4	Bis(2-chloroethyl)ether	590	U
95-57-8	2-Chlorophenol	590	U
541-73-1	1,3-Dichlorobenzene	590	U
106-46-7	1,4-Dichlorobenzene	590	U
95-50-1	1,2-Dichlorobenzene	590	U
95-48-7	2-Methylphenol	590	U
108-60-1	2,2´-oxybis(1-Chloropropane)	590	U
106-44-5	4-Methylphenol	590	U
621-64-7	N-Nitroso-di-n-propylamine	590	U
67-72-1	Hexachloroethane	590	U
98-95-3	Nitrobenzene	590	U
78-59-1	Isophorone	590	U
88-75-5	2-Nitrophenol	590	U
105-67-9	2,4-Dimethylphenol	590	U
120-83-2	2,4-Dichlorophenol	590	U
120-82-1	1,2,4-Trichlorobenzene	590	U
91-20-3	Naphthalene	590	U
106-47-8	4-Chloroaniline	590	U
111-91-1	Bis(2-chloroethoxy)methane	590	U
87-68-3	Hexachlorobutadiene	590	U
59-50-7	4-Chloro-3-methylphenol	590	U
91-57-6	2-Methylnaphthalene	590	U
77-47-4	Hexachlorocyclopentadiene	590	U
88-06-2	2,4,6-Trichlorophenol	590	U
95-95-4	2,4,5-Trichlorophenol	1200	U
91-58-7	2-Chloronaphthalene	590	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	590	U
208-96-8	Acenaphthylene	150	J
606-20-2	2,6-Dinitrotoluene	590	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	590	U
51-28-5	2,4-Dinitrophenol	1200	U
100-02-7	4-Nitrophenol	1200	U
132-64-9	Dibenzofuran	590	U
121-14-2	2,4-Dinitrotoluene	590	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-33

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-14A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2393.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 45 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	590	U
7005-72-3	4-Chlorophenyl-phenylether	590	U
86-73-7	Fluorene	590	U
100-01-6	4-Nitroaniline	1200	U
534-52-1	4,6-Dinitro-2-methylphenol	1200	U
86-30-6	N-Nitrosodiphenylamine	590	U
101-55-3	4-Bromophenyl-phenylether	590	U
118-74-1	Hexachlorobenzene	590	U
87-86-5	Pentachlorophenol	1200	U
85-01-8	Phenanthrene	490	J
120-12-7	Anthracene	590	U
86-74-8	Carbazole	590	U
84-74-2	Di-n-butylphthalate	590	U
206-44-0	Fluoranthene	970	
129-00-0	Pyrene	760	
85-68-7	Butylbenzylphthalate	590	U
91-94-1	3,3'-Dichlorobenzidine	590	U
56-55-3	Benzo(a)anthracene	450	J
218-01-9	Chrysene	630	
117-81-7	Bis(2-ethylhexyl)phthalate	590	U
117-84-0	Di-n-octylphthalate	590	U
205-99-2	Benzo(b)fluoranthene	840	
207-08-9	Benzo(k)fluoranthene	330	J
50-32-8	Benzo(a)pyrene	510	J
193-39-5	Indeno(1,2,3-cd)pyrene	380	J
53-70-3	Dibenzo(a,h)anthracene	590	U
191-24-2	Benzo(g,h,i)perylene	430	J

SW846

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SI-SS-33

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-14A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2393.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 45 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	103-82-2	Benzeneacetic acid	6.331	1000	NJ
02		Unknown-01	7.282	560	J
03		Unknown-02	10.546	1600	J
04		Unknown-03	11.652	390	J
05	112-39-0	Hexadecanoic acid, methyl es	11.732	560	NJ
06	57-10-3	n-Hexadecanoic acid	11.898	390	NJ
07	112-95-8	Eicosane	12.993	330	NJ
08		Unknown-04	13.207	420	J
09	301-02-0	9-Octadecenamide, (Z)-	13.223	850	NJ
10	481-74-3	9,10-Anthracenedione, 1,8-di	13.271	1100	NJ
11	1599-67-3	1-Docosene	13.554	710	NJ
12	521-61-9	9,10-Anthracenedione, 1,8-di	14.093	1600	NJ
13		Unknown-05	14.318	560	J
14	544-77-4	Hexadecane, 1-iodo-	14.580	3100	NJ
15	297-03-0	Cyclotetracosane	14.601	2200	NJ
16	7225-64-1	Heptadecane, 9-octyl-	15.066	1900	NJ
17		Unknown-06	15.098	2600	J
18	000128-66-1	Cholesta-22,24-dien-5-ol, 4,	15.680	600	NJ
19	83-47-6	.gamma.-Sitosterol	15.888	3600	NJ
20		Unknown-07	16.396	1400	J
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-34

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-15A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2394.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 25 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

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	440	U
111-44-4	Bis(2-chloroethyl)ether	440	U
95-57-8	2-Chlorophenol	440	U
541-73-1	1,3-Dichlorobenzene	440	U
106-46-7	1,4-Dichlorobenzene	440	U
95-50-1	1,2-Dichlorobenzene	440	U
95-48-7	2-Methylphenol	440	U
108-60-1	2,2'-oxybis(1-Chloropropane)	440	U
106-44-5	4-Methylphenol	440	U
621-64-7	N-Nitroso-di-n-propylamine	440	U
67-72-1	Hexachloroethane	440	U
98-95-3	Nitrobenzene	440	U
78-59-1	Isophorone	440	U
88-75-5	2-Nitrophenol	440	U
105-67-9	2,4-Dimethylphenol	440	U
120-83-2	2,4-Dichlorophenol	440	U
120-82-1	1,2,4-Trichlorobenzene	440	U
91-20-3	Naphthalene	440	U
106-47-8	4-Chloroaniline	440	U
111-91-1	Bis(2-chloroethoxy)methane	440	U
87-68-3	Hexachlorobutadiene	440	U
59-50-7	4-Chloro-3-methylphenol	440	U
91-57-6	2-Methylnaphthalene	440	U
77-47-4	Hexachlorocyclopentadiene	440	U
88-06-2	2,4,6-Trichlorophenol	440	U
95-95-4	2,4,5-Trichlorophenol	890	U
91-58-7	2-Chloronaphthalene	440	U
88-74-4	2-Nitroaniline	890	U
131-11-3	Dimethylphthalate	440	U
208-96-8	Acenaphthylene	440	U
606-20-2	2,6-Dinitrotoluene	440	U
99-09-2	3-Nitroaniline	890	U
83-32-9	Acenaphthene	440	U
51-28-5	2,4-Dinitrophenol	890	U
100-02-7	4-Nitrophenol	890	U
132-64-9	Dibenzofuran	440	U
121-14-2	2,4-Dinitrotoluene	440	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-34

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-15A

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: S3F2394.D

Level: (LOW/MED) LOW

Extraction: (Type) SONC

% Moisture: 25

Decanted: (Y/N) N

Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL)

Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL)

GPC Factor: 1.00

Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N

pH:

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	440	U
7005-72-3	4-Chlorophenyl-phenylether	440	U
86-73-7	Fluorene	440	U
100-01-6	4-Nitroaniline	890	U
534-52-1	4,6-Dinitro-2-methylphenol	890	U
86-30-6	N-Nitrosodiphenylamine	440	U
101-55-3	4-Bromophenyl-phenylether	440	U
118-74-1	Hexachlorobenzene	440	U
87-86-5	Pentachlorophenol	890	U
85-01-8	Phenanthrene	150	J
120-12-7	Anthracene	440	U
86-74-8	Carbazole	440	U
84-74-2	Di-n-butylphthalate	440	U
206-44-0	Fluoranthene	300	J
129-00-0	Pyrene	290	J
85-68-7	Butylbenzylphthalate	440	U
91-94-1	3,3'-Dichlorobenzidine	440	U
56-55-3	Benzo(a)anthracene	180	J
218-01-9	Chrysene	210	J
117-81-7	Bis(2-ethylhexyl)phthalate	440	U
117-84-0	Di-n-octylphthalate	440	U
205-99-2	Benzo(b)fluoranthene	220	J
207-08-9	Benzo(k)fluoranthene	440	U
50-32-8	Benzo(a)pyrene	170	J
193-39-5	Indeno(1,2,3-cd)pyrene	440	U
53-70-3	Dibenzo(a,h)anthracene	440	U
191-24-2	Benzo(g,h,i)perylene	130	J

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SI-SS-34

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-15A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2394.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 25 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	301-02-0	9-Octadecenamide, (Z)-	13.218	780	NJ
02	000155-85-3	Cyclohexadecane, 1,2-diethyl	13.560	190	NJ
03	330207-53-9	E-14-Hexadecenal	14.089	520	NJ
04	112-84-5	13-Docosenamide, (Z)-	14.318	350	NJ
05	630-03-5	Nonacosane	14.586	1000	NJ
06	71502-22-2	9-Hexacosene	14.607	290	NJ
07	630-03-5	Nonacosane	15.072	780	NJ
08	83-47-6	.gamma.-Sitosterol	15.889	730	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

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1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-35

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-16A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2395.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 31 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

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	480	U
111-44-4	Bis(2-chloroethyl)ether	480	U
95-57-8	2-Chlorophenol	480	U
541-73-1	1,3-Dichlorobenzene	480	U
106-46-7	1,4-Dichlorobenzene	480	U
95-50-1	1,2-Dichlorobenzene	480	U
95-48-7	2-Methylphenol	480	U
108-60-1	2,2´-oxybis(1-Chloropropane)	480	U
106-44-5	4-Methylphenol	480	U
621-64-7	N-Nitroso-di-n-propylamine	480	U
67-72-1	Hexachloroethane	480	U
98-95-3	Nitrobenzene	480	U
78-59-1	Isophorone	480	U
88-75-5	2-Nitrophenol	480	U
105-67-9	2,4-Dimethylphenol	480	U
120-83-2	2,4-Dichlorophenol	480	U
120-82-1	1,2,4-Trichlorobenzene	480	U
91-20-3	Naphthalene	480	U
106-47-8	4-Chloroaniline	480	U
111-91-1	Bis(2-chloroethoxy)methane	480	U
87-68-3	Hexachlorobutadiene	480	U
59-50-7	4-Chloro-3-methylphenol	480	U
91-57-6	2-Methylnaphthalene	480	U
77-47-4	Hexachlorocyclopentadiene	480	U
88-06-2	2,4,6-Trichlorophenol	480	U
95-95-4	2,4,5-Trichlorophenol	970	U
91-58-7	2-Chloronaphthalene	480	U
88-74-4	2-Nitroaniline	970	U
131-11-3	Dimethylphthalate	480	U
208-96-8	Acenaphthylene	480	U
606-20-2	2,6-Dinitrotoluene	480	U
99-09-2	3-Nitroaniline	970	U
83-32-9	Acenaphthene	480	U
51-28-5	2,4-Dinitrophenol	970	U
100-02-7	4-Nitrophenol	970	U
132-64-9	Dibenzofuran	480	U
121-14-2	2,4-Dinitrotoluene	480	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-35

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-16A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2395.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 31 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	480	U
7005-72-3	4-Chlorophenyl-phenylether	480	U
86-73-7	Fluorene	480	U
100-01-6	4-Nitroaniline	970	U
534-52-1	4,6-Dinitro-2-methylphenol	970	U
86-30-6	N-Nitrosodiphenylamine	480	U
101-55-3	4-Bromophenyl-phenylether	480	U
118-74-1	Hexachlorobenzene	480	U
87-86-5	Pentachlorophenol	970	U
85-01-8	Phenanthrene	200	J
120-12-7	Anthracene	480	U
86-74-8	Carbazole	480	U
84-74-2	Di-n-butylphthalate	480	U
206-44-0	Fluoranthene	320	J
129-00-0	Pyrene	270	J
85-68-7	Butylbenzylphthalate	480	U
91-94-1	3,3´-Dichlorobenzidine	480	U
56-55-3	Benzo(a)anthracene	170	J
218-01-9	Chrysene	230	J
117-81-7	Bis(2-ethylhexyl)phthalate	480	U
117-84-0	Di-n-octylphthalate	480	U
205-99-2	Benzo(b)fluoranthene	300	J
207-08-9	Benzo(k)fluoranthene	480	U
50-32-8	Benzo(a)pyrene	180	J
193-39-5	Indeno(1,2,3-cd)pyrene	150	J
53-70-3	Dibenzo(a,h)anthracene	480	U
191-24-2	Benzo(g,h,i)perylene	180	J

SW846

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SI-SS-35

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-16A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2395.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 31 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	103-82-2	Benzeneacetic acid	6.311	380	NJ
02	112-39-0	Hexadecanoic acid, methyl es	11.733	260	NJ
03	301-02-0	9-Octadecenamide, (Z)-	13.218	1200	NJ
04	481-74-3	9,10-Anthracenedione, 1,8-di	13.271	290	NJ
05	1599-67-3	1-Docosene	13.560	480	NJ
06	629-78-7	Heptadecane	14.089	1600	NJ
07		Unknown-01	14.318	670	J
08	56554-87-1	16-Octadecenal	14.447	400	NJ
09	638-67-5	Tricosane	14.586	2900	NJ
10		Unknown-02	14.602	890	J
11	7616-22-0	.gamma.-Tocopherol	15.008	420	NJ
12	630-04-6	Hentriacontane	15.072	2600	NJ
13		Unknown-03	15.104	920	J
14		Unknown-04	15.136	290	J
15	59-02-9	Vitamin E	15.216	460	NJ
16	7494-34-0	26-Nor-5-cholesten-3.beta.-o	15.280	540	NJ
17		Unknown-05	15.681	540	J
18	83-47-6	.gamma.-Sitosterol	15.889	2000	NJ
19	1058-61-3	Stigmast-4-en-3-one	16.397	1000	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-36

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-17A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2396.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

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
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
95-50-1	1,2-Dichlorobenzene	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
120-82-1	1,2,4-Trichlorobenzene	420	U
91-20-3	Naphthalene	330	J
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	310	J
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	840	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	840	U
131-11-3	Dimethylphthalate	420	U
208-96-8	Acenaphthylene	2500	
606-20-2	2,6-Dinitrotoluene	420	U
99-09-2	3-Nitroaniline	840	U
83-32-9	Acenaphthene	150	J
51-28-5	2,4-Dinitrophenol	840	U
100-02-7	4-Nitrophenol	840	U
132-64-9	Dibenzofuran	230	J
121-14-2	2,4-Dinitrotoluene	420	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-36

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-17A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2396.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
86-73-7	Fluorene	190	J
100-01-6	4-Nitroaniline	840	U
534-52-1	4,6-Dinitro-2-methylphenol	840	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	840	U
85-01-8	Phenanthrene	1400	
120-12-7	Anthracene	1700	
86-74-8	Carbazole	420	J
84-74-2	Di-n-butylphthalate	420	U
206-44-0	Fluoranthene	4800	
129-00-0	Pyrene	3900	
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	2900	
218-01-9	Chrysene	3500	
117-81-7	Bis(2-ethylhexyl)phthalate	420	U
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	4700	
207-08-9	Benzo(k)fluoranthene	2200	
50-32-8	Benzo(a)pyrene	2900	
193-39-5	Indeno(1,2,3-cd)pyrene	2300	
53-70-3	Dibenzo(a,h)anthracene	910	
191-24-2	Benzo(g,h,i)perylene	2300	

SW846

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SI-SS-36

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-17A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2396.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	203-64-5	4H-Cyclopenta[def]phenanthre	11.831	600	NJ
02		Unknown-01	12.483	220	J
03	238-84-6	11H-Benzo[a]fluorene	12.803	230	NJ
04		Unknown-02	12.883	230	J
05	243-17-4	11H-Benzo[b]fluorene	12.899	270	NJ
06	2381-21-7	Pyrene, 1-methyl-	12.985	390	NJ
07	479-79-8	11H-Benzo[a]fluoren-11-one	13.343	250	NJ
08	243-46-9	Benzo[b]naphtho[2,3-d]thioph	13.428	250	NJ
09	479-79-8	11H-Benzo[a]fluoren-11-one	13.524	210	NJ
10	205-43-6	Benzo[b]naphtho[1,2-d]thioph	13.562	190	NJ
11	3351-28-8	Chrysene, 1-methyl-	13.978	330	NJ
12		Unknown-03	14.085	440	J
13	112-84-5	13-Docosenamide, (Z)-	14.331	650	NJ
14	604-53-5	1,1'-Binaphthalene	14.390	880	NJ
15	192-97-2	Benzo[e]pyrene	14.587	2200	NJ
16	297-03-0	Cyclotetracosane	14.609	830	NJ
17	192-97-2	Benzo[e]pyrene	14.716	3100	NJ
18	192-97-2	Benzo[e]pyrene	14.817	1400	NJ
19	630-02-4	Octacosane	15.079	990	NJ
20		Unknown-04	16.414	790	J
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-37

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-18A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2408.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9.0 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

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	360	U
111-44-4	Bis(2-chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2´-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
111-91-1	Bis(2-chloroethoxy)methane	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	730	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	730	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	290	J
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	730	U
83-32-9	Acenaphthene	360	U
51-28-5	2,4-Dinitrophenol	730	U
100-02-7	4-Nitrophenol	730	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-37

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-18A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2408.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9.0 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	730	U
534-52-1	4,6-Dinitro-2-methylphenol	730	U
86-30-6	N-Nitrosodiphenylamine	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	730	U
85-01-8	Phenanthrene	200	J
120-12-7	Anthracene	160	J
86-74-8	Carbazole	360	U
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	530	
129-00-0	Pyrene	470	
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	370	
218-01-9	Chrysene	430	
117-81-7	Bis(2-ethylhexyl)phthalate	360	U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	770	
207-08-9	Benzo(k)fluoranthene	230	J
50-32-8	Benzo(a)pyrene	520	
193-39-5	Indeno(1,2,3-cd)pyrene	440	
53-70-3	Dibenzo(a,h)anthracene	130	J
191-24-2	Benzo(g,h,i)perylene	560	

SW846

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SI-SS-37

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-18A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2408.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9.0 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	87-44-5	Caryophyllene	8.270	180	NJ
02		Unknown-01	10.471	1200	J
03	2416-20-8	Hexadecenoic acid, Z-11-	11.818	270	NJ
04	57-10-3	n-Hexadecanoic acid	11.855	170	NJ
05	301-02-0	9-Octadecenamide, (Z)-	13.191	480	NJ
06	638-67-5	Tricosane	14.051	200	NJ
07	301-02-0	9-Octadecenamide, (Z)-	14.280	230	NJ
08	630-03-5	Nonacosane	14.542	360	NJ
09	205-82-3	Benzo[j]fluoranthene	14.649	360	NJ
10	593-45-3	Octadecane	15.018	200	NJ
11	83-48-7	Stigmasterol	15.616	480	NJ
12	000214-20-7	Stigmasterol, 22,23-dihydro-	15.814	330	NJ
13		Unknown-02	16.316	440	J
14	559-74-0	Friedelan-3-one	16.797	1400	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-38

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-19A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2409.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

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
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
95-50-1	1,2-Dichlorobenzene	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
120-82-1	1,2,4-Trichlorobenzene	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

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-38

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-19A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2409.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
86-73-7	Fluorene	400	U
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	130	J
120-12-7	Anthracene	400	U
86-74-8	Carbazole	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	290	J
129-00-0	Pyrene	260	J
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3´-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	160	J
218-01-9	Chrysene	200	J
117-81-7	Bis(2-ethylhexyl)phthalate	400	U
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	270	J
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	190	J
193-39-5	Indeno(1,2,3-cd)pyrene	130	J
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	150	J

SW846

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SI-SS-38

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-19A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2409.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	7.245	720	J
02	2416-20-8	Hexadecenoic acid, Z-11-	11.823	510	NJ
03	57-10-3	n-Hexadecanoic acid	11.866	520	NJ
04	301-02-0	9-Octadecenamide, (Z)-	13.191	730	NJ
05	481-74-3	9,10-Anthracenedione, 1,8-di	13.228	270	NJ
06	18435-45-5	1-Nonadecene	13.527	380	NJ
07	629-78-7	Heptadecane	14.051	670	NJ
08	112-84-5	13-Docosenamide, (Z)-	14.280	270	NJ
09	7683-64-9	Squalene	14.345	240	NJ
10	14811-95-1	1,19-Eicosadiene	14.403	360	NJ
11	646-31-1	Tetracosane	14.542	1200	NJ
12	297-03-0	Cyclotetracosane	14.558	1300	NJ
13	630-04-6	Hentriacontane	15.012	590	NJ
14	27519-02-4	9-Tricosene, (Z)-	15.044	300	NJ
15	7494-34-0	26-Nor-5-cholesten-3.beta.-o	15.215	220	NJ
16	629-96-9	1-Eicosanol	15.616	490	NJ
17	83-47-6	.gamma.-Sitosterol	15.814	1700	NJ
18	1058-61-3	Stigmast-4-en-3-one	16.305	660	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-39

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-20A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2410.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8.0 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

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	350	U
111-44-4	Bis(2-chloroethyl)ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2'-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
111-91-1	Bis(2-chloroethoxy)methane	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	720	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	720	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	140	J
606-20-2	2,6-Dinitrotoluene	350	U
99-09-2	3-Nitroaniline	720	U
83-32-9	Acenaphthene	350	U
51-28-5	2,4-Dinitrophenol	720	U
100-02-7	4-Nitrophenol	720	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-39

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-20A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2410.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8.0 Decanted: (Y/N) N Date Received: 08/21/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/22/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 08/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U
100-01-6	4-Nitroaniline	720	U
534-52-1	4,6-Dinitro-2-methylphenol	720	U
86-30-6	N-Nitrosodiphenylamine	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	720	U
85-01-8	Phenanthrene	120	J
120-12-7	Anthracene	350	U
86-74-8	Carbazole	350	U
84-74-2	Di-n-butylphthalate	350	U
206-44-0	Fluoranthene	390	
129-00-0	Pyrene	350	
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3´-Dichlorobenzidine	350	U
56-55-3	Benzo(a)anthracene	260	J
218-01-9	Chrysene	280	J
117-81-7	Bis(2-ethylhexyl)phthalate	350	U
117-84-0	Di-n-octylphthalate	350	U
205-99-2	Benzo(b)fluoranthene	420	
207-08-9	Benzo(k)fluoranthene	220	J
50-32-8	Benzo(a)pyrene	290	J
193-39-5	Indeno(1,2,3-cd)pyrene	240	J
53-70-3	Dibenzo(a,h)anthracene	350	U
191-24-2	Benzo(g,h,i)perylene	280	J

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SI-SS-39

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1369
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1369-20A
Sample wt/vol: 30.5 (g/mL) G
Lab File ID: S3F2410.D
Level: (TRACE or LOW/MED) LOW
Extraction: (Type) SONC
% Moisture: 8.0
Decanted: (Y/N) N
Date Received: 08/21/2008
Concentrated Extract Volume: 1000 (uL)
Date Extracted: 08/22/2008
Injection Volume: 1.0 (uL)
GPC Factor: 1.00
Date Analyzed: 08/28/2008
GPC Cleanup: (Y/N) N
pH:
Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	11.818	280	J
02	57-10-3	n-Hexadecanoic acid	11.855	150	NJ
03		Unknown-02	13.191	510	J
04	629-78-7	Heptadecane	14.051	140	NJ
05		Unknown-03	14.281	210	J
06	593-45-3	Octadecane	14.542	340	NJ
07	27519-02-4	9-Tricosene, (Z)-	14.558	280	NJ
08	205-82-3	Benzo[j]fluoranthene	14.649	220	NJ
09	7494-34-0	26-Nor-5-cholesten-3.beta.-o	15.221	270	NJ
10	83-48-7	Stigmasterol	15.616	250	NJ
11	83-46-5	.beta.-Sitosterol	15.814	580	NJ
12		Unknown-04	16.316	260	J
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-01A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: E1H0128F.D/E1H0128R.D

% Moisture: 15 Decanted: (Y/N) N Date Received: 08/21/2008

Extraction: (Type) SONC Date Extracted: 08/21/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/22/2008

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	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U
11096-82-5	Aroclor-1260	39	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-02

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-02A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: E1H0308F.D/E1H0308R.D

% Moisture: 9.0 Decanted: (Y/N) N Date Received: 08/21/2008

Extraction: (Type) SONC Date Extracted: 08/21/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/26/2008

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	36	U
11104-28-2	Aroclor-1221	36	U
11141-16-5	Aroclor-1232	36	U
53469-21-9	Aroclor-1242	36	U
12672-29-6	Aroclor-1248	36	U
11097-69-1	Aroclor-1254	47	
11096-82-5	Aroclor-1260	36	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-03

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-03A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: E1H0130F.D/E1H0130R.D

% Moisture: 13 Decanted: (Y/N) N Date Received: 08/21/2008

Extraction: (Type) SONC Date Extracted: 08/21/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/22/2008

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	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-04

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-04A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: E1H0131F.D/E1H0131R.D

% Moisture: 17 Decanted: (Y/N) N Date Received: 08/21/2008

Extraction: (Type) SONC Date Extracted: 08/21/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/22/2008

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

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-05

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-05A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: E1H0132F.D/E1H0132R.D

% Moisture: 14 Decanted: (Y/N) N Date Received: 08/21/2008

Extraction: (Type) SONC Date Extracted: 08/21/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/22/2008

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	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-06

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-06A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: E1H0133F.D/E1H0133R.D

% Moisture: 16 Decanted: (Y/N) N Date Received: 08/21/2008

Extraction: (Type) SONC Date Extracted: 08/21/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/22/2008

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	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U
11096-82-5	Aroclor-1260	39	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-07

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-07A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: E1H0309F.D/E1H0309R.D

% Moisture: 10 Decanted: (Y/N) N Date Received: 08/21/2008

Extraction: (Type) SONC Date Extracted: 08/21/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/26/2008

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	37	U
11104-28-2	Aroclor-1221	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	37	U
11096-82-5	Aroclor-1260	37	U

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1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-08

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-08A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: E1H0310F.D/E1H0310R.D

% Moisture: 24 Decanted: (Y/N) N Date Received: 08/21/2008

Extraction: (Type) SONC Date Extracted: 08/21/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/26/2008

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	55	
11096-82-5	Aroclor-1260	43	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-09

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-09A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: E1H0141F.D/E1H0141R.D

% Moisture: 27 Decanted: (Y/N) N Date Received: 08/21/2008

Extraction: (Type) SONC Date Extracted: 08/21/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/22/2008

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	45	U
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	45	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-10

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-10A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: E1H0311F.D/E1H0311R.D

% Moisture: 19 Decanted: (Y/N) N Date Received: 08/21/2008

Extraction: (Type) SONC Date Extracted: 08/21/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/26/2008

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	170	
11097-69-1	Aroclor-1254	40	U
11096-82-5	Aroclor-1260	40	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-11

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-11A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: E1H0143F.D/E1H0143R.D

% Moisture: 26 Decanted: (Y/N) N Date Received: 08/21/2008

Extraction: (Type) SONC Date Extracted: 08/21/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/22/2008

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

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-12

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-12A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: E1H0312F.D/E1H0312R.D

% Moisture: 13 Decanted: (Y/N) N Date Received: 08/21/2008

Extraction: (Type) SONC Date Extracted: 08/21/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/26/2008

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	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	68	
11096-82-5	Aroclor-1260	38	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-13

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1368-13A

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: E1H0347F.D/E1H0347R.D

% Moisture: 21

Decanted: (Y/N) N

Date Received: 08/21/2008

Extraction: (Type) SONC

Date Extracted: 08/21/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 08/27/2008

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	100	
11096-82-5	Aroclor-1260	42	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-14

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1368-14A

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: E1H0348F.D/E1H0348R.D

% Moisture: 15

Decanted: (Y/N) N

Date Received: 08/21/2008

Extraction: (Type) SONC

Date Extracted: 08/21/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 08/27/2008

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	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	40	
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-15

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1368-15A

Sample wt/vol: 30.4 (g/mL) G

Lab File ID: E1H0349F.D/E1H0349R.D

% Moisture: 15

Decanted: (Y/N) N

Date Received: 08/21/2008

Extraction: (Type) SONC

Date Extracted: 08/21/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 08/27/2008

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	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	180	
11096-82-5	Aroclor-1260	38	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-16

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-16A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E1H0150F.D/E1H0150R.D

% Moisture: 13 Decanted: (Y/N) N Date Received: 08/21/2008

Extraction: (Type) SONC Date Extracted: 08/21/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/22/2008

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	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-17

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1368-17A

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: E1H0156F.D/E1H0156R.D

% Moisture: 19

Decanted: (Y/N) N

Date Received: 08/21/2008

Extraction: (Type) SONC

Date Extracted: 08/21/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 08/23/2008

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

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-18

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1368-18A

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1H0157F.D/E1H0157R.D

% Moisture: 22

Decanted: (Y/N) N

Date Received: 08/21/2008

Extraction: (Type) SONC

Date Extracted: 08/21/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 08/23/2008

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

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-19

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1368-19A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: E1H0158F.D/E1H0158R.D

% Moisture: 13 Decanted: (Y/N) N Date Received: 08/21/2008

Extraction: (Type) SONC Date Extracted: 08/21/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/23/2008

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	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-20

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM Case No.:

Mod. Ref No.: SDG No.: MG1368

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1368-20A

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: E1H0159F.D/E1H0159R.D

% Moisture: 17 Decanted: (Y/N) N

Date Received: 08/21/2008

Extraction: (Type) SONC

Date Extracted: 08/21/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 08/23/2008

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	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U
11096-82-5	Aroclor-1260	82	P

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-21

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-01A

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: E3F5512F.D/E3F5512R.D

% Moisture: 15

Decanted: (Y/N) N

Date Received: 08/21/2008

Extraction: (Type) SONC

Date Extracted: 08/22/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 08/28/2008

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	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-22

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-02A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: E3F5899F.D/E3F5899R.D

% Moisture: 15 Decanted: (Y/N) N Date Received: 08/21/2008

Extraction: (Type) SONC Date Extracted: 08/22/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/10/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 3.0

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	U
11104-28-2	Aroclor-1221	120	U
11141-16-5	Aroclor-1232	120	U
53469-21-9	Aroclor-1242	340	
12672-29-6	Aroclor-1248	120	U
11097-69-1	Aroclor-1254	740	
11096-82-5	Aroclor-1260	120	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-23

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-04A

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: E3F5515F.D/E3F5515R.D

% Moisture: 14

Decanted: (Y/N) N

Date Received: 08/21/2008

Extraction: (Type) SONC

Date Extracted: 08/22/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 08/28/2008

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	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	240	
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	410	
11096-82-5	Aroclor-1260	38	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-24

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-05A

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: E3F5823F.D/E3F5823R.D

% Moisture: 11

Decanted: (Y/N) N

Date Received: 08/21/2008

Extraction: (Type) SONC

Date Extracted: 08/22/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 09/09/2008

Injection Volume: 1.0 (uL)

GPC Factor: 1.00

Dilution Factor: 5.0

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	180	U
11104-28-2	Aroclor-1221	180	U
11141-16-5	Aroclor-1232	180	U
53469-21-9	Aroclor-1242	180	U
12672-29-6	Aroclor-1248	180	U
11097-69-1	Aroclor-1254	180	U
11096-82-5	Aroclor-1260	990	

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-25

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-06A

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: E3F5517F.D/E3F5517R.D

% Moisture: 15

Decanted: (Y/N) N

Date Received: 08/21/2008

Extraction: (Type) SONC

Date Extracted: 08/22/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 08/28/2008

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	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	320	P
11096-82-5	Aroclor-1260	39	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-26

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-07A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: E3F5518F.D/E3F5518R.D

% Moisture: 19 Decanted: (Y/N) N Date Received: 08/21/2008

Extraction: (Type) SONC Date Extracted: 08/22/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/28/2008

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	240	
11096-82-5	Aroclor-1260	40	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-27

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-08A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: E3F5570F.D/E3F5570R.D

% Moisture: 20 Decanted: (Y/N) N Date Received: 08/21/2008

Extraction: (Type) SONC Date Extracted: 08/22/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/29/2008

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	140	
11096-82-5	Aroclor-1260	41	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-28

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-09A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: E3F5571F.D/E3F5571R.D

% Moisture: 19 Decanted: (Y/N) N Date Received: 08/21/2008

Extraction: (Type) SONC Date Extracted: 08/22/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/29/2008

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	64	
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	62	
11096-82-5	Aroclor-1260	40	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-29

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1369-10A

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: E3F5572F.D/E3F5572R.D

% Moisture: 15

Decanted: (Y/N) N

Date Received: 08/21/2008

Extraction: (Type) SONC

Date Extracted: 08/22/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 08/29/2008

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	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	70	
11096-82-5	Aroclor-1260	39	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-30

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-11A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: E3F5573F.D/E3F5573R.D

% Moisture: 20 Decanted: (Y/N) N Date Received: 08/21/2008

Extraction: (Type) SONC Date Extracted: 08/22/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/29/2008

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

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-31

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-12A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: E3F5574F.D/E3F5574R.D

% Moisture: 14 Decanted: (Y/N) N Date Received: 08/21/2008

Extraction: (Type) SONC Date Extracted: 08/22/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/29/2008

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	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-32

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-13A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: E3F5575F.D/E3F5575R.D

% Moisture: 26 Decanted: (Y/N) N Date Received: 08/21/2008

Extraction: (Type) SONC Date Extracted: 08/22/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/29/2008

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

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-33

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-14A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: E3F5576F.D/E3F5576R.D

% Moisture: 45 Decanted: (Y/N) N Date Received: 08/21/2008

Extraction: (Type) SONC Date Extracted: 08/22/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/29/2008

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	60	U
11104-28-2	Aroclor-1221	60	U
11141-16-5	Aroclor-1232	60	U
53469-21-9	Aroclor-1242	60	U
12672-29-6	Aroclor-1248	60	U
11097-69-1	Aroclor-1254	60	U
11096-82-5	Aroclor-1260	60	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-34

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-15A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: E3F5577F.D/E3F5577R.D

% Moisture: 25 Decanted: (Y/N) N Date Received: 08/21/2008

Extraction: (Type) SONC Date Extracted: 08/22/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/29/2008

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	55	
11096-82-5	Aroclor-1260	44	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-35

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-16A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: E3F5578F.D/E3F5578R.D

% Moisture: 31 Decanted: (Y/N) N Date Received: 08/21/2008

Extraction: (Type) SONC Date Extracted: 08/22/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/29/2008

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	47	U
11104-28-2	Aroclor-1221	47	U
11141-16-5	Aroclor-1232	47	U
53469-21-9	Aroclor-1242	47	U
12672-29-6	Aroclor-1248	47	U
11097-69-1	Aroclor-1254	47	U
11096-82-5	Aroclor-1260	47	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-36

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-17A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: E3F5579F.D/E3F5579R.D

% Moisture: 22 Decanted: (Y/N) N Date Received: 08/21/2008

Extraction: (Type) SONC Date Extracted: 08/22/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/29/2008

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

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-37

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-18A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: E3F5585F.D/E3F5585R.D

% Moisture: 9.0 Decanted: (Y/N) N Date Received: 08/21/2008

Extraction: (Type) SONC Date Extracted: 08/22/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/29/2008

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	36	U
11104-28-2	Aroclor-1221	36	U
11141-16-5	Aroclor-1232	36	U
53469-21-9	Aroclor-1242	36	U
12672-29-6	Aroclor-1248	36	U
11097-69-1	Aroclor-1254	36	U
11096-82-5	Aroclor-1260	36	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-38

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-19A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: E3F5586F.D/E3F5586R.D

% Moisture: 19 Decanted: (Y/N) N Date Received: 08/21/2008

Extraction: (Type) SONC Date Extracted: 08/22/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/29/2008

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

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SS-39

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1369

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1369-20A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: E3F5587F.D/E3F5587R.D

% Moisture: 8.0 Decanted: (Y/N) N Date Received: 08/21/2008

Extraction: (Type) SONC Date Extracted: 08/22/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/29/2008

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	35	U
11104-28-2	Aroclor-1221	35	U
11141-16-5	Aroclor-1232	35	U
53469-21-9	Aroclor-1242	35	U
12672-29-6	Aroclor-1248	35	U
11097-69-1	Aroclor-1254	35	U
11096-82-5	Aroclor-1260	35	U

SW846

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-01

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1368

Matrix (soil/water): SOIL Lab Sample ID: G1368-01

Level (low/med): MED Date Received: 08/21/2008

% Solids: 85.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3330			P
7440-36-0	Antimony	0.33	B	N	P
7440-38-2	Arsenic	3.1			P
7440-39-3	Barium	34.1			P
7440-41-7	Beryllium	0.19	B	E	P
7440-43-9	Cadmium	0.30		E	P
7440-70-2	Calcium	128000			P
7440-47-3	Chromium	10.4		*	P
7440-48-4	Cobalt	3.8		E	P
7440-50-8	Copper	45.5			P
7439-89-6	Iron	17500			P
7439-92-1	Lead	53.0		E	P
7439-95-4	Magnesium	3880		E	P
7439-96-5	Manganese	315		E	P
7439-97-6	Mercury	0.089			CV
7440-02-0	Nickel	12.7		*E	P
7440-09-7	Potassium	620			P
7782-49-2	Selenium	3.7			P
7440-22-4	Silver	0.091	U		P
7440-23-5	Sodium	91.5			P
7440-28-0	Thallium	0.50	B	N	P
7440-62-2	Vanadium	8.4			P
7440-66-6	Zinc	65.5		E	P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-02

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1368

Matrix (soil/water): SOIL Lab Sample ID: G1368-02

Level (low/med): MED Date Received: 08/21/2008

% Solids: 91.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3690			P
7440-36-0	Antimony	0.49	B	N	P
7440-38-2	Arsenic	4.5			P
7440-39-3	Barium	35.9			P
7440-41-7	Beryllium	0.23		E	P
7440-43-9	Cadmium	0.71		E	P
7440-70-2	Calcium	49000			P
7440-47-3	Chromium	10.9		*	P
7440-48-4	Cobalt	3.6		E	P
7440-50-8	Copper	126			P
7439-89-6	Iron	16600			P
7439-92-1	Lead	126		E	P
7439-95-4	Magnesium	2060		E	P
7439-96-5	Manganese	258		E	P
7439-97-6	Mercury	0.14			CV
7440-02-0	Nickel	13.1		*E	P
7440-09-7	Potassium	385			P
7782-49-2	Selenium	1.1			P
7440-22-4	Silver	0.072	U		P
7440-23-5	Sodium	83.8			P
7440-28-0	Thallium	0.31	B	N	P
7440-62-2	Vanadium	9.2			P
7440-66-6	Zinc	137		E	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-03

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1368

Matrix (soil/water): SOIL Lab Sample ID: G1368-03

Level (low/med): MED Date Received: 08/21/2008

% Solids: 87.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2880			P
7440-36-0	Antimony	0.23	B	N	P
7440-38-2	Arsenic	2.5			P
7440-39-3	Barium	27.0			P
7440-41-7	Beryllium	0.17		E	P
7440-43-9	Cadmium	0.24		E	P
7440-70-2	Calcium	117000			P
7440-47-3	Chromium	6.7		*	P
7440-48-4	Cobalt	1.6	B	E	P
7440-50-8	Copper	27.5			P
7439-89-6	Iron	14200			P
7439-92-1	Lead	39.8		E	P
7439-95-4	Magnesium	7980		E	P
7439-96-5	Manganese	229		E	P
7439-97-6	Mercury	0.087			CV
7440-02-0	Nickel	7.4		*E	P
7440-09-7	Potassium	417			P
7782-49-2	Selenium	3.0			P
7440-22-4	Silver	0.070	U		P
7440-23-5	Sodium	133			P
7440-28-0	Thallium	0.45	B	N	P
7440-62-2	Vanadium	5.7			P
7440-66-6	Zinc	46.5		E	P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-04

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1368

Matrix (soil/water): SOIL Lab Sample ID: G1368-04

Level (low/med): MED Date Received: 08/21/2008

% Solids: 83.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5450			P
7440-36-0	Antimony	0.64	B	N	P
7440-38-2	Arsenic	6.3			P
7440-39-3	Barium	49.5			P
7440-41-7	Beryllium	0.42		E	P
7440-43-9	Cadmium	0.37		E	P
7440-70-2	Calcium	82800			P
7440-47-3	Chromium	9.1		*	P
7440-48-4	Cobalt	3.7		E	P
7440-50-8	Copper	46.5			P
7439-89-6	Iron	28800			P
7439-92-1	Lead	147		E	P
7439-95-4	Magnesium	5270		E	P
7439-96-5	Manganese	306		E	P
7439-97-6	Mercury	3.0			CV
7440-02-0	Nickel	10.4		*E	P
7440-09-7	Potassium	741			P
7782-49-2	Selenium	1.6			P
7440-22-4	Silver	0.079	U		P
7440-23-5	Sodium	198			P
7440-28-0	Thallium	0.31	B	N	P
7440-62-2	Vanadium	16.4			P
7440-66-6	Zinc	79.3		E	P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-05

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1368

Matrix (soil/water): SOIL Lab Sample ID: G1368-05

Level (low/med): MED Date Received: 08/21/2008

% Solids: 86.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2670			P
7440-36-0	Antimony	0.31	B	N	P
7440-38-2	Arsenic	2.9			P
7440-39-3	Barium	22.2			P
7440-41-7	Beryllium	0.18	B	E	P
7440-43-9	Cadmium	0.45		E	P
7440-70-2	Calcium	118000			P
7440-47-3	Chromium	8.4		*	P
7440-48-4	Cobalt	2.3		E	P
7440-50-8	Copper	46.7			P
7439-89-6	Iron	17700			P
7439-92-1	Lead	50.2		E	P
7439-95-4	Magnesium	6800		E	P
7439-96-5	Manganese	291		E	P
7439-97-6	Mercury	0.038			CV
7440-02-0	Nickel	10.9		*E	P
7440-09-7	Potassium	475			P
7782-49-2	Selenium	2.8			P
7440-22-4	Silver	0.077	U		P
7440-23-5	Sodium	83.6			P
7440-28-0	Thallium	0.59	B	N	P
7440-62-2	Vanadium	6.6			P
7440-66-6	Zinc	140		E	P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-06

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1368

Matrix (soil/water): SOIL Lab Sample ID: G1368-06

Level (low/med): MED Date Received: 08/21/2008

% Solids: 84.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2540			P
7440-36-0	Antimony	0.61	B	N	P
7440-38-2	Arsenic	10.2			P
7440-39-3	Barium	48.6			P
7440-41-7	Beryllium	0.31		E	P
7440-43-9	Cadmium	0.26		E	P
7440-70-2	Calcium	3460			P
7440-47-3	Chromium	8.3		*	P
7440-48-4	Cobalt	3.2		E	P
7440-50-8	Copper	51.3			P
7439-89-6	Iron	16600			P
7439-92-1	Lead	92.8		E	P
7439-95-4	Magnesium	307		E	P
7439-96-5	Manganese	284		E	P
7439-97-6	Mercury	0.19			CV
7440-02-0	Nickel	12.2		*E	P
7440-09-7	Potassium	319			P
7782-49-2	Selenium	1.0	B		P
7440-22-4	Silver	0.083	U		P
7440-23-5	Sodium	66.8			P
7440-28-0	Thallium	0.26	U	N	P
7440-62-2	Vanadium	9.8			P
7440-66-6	Zinc	58.2		E	P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-07

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1368

Matrix (soil/water): SOIL Lab Sample ID: G1368-07

Level (low/med): MED Date Received: 08/21/2008

% Solids: 90.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2750			P
7440-36-0	Antimony	0.65	B	N	P
7440-38-2	Arsenic	6.5			P
7440-39-3	Barium	37.0			P
7440-41-7	Beryllium	0.23		E	P
7440-43-9	Cadmium	0.38		E	P
7440-70-2	Calcium	58600			P
7440-47-3	Chromium	12.7		*	P
7440-48-4	Cobalt	3.1		E	P
7440-50-8	Copper	90.2			P
7439-89-6	Iron	19100			P
7439-92-1	Lead	82.4		E	P
7439-95-4	Magnesium	2190		E	P
7439-96-5	Manganese	290		E	P
7439-97-6	Mercury	0.082			CV
7440-02-0	Nickel	14.3		*E	P
7440-09-7	Potassium	377			P
7782-49-2	Selenium	1.9			P
7440-22-4	Silver	0.076	U		P
7440-23-5	Sodium	87.7			P
7440-28-0	Thallium	0.39	B	N	P
7440-62-2	Vanadium	8.5			P
7440-66-6	Zinc	72.8		E	P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-08

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1368

Matrix (soil/water): SOIL Lab Sample ID: G1368-08

Level (low/med): MED Date Received: 08/21/2008

% Solids: 76.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4510			P
7440-36-0	Antimony	0.89		N	P
7440-38-2	Arsenic	13.9			P
7440-39-3	Barium	62.8			P
7440-41-7	Beryllium	0.65		E	P
7440-43-9	Cadmium	0.70		E	P
7440-70-2	Calcium	9840			P
7440-47-3	Chromium	11.3		*	P
7440-48-4	Cobalt	8.2		E	P
7440-50-8	Copper	80.5			P
7439-89-6	Iron	35600			P
7439-92-1	Lead	230		E	P
7439-95-4	Magnesium	1120		E	P
7439-96-5	Manganese	311		E	P
7439-97-6	Mercury	0.29			CV
7440-02-0	Nickel	17.4		*E	P
7440-09-7	Potassium	609			P
7782-49-2	Selenium	1.2			P
7440-22-4	Silver	0.088	U		P
7440-23-5	Sodium	43.1			P
7440-28-0	Thallium	0.29	B	N	P
7440-62-2	Vanadium	15.8			P
7440-66-6	Zinc	137		E	P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-09

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1368

Matrix (soil/water): SOIL Lab Sample ID: G1368-09

Level (low/med): MED Date Received: 08/21/2008

% 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	4450			P
7440-36-0	Antimony	2.8		N	P
7440-38-2	Arsenic	12.1			P
7440-39-3	Barium	78.1			P
7440-41-7	Beryllium	0.37		E	P
7440-43-9	Cadmium	1.1		E	P
7440-70-2	Calcium	8340			P
7440-47-3	Chromium	16.4		*	P
7440-48-4	Cobalt	4.8		E	P
7440-50-8	Copper	78.1			P
7439-89-6	Iron	27500			P
7439-92-1	Lead	463		E	P
7439-95-4	Magnesium	780		E	P
7439-96-5	Manganese	309		E	P
7439-97-6	Mercury	0.56			CV
7440-02-0	Nickel	14.4		*E	P
7440-09-7	Potassium	744			P
7782-49-2	Selenium	2.1			P
7440-22-4	Silver	0.11	U		P
7440-23-5	Sodium	59.0			P
7440-28-0	Thallium	0.34	U	N	P
7440-62-2	Vanadium	12.9			P
7440-66-6	Zinc	202		E	P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-10

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1368

Matrix (soil/water): SOIL Lab Sample ID: G1368-10

Level (low/med): MED Date Received: 08/21/2008

% 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	3960			P
7440-36-0	Antimony	1.3		N	P
7440-38-2	Arsenic	17.3			P
7440-39-3	Barium	68.7			P
7440-41-7	Beryllium	0.52		E	P
7440-43-9	Cadmium	0.48		E	P
7440-70-2	Calcium	8470			P
7440-47-3	Chromium	10.9		*	P
7440-48-4	Cobalt	5.9		E	P
7440-50-8	Copper	131			P
7439-89-6	Iron	31900			P
7439-92-1	Lead	172		E	P
7439-95-4	Magnesium	1210		E	P
7439-96-5	Manganese	238		E	P
7439-97-6	Mercury	0.28			CV
7440-02-0	Nickel	14.5		*E	P
7440-09-7	Potassium	463			P
7782-49-2	Selenium	1.6			P
7440-22-4	Silver	0.089	U		P
7440-23-5	Sodium	61.2			P
7440-28-0	Thallium	0.37	B	N	P
7440-62-2	Vanadium	13.3			P
7440-66-6	Zinc	91.8		E	P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-11

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1368

Matrix (soil/water): SOIL Lab Sample ID: G1368-11

Level (low/med): MED Date Received: 08/21/2008

% Solids: 74.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4110			P
7440-36-0	Antimony	4.2		N	P
7440-38-2	Arsenic	33.8			P
7440-39-3	Barium	95.2			P
7440-41-7	Beryllium	0.56		E	P
7440-43-9	Cadmium	0.70		E	P
7440-70-2	Calcium	13700			P
7440-47-3	Chromium	18.4		*	P
7440-48-4	Cobalt	5.5		E	P
7440-50-8	Copper	148			P
7439-89-6	Iron	38500			P
7439-92-1	Lead	211		E	P
7439-95-4	Magnesium	1200		E	P
7439-96-5	Manganese	258		E	P
7439-97-6	Mercury	0.27			CV
7440-02-0	Nickel	17.4		*E	P
7440-09-7	Potassium	592			P
7782-49-2	Selenium	0.84	B		P
7440-22-4	Silver	0.090	U		P
7440-23-5	Sodium	68.6			P
7440-28-0	Thallium	0.28	U	N	P
7440-62-2	Vanadium	15.4			P
7440-66-6	Zinc	161		E	P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-12

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1368

Matrix (soil/water): SOIL Lab Sample ID: G1368-12

Level (low/med): MED Date Received: 08/21/2008

% Solids: 87.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3850			P
7440-36-0	Antimony	0.89		N	P
7440-38-2	Arsenic	4.1			P
7440-39-3	Barium	45.4			P
7440-41-7	Beryllium	0.21		E	P
7440-43-9	Cadmium	0.55		E	P
7440-70-2	Calcium	10100			P
7440-47-3	Chromium	12.6		*	P
7440-48-4	Cobalt	2.1		E	P
7440-50-8	Copper	86.7			P
7439-89-6	Iron	17000			P
7439-92-1	Lead	119		E	P
7439-95-4	Magnesium	1080		E	P
7439-96-5	Manganese	276		E	P
7439-97-6	Mercury	0.064			CV
7440-02-0	Nickel	15.2		*E	P
7440-09-7	Potassium	388			P
7782-49-2	Selenium	0.69	B		P
7440-22-4	Silver	0.071	U		P
7440-23-5	Sodium	53.7			P
7440-28-0	Thallium	0.23	U	N	P
7440-62-2	Vanadium	10.0			P
7440-66-6	Zinc	114		E	P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-13

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1368

Matrix (soil/water): SOIL Lab Sample ID: G1368-13

Level (low/med): MED Date Received: 08/21/2008

% Solids: 79.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7790			P
7440-36-0	Antimony	0.25	B	N	P
7440-38-2	Arsenic	3.5			P
7440-39-3	Barium	88.0			P
7440-41-7	Beryllium	0.39		E	P
7440-43-9	Cadmium	0.26		E	P
7440-70-2	Calcium	172000			P
7440-47-3	Chromium	9.4		*	P
7440-48-4	Cobalt	1.7	B	E	P
7440-50-8	Copper	30.3			P
7439-89-6	Iron	8100			P
7439-92-1	Lead	44.7		E	P
7439-95-4	Magnesium	4620		E	P
7439-96-5	Manganese	377		E	P
7439-97-6	Mercury	0.088			CV
7440-02-0	Nickel	5.8		*E	P
7440-09-7	Potassium	1170			P
7782-49-2	Selenium	4.2			P
7440-22-4	Silver	0.074	U		P
7440-23-5	Sodium	420			P
7440-28-0	Thallium	0.57	B	N	P
7440-62-2	Vanadium	12.8			P
7440-66-6	Zinc	45.9		E	P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-14

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1368

Matrix (soil/water): SOIL Lab Sample ID: G1368-14

Level (low/med): MED Date Received: 08/21/2008

% Solids: 85.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2460			P
7440-36-0	Antimony	2.8		N	P
7440-38-2	Arsenic	3.4			P
7440-39-3	Barium	43.6			P
7440-41-7	Beryllium	0.18		E	P
7440-43-9	Cadmium	1.2		E	P
7440-70-2	Calcium	148000			P
7440-47-3	Chromium	13.6		*	P
7440-48-4	Cobalt	1.8		E	P
7440-50-8	Copper	104			P
7439-89-6	Iron	23900			P
7439-92-1	Lead	130		E	P
7439-95-4	Magnesium	2940		E	P
7439-96-5	Manganese	209		E	P
7439-97-6	Mercury	0.29			CV
7440-02-0	Nickel	12.0		*E	P
7440-09-7	Potassium	429			P
7782-49-2	Selenium	3.2			P
7440-22-4	Silver	0.074	U		P
7440-23-5	Sodium	82.0			P
7440-28-0	Thallium	0.54	B	N	P
7440-62-2	Vanadium	5.8			P
7440-66-6	Zinc	283		E	P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-15

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1368

Matrix (soil/water): SOIL Lab Sample ID: G1368-15

Level (low/med): MED Date Received: 08/21/2008

% Solids: 85.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2750			P
7440-36-0	Antimony	0.52	B	N	P
7440-38-2	Arsenic	2.1			P
7440-39-3	Barium	26.3			P
7440-41-7	Beryllium	0.17		E	P
7440-43-9	Cadmium	0.66		E	P
7440-70-2	Calcium	109000			P
7440-47-3	Chromium	11.5		*	P
7440-48-4	Cobalt	2.3		E	P
7440-50-8	Copper	67.5			P
7439-89-6	Iron	15800			P
7439-92-1	Lead	102		E	P
7439-95-4	Magnesium	4230		E	P
7439-96-5	Manganese	268		E	P
7439-97-6	Mercury	0.089			CV
7440-02-0	Nickel	6.8		*E	P
7440-09-7	Potassium	460			P
7782-49-2	Selenium	2.8			P
7440-22-4	Silver	0.072	U		P
7440-23-5	Sodium	69.8			P
7440-28-0	Thallium	0.52	B	N	P
7440-62-2	Vanadium	5.5			P
7440-66-6	Zinc	196		E	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-16

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1368

Matrix (soil/water): SOIL Lab Sample ID: G1368-16

Level (low/med): MED Date Received: 08/21/2008

% Solids: 87.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4330			P
7440-36-0	Antimony	0.72		N	P
7440-38-2	Arsenic	6.0			P
7440-39-3	Barium	43.4			P
7440-41-7	Beryllium	0.22		E	P
7440-43-9	Cadmium	1.6		E	P
7440-70-2	Calcium	58500			P
7440-47-3	Chromium	9.8		*	P
7440-48-4	Cobalt	2.3		E	P
7440-50-8	Copper	112			P
7439-89-6	Iron	25400			P
7439-92-1	Lead	989		E	P
7439-95-4	Magnesium	2940		E	P
7439-96-5	Manganese	383		E	P
7439-97-6	Mercury	0.11			CV
7440-02-0	Nickel	11.4		*E	P
7440-09-7	Potassium	451			P
7782-49-2	Selenium	1.7			P
7440-22-4	Silver	0.078	U		P
7440-23-5	Sodium	68.7			P
7440-28-0	Thallium	0.30	B	N	P
7440-62-2	Vanadium	10			P
7440-66-6	Zinc	242		E	P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-17

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1368

Matrix (soil/water): SOIL Lab Sample ID: G1368-17

Level (low/med): MED Date Received: 08/21/2008

% 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	5760			P
7440-36-0	Antimony	2.2		N	P
7440-38-2	Arsenic	9.3			P
7440-39-3	Barium	82.8			P
7440-41-7	Beryllium	0.39		E	P
7440-43-9	Cadmium	1.8		E	P
7440-70-2	Calcium	36400			P
7440-47-3	Chromium	21.2		*	P
7440-48-4	Cobalt	4.1		E	P
7440-50-8	Copper	178			P
7439-89-6	Iron	38900			P
7439-92-1	Lead	341		E	P
7439-95-4	Magnesium	1120		E	P
7439-96-5	Manganese	443		E	P
7439-97-6	Mercury	0.34			CV
7440-02-0	Nickel	23.3		*E	P
7440-09-7	Potassium	411			P
7782-49-2	Selenium	0.43	U		P
7440-22-4	Silver	0.10	B		P
7440-23-5	Sodium	65.3			P
7440-28-0	Thallium	0.25	U	N	P
7440-62-2	Vanadium	13.5			P
7440-66-6	Zinc	313		E	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-18

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1368

Matrix (soil/water): SOIL Lab Sample ID: G1368-18

Level (low/med): MED Date Received: 08/21/2008

% Solids: 78.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12700			P
7440-36-0	Antimony	0.11	U	N	P
7440-38-2	Arsenic	2.9			P
7440-39-3	Barium	110			P
7440-41-7	Beryllium	0.73		E	P
7440-43-9	Cadmium	0.28		E	P
7440-70-2	Calcium	9070			P
7440-47-3	Chromium	16.8		*	P
7440-48-4	Cobalt	8.6		E	P
7440-50-8	Copper	20.7			P
7439-89-6	Iron	25300			P
7439-92-1	Lead	16.1		E	P
7439-95-4	Magnesium	5750		E	P
7439-96-5	Manganese	490		E	P
7439-97-6	Mercury	0.061			CV
7440-02-0	Nickel	16.0		*E	P
7440-09-7	Potassium	2190			P
7782-49-2	Selenium	0.48	U		P
7440-22-4	Silver	0.088	U		P
7440-23-5	Sodium	167			P
7440-28-0	Thallium	0.28	U	N	P
7440-62-2	Vanadium	25.8			P
7440-66-6	Zinc	65.5		E	P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-19

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1368

Matrix (soil/water): SOIL Lab Sample ID: G1368-19

Level (low/med): MED Date Received: 08/21/2008

% Solids: 87.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4610			P
7440-36-0	Antimony	2.1		N	P
7440-38-2	Arsenic	5.7			P
7440-39-3	Barium	48.7			P
7440-41-7	Beryllium	0.25		E	P
7440-43-9	Cadmium	2.4		E	P
7440-70-2	Calcium	16000			P
7440-47-3	Chromium	20.6		*	P
7440-48-4	Cobalt	4.0		E	P
7440-50-8	Copper	553			P
7439-89-6	Iron	54300			P
7439-92-1	Lead	128		E	P
7439-95-4	Magnesium	1290		E	P
7439-96-5	Manganese	569		E	P
7439-97-6	Mercury	1.0			CV
7440-02-0	Nickel	32.6		*E	P
7440-09-7	Potassium	386			P
7782-49-2	Selenium	0.40	U		P
7440-22-4	Silver	0.074	U		P
7440-23-5	Sodium	63.1			P
7440-28-0	Thallium	0.23	U	N	P
7440-62-2	Vanadium	12.6			P
7440-66-6	Zinc	203		E	P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-20

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1368

Matrix (soil/water): SOIL Lab Sample ID: G1368-20

Level (low/med): MED Date Received: 08/21/2008

% Solids: 83.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3300			P
7440-36-0	Antimony	3.1		N	P
7440-38-2	Arsenic	9.4			P
7440-39-3	Barium	203			P
7440-41-7	Beryllium	0.15	B	E	P
7440-43-9	Cadmium	8.7		E	P
7440-70-2	Calcium	2150			P
7440-47-3	Chromium	27.5		*	P
7440-48-4	Cobalt	7.1		E	P
7440-50-8	Copper	185			P
7439-89-6	Iron	146000			P
7439-92-1	Lead	289		E	P
7439-95-4	Magnesium	577		E	P
7439-96-5	Manganese	657		E	P
7439-97-6	Mercury	0.23			CV
7440-02-0	Nickel	55.7		*E	P
7440-09-7	Potassium	300			P
7782-49-2	Selenium	0.42	U		P
7440-22-4	Silver	0.078	U		P
7440-23-5	Sodium	50.5			P
7440-28-0	Thallium	0.25	U	N	P
7440-62-2	Vanadium	8.1			P
7440-66-6	Zinc	2120		E	P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-21

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1369

Matrix (soil/water): SOIL Lab Sample ID: G1369-01

Level (low/med): MED Date Received: 08/21/2008

% Solids: 85.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4220			P
7440-36-0	Antimony	0.49	B	N	P
7440-38-2	Arsenic	5.0			P
7440-39-3	Barium	67.1			P
7440-41-7	Beryllium	0.18	B		P
7440-43-9	Cadmium	0.57			P
7440-70-2	Calcium	3430			P
7440-47-3	Chromium	20.6			P
7440-48-4	Cobalt	5.2		E	P
7440-50-8	Copper	66.9		N	P
7439-89-6	Iron	20300			P
7439-92-1	Lead	73.3		E	P
7439-95-4	Magnesium	769			P
7439-96-5	Manganese	341			P
7439-97-6	Mercury	0.10			CV
7440-02-0	Nickel	17.4			P
7440-09-7	Potassium	353			P
7782-49-2	Selenium	1.3	B		P
7440-22-4	Silver	0.10	U		P
7440-23-5	Sodium	69.2			P
7440-28-0	Thallium	0.33	U		P
7440-62-2	Vanadium	7.4			P
7440-66-6	Zinc	101		E	P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-22

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1369

Matrix (soil/water): SOIL Lab Sample ID: G1369-02

Level (low/med): MED Date Received: 08/21/2008

% Solids: 85.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2770			P
7440-36-0	Antimony	1.9		N	P
7440-38-2	Arsenic	5.3			P
7440-39-3	Barium	64.8			P
7440-41-7	Beryllium	0.15	B		P
7440-43-9	Cadmium	0.94			P
7440-70-2	Calcium	12600			P
7440-47-3	Chromium	20.2			P
7440-48-4	Cobalt	4.1		E	P
7440-50-8	Copper	175		N	P
7439-89-6	Iron	26700			P
7439-92-1	Lead	228		E	P
7439-95-4	Magnesium	861			P
7439-96-5	Manganese	272			P
7439-97-6	Mercury	0.16			CV
7440-02-0	Nickel	32.5			P
7440-09-7	Potassium	254			P
7782-49-2	Selenium	1.2	B		P
7440-22-4	Silver	0.095	U		P
7440-23-5	Sodium	42.4	B		P
7440-28-0	Thallium	0.30	U		P
7440-62-2	Vanadium	8.0			P
7440-66-6	Zinc	150		E	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-23

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1369

Matrix (soil/water): SOIL Lab Sample ID: G1369-04

Level (low/med): MED Date Received: 08/21/2008

% Solids: 86.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3040			P
7440-36-0	Antimony	2.8		N	P
7440-38-2	Arsenic	5.0			P
7440-39-3	Barium	54.7			P
7440-41-7	Beryllium	0.12	B		P
7440-43-9	Cadmium	1.5			P
7440-70-2	Calcium	2910			P
7440-47-3	Chromium	92.6			P
7440-48-4	Cobalt	6.1		E	P
7440-50-8	Copper	105		N	P
7439-89-6	Iron	82300			P
7439-92-1	Lead	495		E	P
7439-95-4	Magnesium	683			P
7439-96-5	Manganese	488			P
7439-97-6	Mercury	0.15			CV
7440-02-0	Nickel	68.1			P
7440-09-7	Potassium	284			P
7782-49-2	Selenium	0.45	U		P
7440-22-4	Silver	0.083	U		P
7440-23-5	Sodium	42.9			P
7440-28-0	Thallium	0.26	U		P
7440-62-2	Vanadium	8.6			P
7440-66-6	Zinc	173		E	P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-24

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1369

Matrix (soil/water): SOIL Lab Sample ID: G1369-05

Level (low/med): MED Date Received: 08/21/2008

% Solids: 89.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3160			P
7440-36-0	Antimony	4.0		N	P
7440-38-2	Arsenic	6.5			P
7440-39-3	Barium	58.2			P
7440-41-7	Beryllium	0.14	B		P
7440-43-9	Cadmium	2.7			P
7440-70-2	Calcium	4980			P
7440-47-3	Chromium	31.7			P
7440-48-4	Cobalt	6.9		E	P
7440-50-8	Copper	2650		N	P
7439-89-6	Iron	35500			P
7439-92-1	Lead	413		E	P
7439-95-4	Magnesium	848			P
7439-96-5	Manganese	401			P
7439-97-6	Mercury	0.42			CV
7440-02-0	Nickel	59.4			P
7440-09-7	Potassium	243			P
7782-49-2	Selenium	1.1	B		P
7440-22-4	Silver	0.70	B		P
7440-23-5	Sodium	34.1	B		P
7440-28-0	Thallium	0.26	U		P
7440-62-2	Vanadium	10.5			P
7440-66-6	Zinc	386		E	P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-25

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1369

Matrix (soil/water): SOIL Lab Sample ID: G1369-06

Level (low/med): MED Date Received: 08/21/2008

% Solids: 85.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2900			P
7440-36-0	Antimony	0.53	B	N	P
7440-38-2	Arsenic	4.3			P
7440-39-3	Barium	43.0			P
7440-41-7	Beryllium	0.10	B		P
7440-43-9	Cadmium	1.0			P
7440-70-2	Calcium	4870			P
7440-47-3	Chromium	20.5			P
7440-48-4	Cobalt	4.3		E	P
7440-50-8	Copper	79.7		N	P
7439-89-6	Iron	23000			P
7439-92-1	Lead	139		E	P
7439-95-4	Magnesium	1140			P
7439-96-5	Manganese	234			P
7439-97-6	Mercury	0.17			CV
7440-02-0	Nickel	31.7			P
7440-09-7	Potassium	249			P
7782-49-2	Selenium	0.46	B		P
7440-22-4	Silver	0.072	U		P
7440-23-5	Sodium	24.4	B		P
7440-28-0	Thallium	0.23	U		P
7440-62-2	Vanadium	9.2			P
7440-66-6	Zinc	165		E	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-26

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1369

Matrix (soil/water): SOIL Lab Sample ID: G1369-07

Level (low/med): MED Date Received: 08/21/2008

% 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	3920			P
7440-36-0	Antimony	0.41	B	N	P
7440-38-2	Arsenic	3.8			P
7440-39-3	Barium	33.4			P
7440-41-7	Beryllium	0.15	B		P
7440-43-9	Cadmium	0.79			P
7440-70-2	Calcium	3340			P
7440-47-3	Chromium	21.1			P
7440-48-4	Cobalt	4.9		E	P
7440-50-8	Copper	96.5		N	P
7439-89-6	Iron	50000			P
7439-92-1	Lead	77.3		E	P
7439-95-4	Magnesium	401			P
7439-96-5	Manganese	696			P
7439-97-6	Mercury	0.082			CV
7440-02-0	Nickel	41.7			P
7440-09-7	Potassium	385			P
7782-49-2	Selenium	0.54	U		P
7440-22-4	Silver	0.10	U		P
7440-23-5	Sodium	40.4	B		P
7440-28-0	Thallium	0.32	U		P
7440-62-2	Vanadium	8.8			P
7440-66-6	Zinc	93.4		E	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-27

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1369

Matrix (soil/water): SOIL Lab Sample ID: G1369-08

Level (low/med): MED Date Received: 08/21/2008

% Solids: 80.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4570			P
7440-36-0	Antimony	1.6		N	P
7440-38-2	Arsenic	3.3			P
7440-39-3	Barium	61.1			P
7440-41-7	Beryllium	0.25	B		P
7440-43-9	Cadmium	0.54			P
7440-70-2	Calcium	124000			P
7440-47-3	Chromium	15.6			P
7440-48-4	Cobalt	3.9		E	P
7440-50-8	Copper	58.2		N	P
7439-89-6	Iron	25600			P
7439-92-1	Lead	71.1		E	P
7439-95-4	Magnesium	4640			P
7439-96-5	Manganese	381			P
7439-97-6	Mercury	0.20			CV
7440-02-0	Nickel	20.0			P
7440-09-7	Potassium	565			P
7782-49-2	Selenium	3.5			P
7440-22-4	Silver	0.12	U		P
7440-23-5	Sodium	102			P
7440-28-0	Thallium	0.37	U		P
7440-62-2	Vanadium	7.7			P
7440-66-6	Zinc	92.4		E	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-28

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1369

Matrix (soil/water): SOIL Lab Sample ID: G1369-09

Level (low/med): MED Date Received: 08/21/2008

% 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	4770			P
7440-36-0	Antimony	0.31	B	N	P
7440-38-2	Arsenic	4.6			P
7440-39-3	Barium	97.7			P
7440-41-7	Beryllium	0.24			P
7440-43-9	Cadmium	0.39			P
7440-70-2	Calcium	150000			P
7440-47-3	Chromium	20.3			P
7440-48-4	Cobalt	3.9		E	P
7440-50-8	Copper	30.2		N	P
7439-89-6	Iron	25400			P
7439-92-1	Lead	37.5		E	P
7439-95-4	Magnesium	4800			P
7439-96-5	Manganese	488			P
7439-97-6	Mercury	0.11			CV
7440-02-0	Nickel	18.0			P
7440-09-7	Potassium	730			P
7782-49-2	Selenium	3.8			P
7440-22-4	Silver	0.089	U		P
7440-23-5	Sodium	155			P
7440-28-0	Thallium	0.55	B		P
7440-62-2	Vanadium	7.6			P
7440-66-6	Zinc	69.2		E	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-29

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1369

Matrix (soil/water): SOIL Lab Sample ID: G1369-10

Level (low/med): MED Date Received: 08/21/2008

% Solids: 85.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3410			P
7440-36-0	Antimony	0.59	B	N	P
7440-38-2	Arsenic	5.7			P
7440-39-3	Barium	90.2			P
7440-41-7	Beryllium	0.16	B		P
7440-43-9	Cadmium	0.71			P
7440-70-2	Calcium	65300			P
7440-47-3	Chromium	50.8			P
7440-48-4	Cobalt	5.5		E	P
7440-50-8	Copper	81.5		N	P
7439-89-6	Iron	43400			P
7439-92-1	Lead	114		E	P
7439-95-4	Magnesium	4610			P
7439-96-5	Manganese	530			P
7439-97-6	Mercury	0.14			CV
7440-02-0	Nickel	40.8			P
7440-09-7	Potassium	411			P
7782-49-2	Selenium	1.4			P
7440-22-4	Silver	0.097	U		P
7440-23-5	Sodium	64.0			P
7440-28-0	Thallium	0.31	U		P
7440-62-2	Vanadium	17.5			P
7440-66-6	Zinc	71.2		E	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-30

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1369

Matrix (soil/water): SOIL Lab Sample ID: G1369-11

Level (low/med): MED Date Received: 08/21/2008

% Solids: 80.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8920			P
7440-36-0	Antimony	0.15	U	N	P
7440-38-2	Arsenic	2.3			P
7440-39-3	Barium	62.0			P
7440-41-7	Beryllium	0.51			P
7440-43-9	Cadmium	0.28			P
7440-70-2	Calcium	44400			P
7440-47-3	Chromium	9.9			P
7440-48-4	Cobalt	3.9		E	P
7440-50-8	Copper	19.3		N	P
7439-89-6	Iron	15300			P
7439-92-1	Lead	38.9		E	P
7439-95-4	Magnesium	3000			P
7439-96-5	Manganese	554			P
7439-97-6	Mercury	0.088			CV
7440-02-0	Nickel	7.5			P
7440-09-7	Potassium	895			P
7782-49-2	Selenium	1.5	B		P
7440-22-4	Silver	0.12	U		P
7440-23-5	Sodium	84.4			P
7440-28-0	Thallium	0.77	B		P
7440-62-2	Vanadium	16.5			P
7440-66-6	Zinc	64.6		E	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-31

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1369

Matrix (soil/water): SOIL Lab Sample ID: G1369-12

Level (low/med): MED Date Received: 08/21/2008

% Solids: 86.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3010			P
7440-36-0	Antimony	0.13	B	N	P
7440-38-2	Arsenic	11.5			P
7440-39-3	Barium	29.4			P
7440-41-7	Beryllium	0.18	B		P
7440-43-9	Cadmium	0.32			P
7440-70-2	Calcium	126000			P
7440-47-3	Chromium	5.4			P
7440-48-4	Cobalt	2.3		E	P
7440-50-8	Copper	17.8		N	P
7439-89-6	Iron	6560			P
7439-92-1	Lead	78.6		E	P
7439-95-4	Magnesium	5820			P
7439-96-5	Manganese	224			P
7439-97-6	Mercury	0.18			CV
7440-02-0	Nickel	5.6			P
7440-09-7	Potassium	635			P
7782-49-2	Selenium	3.8			P
7440-22-4	Silver	0.10	U		P
7440-23-5	Sodium	93.0			P
7440-28-0	Thallium	0.32	U		P
7440-62-2	Vanadium	7.4			P
7440-66-6	Zinc	67.2		E	P

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-32

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1369

Matrix (soil/water): SOIL Lab Sample ID: G1369-13

Level (low/med): MED Date Received: 08/21/2008

% Solids: 74.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9160			P
7440-36-0	Antimony	0.25	B	N	P
7440-38-2	Arsenic	6.8			P
7440-39-3	Barium	73.8			P
7440-41-7	Beryllium	0.78			P
7440-43-9	Cadmium	1.1			P
7440-70-2	Calcium	14100			P
7440-47-3	Chromium	12.8			P
7440-48-4	Cobalt	5.3		E	P
7440-50-8	Copper	41.6		N	P
7439-89-6	Iron	23700			P
7439-92-1	Lead	52.7		E	P
7439-95-4	Magnesium	2430			P
7439-96-5	Manganese	504			P
7439-97-6	Mercury	0.20			CV
7440-02-0	Nickel	13.7			P
7440-09-7	Potassium	1270			P
7782-49-2	Selenium	1.1	B		P
7440-22-4	Silver	0.090	U		P
7440-23-5	Sodium	62.0			P
7440-28-0	Thallium	0.28	U		P
7440-62-2	Vanadium	19.8			P
7440-66-6	Zinc	312		E	P

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-33

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1369

Matrix (soil/water): SOIL Lab Sample ID: G1369-14

Level (low/med): MED Date Received: 08/21/2008

% Solids: 55.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9090			P
7440-36-0	Antimony	1.9		N	P
7440-38-2	Arsenic	19.9			P
7440-39-3	Barium	88.0			P
7440-41-7	Beryllium	0.89			P
7440-43-9	Cadmium	2.2			P
7440-70-2	Calcium	56300			P
7440-47-3	Chromium	14.0			P
7440-48-4	Cobalt	4.5		E	P
7440-50-8	Copper	79.7		N	P
7439-89-6	Iron	28100			P
7439-92-1	Lead	193		E	P
7439-95-4	Magnesium	1230			P
7439-96-5	Manganese	526			P
7439-97-6	Mercury	0.35			CV
7440-02-0	Nickel	15.3			P
7440-09-7	Potassium	687			P
7782-49-2	Selenium	4.9			P
7440-22-4	Silver	0.16	U		P
7440-23-5	Sodium	67.6	B		P
7440-28-0	Thallium	0.51	U		P
7440-62-2	Vanadium	21.8			P
7440-66-6	Zinc	543		E	P

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-34

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1369

Matrix (soil/water): SOIL Lab Sample ID: G1369-15

Level (low/med): MED Date Received: 08/21/2008

% Solids: 75.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6960			P
7440-36-0	Antimony	0.13	B	N	P
7440-38-2	Arsenic	3.0			P
7440-39-3	Barium	43.2			P
7440-41-7	Beryllium	0.47			P
7440-43-9	Cadmium	0.45			P
7440-70-2	Calcium	63100			P
7440-47-3	Chromium	8.2			P
7440-48-4	Cobalt	4.4		E	P
7440-50-8	Copper	27.6		N	P
7439-89-6	Iron	13000			P
7439-92-1	Lead	32.8		E	P
7439-95-4	Magnesium	4460			P
7439-96-5	Manganese	416			P
7439-97-6	Mercury	0.16			CV
7440-02-0	Nickel	9.2			P
7440-09-7	Potassium	845			P
7782-49-2	Selenium	2.6			P
7440-22-4	Silver	0.10	U		P
7440-23-5	Sodium	102			P
7440-28-0	Thallium	0.32	U		P
7440-62-2	Vanadium	11.3			P
7440-66-6	Zinc	116		E	P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-35

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1369

Matrix (soil/water): SOIL Lab Sample ID: G1369-16

Level (low/med): MED Date Received: 08/21/2008

% Solids: 69.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9340			P
7440-36-0	Antimony	0.17	B	N	P
7440-38-2	Arsenic	8.5			P
7440-39-3	Barium	60.9			P
7440-41-7	Beryllium	0.55			P
7440-43-9	Cadmium	0.75			P
7440-70-2	Calcium	22500			P
7440-47-3	Chromium	8.4			P
7440-48-4	Cobalt	4.3		E	P
7440-50-8	Copper	29.9		N	P
7439-89-6	Iron	47000			P
7439-92-1	Lead	49.7		E	P
7439-95-4	Magnesium	6650			P
7439-96-5	Manganese	291			P
7439-97-6	Mercury	0.14			CV
7440-02-0	Nickel	8.1			P
7440-09-7	Potassium	952			P
7782-49-2	Selenium	2.1			P
7440-22-4	Silver	0.13	U		P
7440-23-5	Sodium	124			P
7440-28-0	Thallium	0.43	U		P
7440-62-2	Vanadium	20.0			P
7440-66-6	Zinc	156		E	P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-36

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1369

Matrix (soil/water): SOIL Lab Sample ID: G1369-17

Level (low/med): MED Date Received: 08/21/2008

% Solids: 78.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5820			P
7440-36-0	Antimony	0.74	B	N	P
7440-38-2	Arsenic	12.8			P
7440-39-3	Barium	51.9			P
7440-41-7	Beryllium	0.37			P
7440-43-9	Cadmium	0.58			P
7440-70-2	Calcium	124000			P
7440-47-3	Chromium	10.9			P
7440-48-4	Cobalt	3.6		E	P
7440-50-8	Copper	76.5		N	P
7439-89-6	Iron	24700			P
7439-92-1	Lead	75.4		E	P
7439-95-4	Magnesium	3380			P
7439-96-5	Manganese	276			P
7439-97-6	Mercury	0.29			CV
7440-02-0	Nickel	11.4			P
7440-09-7	Potassium	1140			P
7782-49-2	Selenium	3.8			P
7440-22-4	Silver	0.11	U		P
7440-23-5	Sodium	138			P
7440-28-0	Thallium	0.35	U		P
7440-62-2	Vanadium	13.0			P
7440-66-6	Zinc	106		E	P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-37

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1369

Matrix (soil/water): SOIL Lab Sample ID: G1369-18

Level (low/med): MED Date Received: 08/21/2008

% Solids: 91.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2350			P
7440-36-0	Antimony	0.12	U	N	P
7440-38-2	Arsenic	1.5			P
7440-39-3	Barium	21.1			P
7440-41-7	Beryllium	0.11	B		P
7440-43-9	Cadmium	0.13	B		P
7440-70-2	Calcium	196000			P
7440-47-3	Chromium	5.6			P
7440-48-4	Cobalt	1.3	B	E	P
7440-50-8	Copper	11.0		N	P
7439-89-6	Iron	5950			P
7439-92-1	Lead	15.1		E	P
7439-95-4	Magnesium	3820			P
7439-96-5	Manganese	218			P
7439-97-6	Mercury	0.062			CV
7440-02-0	Nickel	4.3			P
7440-09-7	Potassium	513			P
7782-49-2	Selenium	5.1			P
7440-22-4	Silver	0.094	U		P
7440-23-5	Sodium	117			P
7440-28-0	Thallium	0.30	U		P
7440-62-2	Vanadium	4.7			P
7440-66-6	Zinc	27.2		E	P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-38

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1369

Matrix (soil/water): SOIL Lab Sample ID: G1369-19

Level (low/med): MED Date Received: 08/21/2008

% 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	8860			P
7440-36-0	Antimony	0.10	B	N	P
7440-38-2	Arsenic	4.5			P
7440-39-3	Barium	90.3			P
7440-41-7	Beryllium	0.42			P
7440-43-9	Cadmium	0.30			P
7440-70-2	Calcium	90000			P
7440-47-3	Chromium	11.4			P
7440-48-4	Cobalt	4.5		E	P
7440-50-8	Copper	40.9		N	P
7439-89-6	Iron	12900			P
7439-92-1	Lead	72.1		E	P
7439-95-4	Magnesium	4350			P
7439-96-5	Manganese	275			P
7439-97-6	Mercury	0.14			CV
7440-02-0	Nickel	10.5			P
7440-09-7	Potassium	1730			P
7782-49-2	Selenium	3.3			P
7440-22-4	Silver	0.080	U		P
7440-23-5	Sodium	162			P
7440-28-0	Thallium	0.25	U		P
7440-62-2	Vanadium	19.1			P
7440-66-6	Zinc	130		E	P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SS-39

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1369

Matrix (soil/water): SOIL Lab Sample ID: G1369-20

Level (low/med): MED Date Received: 08/21/2008

% Solids: 92.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3100			P
7440-36-0	Antimony	0.11	U	N	P
7440-38-2	Arsenic	1.9			P
7440-39-3	Barium	62.9			P
7440-41-7	Beryllium	0.15	B		P
7440-43-9	Cadmium	0.16	B		P
7440-70-2	Calcium	194000			P
7440-47-3	Chromium	4.3			P
7440-48-4	Cobalt	1.7	B	E	P
7440-50-8	Copper	14.1		N	P
7439-89-6	Iron	6010			P
7439-92-1	Lead	18.9		E	P
7439-95-4	Magnesium	6360			P
7439-96-5	Manganese	224			P
7439-97-6	Mercury	0.018	B		CV
7440-02-0	Nickel	4.6			P
7440-09-7	Potassium	616			P
7782-49-2	Selenium	5.5			P
7440-22-4	Silver	0.088	U		P
7440-23-5	Sodium	90.8			P
7440-28-0	Thallium	0.36	B		P
7440-62-2	Vanadium	5.6			P
7440-66-6	Zinc	31.9		E	P

Comments:

SUBSURFACE SOIL SAMPLE RESULTS

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-01 (06)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-01B

Sample wt/vol: 5.20 (g/mL) G Lab File ID: V6G0495.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/04/2008

% Moisture: not dec. 11 Date Analyzed: 09/04/2008

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	5.4	U
74-87-3	Chloromethane	5.4	U
75-01-4	Vinyl chloride	5.4	U
74-83-9	Bromomethane	5.4	U
75-00-3	Chloroethane	5.4	U
75-69-4	Trichlorofluoromethane	5.4	U
75-35-4	1,1-Dichloroethene	5.4	U
67-64-1	Acetone	5.4	U
74-88-4	Iodomethane	5.4	U
75-15-0	Carbon disulfide	5.4	U
75-09-2	Methylene chloride	5.4	U
156-60-5	trans-1,2-Dichloroethene	5.4	U
1634-04-4	Methyl tert-butyl ether	5.4	U
75-34-3	1,1-Dichloroethane	5.4	U
108-05-4	Vinyl acetate	5.4	U
78-93-3	2-Butanone	5.4	U
156-59-2	cis-1,2-Dichloroethene	5.4	U
594-20-7	2,2-Dichloropropane	5.4	U
74-97-5	Bromochloromethane	5.4	U
67-66-3	Chloroform	5.4	U
71-55-6	1,1,1-Trichloroethane	5.4	U
563-58-6	1,1-Dichloropropene	5.4	U
56-23-5	Carbon tetrachloride	5.4	U
107-06-2	1,2-Dichloroethane	5.4	U
71-43-2	Benzene	5.4	U
79-01-6	Trichloroethene	5.4	U
78-87-5	1,2-Dichloropropane	5.4	U
74-95-3	Dibromomethane	5.4	U
75-27-4	Bromodichloromethane	5.4	U
10061-01-5	cis-1,3-Dichloropropene	5.4	U
108-10-1	4-Methyl-2-pentanone	5.4	U
108-88-3	Toluene	5.4	U
10061-02-6	trans-1,3-Dichloropropene	5.4	U
79-00-5	1,1,2-Trichloroethane	5.4	U
142-28-9	1,3-Dichloropropane	5.4	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-01 (06)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM Case No.:

Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1462-01B

Sample wt/vol: 5.20 (g/mL) G

Lab File ID: V6G0495.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/04/2008

% Moisture: not dec. 11

Date Analyzed: 09/04/2008

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
127-18-4	Tetrachloroethene	5.4	U
591-78-6	2-Hexanone	5.4	U
124-48-1	Dibromochloromethane	5.4	U
106-93-4	1,2-Dibromoethane	5.4	U
108-90-7	Chlorobenzene	5.4	U
630-20-6	1,1,1,2-Tetrachloroethane	5.4	U
100-41-4	Ethylbenzene	5.4	U
1330-20-7	m,p-Xylene	5.4	U
95-47-6	o-Xylene	5.4	U
1330-20-7	Xylene (Total)	5.4	U
100-42-5	Styrene	5.4	U
75-25-2	Bromoform	5.4	U
98-82-8	Isopropylbenzene	5.4	U
79-34-5	1,1,2,2-Tetrachloroethane	5.4	U
108-86-1	Bromobenzene	5.4	U
96-18-4	1,2,3-Trichloropropane	5.4	U
103-65-1	n-Propylbenzene	5.4	U
95-49-8	2-Chlorotoluene	5.4	U
108-67-8	1,3,5-Trimethylbenzene	5.4	U
106-43-4	4-Chlorotoluene	5.4	U
98-06-6	tert-Butylbenzene	5.4	U
95-63-6	1,2,4-Trimethylbenzene	5.4	U
135-98-8	sec-Butylbenzene	5.4	U
99-87-6	4-Isopropyltoluene	5.4	U
541-73-1	1,3-Dichlorobenzene	5.4	U
106-46-7	1,4-Dichlorobenzene	5.4	U
104-51-8	n-Butylbenzene	5.4	U
95-50-1	1,2-Dichlorobenzene	5.4	U
96-12-8	1,2-Dibromo-3-chloropropane	5.4	U
120-82-1	1,2,4-Trichlorobenzene	5.4	U
87-68-3	Hexachlorobutadiene	5.4	U
87-61-6	1,2,3-Trichlorobenzene	5.4	U
91-20-3	Naphthalene	2.2	J

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-01 (06)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-01B

Sample wt/vol: 5.20 (g/mL) G Lab File ID: V6G0495.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/04/2008

% Moisture: not dec. 11 Date Analyzed: 09/04/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-02 (6-9)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-02B

Sample wt/vol: 4.90 (g/mL) G Lab File ID: V6G0496.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/04/2008

% Moisture: not dec. 15 Date Analyzed: 09/04/2008

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	15	
74-88-4	Iodomethane	6.0	U
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
108-05-4	Vinyl acetate	6.0	U
78-93-3	2-Butanone	6.0	U
156-59-2	cis-1,2-Dichloroethene	6.0	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	6.0	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-02 (6-9)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-02B

Sample wt/vol: 4.90 (g/mL) G Lab File ID: V6G0496.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/04/2008

% Moisture: not dec. 15 Date Analyzed: 09/04/2008

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
127-18-4	Tetrachloroethene	6.0	U
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
630-20-6	1,1,1,2-Tetrachloroethane	6.0	U
100-41-4	Ethylbenzene	6.0	U
1330-20-7	m,p-Xylene	6.0	U
95-47-6	o-Xylene	6.0	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	6.0	U
96-18-4	1,2,3-Trichloropropane	6.0	U
103-65-1	n-Propylbenzene	6.0	U
95-49-8	2-Chlorotoluene	6.0	U
108-67-8	1,3,5-Trimethylbenzene	6.0	U
106-43-4	4-Chlorotoluene	6.0	U
98-06-6	tert-Butylbenzene	6.0	U
95-63-6	1,2,4-Trimethylbenzene	6.0	U
135-98-8	sec-Butylbenzene	6.0	U
99-87-6	4-Isopropyltoluene	6.0	U
541-73-1	1,3-Dichlorobenzene	6.0	U
106-46-7	1,4-Dichlorobenzene	6.0	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	6.0	U
87-61-6	1,2,3-Trichlorobenzene	6.0	U
91-20-3	Naphthalene	6.0	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-02 (6-9)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-02B

Sample wt/vol: 4.90 (g/mL) G Lab File ID: V6G0496.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/04/2008

% Moisture: not dec. 15 Date Analyzed: 09/04/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-03 (2-5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-03B

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V6G0497.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/04/2008

% Moisture: not dec. 13 Date Analyzed: 09/04/2008

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	5.7	U
74-87-3	Chloromethane	5.7	U
75-01-4	Vinyl chloride	5.7	U
74-83-9	Bromomethane	5.7	U
75-00-3	Chloroethane	5.7	U
75-69-4	Trichlorofluoromethane	5.7	U
75-35-4	1,1-Dichloroethene	5.7	U
67-64-1	Acetone	5.7	U
74-88-4	Iodomethane	5.7	U
75-15-0	Carbon disulfide	5.7	U
75-09-2	Methylene chloride	5.7	U
156-60-5	trans-1,2-Dichloroethene	5.7	U
1634-04-4	Methyl tert-butyl ether	5.7	U
75-34-3	1,1-Dichloroethane	5.7	U
108-05-4	Vinyl acetate	5.7	U
78-93-3	2-Butanone	5.7	U
156-59-2	cis-1,2-Dichloroethene	5.7	U
594-20-7	2,2-Dichloropropane	5.7	U
74-97-5	Bromochloromethane	5.7	U
67-66-3	Chloroform	5.7	U
71-55-6	1,1,1-Trichloroethane	5.7	U
563-58-6	1,1-Dichloropropene	5.7	U
56-23-5	Carbon tetrachloride	5.7	U
107-06-2	1,2-Dichloroethane	5.7	U
71-43-2	Benzene	5.7	U
79-01-6	Trichloroethene	5.7	U
78-87-5	1,2-Dichloropropane	5.7	U
74-95-3	Dibromomethane	5.7	U
75-27-4	Bromodichloromethane	5.7	U
10061-01-5	cis-1,3-Dichloropropene	5.7	U
108-10-1	4-Methyl-2-pentanone	5.7	U
108-88-3	Toluene	5.7	U
10061-02-6	trans-1,3-Dichloropropene	5.7	U
79-00-5	1,1,2-Trichloroethane	5.7	U
142-28-9	1,3-Dichloropropane	5.7	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-03 (2-5)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1462-03B

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: V6G0497.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/04/2008

% Moisture: not dec. 13

Date Analyzed: 09/04/2008

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
127-18-4	Tetrachloroethene	5.7	U
591-78-6	2-Hexanone	5.7	U
124-48-1	Dibromochloromethane	5.7	U
106-93-4	1,2-Dibromoethane	5.7	U
108-90-7	Chlorobenzene	5.7	U
630-20-6	1,1,1,2-Tetrachloroethane	5.7	U
100-41-4	Ethylbenzene	5.7	U
1330-20-7	m,p-Xylene	5.7	U
95-47-6	o-Xylene	5.7	U
1330-20-7	Xylene (Total)	5.7	U
100-42-5	Styrene	5.7	U
75-25-2	Bromoform	5.7	U
98-82-8	Isopropylbenzene	5.7	U
79-34-5	1,1,2,2-Tetrachloroethane	5.7	U
108-86-1	Bromobenzene	5.7	U
96-18-4	1,2,3-Trichloropropane	5.7	U
103-65-1	n-Propylbenzene	5.7	U
95-49-8	2-Chlorotoluene	5.7	U
108-67-8	1,3,5-Trimethylbenzene	5.7	U
106-43-4	4-Chlorotoluene	5.7	U
98-06-6	tert-Butylbenzene	5.7	U
95-63-6	1,2,4-Trimethylbenzene	5.7	U
135-98-8	sec-Butylbenzene	5.7	U
99-87-6	4-Isopropyltoluene	5.7	U
541-73-1	1,3-Dichlorobenzene	5.7	U
106-46-7	1,4-Dichlorobenzene	5.7	U
104-51-8	n-Butylbenzene	5.7	U
95-50-1	1,2-Dichlorobenzene	5.7	U
96-12-8	1,2-Dibromo-3-chloropropane	5.7	U
120-82-1	1,2,4-Trichlorobenzene	5.7	U
87-68-3	Hexachlorobutadiene	5.7	U
87-61-6	1,2,3-Trichlorobenzene	5.7	U
91-20-3	Naphthalene	5.7	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-03 (2-5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-03B

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V6G0497.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/04/2008

% Moisture: not dec. 13 Date Analyzed: 09/04/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-04 (0-5)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1462-04B

Sample wt/vol: 5.30 (g/mL) G

Lab File ID: V6G0498.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/04/2008

% Moisture: not dec. 16

Date Analyzed: 09/04/2008

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
74-88-4	Iodomethane	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
108-05-4	Vinyl acetate	5.6	U
78-93-3	2-Butanone	5.6	U
156-59-2	cis-1,2-Dichloroethene	5.6	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	5.6	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-04 (0-5)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM Case No.:

Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1462-04B

Sample wt/vol: 5.30 (g/mL) G

Lab File ID: V6G0498.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/04/2008

% Moisture: not dec. 16

Date Analyzed: 09/04/2008

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
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
630-20-6	1,1,1,2-Tetrachloroethane	5.6	U
100-41-4	Ethylbenzene	5.6	U
1330-20-7	m,p-Xylene	5.6	U
95-47-6	o-Xylene	5.6	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	5.6	U
96-18-4	1,2,3-Trichloropropane	5.6	U
103-65-1	n-Propylbenzene	5.6	U
95-49-8	2-Chlorotoluene	5.6	U
108-67-8	1,3,5-Trimethylbenzene	5.6	U
106-43-4	4-Chlorotoluene	5.6	U
98-06-6	tert-Butylbenzene	5.6	U
95-63-6	1,2,4-Trimethylbenzene	5.6	U
135-98-8	sec-Butylbenzene	5.6	U
99-87-6	4-Isopropyltoluene	5.6	U
541-73-1	1,3-Dichlorobenzene	5.6	U
106-46-7	1,4-Dichlorobenzene	5.6	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	5.6	U
87-61-6	1,2,3-Trichlorobenzene	5.6	U
91-20-3	Naphthalene	5.6	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-04 (0-5)

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1462
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1462-04B
Sample wt/vol: 5.30 (g/mL) G
Lab File ID: V6G0498.D
Level: (TRACE or LOW/MED) LOW
Date Received: 09/04/2008
% Moisture: not dec. 16
Date Analyzed: 09/04/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-05 (0-7)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1462-05B

Sample wt/vol: 5.10 (g/mL) G

Lab File ID: V6G0499.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/04/2008

% Moisture: not dec. 12

Date Analyzed: 09/04/2008

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
74-88-4	Iodomethane	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
108-05-4	Vinyl acetate	5.6	U
78-93-3	2-Butanone	5.6	U
156-59-2	cis-1,2-Dichloroethene	5.6	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	5.6	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-05 (0-7)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-05B

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V6G0499.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/04/2008

% Moisture: not dec. 12 Date Analyzed: 09/04/2008

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
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
630-20-6	1,1,1,2-Tetrachloroethane	5.6	U
100-41-4	Ethylbenzene	5.6	U
1330-20-7	m,p-Xylene	5.6	U
95-47-6	o-Xylene	5.6	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	5.6	U
96-18-4	1,2,3-Trichloropropane	5.6	U
103-65-1	n-Propylbenzene	5.6	U
95-49-8	2-Chlorotoluene	5.6	U
108-67-8	1,3,5-Trimethylbenzene	5.6	U
106-43-4	4-Chlorotoluene	5.6	U
98-06-6	tert-Butylbenzene	5.6	U
95-63-6	1,2,4-Trimethylbenzene	5.6	U
135-98-8	sec-Butylbenzene	5.6	U
99-87-6	4-Isopropyltoluene	5.6	U
541-73-1	1,3-Dichlorobenzene	5.6	U
106-46-7	1,4-Dichlorobenzene	5.6	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	5.6	U
87-61-6	1,2,3-Trichlorobenzene	5.6	U
91-20-3	Naphthalene	5.6	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-05 (0-7)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-05B

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V6G0499.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/04/2008

% Moisture: not dec. 12 Date Analyzed: 09/04/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-06 (0-5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-06B

Sample wt/vol: 4.80 (g/mL) G Lab File ID: V6G0500.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/04/2008

% Moisture: not dec. 9.0 Date Analyzed: 09/04/2008

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	5.7	U
74-87-3	Chloromethane	5.7	U
75-01-4	Vinyl chloride	5.7	U
74-83-9	Bromomethane	5.7	U
75-00-3	Chloroethane	5.7	U
75-69-4	Trichlorofluoromethane	5.7	U
75-35-4	1,1-Dichloroethene	5.7	U
67-64-1	Acetone	5.7	U
74-88-4	Iodomethane	5.7	U
75-15-0	Carbon disulfide	5.7	U
75-09-2	Methylene chloride	5.7	U
156-60-5	trans-1,2-Dichloroethene	5.7	U
1634-04-4	Methyl tert-butyl ether	5.7	U
75-34-3	1,1-Dichloroethane	5.7	U
108-05-4	Vinyl acetate	5.7	U
78-93-3	2-Butanone	5.7	U
156-59-2	cis-1,2-Dichloroethene	5.7	U
594-20-7	2,2-Dichloropropane	5.7	U
74-97-5	Bromochloromethane	5.7	U
67-66-3	Chloroform	5.7	U
71-55-6	1,1,1-Trichloroethane	5.7	U
563-58-6	1,1-Dichloropropene	5.7	U
56-23-5	Carbon tetrachloride	5.7	U
107-06-2	1,2-Dichloroethane	5.7	U
71-43-2	Benzene	5.7	U
79-01-6	Trichloroethene	5.7	U
78-87-5	1,2-Dichloropropane	5.7	U
74-95-3	Dibromomethane	5.7	U
75-27-4	Bromodichloromethane	5.7	U
10061-01-5	cis-1,3-Dichloropropene	5.7	U
108-10-1	4-Methyl-2-pentanone	5.7	U
108-88-3	Toluene	5.7	U
10061-02-6	trans-1,3-Dichloropropene	5.7	U
79-00-5	1,1,2-Trichloroethane	5.7	U
142-28-9	1,3-Dichloropropane	5.7	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-06 (0-5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-06B

Sample wt/vol: 4.80 (g/mL) G Lab File ID: V6G0500.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/04/2008

% Moisture: not dec. 9.0 Date Analyzed: 09/04/2008

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
127-18-4	Tetrachloroethene	5.7	U
591-78-6	2-Hexanone	5.7	U
124-48-1	Dibromochloromethane	5.7	U
106-93-4	1,2-Dibromoethane	5.7	U
108-90-7	Chlorobenzene	5.7	U
630-20-6	1,1,1,2-Tetrachloroethane	5.7	U
100-41-4	Ethylbenzene	5.7	U
1330-20-7	m,p-Xylene	5.7	U
95-47-6	o-Xylene	5.7	U
1330-20-7	Xylene (Total)	5.7	U
100-42-5	Styrene	5.7	U
75-25-2	Bromoform	5.7	U
98-82-8	Isopropylbenzene	5.7	U
79-34-5	1,1,2,2-Tetrachloroethane	5.7	U
108-86-1	Bromobenzene	5.7	U
96-18-4	1,2,3-Trichloropropane	5.7	U
103-65-1	n-Propylbenzene	5.7	U
95-49-8	2-Chlorotoluene	5.7	U
108-67-8	1,3,5-Trimethylbenzene	5.7	U
106-43-4	4-Chlorotoluene	5.7	U
98-06-6	tert-Butylbenzene	5.7	U
95-63-6	1,2,4-Trimethylbenzene	5.7	U
135-98-8	sec-Butylbenzene	5.7	U
99-87-6	4-Isopropyltoluene	5.7	U
541-73-1	1,3-Dichlorobenzene	5.7	U
106-46-7	1,4-Dichlorobenzene	5.7	U
104-51-8	n-Butylbenzene	5.7	U
95-50-1	1,2-Dichlorobenzene	5.7	U
96-12-8	1,2-Dibromo-3-chloropropane	5.7	U
120-82-1	1,2,4-Trichlorobenzene	5.7	U
87-68-3	Hexachlorobutadiene	5.7	U
87-61-6	1,2,3-Trichlorobenzene	5.7	U
91-20-3	Naphthalene	5.7	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-06 (0-5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-06B

Sample wt/vol: 4.80 (g/mL) G Lab File ID: V6G0500.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/04/2008

% Moisture: not dec. 9.0 Date Analyzed: 09/04/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-08 (0.5-1)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-07B

Sample wt/vol: 4.70 (g/mL) G Lab File ID: V6G0501.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/04/2008

% Moisture: not dec. 7.0 Date Analyzed: 09/04/2008

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	5.7	U
74-87-3	Chloromethane	5.7	U
75-01-4	Vinyl chloride	5.7	U
74-83-9	Bromomethane	5.7	U
75-00-3	Chloroethane	5.7	U
75-69-4	Trichlorofluoromethane	5.7	U
75-35-4	1,1-Dichloroethene	5.7	U
67-64-1	Acetone	5.7	U
74-88-4	Iodomethane	5.7	U
75-15-0	Carbon disulfide	5.7	U
75-09-2	Methylene chloride	5.7	U
156-60-5	trans-1,2-Dichloroethene	5.7	U
1634-04-4	Methyl tert-butyl ether	5.7	U
75-34-3	1,1-Dichloroethane	5.7	U
108-05-4	Vinyl acetate	5.7	U
78-93-3	2-Butanone	5.7	U
156-59-2	cis-1,2-Dichloroethene	5.7	U
594-20-7	2,2-Dichloropropane	5.7	U
74-97-5	Bromochloromethane	5.7	U
67-66-3	Chloroform	5.7	U
71-55-6	1,1,1-Trichloroethane	5.7	U
563-58-6	1,1-Dichloropropene	5.7	U
56-23-5	Carbon tetrachloride	5.7	U
107-06-2	1,2-Dichloroethane	5.7	U
71-43-2	Benzene	5.7	U
79-01-6	Trichloroethene	5.7	U
78-87-5	1,2-Dichloropropane	5.7	U
74-95-3	Dibromomethane	5.7	U
75-27-4	Bromodichloromethane	5.7	U
10061-01-5	cis-1,3-Dichloropropene	5.7	U
108-10-1	4-Methyl-2-pentanone	5.7	U
108-88-3	Toluene	5.7	U
10061-02-6	trans-1,3-Dichloropropene	5.7	U
79-00-5	1,1,2-Trichloroethane	5.7	U
142-28-9	1,3-Dichloropropane	5.7	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-08 (0.5-1)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1462-07B

Sample wt/vol: 4.70 (g/mL) G

Lab File ID: V6G0501.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/04/2008

% Moisture: not dec. 7.0

Date Analyzed: 09/04/2008

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
127-18-4	Tetrachloroethene	5.7	U
591-78-6	2-Hexanone	5.7	U
124-48-1	Dibromochloromethane	5.7	U
106-93-4	1,2-Dibromoethane	5.7	U
108-90-7	Chlorobenzene	5.7	U
630-20-6	1,1,1,2-Tetrachloroethane	5.7	U
100-41-4	Ethylbenzene	5.7	U
1330-20-7	m,p-Xylene	5.7	U
95-47-6	o-Xylene	5.7	U
1330-20-7	Xylene (Total)	5.7	U
100-42-5	Styrene	5.7	U
75-25-2	Bromoform	5.7	U
98-82-8	Isopropylbenzene	5.7	U
79-34-5	1,1,2,2-Tetrachloroethane	5.7	U
108-86-1	Bromobenzene	5.7	U
96-18-4	1,2,3-Trichloropropane	5.7	U
103-65-1	n-Propylbenzene	5.7	U
95-49-8	2-Chlorotoluene	5.7	U
108-67-8	1,3,5-Trimethylbenzene	5.7	U
106-43-4	4-Chlorotoluene	5.7	U
98-06-6	tert-Butylbenzene	5.7	U
95-63-6	1,2,4-Trimethylbenzene	5.7	U
135-98-8	sec-Butylbenzene	5.7	U
99-87-6	4-Isopropyltoluene	5.7	U
541-73-1	1,3-Dichlorobenzene	5.7	U
106-46-7	1,4-Dichlorobenzene	5.7	U
104-51-8	n-Butylbenzene	5.7	U
95-50-1	1,2-Dichlorobenzene	5.7	U
96-12-8	1,2-Dibromo-3-chloropropane	5.7	U
120-82-1	1,2,4-Trichlorobenzene	5.7	U
87-68-3	Hexachlorobutadiene	5.7	U
87-61-6	1,2,3-Trichlorobenzene	5.7	U
91-20-3	Naphthalene	5.7	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-08 (0.5-1)

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1462
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1462-07B
Sample wt/vol: 4.70 (g/mL) G
Lab File ID: V6G0501.D
Level: (TRACE or LOW/MED) LOW
Date Received: 09/04/2008
% Moisture: not dec. 7.0
Date Analyzed: 09/04/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-09 (4-9)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-08B

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V6G0502.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/04/2008

% Moisture: not dec. 9.0 Date Analyzed: 09/04/2008

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	5.5	U
74-87-3	Chloromethane	5.5	U
75-01-4	Vinyl chloride	5.5	U
74-83-9	Bromomethane	5.5	U
75-00-3	Chloroethane	5.5	U
75-69-4	Trichlorofluoromethane	5.5	U
75-35-4	1,1-Dichloroethene	5.5	U
67-64-1	Acetone	11	
74-88-4	Iodomethane	5.5	U
75-15-0	Carbon disulfide	5.5	U
75-09-2	Methylene chloride	5.5	U
156-60-5	trans-1,2-Dichloroethene	5.5	U
1634-04-4	Methyl tert-butyl ether	5.5	U
75-34-3	1,1-Dichloroethane	5.5	U
108-05-4	Vinyl acetate	5.5	U
78-93-3	2-Butanone	5.5	U
156-59-2	cis-1,2-Dichloroethene	5.5	U
594-20-7	2,2-Dichloropropane	5.5	U
74-97-5	Bromochloromethane	5.5	U
67-66-3	Chloroform	5.5	U
71-55-6	1,1,1-Trichloroethane	5.5	U
563-58-6	1,1-Dichloropropene	5.5	U
56-23-5	Carbon tetrachloride	5.5	U
107-06-2	1,2-Dichloroethane	5.5	U
71-43-2	Benzene	5.5	U
79-01-6	Trichloroethene	5.5	U
78-87-5	1,2-Dichloropropane	5.5	U
74-95-3	Dibromomethane	5.5	U
75-27-4	Bromodichloromethane	5.5	U
10061-01-5	cis-1,3-Dichloropropene	5.5	U
108-10-1	4-Methyl-2-pentanone	5.5	U
108-88-3	Toluene	5.5	U
10061-02-6	trans-1,3-Dichloropropene	5.5	U
79-00-5	1,1,2-Trichloroethane	5.5	U
142-28-9	1,3-Dichloropropane	5.5	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-09 (4-9)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1462-08B

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: V6G0502.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/04/2008

% Moisture: not dec. 9.0

Date Analyzed: 09/04/2008

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
127-18-4	Tetrachloroethene	5.5	U
591-78-6	2-Hexanone	5.5	U
124-48-1	Dibromochloromethane	5.5	U
106-93-4	1,2-Dibromoethane	5.5	U
108-90-7	Chlorobenzene	5.5	U
630-20-6	1,1,1,2-Tetrachloroethane	5.5	U
100-41-4	Ethylbenzene	5.5	U
1330-20-7	m,p-Xylene	5.5	U
95-47-6	o-Xylene	5.5	U
1330-20-7	Xylene (Total)	5.5	U
100-42-5	Styrene	5.5	U
75-25-2	Bromoform	5.5	U
98-82-8	Isopropylbenzene	5.5	U
79-34-5	1,1,2,2-Tetrachloroethane	5.5	U
108-86-1	Bromobenzene	5.5	U
96-18-4	1,2,3-Trichloropropane	5.5	U
103-65-1	n-Propylbenzene	5.5	U
95-49-8	2-Chlorotoluene	5.5	U
108-67-8	1,3,5-Trimethylbenzene	5.5	U
106-43-4	4-Chlorotoluene	5.5	U
98-06-6	tert-Butylbenzene	5.5	U
95-63-6	1,2,4-Trimethylbenzene	5.5	U
135-98-8	sec-Butylbenzene	5.5	U
99-87-6	4-Isopropyltoluene	5.5	U
541-73-1	1,3-Dichlorobenzene	5.5	U
106-46-7	1,4-Dichlorobenzene	5.5	U
104-51-8	n-Butylbenzene	5.5	U
95-50-1	1,2-Dichlorobenzene	5.5	U
96-12-8	1,2-Dibromo-3-chloropropane	5.5	U
120-82-1	1,2,4-Trichlorobenzene	5.5	U
87-68-3	Hexachlorobutadiene	5.5	U
87-61-6	1,2,3-Trichlorobenzene	5.5	U
91-20-3	Naphthalene	5.5	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-09 (4-9)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-08B

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V6G0502.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/04/2008

% Moisture: not dec. 9.0 Date Analyzed: 09/04/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-10 (1-5)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1462-09B

Sample wt/vol: 5.20 (g/mL) G

Lab File ID: V6G0503.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/04/2008

% Moisture: not dec. 8.0

Date Analyzed: 09/04/2008

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	5.2	U
74-87-3	Chloromethane	5.2	U
75-01-4	Vinyl chloride	5.2	U
74-83-9	Bromomethane	5.2	U
75-00-3	Chloroethane	5.2	U
75-69-4	Trichlorofluoromethane	5.2	U
75-35-4	1,1-Dichloroethene	5.2	U
67-64-1	Acetone	34	
74-88-4	Iodomethane	5.2	U
75-15-0	Carbon disulfide	5.2	U
75-09-2	Methylene chloride	5.2	U
156-60-5	trans-1,2-Dichloroethene	5.2	U
1634-04-4	Methyl tert-butyl ether	5.2	U
75-34-3	1,1-Dichloroethane	5.2	U
108-05-4	Vinyl acetate	5.2	U
78-93-3	2-Butanone	5.2	U
156-59-2	cis-1,2-Dichloroethene	5.2	U
594-20-7	2,2-Dichloropropane	5.2	U
74-97-5	Bromochloromethane	5.2	U
67-66-3	Chloroform	5.2	U
71-55-6	1,1,1-Trichloroethane	5.2	U
563-58-6	1,1-Dichloropropene	5.2	U
56-23-5	Carbon tetrachloride	5.2	U
107-06-2	1,2-Dichloroethane	5.2	U
71-43-2	Benzene	5.2	U
79-01-6	Trichloroethene	5.2	U
78-87-5	1,2-Dichloropropane	5.2	U
74-95-3	Dibromomethane	5.2	U
75-27-4	Bromodichloromethane	5.2	U
10061-01-5	cis-1,3-Dichloropropene	5.2	U
108-10-1	4-Methyl-2-pentanone	5.2	U
108-88-3	Toluene	5.2	U
10061-02-6	trans-1,3-Dichloropropene	5.2	U
79-00-5	1,1,2-Trichloroethane	5.2	U
142-28-9	1,3-Dichloropropane	5.2	U

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1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-10 (1-5)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1462-09B

Sample wt/vol: 5.20 (g/mL) G

Lab File ID: V6G0503.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/04/2008

% Moisture: not dec. 8.0

Date Analyzed: 09/04/2008

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
127-18-4	Tetrachloroethene	5.2	U
591-78-6	2-Hexanone	5.2	U
124-48-1	Dibromochloromethane	5.2	U
106-93-4	1,2-Dibromoethane	5.2	U
108-90-7	Chlorobenzene	5.2	U
630-20-6	1,1,1,2-Tetrachloroethane	5.2	U
100-41-4	Ethylbenzene	5.2	U
1330-20-7	m,p-Xylene	5.2	U
95-47-6	o-Xylene	5.2	U
1330-20-7	Xylene (Total)	5.2	U
100-42-5	Styrene	5.2	U
75-25-2	Bromoform	5.2	U
98-82-8	Isopropylbenzene	5.2	U
79-34-5	1,1,2,2-Tetrachloroethane	5.2	U
108-86-1	Bromobenzene	5.2	U
96-18-4	1,2,3-Trichloropropane	5.2	U
103-65-1	n-Propylbenzene	5.2	U
95-49-8	2-Chlorotoluene	5.2	U
108-67-8	1,3,5-Trimethylbenzene	5.2	U
106-43-4	4-Chlorotoluene	5.2	U
98-06-6	tert-Butylbenzene	5.2	U
95-63-6	1,2,4-Trimethylbenzene	5.2	U
135-98-8	sec-Butylbenzene	5.2	U
99-87-6	4-Isopropyltoluene	5.2	U
541-73-1	1,3-Dichlorobenzene	5.2	U
106-46-7	1,4-Dichlorobenzene	5.2	U
104-51-8	n-Butylbenzene	5.2	U
95-50-1	1,2-Dichlorobenzene	5.2	U
96-12-8	1,2-Dibromo-3-chloropropane	5.2	U
120-82-1	1,2,4-Trichlorobenzene	5.2	U
87-68-3	Hexachlorobutadiene	5.2	U
87-61-6	1,2,3-Trichlorobenzene	5.2	U
91-20-3	Naphthalene	5.2	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-10 (1-5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-09B

Sample wt/vol: 5.20 (g/mL) G Lab File ID: V6G0503.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/04/2008

% Moisture: not dec. 8.0 Date Analyzed: 09/04/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-11(26-32)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1462-10B

Sample wt/vol: 5.20 (g/mL) G

Lab File ID: V6G0546.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/06/2008

% Moisture: not dec. 31

Date Analyzed: 09/09/2008

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	7.0	U
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	20	
74-88-4	Iodomethane	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
108-05-4	Vinyl acetate	7.0	U
78-93-3	2-Butanone	7.0	U
156-59-2	cis-1,2-Dichloroethene	7.0	U
594-20-7	2,2-Dichloropropane	7.0	U
74-97-5	Bromochloromethane	7.0	U
67-66-3	Chloroform	7.0	U
71-55-6	1,1,1-Trichloroethane	7.0	U
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	7.0	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-11(26-32)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1462-10B

Sample wt/vol: 5.20 (g/mL) G

Lab File ID: V6G0546.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/06/2008

% Moisture: not dec. 31

Date Analyzed: 09/09/2008

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
127-18-4	Tetrachloroethene	7.0	U
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
630-20-6	1,1,1,2-Tetrachloroethane	7.0	U
100-41-4	Ethylbenzene	7.0	U
1330-20-7	m,p-Xylene	7.0	U
95-47-6	o-Xylene	7.0	U
1330-20-7	Xylene (Total)	7.0	U
100-42-5	Styrene	7.0	U
75-25-2	Bromoform	7.0	U
98-82-8	Isopropylbenzene	3.3	J
79-34-5	1,1,2,2-Tetrachloroethane	7.0	U
108-86-1	Bromobenzene	7.0	U
96-18-4	1,2,3-Trichloropropane	7.0	U
103-65-1	n-Propylbenzene	7.0	U
95-49-8	2-Chlorotoluene	7.0	U
108-67-8	1,3,5-Trimethylbenzene	7.0	U
106-43-4	4-Chlorotoluene	7.0	U
98-06-6	tert-Butylbenzene	7.0	U
95-63-6	1,2,4-Trimethylbenzene	7.0	U
135-98-8	sec-Butylbenzene	7.0	U
99-87-6	4-Isopropyltoluene	7.0	U
541-73-1	1,3-Dichlorobenzene	7.0	U
106-46-7	1,4-Dichlorobenzene	7.0	U
104-51-8	n-Butylbenzene	3.2	J
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
87-68-3	Hexachlorobutadiene	7.0	U
87-61-6	1,2,3-Trichlorobenzene	7.0	U
91-20-3	Naphthalene	3.2	J

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-11(26-32)

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM Case No.:
Mod. Ref No.: SDG No.: MG1462
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1462-10B
Sample wt/vol: 5.20 (g/mL) G
Lab File ID: V6G0546.D
Level: (TRACE or LOW/MED) LOW
Date Received: 09/06/2008
% Moisture: not dec. 31
Date Analyzed: 09/09/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	933-98-2	Benzene, 1-ethyl-2,3-dimethy	14.402	29	NJ
02	22433-39-2	Benzene,1-methyl-1,2-propadi	14.591	31	NJ
03	2177-48-2	1H-Indene, 1,3-dimethyl-	15.844	27	NJ
04	90-12-0	Naphthalene, 1-methyl-	16.470	240	NJ
05	92-52-4	Biphenyl	17.048	26	NJ
06	939-27-5	Naphthalene, 2-ethyl-	17.310	22	NJ
07	581-40-8	Naphthalene, 2,3-dimethyl-	17.584	96	NJ
08	571-61-9	Naphthalene, 1,5-dimethyl-	17.845	22	NJ
09	575-37-1	Naphthalene, 1,7-dimethyl-	17.882	24	NJ
10	581-40-8	Naphthalene, 2,3-dimethyl-	18.077	19	NJ
11	83-32-9	Acenaphthene	18.527	24	NJ
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-12 (16-20)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM Case No.:

Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1462-11B

Sample wt/vol: 5.40 (g/mL) G

Lab File ID: V6G0547.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/06/2008

% Moisture: not dec. 15

Date Analyzed: 09/09/2008

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	5.4	U
74-87-3	Chloromethane	5.4	U
75-01-4	Vinyl chloride	5.4	U
74-83-9	Bromomethane	5.4	U
75-00-3	Chloroethane	5.4	U
75-69-4	Trichlorofluoromethane	5.4	U
75-35-4	1,1-Dichloroethene	5.4	U
67-64-1	Acetone	5.4	U
74-88-4	Iodomethane	5.4	U
75-15-0	Carbon disulfide	5.4	U
75-09-2	Methylene chloride	2.5	J
156-60-5	trans-1,2-Dichloroethene	5.4	U
1634-04-4	Methyl tert-butyl ether	5.4	U
75-34-3	1,1-Dichloroethane	5.4	U
108-05-4	Vinyl acetate	5.4	U
78-93-3	2-Butanone	5.4	U
156-59-2	cis-1,2-Dichloroethene	5.4	U
594-20-7	2,2-Dichloropropane	5.4	U
74-97-5	Bromochloromethane	5.4	U
67-66-3	Chloroform	5.4	U
71-55-6	1,1,1-Trichloroethane	5.4	U
563-58-6	1,1-Dichloropropene	5.4	U
56-23-5	Carbon tetrachloride	5.4	U
107-06-2	1,2-Dichloroethane	5.4	U
71-43-2	Benzene	5.4	U
79-01-6	Trichloroethene	5.4	U
78-87-5	1,2-Dichloropropane	5.4	U
74-95-3	Dibromomethane	5.4	U
75-27-4	Bromodichloromethane	5.4	U
10061-01-5	cis-1,3-Dichloropropene	5.4	U
108-10-1	4-Methyl-2-pentanone	5.4	U
108-88-3	Toluene	5.4	U
10061-02-6	trans-1,3-Dichloropropene	5.4	U
79-00-5	1,1,2-Trichloroethane	5.4	U
142-28-9	1,3-Dichloropropane	5.4	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-12 (16-20)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM Case No.:

Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1462-11B

Sample wt/vol: 5.40 (g/mL) G

Lab File ID: V6G0547.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/06/2008

% Moisture: not dec. 15

Date Analyzed: 09/09/2008

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
127-18-4	Tetrachloroethene	5.4	U
591-78-6	2-Hexanone	5.4	U
124-48-1	Dibromochloromethane	5.4	U
106-93-4	1,2-Dibromoethane	5.4	U
108-90-7	Chlorobenzene	5.4	U
630-20-6	1,1,1,2-Tetrachloroethane	5.4	U
100-41-4	Ethylbenzene	5.4	U
1330-20-7	m,p-Xylene	5.4	U
95-47-6	o-Xylene	5.4	U
1330-20-7	Xylene (Total)	5.4	U
100-42-5	Styrene	5.4	U
75-25-2	Bromoform	5.4	U
98-82-8	Isopropylbenzene	5.4	U
79-34-5	1,1,2,2-Tetrachloroethane	5.4	U
108-86-1	Bromobenzene	5.4	U
96-18-4	1,2,3-Trichloropropane	5.4	U
103-65-1	n-Propylbenzene	5.4	U
95-49-8	2-Chlorotoluene	5.4	U
108-67-8	1,3,5-Trimethylbenzene	5.4	U
106-43-4	4-Chlorotoluene	5.4	U
98-06-6	tert-Butylbenzene	5.4	U
95-63-6	1,2,4-Trimethylbenzene	5.4	U
135-98-8	sec-Butylbenzene	5.4	U
99-87-6	4-Isopropyltoluene	5.4	U
541-73-1	1,3-Dichlorobenzene	5.4	U
106-46-7	1,4-Dichlorobenzene	5.4	U
104-51-8	n-Butylbenzene	5.4	U
95-50-1	1,2-Dichlorobenzene	5.4	U
96-12-8	1,2-Dibromo-3-chloropropane	5.4	U
120-82-1	1,2,4-Trichlorobenzene	5.4	U
87-68-3	Hexachlorobutadiene	5.4	U
87-61-6	1,2,3-Trichlorobenzene	5.4	U
91-20-3	Naphthalene	5.4	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-12 (16-20)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-11B

Sample wt/vol: 5.40 (g/mL) G Lab File ID: V6G0547.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/06/2008

% Moisture: not dec. 15 Date Analyzed: 09/09/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	90-12-0	Naphthalene, 1-methyl-	16.472	11	NJ
02	581-40-8	Naphthalene, 2,3-dimethyl-	17.585	16	NJ
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-13 (17-19)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-12B

Sample wt/vol: 4.80 (g/mL) G Lab File ID: V6G0561.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/06/2008

% Moisture: not dec. 15 Date Analyzed: 09/09/2008

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	30	
74-88-4	Iodomethane	6.1	U
75-15-0	Carbon disulfide	6.1	U
75-09-2	Methylene chloride	6.1	U
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
108-05-4	Vinyl acetate	6.1	U
78-93-3	2-Butanone	4.7	J
156-59-2	cis-1,2-Dichloroethene	6.1	U
594-20-7	2,2-Dichloropropane	6.1	U
74-97-5	Bromochloromethane	6.1	U
67-66-3	Chloroform	6.1	U
71-55-6	1,1,1-Trichloroethane	6.1	U
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	6.1	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-13 (17-19)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1462-12B

Sample wt/vol: 4.80 (g/mL) G

Lab File ID: V6G0561.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/06/2008

% Moisture: not dec. 15

Date Analyzed: 09/09/2008

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
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
630-20-6	1,1,1,2-Tetrachloroethane	6.1	U
100-41-4	Ethylbenzene	6.1	U
1330-20-7	m,p-Xylene	6.1	U
95-47-6	o-Xylene	6.1	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	6.1	U
96-18-4	1,2,3-Trichloropropane	6.1	U
103-65-1	n-Propylbenzene	6.1	U
95-49-8	2-Chlorotoluene	6.1	U
108-67-8	1,3,5-Trimethylbenzene	6.1	U
106-43-4	4-Chlorotoluene	6.1	U
98-06-6	tert-Butylbenzene	6.1	U
95-63-6	1,2,4-Trimethylbenzene	6.1	U
135-98-8	sec-Butylbenzene	6.1	U
99-87-6	4-Isopropyltoluene	6.1	U
541-73-1	1,3-Dichlorobenzene	6.1	U
106-46-7	1,4-Dichlorobenzene	6.1	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	6.1	U
87-61-6	1,2,3-Trichlorobenzene	6.1	U
91-20-3	Naphthalene	6.1	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-13 (17-19)

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM Case No.:
Mod. Ref No.: SDG No.: MG1462
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1462-12B
Sample wt/vol: 4.80 (g/mL) G
Lab File ID: V6G0561.D
Level: (TRACE or LOW/MED) LOW
Date Received: 09/06/2008
% Moisture: not dec. 15
Date Analyzed: 09/09/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	15.291	150	J
02		Unknown-02	15.406	130	J
03		Unknown-03	15.546	140	J
04		Unknown-04	15.765	140	J
05		Unknown-05	15.850	140	J
06		Unknown-06	15.911	160	J
07		Unknown-07	15.996	190	J
08		Unknown-08	16.264	140	J
09		Unknown-09	16.447	140	J
10		Unknown-10	16.574	130	J
11	313253-65-5	2-Pentanone, 4-cyclohexylide	16.732	190	NJ
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-14 (24-25)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1462-13B

Sample wt/vol: 5.30 (g/mL) G

Lab File ID: V6G0550.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/06/2008

% Moisture: not dec. 21

Date Analyzed: 09/09/2008

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	29	
74-88-4	Iodomethane	6.0	U
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	6.9	
108-05-4	Vinyl acetate	6.0	U
78-93-3	2-Butanone	6.0	U
156-59-2	cis-1,2-Dichloroethene	6.0	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	6.0	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-14 (24-25)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-13B

Sample wt/vol: 5.30 (g/mL) G Lab File ID: V6G0550.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/06/2008

% Moisture: not dec. 21 Date Analyzed: 09/09/2008

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
127-18-4	Tetrachloroethene	6.0	U
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
630-20-6	1,1,1,2-Tetrachloroethane	6.0	U
100-41-4	Ethylbenzene	6.0	U
1330-20-7	m,p-Xylene	6.0	U
95-47-6	o-Xylene	6.0	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	6.0	U
96-18-4	1,2,3-Trichloropropane	6.0	U
103-65-1	n-Propylbenzene	6.0	U
95-49-8	2-Chlorotoluene	6.0	U
108-67-8	1,3,5-Trimethylbenzene	6.0	U
106-43-4	4-Chlorotoluene	6.0	U
98-06-6	tert-Butylbenzene	6.0	U
95-63-6	1,2,4-Trimethylbenzene	6.0	U
135-98-8	sec-Butylbenzene	6.0	U
99-87-6	4-Isopropyltoluene	6.0	U
541-73-1	1,3-Dichlorobenzene	6.0	U
106-46-7	1,4-Dichlorobenzene	6.0	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	6.0	U
87-61-6	1,2,3-Trichlorobenzene	6.0	U
91-20-3	Naphthalene	6.0	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-14 (24-25)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-13B

Sample wt/vol: 5.30 (g/mL) G Lab File ID: V6G0550.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/06/2008

% Moisture: not dec. 21 Date Analyzed: 09/09/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-16 (0-4)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-14B

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V6G0552.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/06/2008

% Moisture: not dec. 7.0 Date Analyzed: 09/09/2008

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	5.4	U
74-87-3	Chloromethane	5.4	U
75-01-4	Vinyl chloride	5.4	U
74-83-9	Bromomethane	5.4	U
75-00-3	Chloroethane	5.4	U
75-69-4	Trichlorofluoromethane	5.4	U
75-35-4	1,1-Dichloroethene	5.4	U
67-64-1	Acetone	5.4	U
74-88-4	Iodomethane	5.4	U
75-15-0	Carbon disulfide	5.4	U
75-09-2	Methylene chloride	3.2	J
156-60-5	trans-1,2-Dichloroethene	5.4	U
1634-04-4	Methyl tert-butyl ether	5.4	U
75-34-3	1,1-Dichloroethane	5.4	U
108-05-4	Vinyl acetate	5.4	U
78-93-3	2-Butanone	5.4	U
156-59-2	cis-1,2-Dichloroethene	5.4	U
594-20-7	2,2-Dichloropropane	5.4	U
74-97-5	Bromochloromethane	5.4	U
67-66-3	Chloroform	5.4	U
71-55-6	1,1,1-Trichloroethane	5.4	U
563-58-6	1,1-Dichloropropene	5.4	U
56-23-5	Carbon tetrachloride	5.4	U
107-06-2	1,2-Dichloroethane	5.4	U
71-43-2	Benzene	5.4	U
79-01-6	Trichloroethene	5.4	U
78-87-5	1,2-Dichloropropane	5.4	U
74-95-3	Dibromomethane	5.4	U
75-27-4	Bromodichloromethane	5.4	U
10061-01-5	cis-1,3-Dichloropropene	5.4	U
108-10-1	4-Methyl-2-pentanone	5.4	U
108-88-3	Toluene	5.4	U
10061-02-6	trans-1,3-Dichloropropene	5.4	U
79-00-5	1,1,2-Trichloroethane	5.4	U
142-28-9	1,3-Dichloropropane	5.4	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-16 (0-4)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1462-14B

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: V6G0552.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/06/2008

% Moisture: not dec. 7.0

Date Analyzed: 09/09/2008

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
127-18-4	Tetrachloroethene	5.4	U
591-78-6	2-Hexanone	5.4	U
124-48-1	Dibromochloromethane	5.4	U
106-93-4	1,2-Dibromoethane	5.4	U
108-90-7	Chlorobenzene	5.4	U
630-20-6	1,1,1,2-Tetrachloroethane	5.4	U
100-41-4	Ethylbenzene	5.4	U
1330-20-7	m,p-Xylene	5.4	U
95-47-6	o-Xylene	5.4	U
1330-20-7	Xylene (Total)	5.4	U
100-42-5	Styrene	5.4	U
75-25-2	Bromoform	5.4	U
98-82-8	Isopropylbenzene	5.4	U
79-34-5	1,1,2,2-Tetrachloroethane	5.4	U
108-86-1	Bromobenzene	5.4	U
96-18-4	1,2,3-Trichloropropane	5.4	U
103-65-1	n-Propylbenzene	5.4	U
95-49-8	2-Chlorotoluene	5.4	U
108-67-8	1,3,5-Trimethylbenzene	5.4	U
106-43-4	4-Chlorotoluene	5.4	U
98-06-6	tert-Butylbenzene	5.4	U
95-63-6	1,2,4-Trimethylbenzene	5.4	U
135-98-8	sec-Butylbenzene	5.4	U
99-87-6	4-Isopropyltoluene	5.4	U
541-73-1	1,3-Dichlorobenzene	5.4	U
106-46-7	1,4-Dichlorobenzene	5.4	U
104-51-8	n-Butylbenzene	5.4	U
95-50-1	1,2-Dichlorobenzene	5.4	U
96-12-8	1,2-Dibromo-3-chloropropane	5.4	U
120-82-1	1,2,4-Trichlorobenzene	5.4	U
87-68-3	Hexachlorobutadiene	5.4	U
87-61-6	1,2,3-Trichlorobenzene	5.4	U
91-20-3	Naphthalene	5.4	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-16 (0-4)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-14B

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V6G0552.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/06/2008

% Moisture: not dec. 7.0 Date Analyzed: 09/09/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-17
(8-11.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-15B

Sample wt/vol: 4.80 (g/mL) G Lab File ID: V6G0553.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/06/2008

% Moisture: not dec. 10 Date Analyzed: 09/09/2008

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	5.8	U
74-87-3	Chloromethane	5.8	U
75-01-4	Vinyl chloride	5.8	U
74-83-9	Bromomethane	5.8	U
75-00-3	Chloroethane	5.8	U
75-69-4	Trichlorofluoromethane	5.8	U
75-35-4	1,1-Dichloroethene	5.8	U
67-64-1	Acetone	32	
74-88-4	Iodomethane	5.8	U
75-15-0	Carbon disulfide	5.8	U
75-09-2	Methylene chloride	5.8	U
156-60-5	trans-1,2-Dichloroethene	5.8	U
1634-04-4	Methyl tert-butyl ether	5.8	U
75-34-3	1,1-Dichloroethane	5.8	U
108-05-4	Vinyl acetate	5.8	U
78-93-3	2-Butanone	5.8	U
156-59-2	cis-1,2-Dichloroethene	5.8	U
594-20-7	2,2-Dichloropropane	5.8	U
74-97-5	Bromochloromethane	5.8	U
67-66-3	Chloroform	5.8	U
71-55-6	1,1,1-Trichloroethane	5.8	U
563-58-6	1,1-Dichloropropene	5.8	U
56-23-5	Carbon tetrachloride	5.8	U
107-06-2	1,2-Dichloroethane	5.8	U
71-43-2	Benzene	5.8	U
79-01-6	Trichloroethene	5.8	U
78-87-5	1,2-Dichloropropane	5.8	U
74-95-3	Dibromomethane	5.8	U
75-27-4	Bromodichloromethane	5.8	U
10061-01-5	cis-1,3-Dichloropropene	5.8	U
108-10-1	4-Methyl-2-pentanone	5.8	U
108-88-3	Toluene	5.8	U
10061-02-6	trans-1,3-Dichloropropene	5.8	U
79-00-5	1,1,2-Trichloroethane	5.8	U
142-28-9	1,3-Dichloropropane	5.8	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-17
(8-11.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-15B

Sample wt/vol: 4.80 (g/mL) G Lab File ID: V6G0553.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/06/2008

% Moisture: not dec. 10 Date Analyzed: 09/09/2008

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
127-18-4	Tetrachloroethene	5.8	U
591-78-6	2-Hexanone	5.8	U
124-48-1	Dibromochloromethane	5.8	U
106-93-4	1,2-Dibromoethane	5.8	U
108-90-7	Chlorobenzene	5.8	U
630-20-6	1,1,1,2-Tetrachloroethane	5.8	U
100-41-4	Ethylbenzene	5.8	U
1330-20-7	m,p-Xylene	5.8	U
95-47-6	o-Xylene	5.8	U
1330-20-7	Xylene (Total)	5.8	U
100-42-5	Styrene	5.8	U
75-25-2	Bromoform	5.8	U
98-82-8	Isopropylbenzene	10	
79-34-5	1,1,2,2-Tetrachloroethane	5.8	U
108-86-1	Bromobenzene	5.8	U
96-18-4	1,2,3-Trichloropropane	5.8	U
103-65-1	n-Propylbenzene	5.8	U
95-49-8	2-Chlorotoluene	5.8	U
108-67-8	1,3,5-Trimethylbenzene	5.8	U
106-43-4	4-Chlorotoluene	5.8	U
98-06-6	tert-Butylbenzene	5.8	U
95-63-6	1,2,4-Trimethylbenzene	5.8	U
135-98-8	sec-Butylbenzene	5.8	U
99-87-6	4-Isopropyltoluene	5.8	U
541-73-1	1,3-Dichlorobenzene	5.8	U
106-46-7	1,4-Dichlorobenzene	5.8	U
104-51-8	n-Butylbenzene	5.8	U
95-50-1	1,2-Dichlorobenzene	5.8	U
96-12-8	1,2-Dibromo-3-chloropropane	5.8	U
120-82-1	1,2,4-Trichlorobenzene	5.8	U
87-68-3	Hexachlorobutadiene	5.8	U
87-61-6	1,2,3-Trichlorobenzene	5.8	U
91-20-3	Naphthalene	5.8	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-17
(8-11.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-15B

Sample wt/vol: 4.80 (g/mL) G Lab File ID: V6G0553.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/06/2008

% Moisture: not dec. 10 Date Analyzed: 09/09/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	80-56-8	.alpha.-Pinene	10.971	200	NJ
02	79-92-5	Camphene	11.312	21	NJ
03	127-91-3	.beta.-Pinene	11.787	18	NJ
04	5989-27-5	D-Limonene	12.504	10	NJ
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-18
(22.5-24.3)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1462-16B

Sample wt/vol: 5.10 (g/mL) G

Lab File ID: V6G0551.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/06/2008

% Moisture: not dec. 16

Date Analyzed: 09/09/2008

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	5.8	U
74-87-3	Chloromethane	5.8	U
75-01-4	Vinyl chloride	5.8	U
74-83-9	Bromomethane	5.8	U
75-00-3	Chloroethane	5.8	U
75-69-4	Trichlorofluoromethane	5.8	U
75-35-4	1,1-Dichloroethene	5.8	U
67-64-1	Acetone	5.8	U
74-88-4	Iodomethane	5.8	U
75-15-0	Carbon disulfide	5.8	U
75-09-2	Methylene chloride	5.8	U
156-60-5	trans-1,2-Dichloroethene	5.8	U
1634-04-4	Methyl tert-butyl ether	5.8	U
75-34-3	1,1-Dichloroethane	5.8	U
108-05-4	Vinyl acetate	5.8	U
78-93-3	2-Butanone	5.8	U
156-59-2	cis-1,2-Dichloroethene	5.8	U
594-20-7	2,2-Dichloropropane	5.8	U
74-97-5	Bromochloromethane	5.8	U
67-66-3	Chloroform	5.8	U
71-55-6	1,1,1-Trichloroethane	5.8	U
563-58-6	1,1-Dichloropropene	5.8	U
56-23-5	Carbon tetrachloride	5.8	U
107-06-2	1,2-Dichloroethane	5.8	U
71-43-2	Benzene	5.8	U
79-01-6	Trichloroethene	5.8	U
78-87-5	1,2-Dichloropropane	5.8	U
74-95-3	Dibromomethane	5.8	U
75-27-4	Bromodichloromethane	5.8	U
10061-01-5	cis-1,3-Dichloropropene	5.8	U
108-10-1	4-Methyl-2-pentanone	5.8	U
108-88-3	Toluene	5.8	U
10061-02-6	trans-1,3-Dichloropropene	5.8	U
79-00-5	1,1,2-Trichloroethane	5.8	U
142-28-9	1,3-Dichloropropane	5.8	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-18
(22.5-24.3)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1462-16B

Sample wt/vol: 5.10 (g/mL) G

Lab File ID: V6G0551.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/06/2008

% Moisture: not dec. 16

Date Analyzed: 09/09/2008

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
127-18-4	Tetrachloroethene	5.8	U
591-78-6	2-Hexanone	5.8	U
124-48-1	Dibromochloromethane	5.8	U
106-93-4	1,2-Dibromoethane	5.8	U
108-90-7	Chlorobenzene	5.8	U
630-20-6	1,1,1,2-Tetrachloroethane	5.8	U
100-41-4	Ethylbenzene	5.8	U
1330-20-7	m,p-Xylene	5.8	U
95-47-6	o-Xylene	5.8	U
1330-20-7	Xylene (Total)	5.8	U
100-42-5	Styrene	5.8	U
75-25-2	Bromoform	5.8	U
98-82-8	Isopropylbenzene	5.8	U
79-34-5	1,1,2,2-Tetrachloroethane	5.8	U
108-86-1	Bromobenzene	5.8	U
96-18-4	1,2,3-Trichloropropane	5.8	U
103-65-1	n-Propylbenzene	5.8	U
95-49-8	2-Chlorotoluene	5.8	U
108-67-8	1,3,5-Trimethylbenzene	5.8	U
106-43-4	4-Chlorotoluene	5.8	U
98-06-6	tert-Butylbenzene	5.8	U
95-63-6	1,2,4-Trimethylbenzene	5.8	U
135-98-8	sec-Butylbenzene	5.8	U
99-87-6	4-Isopropyltoluene	5.8	U
541-73-1	1,3-Dichlorobenzene	5.8	U
106-46-7	1,4-Dichlorobenzene	5.8	U
104-51-8	n-Butylbenzene	5.8	U
95-50-1	1,2-Dichlorobenzene	5.8	U
96-12-8	1,2-Dibromo-3-chloropropane	5.8	U
120-82-1	1,2,4-Trichlorobenzene	5.8	U
87-68-3	Hexachlorobutadiene	5.8	U
87-61-6	1,2,3-Trichlorobenzene	5.8	U
91-20-3	Naphthalene	5.8	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-18
(22.5-24.3)

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1462
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1462-16B
Sample wt/vol: 5.10 (g/mL) G
Lab File ID: V6G0551.D
Level: (TRACE or LOW/MED) LOW
Date Received: 09/06/2008
% Moisture: not dec. 16
Date Analyzed: 09/09/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-19 (0-4)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-03B

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V6G0865.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 7.0 Date Analyzed: 09/19/2008

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	5.3	U
74-87-3	Chloromethane	5.3	U
75-01-4	Vinyl chloride	5.3	U
74-83-9	Bromomethane	5.3	U
75-00-3	Chloroethane	5.3	U
75-69-4	Trichlorofluoromethane	5.3	U
75-35-4	1,1-Dichloroethene	5.3	U
67-64-1	Acetone	5.3	U
74-88-4	Iodomethane	5.3	U
75-15-0	Carbon disulfide	5.3	U
75-09-2	Methylene chloride	2.4	J
156-60-5	trans-1,2-Dichloroethene	5.3	U
1634-04-4	Methyl tert-butyl ether	5.3	U
75-34-3	1,1-Dichloroethane	5.3	U
108-05-4	Vinyl acetate	5.3	U
78-93-3	2-Butanone	5.3	U
156-59-2	cis-1,2-Dichloroethene	5.3	U
594-20-7	2,2-Dichloropropane	5.3	U
74-97-5	Bromochloromethane	5.3	U
67-66-3	Chloroform	5.3	U
71-55-6	1,1,1-Trichloroethane	5.3	U
563-58-6	1,1-Dichloropropene	5.3	U
56-23-5	Carbon tetrachloride	5.3	U
107-06-2	1,2-Dichloroethane	5.3	U
71-43-2	Benzene	5.3	U
79-01-6	Trichloroethene	5.3	U
78-87-5	1,2-Dichloropropane	5.3	U
74-95-3	Dibromomethane	5.3	U
75-27-4	Bromodichloromethane	5.3	U
10061-01-5	cis-1,3-Dichloropropene	5.3	U
108-10-1	4-Methyl-2-pentanone	5.3	U
108-88-3	Toluene	5.3	U
10061-02-6	trans-1,3-Dichloropropene	5.3	U
79-00-5	1,1,2-Trichloroethane	5.3	U
142-28-9	1,3-Dichloropropane	5.3	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-19 (0-4)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-03B

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V6G0865.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 7.0 Date Analyzed: 09/19/2008

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
127-18-4	Tetrachloroethene	5.3	U
591-78-6	2-Hexanone	5.3	U
124-48-1	Dibromochloromethane	5.3	U
106-93-4	1,2-Dibromoethane	5.3	U
108-90-7	Chlorobenzene	5.3	U
630-20-6	1,1,1,2-Tetrachloroethane	5.3	U
100-41-4	Ethylbenzene	5.3	U
1330-20-7	m,p-Xylene	5.3	U
95-47-6	o-Xylene	5.3	U
1330-20-7	Xylene (Total)	5.3	U
100-42-5	Styrene	5.3	U
75-25-2	Bromoform	5.3	U
98-82-8	Isopropylbenzene	5.3	U
79-34-5	1,1,2,2-Tetrachloroethane	5.3	U
108-86-1	Bromobenzene	5.3	U
96-18-4	1,2,3-Trichloropropane	5.3	U
103-65-1	n-Propylbenzene	5.3	U
95-49-8	2-Chlorotoluene	5.3	U
108-67-8	1,3,5-Trimethylbenzene	5.3	U
106-43-4	4-Chlorotoluene	5.3	U
98-06-6	tert-Butylbenzene	5.3	U
95-63-6	1,2,4-Trimethylbenzene	5.3	U
135-98-8	sec-Butylbenzene	5.3	U
99-87-6	4-Isopropyltoluene	5.3	U
541-73-1	1,3-Dichlorobenzene	5.3	U
106-46-7	1,4-Dichlorobenzene	5.3	U
104-51-8	n-Butylbenzene	5.3	U
95-50-1	1,2-Dichlorobenzene	5.3	U
96-12-8	1,2-Dibromo-3-chloropropane	5.3	U
120-82-1	1,2,4-Trichlorobenzene	5.3	U
87-68-3	Hexachlorobutadiene	5.3	U
87-61-6	1,2,3-Trichlorobenzene	5.3	U
91-20-3	Naphthalene	5.3	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-19 (0-4)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-03B

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V6G0865.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 7.0 Date Analyzed: 09/19/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-19 (10-15)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-01B

Sample wt/vol: 1.12 (g/mL) G Lab File ID: V6G0870.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 25 Date Analyzed: 09/19/2008

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	30	U
74-87-3	Chloromethane	30	U
75-01-4	Vinyl chloride	30	U
74-83-9	Bromomethane	30	U
75-00-3	Chloroethane	30	U
75-69-4	Trichlorofluoromethane	30	U
75-35-4	1,1-Dichloroethene	30	U
67-64-1	Acetone	350	
74-88-4	Iodomethane	30	U
75-15-0	Carbon disulfide	30	U
75-09-2	Methylene chloride	17	J
156-60-5	trans-1,2-Dichloroethene	30	U
1634-04-4	Methyl tert-butyl ether	30	U
75-34-3	1,1-Dichloroethane	30	U
108-05-4	Vinyl acetate	30	U
78-93-3	2-Butanone	76	
156-59-2	cis-1,2-Dichloroethene	30	U
594-20-7	2,2-Dichloropropane	30	U
74-97-5	Bromochloromethane	30	U
67-66-3	Chloroform	30	U
71-55-6	1,1,1-Trichloroethane	30	U
563-58-6	1,1-Dichloropropene	30	U
56-23-5	Carbon tetrachloride	30	U
107-06-2	1,2-Dichloroethane	30	U
71-43-2	Benzene	30	U
79-01-6	Trichloroethene	30	U
78-87-5	1,2-Dichloropropane	30	U
74-95-3	Dibromomethane	30	U
75-27-4	Bromodichloromethane	30	U
10061-01-5	cis-1,3-Dichloropropene	30	U
108-10-1	4-Methyl-2-pentanone	30	U
108-88-3	Toluene	30	U
10061-02-6	trans-1,3-Dichloropropene	30	U
79-00-5	1,1,2-Trichloroethane	30	U
142-28-9	1,3-Dichloropropane	30	U

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1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-19 (10-15)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-01B

Sample wt/vol: 1.12 (g/mL) G Lab File ID: V6G0870.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 25 Date Analyzed: 09/19/2008

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
127-18-4	Tetrachloroethene	30	U
591-78-6	2-Hexanone	30	U
124-48-1	Dibromochloromethane	30	U
106-93-4	1,2-Dibromoethane	30	U
108-90-7	Chlorobenzene	30	U
630-20-6	1,1,1,2-Tetrachloroethane	30	U
100-41-4	Ethylbenzene	30	U
1330-20-7	m,p-Xylene	36	
95-47-6	o-Xylene	30	U
1330-20-7	Xylene (Total)	36	
100-42-5	Styrene	30	U
75-25-2	Bromoform	30	U
98-82-8	Isopropylbenzene	94	
79-34-5	1,1,2,2-Tetrachloroethane	30	U
108-86-1	Bromobenzene	30	U
96-18-4	1,2,3-Trichloropropane	30	U
103-65-1	n-Propylbenzene	120	
95-49-8	2-Chlorotoluene	30	U
108-67-8	1,3,5-Trimethylbenzene	100	
106-43-4	4-Chlorotoluene	30	U
98-06-6	tert-Butylbenzene	12	J
95-63-6	1,2,4-Trimethylbenzene	1200	
135-98-8	sec-Butylbenzene	170	
99-87-6	4-Isopropyltoluene	94	
541-73-1	1,3-Dichlorobenzene	30	U
106-46-7	1,4-Dichlorobenzene	30	U
104-51-8	n-Butylbenzene	190	
95-50-1	1,2-Dichlorobenzene	30	U
96-12-8	1,2-Dibromo-3-chloropropane	30	U
120-82-1	1,2,4-Trichlorobenzene	30	U
87-68-3	Hexachlorobutadiene	30	U
87-61-6	1,2,3-Trichlorobenzene	30	U
91-20-3	Naphthalene	460	

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-19 (10-15)

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1522
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1522-01B
Sample wt/vol: 1.12 (g/mL) G
Lab File ID: V6G0870.D
Level: (TRACE or LOW/MED) LOW
Date Received: 09/11/2008
% Moisture: not dec. 25
Date Analyzed: 09/19/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	13.432	1100	J
02		Unknown-02	13.560	1200	J
03	2958-76-1	Naphthalene, decahydro-2-met	13.736	1400	NJ
04	95-93-2	Benzene, 1,2,4,5-tetramethyl	13.943	1400	NJ
05	824-90-8	1-Phenyl-1-butene	14.405	2500	NJ
06	17301-23-4	Undecane, 2,6-dimethyl-	14.570	2500	NJ
07		Unknown-03	14.819	1600	J
08	17059-48-2	1H-Indene, 2,3-dihydro-1,6-d	14.935	1200	NJ
09		Unknown-04	15.056	1200	J
10		Unknown-05	15.129	880	J
11	20836-11-7	1H-Indene,2,3-dihydro-2,2-di	15.513	1200	NJ
12	6682-71-9	1H-Indene, 2,3-dihydro-4,7-d	15.707	1300	NJ
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-20
(15-16.7)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-02B

Sample wt/vol: 1.19 (g/mL) G Lab File ID: V6G0871.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 16 Date Analyzed: 09/19/2008

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	25	U
74-87-3	Chloromethane	25	U
75-01-4	Vinyl chloride	25	U
74-83-9	Bromomethane	25	U
75-00-3	Chloroethane	25	U
75-69-4	Trichlorofluoromethane	25	U
75-35-4	1,1-Dichloroethene	25	U
67-64-1	Acetone	69	
74-88-4	Iodomethane	25	U
75-15-0	Carbon disulfide	12	J
75-09-2	Methylene chloride	17	J
156-60-5	trans-1,2-Dichloroethene	25	U
1634-04-4	Methyl tert-butyl ether	25	U
75-34-3	1,1-Dichloroethane	25	U
108-05-4	Vinyl acetate	25	U
78-93-3	2-Butanone	25	U
156-59-2	cis-1,2-Dichloroethene	25	U
594-20-7	2,2-Dichloropropane	25	U
74-97-5	Bromochloromethane	25	U
67-66-3	Chloroform	25	U
71-55-6	1,1,1-Trichloroethane	25	U
563-58-6	1,1-Dichloropropene	25	U
56-23-5	Carbon tetrachloride	25	U
107-06-2	1,2-Dichloroethane	25	U
71-43-2	Benzene	25	U
79-01-6	Trichloroethene	25	U
78-87-5	1,2-Dichloropropane	25	U
74-95-3	Dibromomethane	25	U
75-27-4	Bromodichloromethane	25	U
10061-01-5	cis-1,3-Dichloropropene	25	U
108-10-1	4-Methyl-2-pentanone	25	U
108-88-3	Toluene	25	U
10061-02-6	trans-1,3-Dichloropropene	25	U
79-00-5	1,1,2-Trichloroethane	25	U
142-28-9	1,3-Dichloropropane	25	U

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1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-20
(15-16.7)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-02B

Sample wt/vol: 1.19 (g/mL) G Lab File ID: V6G0871.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 16 Date Analyzed: 09/19/2008

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
127-18-4	Tetrachloroethene	25	U
591-78-6	2-Hexanone	25	U
124-48-1	Dibromochloromethane	25	U
106-93-4	1,2-Dibromoethane	25	U
108-90-7	Chlorobenzene	25	U
630-20-6	1,1,1,2-Tetrachloroethane	25	U
100-41-4	Ethylbenzene	25	U
1330-20-7	m,p-Xylene	16	J
95-47-6	o-Xylene	11	J
1330-20-7	Xylene (Total)	26	
100-42-5	Styrene	25	U
75-25-2	Bromoform	25	U
98-82-8	Isopropylbenzene	430	
79-34-5	1,1,2,2-Tetrachloroethane	25	U
108-86-1	Bromobenzene	25	U
96-18-4	1,2,3-Trichloropropane	25	U
103-65-1	n-Propylbenzene	800	
95-49-8	2-Chlorotoluene	25	U
108-67-8	1,3,5-Trimethylbenzene	25	U
106-43-4	4-Chlorotoluene	25	U
98-06-6	tert-Butylbenzene	25	U
95-63-6	1,2,4-Trimethylbenzene	670	
135-98-8	sec-Butylbenzene	650	
99-87-6	4-Isopropyltoluene	25	U
541-73-1	1,3-Dichlorobenzene	25	U
106-46-7	1,4-Dichlorobenzene	25	U
104-51-8	n-Butylbenzene	770	
95-50-1	1,2-Dichlorobenzene	25	U
96-12-8	1,2-Dibromo-3-chloropropane	25	U
120-82-1	1,2,4-Trichlorobenzene	25	U
87-68-3	Hexachlorobutadiene	25	U
87-61-6	1,2,3-Trichlorobenzene	25	U
91-20-3	Naphthalene	25	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-20
(15-16.7)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-02B

Sample wt/vol: 1.19 (g/mL) G Lab File ID: V6G0871.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 16 Date Analyzed: 09/19/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	2847-72-5	Decane, 4-methyl-	12.136	1200	NJ
02	873-49-4	Benzene, cyclopropyl-	12.903	900	NJ
03	493-02-7	Naphthalene, decahydro-, tra	13.006	980	NJ
04		Unknown-01	13.243	860	J
05		Unknown-02	13.365	920	J
06	933-98-2	Benzene, 1-ethyl-2,3-dimethy	13.444	1100	NJ
07		Unknown-03	13.566	1200	J
08	000152-47-3	trans-Decalin, 2-methyl-	13.742	1000	NJ
09	4292-92-6	Cyclohexane, pentyl-	13.852	740	NJ
10	527-84-4	Benzene, 1-methyl-2-(1-methy	14.034	780	NJ
11	3454-07-7	Benzene, 1-ethenyl-4-ethyl-	14.411	1300	NJ
12		Unknown-04	14.569	1000	J
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-25 (4-7.2)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-04B

Sample wt/vol: 5.78 (g/mL) G Lab File ID: V6G0868.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 13 Date Analyzed: 09/19/2008

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
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	4.6	J
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
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	5.0	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-25 (4-7.2)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-04B

Sample wt/vol: 5.78 (g/mL) G Lab File ID: V6G0868.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 13 Date Analyzed: 09/19/2008

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
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
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-25 (4-7.2)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-04B

Sample wt/vol: 5.78 (g/mL) G Lab File ID: V6G0868.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 13 Date Analyzed: 09/19/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-26 (10-14)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-11B

Sample wt/vol: 5.24 (g/mL) G Lab File ID: V6G0822.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 23 Date Analyzed: 09/18/2008

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
74-88-4	Iodomethane	6.2	U
75-15-0	Carbon disulfide	6.2	U
75-09-2	Methylene chloride	17	
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
108-05-4	Vinyl acetate	6.2	U
78-93-3	2-Butanone	6.2	U
156-59-2	cis-1,2-Dichloroethene	6.2	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	6.2	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-26 (10-14)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-11B

Sample wt/vol: 5.24 (g/mL) G Lab File ID: V6G0822.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 23 Date Analyzed: 09/18/2008

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
127-18-4	Tetrachloroethene	6.2	U
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
630-20-6	1,1,1,2-Tetrachloroethane	6.2	U
100-41-4	Ethylbenzene	6.2	U
1330-20-7	m,p-Xylene	6.2	U
95-47-6	o-Xylene	6.2	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	6.2	U
96-18-4	1,2,3-Trichloropropane	6.2	U
103-65-1	n-Propylbenzene	6.2	U
95-49-8	2-Chlorotoluene	6.2	U
108-67-8	1,3,5-Trimethylbenzene	6.2	U
106-43-4	4-Chlorotoluene	6.2	U
98-06-6	tert-Butylbenzene	6.2	U
95-63-6	1,2,4-Trimethylbenzene	6.2	U
135-98-8	sec-Butylbenzene	6.2	U
99-87-6	4-Isopropyltoluene	6.2	U
541-73-1	1,3-Dichlorobenzene	6.2	U
106-46-7	1,4-Dichlorobenzene	6.2	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	6.2	U
87-61-6	1,2,3-Trichlorobenzene	6.2	U
91-20-3	Naphthalene	6.2	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-26 (10-14)

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1522
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1522-11B
Sample wt/vol: 5.24 (g/mL) G
Lab File ID: V6G0822.D
Level: (TRACE or LOW/MED) LOW
Date Received: 09/11/2008
% Moisture: not dec. 23
Date Analyzed: 09/18/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-29
(12-14.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-12B

Sample wt/vol: 5.34 (g/mL) G Lab File ID: V6G0823.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 18 Date Analyzed: 09/18/2008

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	5.7	U
74-87-3	Chloromethane	5.7	U
75-01-4	Vinyl chloride	5.7	U
74-83-9	Bromomethane	5.7	U
75-00-3	Chloroethane	5.7	U
75-69-4	Trichlorofluoromethane	5.7	U
75-35-4	1,1-Dichloroethene	5.7	U
67-64-1	Acetone	4.4	J
74-88-4	Iodomethane	5.7	U
75-15-0	Carbon disulfide	5.7	U
75-09-2	Methylene chloride	4.3	J
156-60-5	trans-1,2-Dichloroethene	5.7	U
1634-04-4	Methyl tert-butyl ether	5.7	U
75-34-3	1,1-Dichloroethane	5.7	U
108-05-4	Vinyl acetate	5.7	U
78-93-3	2-Butanone	5.7	U
156-59-2	cis-1,2-Dichloroethene	5.7	U
594-20-7	2,2-Dichloropropane	5.7	U
74-97-5	Bromochloromethane	5.7	U
67-66-3	Chloroform	5.7	U
71-55-6	1,1,1-Trichloroethane	5.7	U
563-58-6	1,1-Dichloropropene	5.7	U
56-23-5	Carbon tetrachloride	5.7	U
107-06-2	1,2-Dichloroethane	5.7	U
71-43-2	Benzene	5.7	U
79-01-6	Trichloroethene	5.7	U
78-87-5	1,2-Dichloropropane	5.7	U
74-95-3	Dibromomethane	5.7	U
75-27-4	Bromodichloromethane	5.7	U
10061-01-5	cis-1,3-Dichloropropene	5.7	U
108-10-1	4-Methyl-2-pentanone	5.7	U
108-88-3	Toluene	5.7	U
10061-02-6	trans-1,3-Dichloropropene	5.7	U
79-00-5	1,1,2-Trichloroethane	5.7	U
142-28-9	1,3-Dichloropropane	5.7	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-29
(12-14.5)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1522-12B

Sample wt/vol: 5.34 (g/mL) G

Lab File ID: V6G0823.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/11/2008

% Moisture: not dec. 18

Date Analyzed: 09/18/2008

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
127-18-4	Tetrachloroethene	5.7	U
591-78-6	2-Hexanone	5.7	U
124-48-1	Dibromochloromethane	5.7	U
106-93-4	1,2-Dibromoethane	5.7	U
108-90-7	Chlorobenzene	5.7	U
630-20-6	1,1,1,2-Tetrachloroethane	5.7	U
100-41-4	Ethylbenzene	5.7	U
1330-20-7	m,p-Xylene	5.7	U
95-47-6	o-Xylene	5.7	U
1330-20-7	Xylene (Total)	5.7	U
100-42-5	Styrene	5.7	U
75-25-2	Bromoform	5.7	U
98-82-8	Isopropylbenzene	5.7	U
79-34-5	1,1,2,2-Tetrachloroethane	5.7	U
108-86-1	Bromobenzene	5.7	U
96-18-4	1,2,3-Trichloropropane	5.7	U
103-65-1	n-Propylbenzene	5.7	U
95-49-8	2-Chlorotoluene	5.7	U
108-67-8	1,3,5-Trimethylbenzene	5.7	U
106-43-4	4-Chlorotoluene	5.7	U
98-06-6	tert-Butylbenzene	5.7	U
95-63-6	1,2,4-Trimethylbenzene	5.7	U
135-98-8	sec-Butylbenzene	5.7	U
99-87-6	4-Isopropyltoluene	5.7	U
541-73-1	1,3-Dichlorobenzene	5.7	U
106-46-7	1,4-Dichlorobenzene	5.7	U
104-51-8	n-Butylbenzene	5.7	U
95-50-1	1,2-Dichlorobenzene	5.7	U
96-12-8	1,2-Dibromo-3-chloropropane	5.7	U
120-82-1	1,2,4-Trichlorobenzene	5.7	U
87-68-3	Hexachlorobutadiene	5.7	U
87-61-6	1,2,3-Trichlorobenzene	5.7	U
91-20-3	Naphthalene	5.7	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-29
(12-14.5)

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1522
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1522-12B
Sample wt/vol: 5.34 (g/mL) G
Lab File ID: V6G0823.D
Level: (TRACE or LOW/MED) LOW
Date Received: 09/11/2008
% Moisture: not dec. 18
Date Analyzed: 09/18/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-30 (12-14)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1522-13B

Sample wt/vol: 5.11 (g/mL) G

Lab File ID: V6G0848.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/11/2008

% Moisture: not dec. 7.0

Date Analyzed: 09/19/2008

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	5.3	U
74-87-3	Chloromethane	5.3	U
75-01-4	Vinyl chloride	5.3	U
74-83-9	Bromomethane	5.3	U
75-00-3	Chloroethane	5.3	U
75-69-4	Trichlorofluoromethane	5.3	U
75-35-4	1,1-Dichloroethene	5.3	U
67-64-1	Acetone	9.4	
74-88-4	Iodomethane	5.3	U
75-15-0	Carbon disulfide	5.3	U
75-09-2	Methylene chloride	12	
156-60-5	trans-1,2-Dichloroethene	5.3	U
1634-04-4	Methyl tert-butyl ether	5.3	U
75-34-3	1,1-Dichloroethane	5.3	U
108-05-4	Vinyl acetate	5.3	U
78-93-3	2-Butanone	5.3	U
156-59-2	cis-1,2-Dichloroethene	5.3	U
594-20-7	2,2-Dichloropropane	5.3	U
74-97-5	Bromochloromethane	5.3	U
67-66-3	Chloroform	5.3	U
71-55-6	1,1,1-Trichloroethane	5.3	U
563-58-6	1,1-Dichloropropene	5.3	U
56-23-5	Carbon tetrachloride	5.3	U
107-06-2	1,2-Dichloroethane	5.3	U
71-43-2	Benzene	5.3	U
79-01-6	Trichloroethene	5.3	U
78-87-5	1,2-Dichloropropane	5.3	U
74-95-3	Dibromomethane	5.3	U
75-27-4	Bromodichloromethane	5.3	U
10061-01-5	cis-1,3-Dichloropropene	5.3	U
108-10-1	4-Methyl-2-pentanone	5.3	U
108-88-3	Toluene	2.4	J
10061-02-6	trans-1,3-Dichloropropene	5.3	U
79-00-5	1,1,2-Trichloroethane	5.3	U
142-28-9	1,3-Dichloropropane	5.3	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-30 (12-14)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-13B

Sample wt/vol: 5.11 (g/mL) G Lab File ID: V6G0848.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 7.0 Date Analyzed: 09/19/2008

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
127-18-4	Tetrachloroethene	5.3	U
591-78-6	2-Hexanone	5.3	U
124-48-1	Dibromochloromethane	5.3	U
106-93-4	1,2-Dibromoethane	5.3	U
108-90-7	Chlorobenzene	5.3	U
630-20-6	1,1,1,2-Tetrachloroethane	5.3	U
100-41-4	Ethylbenzene	5.3	U
1330-20-7	m,p-Xylene	5.3	U
95-47-6	o-Xylene	5.3	U
1330-20-7	Xylene (Total)	5.3	U
100-42-5	Styrene	5.3	U
75-25-2	Bromoform	5.3	U
98-82-8	Isopropylbenzene	5.3	U
79-34-5	1,1,2,2-Tetrachloroethane	5.3	U
108-86-1	Bromobenzene	5.3	U
96-18-4	1,2,3-Trichloropropane	5.3	U
103-65-1	n-Propylbenzene	5.3	U
95-49-8	2-Chlorotoluene	5.3	U
108-67-8	1,3,5-Trimethylbenzene	5.3	U
106-43-4	4-Chlorotoluene	5.3	U
98-06-6	tert-Butylbenzene	5.3	U
95-63-6	1,2,4-Trimethylbenzene	5.3	U
135-98-8	sec-Butylbenzene	5.3	U
99-87-6	4-Isopropyltoluene	5.3	U
541-73-1	1,3-Dichlorobenzene	5.3	U
106-46-7	1,4-Dichlorobenzene	5.3	U
104-51-8	n-Butylbenzene	5.3	U
95-50-1	1,2-Dichlorobenzene	5.3	U
96-12-8	1,2-Dibromo-3-chloropropane	5.3	U
120-82-1	1,2,4-Trichlorobenzene	5.3	U
87-68-3	Hexachlorobutadiene	5.3	U
87-61-6	1,2,3-Trichlorobenzene	5.3	U
91-20-3	Naphthalene	5.3	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-30 (12-14)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-13B

Sample wt/vol: 5.11 (g/mL) G Lab File ID: V6G0848.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 7.0 Date Analyzed: 09/19/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-31
(12-15.4)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1523-10B

Sample wt/vol: 2.61 (g/mL) G

Lab File ID: V6G0872.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/11/2008

% Moisture: not dec. 26

Date Analyzed: 09/19/2008

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	13	U
74-87-3	Chloromethane	13	U
75-01-4	Vinyl chloride	13	U
74-83-9	Bromomethane	13	U
75-00-3	Chloroethane	13	U
75-69-4	Trichlorofluoromethane	13	U
75-35-4	1,1-Dichloroethene	13	U
67-64-1	Acetone	240	
74-88-4	Iodomethane	13	U
75-15-0	Carbon disulfide	13	U
75-09-2	Methylene chloride	43	
156-60-5	trans-1,2-Dichloroethene	13	U
1634-04-4	Methyl tert-butyl ether	13	U
75-34-3	1,1-Dichloroethane	13	U
108-05-4	Vinyl acetate	13	U
78-93-3	2-Butanone	47	
156-59-2	cis-1,2-Dichloroethene	13	U
594-20-7	2,2-Dichloropropane	13	U
74-97-5	Bromochloromethane	13	U
67-66-3	Chloroform	13	U
71-55-6	1,1,1-Trichloroethane	13	U
563-58-6	1,1-Dichloropropene	13	U
56-23-5	Carbon tetrachloride	13	U
107-06-2	1,2-Dichloroethane	13	U
71-43-2	Benzene	13	U
79-01-6	Trichloroethene	13	U
78-87-5	1,2-Dichloropropane	13	U
74-95-3	Dibromomethane	13	U
75-27-4	Bromodichloromethane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
79-00-5	1,1,2-Trichloroethane	13	U
142-28-9	1,3-Dichloropropane	13	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-31
(12-15.4)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-10B

Sample wt/vol: 2.61 (g/mL) G Lab File ID: V6G0872.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 26 Date Analyzed: 09/19/2008

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
127-18-4	Tetrachloroethene	13	U
591-78-6	2-Hexanone	13	U
124-48-1	Dibromochloromethane	13	U
106-93-4	1,2-Dibromoethane	13	U
108-90-7	Chlorobenzene	13	U
630-20-6	1,1,1,2-Tetrachloroethane	13	U
100-41-4	Ethylbenzene	13	U
1330-20-7	m,p-Xylene	13	U
95-47-6	o-Xylene	13	U
1330-20-7	Xylene (Total)	13	U
100-42-5	Styrene	13	U
75-25-2	Bromoform	13	U
98-82-8	Isopropylbenzene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
108-86-1	Bromobenzene	13	U
96-18-4	1,2,3-Trichloropropane	13	U
103-65-1	n-Propylbenzene	13	U
95-49-8	2-Chlorotoluene	13	U
108-67-8	1,3,5-Trimethylbenzene	13	U
106-43-4	4-Chlorotoluene	13	U
98-06-6	tert-Butylbenzene	13	U
95-63-6	1,2,4-Trimethylbenzene	13	U
135-98-8	sec-Butylbenzene	13	U
99-87-6	4-Isopropyltoluene	13	U
541-73-1	1,3-Dichlorobenzene	13	U
106-46-7	1,4-Dichlorobenzene	13	U
104-51-8	n-Butylbenzene	13	U
95-50-1	1,2-Dichlorobenzene	13	U
96-12-8	1,2-Dibromo-3-chloropropane	13	U
120-82-1	1,2,4-Trichlorobenzene	13	U
87-68-3	Hexachlorobutadiene	13	U
87-61-6	1,2,3-Trichlorobenzene	13	U
91-20-3	Naphthalene	13	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-31
(12-15.4)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-10B

Sample wt/vol: 2.61 (g/mL) G Lab File ID: V6G0872.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 26 Date Analyzed: 09/19/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	824-90-8	1-Phenyl-1-butene	14.408	69	NJ
02	17301-28-9	Undecane, 3,6-dimethyl-	14.567	100	NJ
03		Unknown-01	15.205	76	J
04		Unknown-02	15.297	67	J
05	6682-71-9	1H-Indene, 2,3-dihydro-4,7-d	15.710	100	NJ
06	90-12-0	Naphthalene, 1-methyl-	16.270	210	NJ
07	91-57-6	Naphthalene, 2-methyl-	16.471	130	NJ
08	581-42-0	Naphthalene, 2,6-dimethyl-	17.401	150	NJ
09	581-40-8	Naphthalene, 2,3-dimethyl-	17.578	140	NJ
10	571-61-9	Naphthalene, 1,5-dimethyl-	17.627	81	NJ
11	581-40-8	Naphthalene, 2,3-dimethyl-	17.876	68	NJ
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-32
(11-13.9)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-07B

Sample wt/vol: 1.26 (g/mL) G Lab File ID: V6G0841.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 11 Date Analyzed: 09/19/2008

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	22	U
74-87-3	Chloromethane	22	U
75-01-4	Vinyl chloride	22	U
74-83-9	Bromomethane	22	U
75-00-3	Chloroethane	22	U
75-69-4	Trichlorofluoromethane	22	U
75-35-4	1,1-Dichloroethene	22	U
67-64-1	Acetone	15	J
74-88-4	Iodomethane	22	U
75-15-0	Carbon disulfide	22	U
75-09-2	Methylene chloride	20	J
156-60-5	trans-1,2-Dichloroethene	22	U
1634-04-4	Methyl tert-butyl ether	22	U
75-34-3	1,1-Dichloroethane	22	U
108-05-4	Vinyl acetate	22	U
78-93-3	2-Butanone	22	U
156-59-2	cis-1,2-Dichloroethene	22	U
594-20-7	2,2-Dichloropropane	22	U
74-97-5	Bromochloromethane	22	U
67-66-3	Chloroform	22	U
71-55-6	1,1,1-Trichloroethane	22	U
563-58-6	1,1-Dichloropropene	22	U
56-23-5	Carbon tetrachloride	22	U
107-06-2	1,2-Dichloroethane	22	U
71-43-2	Benzene	22	U
79-01-6	Trichloroethene	22	U
78-87-5	1,2-Dichloropropane	22	U
74-95-3	Dibromomethane	22	U
75-27-4	Bromodichloromethane	22	U
10061-01-5	cis-1,3-Dichloropropene	22	U
108-10-1	4-Methyl-2-pentanone	22	U
108-88-3	Toluene	22	U
10061-02-6	trans-1,3-Dichloropropene	22	U
79-00-5	1,1,2-Trichloroethane	22	U
142-28-9	1,3-Dichloropropane	22	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-32
(11-13.9)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1523-07B

Sample wt/vol: 1.26 (g/mL) G

Lab File ID: V6G0841.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/11/2008

% Moisture: not dec. 11

Date Analyzed: 09/19/2008

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
127-18-4	Tetrachloroethene	22	U
591-78-6	2-Hexanone	22	U
124-48-1	Dibromochloromethane	22	U
106-93-4	1,2-Dibromoethane	22	U
108-90-7	Chlorobenzene	22	U
630-20-6	1,1,1,2-Tetrachloroethane	22	U
100-41-4	Ethylbenzene	22	U
1330-20-7	m,p-Xylene	22	U
95-47-6	o-Xylene	22	U
1330-20-7	Xylene (Total)	22	U
100-42-5	Styrene	22	U
75-25-2	Bromoform	22	U
98-82-8	Isopropylbenzene	22	U
79-34-5	1,1,2,2-Tetrachloroethane	22	U
108-86-1	Bromobenzene	22	U
96-18-4	1,2,3-Trichloropropane	22	U
103-65-1	n-Propylbenzene	9.0	J
95-49-8	2-Chlorotoluene	22	U
108-67-8	1,3,5-Trimethylbenzene	22	U
106-43-4	4-Chlorotoluene	22	U
98-06-6	tert-Butylbenzene	22	U
95-63-6	1,2,4-Trimethylbenzene	22	U
135-98-8	sec-Butylbenzene	39	
99-87-6	4-Isopropyltoluene	22	U
541-73-1	1,3-Dichlorobenzene	22	U
106-46-7	1,4-Dichlorobenzene	22	U
104-51-8	n-Butylbenzene	100	
95-50-1	1,2-Dichlorobenzene	22	U
96-12-8	1,2-Dibromo-3-chloropropane	22	U
120-82-1	1,2,4-Trichlorobenzene	22	U
87-68-3	Hexachlorobutadiene	22	U
87-61-6	1,2,3-Trichlorobenzene	22	U
91-20-3	Naphthalene	22	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-32
(11-13.9)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-07B

Sample wt/vol: 1.26 (g/mL) G Lab File ID: V6G0841.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 11 Date Analyzed: 09/19/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	000152-47-3	trans-Decalin, 2-methyl-	13.736	1500	NJ
02		Unknown-01	13.980	1400	J
03	27087-54-3	Bicyclo[4.2.0]octa-1,3,5-tri	14.041	1300	NJ
04		Unknown-02	14.138	1500	J
05		Unknown-03	14.424	1500	J
06		Unknown-04	14.570	1400	J
07		Unknown-05	14.625	1300	J
08		Unknown-06	14.728	880	J
09	4706-89-2	Benzene, 2,4-dimethyl-1-(1-m	14.819	1700	NJ
10		Unknown-07	14.959	1100	J
11		Unknown-08	15.075	1100	J
12		Unknown-09	15.190	1100	J
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-33
(10-12.3)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-11B

Sample wt/vol: 5.11 (g/mL) G Lab File ID: V6G0869.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 10 Date Analyzed: 09/19/2008

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	5.4	U
74-87-3	Chloromethane	5.4	U
75-01-4	Vinyl chloride	5.4	U
74-83-9	Bromomethane	5.4	U
75-00-3	Chloroethane	5.4	U
75-69-4	Trichlorofluoromethane	5.4	U
75-35-4	1,1-Dichloroethene	5.4	U
67-64-1	Acetone	3.6	J
74-88-4	Iodomethane	5.4	U
75-15-0	Carbon disulfide	5.4	U
75-09-2	Methylene chloride	25	
156-60-5	trans-1,2-Dichloroethene	5.4	U
1634-04-4	Methyl tert-butyl ether	5.4	U
75-34-3	1,1-Dichloroethane	5.4	U
108-05-4	Vinyl acetate	5.4	U
78-93-3	2-Butanone	5.4	U
156-59-2	cis-1,2-Dichloroethene	5.4	U
594-20-7	2,2-Dichloropropane	5.4	U
74-97-5	Bromochloromethane	5.4	U
67-66-3	Chloroform	5.4	U
71-55-6	1,1,1-Trichloroethane	5.4	U
563-58-6	1,1-Dichloropropene	5.4	U
56-23-5	Carbon tetrachloride	5.4	U
107-06-2	1,2-Dichloroethane	5.4	U
71-43-2	Benzene	5.4	U
79-01-6	Trichloroethene	5.4	U
78-87-5	1,2-Dichloropropane	5.4	U
74-95-3	Dibromomethane	5.4	U
75-27-4	Bromodichloromethane	5.4	U
10061-01-5	cis-1,3-Dichloropropene	5.4	U
108-10-1	4-Methyl-2-pentanone	5.4	U
108-88-3	Toluene	5.4	U
10061-02-6	trans-1,3-Dichloropropene	5.4	U
79-00-5	1,1,2-Trichloroethane	5.4	U
142-28-9	1,3-Dichloropropane	5.4	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-33
(10-12.3)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-11B

Sample wt/vol: 5.11 (g/mL) G Lab File ID: V6G0869.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 10 Date Analyzed: 09/19/2008

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
127-18-4	Tetrachloroethene	5.4	U
591-78-6	2-Hexanone	5.4	U
124-48-1	Dibromochloromethane	5.4	U
106-93-4	1,2-Dibromoethane	5.4	U
108-90-7	Chlorobenzene	5.4	U
630-20-6	1,1,1,2-Tetrachloroethane	5.4	U
100-41-4	Ethylbenzene	5.4	U
1330-20-7	m,p-Xylene	5.4	U
95-47-6	o-Xylene	5.4	U
1330-20-7	Xylene (Total)	5.4	U
100-42-5	Styrene	5.4	U
75-25-2	Bromoform	5.4	U
98-82-8	Isopropylbenzene	5.4	U
79-34-5	1,1,2,2-Tetrachloroethane	5.4	U
108-86-1	Bromobenzene	5.4	U
96-18-4	1,2,3-Trichloropropane	5.4	U
103-65-1	n-Propylbenzene	5.4	U
95-49-8	2-Chlorotoluene	5.4	U
108-67-8	1,3,5-Trimethylbenzene	5.4	U
106-43-4	4-Chlorotoluene	5.4	U
98-06-6	tert-Butylbenzene	5.4	U
95-63-6	1,2,4-Trimethylbenzene	5.4	U
135-98-8	sec-Butylbenzene	5.4	U
99-87-6	4-Isopropyltoluene	5.4	U
541-73-1	1,3-Dichlorobenzene	5.4	U
106-46-7	1,4-Dichlorobenzene	5.4	U
104-51-8	n-Butylbenzene	5.4	U
95-50-1	1,2-Dichlorobenzene	5.4	U
96-12-8	1,2-Dibromo-3-chloropropane	5.4	U
120-82-1	1,2,4-Trichlorobenzene	5.4	U
87-68-3	Hexachlorobutadiene	5.4	U
87-61-6	1,2,3-Trichlorobenzene	5.4	U
91-20-3	Naphthalene	5.4	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-33
(10-12.3)

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1523
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1523-11B
Sample wt/vol: 5.11 (g/mL) G
Lab File ID: V6G0869.D
Level: (TRACE or LOW/MED) LOW
Date Received: 09/11/2008
% Moisture: not dec. 10
Date Analyzed: 09/19/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-34 (16-22)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-08B

Sample wt/vol: 5.21 (g/mL) G Lab File ID: V6G0842.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 21 Date Analyzed: 09/19/2008

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	11	
74-88-4	Iodomethane	6.1	U
75-15-0	Carbon disulfide	6.1	U
75-09-2	Methylene chloride	36	
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
108-05-4	Vinyl acetate	6.1	U
78-93-3	2-Butanone	6.1	U
156-59-2	cis-1,2-Dichloroethene	6.1	U
594-20-7	2,2-Dichloropropane	6.1	U
74-97-5	Bromochloromethane	6.1	U
67-66-3	Chloroform	6.1	U
71-55-6	1,1,1-Trichloroethane	6.1	U
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	6.1	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-34 (16-22)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1523-08B

Sample wt/vol: 5.21 (g/mL) G

Lab File ID: V6G0842.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/11/2008

% Moisture: not dec. 21

Date Analyzed: 09/19/2008

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
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
630-20-6	1,1,1,2-Tetrachloroethane	6.1	U
100-41-4	Ethylbenzene	6.1	U
1330-20-7	m,p-Xylene	6.1	U
95-47-6	o-Xylene	6.1	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	6.1	U
96-18-4	1,2,3-Trichloropropane	6.1	U
103-65-1	n-Propylbenzene	6.1	U
95-49-8	2-Chlorotoluene	6.1	U
108-67-8	1,3,5-Trimethylbenzene	6.1	U
106-43-4	4-Chlorotoluene	6.1	U
98-06-6	tert-Butylbenzene	6.1	U
95-63-6	1,2,4-Trimethylbenzene	6.1	U
135-98-8	sec-Butylbenzene	6.1	U
99-87-6	4-Isopropyltoluene	6.1	U
541-73-1	1,3-Dichlorobenzene	6.1	U
106-46-7	1,4-Dichlorobenzene	6.1	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	6.1	U
87-61-6	1,2,3-Trichlorobenzene	6.1	U
91-20-3	Naphthalene	6.1	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-34 (16-22)

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1523
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1523-08B
Sample wt/vol: 5.21 (g/mL) G
Lab File ID: V6G0842.D
Level: (TRACE or LOW/MED) LOW
Date Received: 09/11/2008
% Moisture: not dec. 21
Date Analyzed: 09/19/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	15.292	12	J
02		Unknown-02	15.919	9.2	J
03		Unknown-03	16.265	12	J
04		Unknown-04	16.503	10	J
05		Unknown-05	16.576	13	J
06		Unknown-06	16.728	11	J
07		Unknown-07	16.910	10	J
08		Unknown-08	17.020	8.9	J
09		Unknown-09	17.324	15	J
10	581-40-8	Naphthalene, 2,3-dimethyl-	17.883	11	NJ
11	573-98-8	Naphthalene, 1,2-dimethyl-	18.072	11	NJ
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-35 (18-20)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1550

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1550-01B

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5K1096.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 14 Date Analyzed: 09/23/2008

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	5.7	U
74-87-3	Chloromethane	5.7	U
75-01-4	Vinyl chloride	5.7	U
74-83-9	Bromomethane	5.7	U
75-00-3	Chloroethane	5.7	U
75-69-4	Trichlorofluoromethane	5.7	U
75-35-4	1,1-Dichloroethene	5.7	U
67-64-1	Acetone	5.7	U
74-88-4	Iodomethane	5.7	U
75-15-0	Carbon disulfide	5.7	U
75-09-2	Methylene chloride	5.7	U
156-60-5	trans-1,2-Dichloroethene	5.7	U
1634-04-4	Methyl tert-butyl ether	5.7	U
75-34-3	1,1-Dichloroethane	5.7	U
108-05-4	Vinyl acetate	5.7	U
78-93-3	2-Butanone	5.7	U
156-59-2	cis-1,2-Dichloroethene	5.7	U
594-20-7	2,2-Dichloropropane	5.7	U
74-97-5	Bromochloromethane	5.7	U
67-66-3	Chloroform	5.7	U
71-55-6	1,1,1-Trichloroethane	5.7	U
563-58-6	1,1-Dichloropropene	5.7	U
56-23-5	Carbon tetrachloride	5.7	U
107-06-2	1,2-Dichloroethane	5.7	U
71-43-2	Benzene	5.7	U
79-01-6	Trichloroethene	12	
78-87-5	1,2-Dichloropropane	5.7	U
74-95-3	Dibromomethane	5.7	U
75-27-4	Bromodichloromethane	5.7	U
10061-01-5	cis-1,3-Dichloropropene	5.7	U
108-10-1	4-Methyl-2-pentanone	5.7	U
108-88-3	Toluene	5.7	U
10061-02-6	trans-1,3-Dichloropropene	5.7	U
79-00-5	1,1,2-Trichloroethane	5.7	U
142-28-9	1,3-Dichloropropane	5.7	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-35 (18-20)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1550

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1550-01B

Sample wt/vol: 5.10 (g/mL) G

Lab File ID: V5K1096.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/13/2008

% Moisture: not dec. 14

Date Analyzed: 09/23/2008

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
127-18-4	Tetrachloroethene	5.7	U
591-78-6	2-Hexanone	5.7	U
124-48-1	Dibromochloromethane	5.7	U
106-93-4	1,2-Dibromoethane	5.7	U
108-90-7	Chlorobenzene	5.7	U
630-20-6	1,1,1,2-Tetrachloroethane	5.7	U
100-41-4	Ethylbenzene	5.7	U
1330-20-7	m,p-Xylene	5.7	U
95-47-6	o-Xylene	5.7	U
1330-20-7	Xylene (Total)	5.7	U
100-42-5	Styrene	5.7	U
75-25-2	Bromoform	5.7	U
98-82-8	Isopropylbenzene	5.7	U
79-34-5	1,1,2,2-Tetrachloroethane	5.7	U
108-86-1	Bromobenzene	5.7	U
96-18-4	1,2,3-Trichloropropane	5.7	U
103-65-1	n-Propylbenzene	5.7	U
95-49-8	2-Chlorotoluene	5.7	U
108-67-8	1,3,5-Trimethylbenzene	5.7	U
106-43-4	4-Chlorotoluene	5.7	U
98-06-6	tert-Butylbenzene	5.7	U
95-63-6	1,2,4-Trimethylbenzene	5.7	U
135-98-8	sec-Butylbenzene	5.7	U
99-87-6	4-Isopropyltoluene	5.7	U
541-73-1	1,3-Dichlorobenzene	5.7	U
106-46-7	1,4-Dichlorobenzene	5.7	U
104-51-8	n-Butylbenzene	5.7	U
95-50-1	1,2-Dichlorobenzene	5.7	U
96-12-8	1,2-Dibromo-3-chloropropane	5.7	U
120-82-1	1,2,4-Trichlorobenzene	5.7	U
87-68-3	Hexachlorobutadiene	5.7	U
87-61-6	1,2,3-Trichlorobenzene	5.7	U
91-20-3	Naphthalene	5.7	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-35 (18-20)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1550

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1550-01B

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5K1096.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 14 Date Analyzed: 09/23/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-36
(18-20.9)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-19B

Sample wt/vol: 4.60 (g/mL) G Lab File ID: V5K1092.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 18 Date Analyzed: 09/23/2008

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
74-88-4	Iodomethane	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
108-05-4	Vinyl acetate	6.6	U
78-93-3	2-Butanone	6.6	U
156-59-2	cis-1,2-Dichloroethene	6.6	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	6.6	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-36
(18-20.9)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-19B

Sample wt/vol: 4.60 (g/mL) G Lab File ID: V5K1092.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 18 Date Analyzed: 09/23/2008

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
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
630-20-6	1,1,1,2-Tetrachloroethane	6.6	U
100-41-4	Ethylbenzene	6.6	U
1330-20-7	m,p-Xylene	6.6	U
95-47-6	o-Xylene	6.6	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	6.6	U
96-18-4	1,2,3-Trichloropropane	6.6	U
103-65-1	n-Propylbenzene	6.6	U
95-49-8	2-Chlorotoluene	6.6	U
108-67-8	1,3,5-Trimethylbenzene	6.6	U
106-43-4	4-Chlorotoluene	6.6	U
98-06-6	tert-Butylbenzene	6.6	U
95-63-6	1,2,4-Trimethylbenzene	6.6	U
135-98-8	sec-Butylbenzene	6.6	U
99-87-6	4-Isopropyltoluene	6.6	U
541-73-1	1,3-Dichlorobenzene	6.6	U
106-46-7	1,4-Dichlorobenzene	6.6	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	6.6	U
87-61-6	1,2,3-Trichlorobenzene	6.6	U
91-20-3	Naphthalene	6.6	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-36
(18-20.9)

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1549
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1549-19B
Sample wt/vol: 4.60 (g/mL) G
Lab File ID: V5K1092.D
Level: (TRACE or LOW/MED) LOW
Date Received: 09/13/2008
% Moisture: not dec. 18
Date Analyzed: 09/23/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-37
(14-15.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-20B

Sample wt/vol: 4.70 (g/mL) G Lab File ID: V5K1093.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 19 Date Analyzed: 09/23/2008

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
74-88-4	Iodomethane	6.6	U
75-15-0	Carbon disulfide	6.6	U
75-09-2	Methylene chloride	2.9	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
108-05-4	Vinyl acetate	6.6	U
78-93-3	2-Butanone	6.6	U
156-59-2	cis-1,2-Dichloroethene	6.6	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	6.6	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-37
(14-15.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-20B

Sample wt/vol: 4.70 (g/mL) G Lab File ID: V5K1093.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 19 Date Analyzed: 09/23/2008

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
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
630-20-6	1,1,1,2-Tetrachloroethane	6.6	U
100-41-4	Ethylbenzene	6.6	U
1330-20-7	m,p-Xylene	6.6	U
95-47-6	o-Xylene	6.6	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	6.6	U
96-18-4	1,2,3-Trichloropropane	6.6	U
103-65-1	n-Propylbenzene	6.6	U
95-49-8	2-Chlorotoluene	6.6	U
108-67-8	1,3,5-Trimethylbenzene	6.6	U
106-43-4	4-Chlorotoluene	6.6	U
98-06-6	tert-Butylbenzene	6.6	U
95-63-6	1,2,4-Trimethylbenzene	6.6	U
135-98-8	sec-Butylbenzene	6.6	U
99-87-6	4-Isopropyltoluene	6.6	U
541-73-1	1,3-Dichlorobenzene	6.6	U
106-46-7	1,4-Dichlorobenzene	6.6	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	6.6	U
87-61-6	1,2,3-Trichlorobenzene	6.6	U
91-20-3	Naphthalene	6.6	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-37
(14-15.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-20B

Sample wt/vol: 4.70 (g/mL) G Lab File ID: V5K1093.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 19 Date Analyzed: 09/23/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-01 (06)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-01A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2641.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/10/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/18/2008

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	370	U
111-44-4	Bis(2-chloroethyl)ether	370	U
95-57-8	2-Chlorophenol	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
95-48-7	2-Methylphenol	370	U
108-60-1	2,2´-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-di-n-propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
111-91-1	Bis(2-chloroethoxy)methane	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	750	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	750	U
131-11-3	Dimethylphthalate	370	U
208-96-8	Acenaphthylene	130	J
606-20-2	2,6-Dinitrotoluene	370	U
99-09-2	3-Nitroaniline	750	U
83-32-9	Acenaphthene	370	U
51-28-5	2,4-Dinitrophenol	750	U
100-02-7	4-Nitrophenol	750	U
132-64-9	Dibenzofuran	370	U
121-14-2	2,4-Dinitrotoluene	370	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-01 (06)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-01A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2641.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/10/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/18/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
86-73-7	Fluorene	370	U
100-01-6	4-Nitroaniline	750	U
534-52-1	4,6-Dinitro-2-methylphenol	750	U
86-30-6	N-Nitrosodiphenylamine	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	750	U
85-01-8	Phenanthrene	800	
120-12-7	Anthracene	270	J
86-74-8	Carbazole	370	U
84-74-2	Di-n-butylphthalate	370	U
206-44-0	Fluoranthene	1600	
129-00-0	Pyrene	1500	
85-68-7	Butylbenzylphthalate	370	U
91-94-1	3,3´-Dichlorobenzidine	370	U
56-55-3	Benzo(a)anthracene	850	
218-01-9	Chrysene	790	
117-81-7	Bis(2-ethylhexyl)phthalate	220	J
117-84-0	Di-n-octylphthalate	370	U
205-99-2	Benzo(b)fluoranthene	1000	
207-08-9	Benzo(k)fluoranthene	430	
50-32-8	Benzo(a)pyrene	790	
193-39-5	Indeno(1,2,3-cd)pyrene	460	
53-70-3	Dibenzo(a,h)anthracene	130	J
191-24-2	Benzo(g,h,i)perylene	530	

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-01 (06)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-01A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2641.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/10/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/18/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	70-55-3	Benzenesulfonamide, 4-methyl	11.420	310	NJ
02	57-10-3	n-Hexadecanoic acid	12.654	260	NJ
03	5737-13-3	Cyclopenta(def)phenanthrenon	13.156	190	NJ
04	301-02-0	9-Octadecenamide, (Z)-	14.000	690	NJ
05	112-84-5	13-Docosenamide, (Z)-	15.133	350	NJ
06	192-97-2	Benzo[e]pyrene	15.624	420	NJ
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-01 (06)RX

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-01ARE

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2669.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/19/2008

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	360	U
111-44-4	Bis(2-chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2´-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
111-91-1	Bis(2-chloroethoxy)methane	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	740	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	740	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	190	J
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	740	U
83-32-9	Acenaphthene	360	U
51-28-5	2,4-Dinitrophenol	740	U
100-02-7	4-Nitrophenol	740	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-01 (06)RX

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-01ARE

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2669.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	740	U
534-52-1	4,6-Dinitro-2-methylphenol	740	U
86-30-6	N-Nitrosodiphenylamine	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	740	U
85-01-8	Phenanthrene	900	
120-12-7	Anthracene	360	J
86-74-8	Carbazole	360	U
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	1900	
129-00-0	Pyrene	1700	
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3´-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	1000	
218-01-9	Chrysene	920	
117-81-7	Bis(2-ethylhexyl)phthalate	300	J
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	1200	
207-08-9	Benzo(k)fluoranthene	530	
50-32-8	Benzo(a)pyrene	960	
193-39-5	Indeno(1,2,3-cd)pyrene	570	
53-70-3	Dibenzo(a,h)anthracene	170	J
191-24-2	Benzo(g,h,i)perylene	640	

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-01 (06)RX

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-01ARE

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2669.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	6.357	460	J
02		Unknown-02	8.002	1400	J
03	2035-75-8	2,7-Oxepanedione	8.697	800	NJ
04	143-07-7	Dodecanoic acid	10.700	450	NJ
05		Unknown-03	10.930	300	J
06		Unknown-04	11.245	2800	J
07	70-55-3	Benzenesulfonamide, 4-methyl	11.411	450	NJ
08		Unknown-05	11.667	300	J
09		Unknown-06	13.318	190	J
10		Unknown-07	14.076	180	J
11		Unknown-08	14.119	260	J
12		Unknown-09	14.397	220	J
13		Unknown-10	14.904	710	J
14	112-84-5	13-Docosenamide, (Z)-	15.107	380	NJ
15		Unknown-11	15.198	2800	J
16	192-97-2	Benzo[e]pyrene	15.593	680	NJ
17		Unknown-12	16.128	4100	J
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-02 (6-9)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-02A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2642.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/10/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/18/2008

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	390	U
111-44-4	Bis(2-chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	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
95-48-7	2-Methylphenol	390	U
108-60-1	2,2´-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
111-91-1	Bis(2-chloroethoxy)methane	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	780	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	780	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	100	J
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	780	U
83-32-9	Acenaphthene	390	U
51-28-5	2,4-Dinitrophenol	780	U
100-02-7	4-Nitrophenol	780	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-02 (6-9)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-02A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2642.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/10/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/18/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	780	U
534-52-1	4,6-Dinitro-2-methylphenol	780	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	780	U
85-01-8	Phenanthrene	1200	
120-12-7	Anthracene	260	J
86-74-8	Carbazole	170	J
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	1900	
129-00-0	Pyrene	1500	
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3´-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	940	
218-01-9	Chrysene	920	
117-81-7	Bis(2-ethylhexyl)phthalate	330	J
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	1200	
207-08-9	Benzo(k)fluoranthene	500	
50-32-8	Benzo(a)pyrene	830	
193-39-5	Indeno(1,2,3-cd)pyrene	500	
53-70-3	Dibenzo(a,h)anthracene	150	J
191-24-2	Benzo(g,h,i)perylene	570	

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-02 (6-9)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-02A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2642.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/10/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/18/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	832-69-9	Phenanthrene, 1-methyl-	12.601	190	NJ
02	84-65-1	9,10-Anthracenedione	12.874	230	NJ
03	5737-13-3	Cyclopenta(def)phenanthrenon	13.157	160	NJ
04	301-02-0	9-Octadecenamide, (Z)-	14.006	820	NJ
05	112-84-5	13-Docosenamide, (Z)-	15.150	250	NJ
06	192-97-2	Benzo[e]pyrene	15.641	520	NJ
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-02 (6-9)RX

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-02ARE

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2670.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/19/2008

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	390	U
111-44-4	Bis(2-chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	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
95-48-7	2-Methylphenol	390	U
108-60-1	2,2´-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
111-91-1	Bis(2-chloroethoxy)methane	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	790	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	790	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	150	J
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	790	U
83-32-9	Acenaphthene	91	J
51-28-5	2,4-Dinitrophenol	790	U
100-02-7	4-Nitrophenol	790	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-02 (6-9)RX

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-02ARE

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2670.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	120	J
100-01-6	4-Nitroaniline	790	U
534-52-1	4,6-Dinitro-2-methylphenol	790	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	790	U
85-01-8	Phenanthrene	1700	
120-12-7	Anthracene	380	J
86-74-8	Carbazole	230	J
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	2500	
129-00-0	Pyrene	2000	
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3´-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	1200	
218-01-9	Chrysene	1200	
117-81-7	Bis(2-ethylhexyl)phthalate	350	J
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	1400	
207-08-9	Benzo(k)fluoranthene	640	
50-32-8	Benzo(a)pyrene	1000	
193-39-5	Indeno(1,2,3-cd)pyrene	640	
53-70-3	Dibenzo(a,h)anthracene	220	J
191-24-2	Benzo(g,h,i)perylene	710	

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1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-02 (6-9)RX

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1462
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1462-02ARE
Sample wt/vol: 30.1 (g/mL) G
Lab File ID: S3F2670.D
Level: (TRACE or LOW/MED) LOW
Extraction: (Type) SONC
% Moisture: 15
Decanted: (Y/N) N
Date Received: 09/04/2008
Concentrated Extract Volume: 1000 (uL)
Date Extracted: 09/18/2008
Injection Volume: 1.0 (uL)
GPC Factor: 1.00
Date Analyzed: 09/19/2008
GPC Cleanup: (Y/N) N
pH:
Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	8.007	960	J
02	2035-75-8	2,7-Oxepanedione	8.653	730	NJ
03	143-07-7	Dodecanoic acid	10.694	230	NJ
04		Unknown-02	10.908	190	J
05		Unknown-03	11.244	2500	J
06		Unknown-04	11.666	170	J
07	2531-84-2	Phenanthrene, 2-methyl-	12.548	250	NJ
08	2531-84-2	Phenanthrene, 2-methyl-	12.569	260	NJ
09	57-10-3	n-Hexadecanoic acid	12.628	200	NJ
10	203-64-5	4H-Cyclopenta[def]phenanthre	12.644	450	NJ
11	832-69-9	Phenanthrene, 1-methyl-	12.671	180	NJ
12	5737-13-3	Cyclopenta(def)phenanthrenon	13.125	180	NJ
13		Unknown-05	14.898	680	J
14		Unknown-06	15.192	1400	J
15		Unknown-07	16.122	2400	J
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-03 (2-5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-03A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2643.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/10/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/18/2008

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	380	U
111-44-4	Bis(2-chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2´-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
111-91-1	Bis(2-chloroethoxy)methane	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	760	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	760	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	170	J
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	760	U
83-32-9	Acenaphthene	120	J
51-28-5	2,4-Dinitrophenol	760	U
100-02-7	4-Nitrophenol	760	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U

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1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-03 (2-5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-03A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2643.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/10/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/18/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	140	J
100-01-6	4-Nitroaniline	760	U
534-52-1	4,6-Dinitro-2-methylphenol	760	U
86-30-6	N-Nitrosodiphenylamine	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	760	U
85-01-8	Phenanthrene	2100	
120-12-7	Anthracene	550	
86-74-8	Carbazole	230	J
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	3700	
129-00-0	Pyrene	3100	
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3´-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	1800	
218-01-9	Chrysene	1800	
117-81-7	Bis(2-ethylhexyl)phthalate	380	U
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	1900	
207-08-9	Benzo(k)fluoranthene	1000	
50-32-8	Benzo(a)pyrene	1500	
193-39-5	Indeno(1,2,3-cd)pyrene	860	
53-70-3	Dibenzo(a,h)anthracene	260	J
191-24-2	Benzo(g,h,i)perylene	980	

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-03 (2-5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-03A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2643.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/10/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/18/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	12.576	340	J
02	2531-84-2	Phenanthrene, 2-methyl-	12.602	410	NJ
03	57-10-3	n-Hexadecanoic acid	12.661	590	NJ
04	2531-84-2	Phenanthrene, 2-methyl-	12.699	290	NJ
05	2440-22-4	Drometrizole	13.174	620	NJ
06	57-11-4	Octadecanoic acid	13.356	300	NJ
07	2381-21-7	Pyrene, 1-methyl-	13.628	150	NJ
08	33543-31-6	Fluoranthene, 2-methyl-	13.719	160	NJ
09	301-02-0	9-Octadecenamide, (Z)-	14.007	480	NJ
10		Unknown-02	14.301	160	J
11	301-02-0	9-Octadecenamide, (Z)-	15.151	330	NJ
12	629-94-7	Heneicosane	15.455	240	NJ
13	192-97-2	Benzo[e]pyrene	15.647	1000	NJ
14	000210-38-4	17-(1,5-Dimethylhexyl)-10,13	16.476	340	NJ
15	000214-20-7	Stigmasterol, 22,23-dihydro-	17.373	870	NJ
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

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1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-03 (2-5)RX

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-03ARE

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2671.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/19/2008

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	380	U
111-44-4	Bis(2-chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2´-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
111-91-1	Bis(2-chloroethoxy)methane	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	770	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	770	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	200	J
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	770	U
83-32-9	Acenaphthene	87	J
51-28-5	2,4-Dinitrophenol	770	U
100-02-7	4-Nitrophenol	770	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-03 (2-5)RX

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-03ARE

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2671.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	110	J
100-01-6	4-Nitroaniline	770	U
534-52-1	4,6-Dinitro-2-methylphenol	770	U
86-30-6	N-Nitrosodiphenylamine	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	770	U
85-01-8	Phenanthrene	2000	
120-12-7	Anthracene	550	
86-74-8	Carbazole	200	J
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	3700	
129-00-0	Pyrene	3200	
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3´-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	1800	
218-01-9	Chrysene	1700	
117-81-7	Bis(2-ethylhexyl)phthalate	380	U
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	1900	
207-08-9	Benzo(k)fluoranthene	930	
50-32-8	Benzo(a)pyrene	1500	
193-39-5	Indeno(1,2,3-cd)pyrene	910	
53-70-3	Dibenzo(a,h)anthracene	280	J
191-24-2	Benzo(g,h,i)perylene	1000	

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-03 (2-5)RX

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-03ARE

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2671.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	8.010	860	J
02	2035-75-8	2,7-Oxepanedione	8.609	360	NJ
03	143-07-7	Dodecanoic acid	10.698	310	NJ
04		Unknown-02	11.242	2400	J
05	2531-84-2	Phenanthrene, 2-methyl-	12.546	340	NJ
06	832-71-3	Phenanthrene, 3-methyl-	12.573	530	NJ
07	203-64-5	4H-Cyclopenta[def]phenanthre	12.647	720	NJ
08	781-43-1	9,10-Dimethylanthracene	13.059	310	NJ
09	5737-13-3	Cyclopenta(def)phenanthrenon	13.128	380	NJ
10	2381-21-7	Pyrene, 1-methyl-	13.593	160	NJ
11	479-79-8	11H-Benzo[a]fluoren-11-one	14.127	180	NJ
12		Unknown-03	14.907	280	J
13		Unknown-04	15.201	1900	J
14	198-55-0	Perylene	15.602	1100	NJ
15		Unknown-05	16.131	3300	J
16	83-47-6	.gamma.-Sitosterol	17.300	660	NJ
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-04 (0-5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-04A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2644.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/10/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/18/2008

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	390	U
111-44-4	Bis(2-chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	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
95-48-7	2-Methylphenol	390	U
108-60-1	2,2´-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	300	J
106-47-8	4-Chloroaniline	390	U
111-91-1	Bis(2-chloroethoxy)methane	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	160	J
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	790	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	790	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	130	J
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	790	U
83-32-9	Acenaphthene	710	
51-28-5	2,4-Dinitrophenol	790	U
100-02-7	4-Nitrophenol	790	U
132-64-9	Dibenzofuran	460	
121-14-2	2,4-Dinitrotoluene	390	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-04 (0-5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-04A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2644.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/10/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/18/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	810	
100-01-6	4-Nitroaniline	790	U
534-52-1	4,6-Dinitro-2-methylphenol	790	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	790	U
85-01-8	Phenanthrene	5000	
120-12-7	Anthracene	1400	
86-74-8	Carbazole	830	
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	5100	
129-00-0	Pyrene	4100	
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3´-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	2500	
218-01-9	Chrysene	2300	
117-81-7	Bis(2-ethylhexyl)phthalate	140	J
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	2600	
207-08-9	Benzo(k)fluoranthene	1400	
50-32-8	Benzo(a)pyrene	2100	
193-39-5	Indeno(1,2,3-cd)pyrene	1200	
53-70-3	Dibenzo(a,h)anthracene	380	J
191-24-2	Benzo(g,h,i)perylene	1300	

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-04 (0-5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-04A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2644.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/10/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/18/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	832-71-3	Phenanthrene, 3-methyl-	12.577	550	NJ
02	832-69-9	Phenanthrene, 1-methyl-	12.604	670	NJ
03	57-10-3	n-Hexadecanoic acid	12.663	630	NJ
04	832-69-9	Phenanthrene, 1-methyl-	12.700	410	NJ
05	35465-71-5	2-Phenylnaphthalene	12.860	400	NJ
06	84-65-1	9,10-Anthracenedione	12.876	390	NJ
07	243-17-4	11H-Benzo[b]fluorene	13.720	290	NJ
08		Unknown-01	13.779	230	J
09	301-02-0	9-Octadecenamide, (Z)-	14.009	430	NJ
10	112-84-5	13-Docosenamide, (Z)-	15.147	430	NJ
11		Unknown-02	15.446	480	J
12	192-97-2	Benzo[e]pyrene	15.638	1400	NJ
13	83-46-5	.beta.-Sitosterol	17.364	1100	NJ
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

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1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-04 (0-5)RX

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-04ARE

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2672.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/19/2008

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	390	U
111-44-4	Bis(2-chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	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
95-48-7	2-Methylphenol	390	U
108-60-1	2,2´-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	120	J
106-47-8	4-Chloroaniline	390	U
111-91-1	Bis(2-chloroethoxy)methane	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	790	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	790	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	170	J
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	790	U
83-32-9	Acenaphthene	270	J
51-28-5	2,4-Dinitrophenol	790	U
100-02-7	4-Nitrophenol	790	U
132-64-9	Dibenzofuran	190	J
121-14-2	2,4-Dinitrotoluene	390	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-04 (0-5)RX

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-04ARE

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2672.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	300	J
100-01-6	4-Nitroaniline	790	U
534-52-1	4,6-Dinitro-2-methylphenol	790	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	790	U
85-01-8	Phenanthrene	3300	
120-12-7	Anthracene	710	
86-74-8	Carbazole	540	
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	4000	
129-00-0	Pyrene	3300	
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3´-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	1700	
218-01-9	Chrysene	1900	
117-81-7	Bis(2-ethylhexyl)phthalate	140	J
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	2200	
207-08-9	Benzo(k)fluoranthene	1200	
50-32-8	Benzo(a)pyrene	1700	
193-39-5	Indeno(1,2,3-cd)pyrene	1100	
53-70-3	Dibenzo(a,h)anthracene	350	J
191-24-2	Benzo(g,h,i)perylene	1200	

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-04 (0-5)RX

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-04ARE

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2672.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	8.008	640	J
02	2035-75-8	2,7-Oxepanedione	8.686	1000	NJ
03	143-07-7	Dodecanoic acid	10.700	510	NJ
04		Unknown-02	11.240	1500	J
05	832-69-9	Phenanthrene, 1-methyl-	12.549	410	NJ
06	613-12-7	Anthracene, 2-methyl-	12.570	410	NJ
07	57-10-3	n-Hexadecanoic acid	12.640	1200	NJ
08	84-65-1	9,10-Anthracenedione	12.848	500	NJ
09		Unknown-03	13.110	630	J
10		Unknown-04	13.259	260	J
11	243-17-4	11H-Benzo[b]fluorene	13.687	170	NJ
12		Unknown-05	13.868	540	J
13	479-79-8	11H-Benzo[a]fluoren-11-one	14.125	250	NJ
14		Unknown-06	14.221	190	J
15	479-79-8	11H-Benzo[a]fluoren-11-one	14.306	250	NJ
16		Unknown-07	14.899	250	J
17		Unknown-08	15.193	990	J
18	198-55-0	Perylene	15.594	1200	NJ
19		Unknown-09	16.117	1900	J
20	000214-20-7	Stigmasterol, 22,23-dihydro-	17.287	1400	NJ
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

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1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-05 (0-7)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-05A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2645.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/10/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/18/2008

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	370	U
111-44-4	Bis(2-chloroethyl)ether	370	U
95-57-8	2-Chlorophenol	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
95-48-7	2-Methylphenol	370	U
108-60-1	2,2´-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-di-n-propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
111-91-1	Bis(2-chloroethoxy)methane	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	760	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	760	U
131-11-3	Dimethylphthalate	370	U
208-96-8	Acenaphthylene	98	J
606-20-2	2,6-Dinitrotoluene	370	U
99-09-2	3-Nitroaniline	760	U
83-32-9	Acenaphthene	100	J
51-28-5	2,4-Dinitrophenol	760	U
100-02-7	4-Nitrophenol	760	U
132-64-9	Dibenzofuran	100	J
121-14-2	2,4-Dinitrotoluene	370	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-05 (0-7)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-05A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2645.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/10/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/18/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
86-73-7	Fluorene	150	J
100-01-6	4-Nitroaniline	760	U
534-52-1	4,6-Dinitro-2-methylphenol	760	U
86-30-6	N-Nitrosodiphenylamine	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	760	U
85-01-8	Phenanthrene	1800	
120-12-7	Anthracene	400	
86-74-8	Carbazole	250	J
84-74-2	Di-n-butylphthalate	370	U
206-44-0	Fluoranthene	2200	
129-00-0	Pyrene	1700	
85-68-7	Butylbenzylphthalate	370	U
91-94-1	3,3´-Dichlorobenzidine	370	U
56-55-3	Benzo(a)anthracene	930	
218-01-9	Chrysene	930	
117-81-7	Bis(2-ethylhexyl)phthalate	270	J
117-84-0	Di-n-octylphthalate	370	U
205-99-2	Benzo(b)fluoranthene	1100	
207-08-9	Benzo(k)fluoranthene	500	
50-32-8	Benzo(a)pyrene	820	
193-39-5	Indeno(1,2,3-cd)pyrene	510	
53-70-3	Dibenzo(a,h)anthracene	160	J
191-24-2	Benzo(g,h,i)perylene	570	

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-05 (0-7)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-05A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2645.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/10/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/18/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	8.474	490	J
02	3892-00-0	Pentadecane, 2,6,10-trimethy	11.273	330	NJ
03	1921-70-6	Pentadecane, 2,6,10,14-tetra	11.578	1300	NJ
04		Unknown-02	12.027	300	J
05	638-36-8	Hexadecane, 2,6,10,14-tetram	12.059	1100	NJ
06		Unknown-03	12.187	230	J
07		Unknown-04	12.395	320	J
08	610-48-0	Anthracene, 1-methyl-	12.582	240	NJ
09	544-63-8	Tetradecanoic acid	12.662	380	NJ
10	629-78-7	Heptadecane	12.812	210	NJ
11	5737-13-3	Cyclopenta(def)phenanthrenon	13.159	310	NJ
12	301-02-0	9-Octadecenamide, (Z)-	14.003	940	NJ
13	25187-19-3	Quinoxaline, 6-chloro-2-phen	14.911	180	NJ
14	112-84-5	13-Docosenamide, (Z)-	15.136	450	NJ
15		Unknown-05	15.435	220	J
16	198-55-0	Perylene	15.627	560	NJ
17	000214-20-7	Stigmasterol, 22,23-dihydro-	17.353	930	NJ
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-05 (0-7)RX

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-05ARE

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2673.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/19/2008

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	370	U
111-44-4	Bis(2-chloroethyl)ether	370	U
95-57-8	2-Chlorophenol	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
95-48-7	2-Methylphenol	370	U
108-60-1	2,2'-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-di-n-propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
111-91-1	Bis(2-chloroethoxy)methane	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	750	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	750	U
131-11-3	Dimethylphthalate	370	U
208-96-8	Acenaphthylene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
99-09-2	3-Nitroaniline	750	U
83-32-9	Acenaphthene	100	J
51-28-5	2,4-Dinitrophenol	750	U
100-02-7	4-Nitrophenol	750	U
132-64-9	Dibenzofuran	370	U
121-14-2	2,4-Dinitrotoluene	370	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-05 (0-7)RX

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-05ARE

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2673.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
86-73-7	Fluorene	120	J
100-01-6	4-Nitroaniline	750	U
534-52-1	4,6-Dinitro-2-methylphenol	750	U
86-30-6	N-Nitrosodiphenylamine	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	750	U
85-01-8	Phenanthrene	1500	
120-12-7	Anthracene	350	J
86-74-8	Carbazole	180	J
84-74-2	Di-n-butylphthalate	370	U
206-44-0	Fluoranthene	2200	
129-00-0	Pyrene	1700	
85-68-7	Butylbenzylphthalate	370	U
91-94-1	3,3´-Dichlorobenzidine	370	U
56-55-3	Benzo(a)anthracene	1100	
218-01-9	Chrysene	960	
117-81-7	Bis(2-ethylhexyl)phthalate	390	
117-84-0	Di-n-octylphthalate	370	U
205-99-2	Benzo(b)fluoranthene	1200	
207-08-9	Benzo(k)fluoranthene	590	
50-32-8	Benzo(a)pyrene	910	
193-39-5	Indeno(1,2,3-cd)pyrene	560	
53-70-3	Dibenzo(a,h)anthracene	180	J
191-24-2	Benzo(g,h,i)perylene	640	

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-05 (0-7)RX

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-05ARE

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2673.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	8.004	350	J
02		Unknown-02	8.442	300	J
03	143-07-7	Dodecanoic acid	10.696	290	NJ
04		Unknown-03	11.241	1200	J
05	75163-97-2	Octadecane, 2,6-dimethyl-	11.540	700	NJ
06	638-36-8	Hexadecane, 2,6,10,14-tetram	12.026	540	NJ
07		Unknown-04	12.154	450	J
08	779-02-2	Anthracene, 9-methyl-	12.576	260	NJ
09	5737-13-3	Cyclopenta(def)phenanthrenon	13.132	340	NJ
10	150-86-7	Phytol	13.175	470	NJ
11		Unknown-05	15.109	440	J
12		Unknown-06	15.199	640	J
13		Unknown-07	15.413	320	J
14	192-97-2	Benzo[e]pyrene	15.440	590	NJ
15	198-55-0	Perylene	15.600	570	NJ
16		Unknown-08	16.124	1300	J
17		Unknown-09	16.989	920	J
18	83-47-6	.gamma.-Sitosterol	17.294	1300	NJ
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-06 (0-5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-06A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2649.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9.0 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/10/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/18/2008

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	360	U
111-44-4	Bis(2-chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2´-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	77	J
106-47-8	4-Chloroaniline	360	U
111-91-1	Bis(2-chloroethoxy)methane	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	730	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	730	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	730	U
83-32-9	Acenaphthene	200	J
51-28-5	2,4-Dinitrophenol	730	U
100-02-7	4-Nitrophenol	730	U
132-64-9	Dibenzofuran	120	J
121-14-2	2,4-Dinitrotoluene	360	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-06 (0-5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-06A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2649.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9.0 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/10/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/18/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	210	J
100-01-6	4-Nitroaniline	730	U
534-52-1	4,6-Dinitro-2-methylphenol	730	U
86-30-6	N-Nitrosodiphenylamine	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	730	U
85-01-8	Phenanthrene	2100	
120-12-7	Anthracene	500	
86-74-8	Carbazole	360	J
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	2700	
129-00-0	Pyrene	2200	
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	1200	
218-01-9	Chrysene	1200	
117-81-7	Bis(2-ethylhexyl)phthalate	150	J
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	1400	
207-08-9	Benzo(k)fluoranthene	740	
50-32-8	Benzo(a)pyrene	1100	
193-39-5	Indeno(1,2,3-cd)pyrene	660	
53-70-3	Dibenzo(a,h)anthracene	200	J
191-24-2	Benzo(g,h,i)perylene	750	

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1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-06 (0-5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-06A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2649.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9.0 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/10/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/18/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	12.581	230	J
02	2531-84-2	Phenanthrene, 2-methyl-	12.607	350	NJ
03	57-10-3	n-Hexadecanoic acid	12.661	280	NJ
04	84-65-1	9,10-Anthracenedione	12.880	240	NJ
05	33543-31-6	Fluoranthene, 2-methyl-	13.724	170	NJ
06	301-02-0	9-Octadecenamide, (Z)-	13.996	670	NJ
07	112-84-5	13-Docosenamide, (Z)-	15.150	450	NJ
08	629-97-0	Docosane	15.449	240	NJ
09	192-97-2	Benzo[e]pyrene	15.481	180	NJ
10	192-97-2	Benzo[e]pyrene	15.647	760	NJ
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-06 (0-5)RX

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-06ARE

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2674.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9.0 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/19/2008

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	360	U
111-44-4	Bis(2-chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2´-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
111-91-1	Bis(2-chloroethoxy)methane	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	720	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	720	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	170	J
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	720	U
83-32-9	Acenaphthene	300	J
51-28-5	2,4-Dinitrophenol	720	U
100-02-7	4-Nitrophenol	720	U
132-64-9	Dibenzofuran	170	J
121-14-2	2,4-Dinitrotoluene	360	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-06 (0-5)RX

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-06ARE

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2674.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9.0 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	340	J
100-01-6	4-Nitroaniline	720	U
534-52-1	4,6-Dinitro-2-methylphenol	720	U
86-30-6	N-Nitrosodiphenylamine	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	720	U
85-01-8	Phenanthrene	3700	
120-12-7	Anthracene	1100	
86-74-8	Carbazole	500	
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	5400	
129-00-0	Pyrene	4500	
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	3100	
218-01-9	Chrysene	2800	
117-81-7	Bis(2-ethylhexyl)phthalate	150	J
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	3800	
207-08-9	Benzo(k)fluoranthene	1500	
50-32-8	Benzo(a)pyrene	2700	
193-39-5	Indeno(1,2,3-cd)pyrene	1600	
53-70-3	Dibenzo(a,h)anthracene	540	
191-24-2	Benzo(g,h,i)perylene	1800	

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-06 (0-5)RX

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-06ARE

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2674.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9.0 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	8.007	480	J
02	634-93-5	Benzenamine, 2,4,6-trichloro	9.529	440	NJ
03	2505-31-9	2,4,6-Trichlorophenyl isocya	9.668	480	NJ
04		Unknown-02	11.244	680	J
05	2531-84-2	Phenanthrene, 2-methyl-	12.547	440	NJ
06	2531-84-2	Phenanthrene, 2-methyl-	12.574	550	NJ
07	203-64-5	4H-Cyclopenta[def]phenanthre	12.649	1000	NJ
08	5737-13-3	Cyclopenta(def)phenanthrenon	13.135	390	NJ
09	2381-21-7	Pyrene, 1-methyl-	13.600	150	NJ
10	238-84-6	11H-Benzo[a]fluorene	13.691	200	NJ
11	2381-21-7	Pyrene, 1-methyl-	13.782	160	NJ
12	479-79-8	11H-Benzo[a]fluoren-11-one	14.134	180	NJ
13		Unknown-03	14.225	150	J
14		Unknown-04	14.273	160	J
15	479-79-8	11H-Benzo[a]fluoren-11-one	14.310	180	NJ
16		Unknown-05	15.197	500	J
17	205-82-3	Benzo[j]fluoranthene	15.438	470	NJ
18	198-55-0	Perylene	15.603	2000	NJ
19		Unknown-06	16.121	920	J
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-08 (0.5-1)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-07A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2646.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7.0 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/10/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/18/2008

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	350	U
111-44-4	Bis(2-chloroethyl)ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2´-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
111-91-1	Bis(2-chloroethoxy)methane	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	710	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	710	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
99-09-2	3-Nitroaniline	710	U
83-32-9	Acenaphthene	350	U
51-28-5	2,4-Dinitrophenol	710	U
100-02-7	4-Nitrophenol	710	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-08 (0.5-1)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-07A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2646.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7.0 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/10/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/18/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U
100-01-6	4-Nitroaniline	710	U
534-52-1	4,6-Dinitro-2-methylphenol	710	U
86-30-6	N-Nitrosodiphenylamine	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	710	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
86-74-8	Carbazole	350	U
84-74-2	Di-n-butylphthalate	350	U
206-44-0	Fluoranthene	120	J
129-00-0	Pyrene	110	J
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3´-Dichlorobenzidine	350	U
56-55-3	Benzo(a)anthracene	350	U
218-01-9	Chrysene	350	U
117-81-7	Bis(2-ethylhexyl)phthalate	350	U
117-84-0	Di-n-octylphthalate	350	U
205-99-2	Benzo(b)fluoranthene	350	U
207-08-9	Benzo(k)fluoranthene	350	U
50-32-8	Benzo(a)pyrene	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
53-70-3	Dibenzo(a,h)anthracene	350	U
191-24-2	Benzo(g,h,i)perylene	350	U

SW846

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SI-SB-08 (0.5-1)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-07A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2646.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7.0 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/10/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/18/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	98-82-8	Benzene, (1-methylethyl)-	3.989	160	NJ
02	92-61-5	7-Hydroxy-6-methoxy-2H-1-ben	12.751	270	NJ
03	301-02-0	9-Octadecenamide, (Z)-	14.006	1200	NJ
04	297-03-0	Cyclotetracosane	14.919	190	NJ
05	112-84-5	13-Docosenamide, (Z)-	15.138	420	NJ
06	629-92-5	Nonadecane	15.443	270	NJ
07	83-46-5	.beta.-Sitosterol	17.366	710	NJ
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-08
(0.5-1)RX

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-07ARE

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2675.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7.0 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/19/2008

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	350	U
111-44-4	Bis(2-chloroethyl)ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2´-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
111-91-1	Bis(2-chloroethoxy)methane	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	720	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	720	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
99-09-2	3-Nitroaniline	720	U
83-32-9	Acenaphthene	350	U
51-28-5	2,4-Dinitrophenol	720	U
100-02-7	4-Nitrophenol	720	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-08
(0.5-1)RX

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-07ARE

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2675.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7.0 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U
100-01-6	4-Nitroaniline	720	U
534-52-1	4,6-Dinitro-2-methylphenol	720	U
86-30-6	N-Nitrosodiphenylamine	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	720	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
86-74-8	Carbazole	350	U
84-74-2	Di-n-butylphthalate	350	U
206-44-0	Fluoranthene	120	J
129-00-0	Pyrene	100	J
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3´-Dichlorobenzidine	350	U
56-55-3	Benzo(a)anthracene	350	U
218-01-9	Chrysene	350	U
117-81-7	Bis(2-ethylhexyl)phthalate	140	J
117-84-0	Di-n-octylphthalate	350	U
205-99-2	Benzo(b)fluoranthene	98	J
207-08-9	Benzo(k)fluoranthene	350	U
50-32-8	Benzo(a)pyrene	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
53-70-3	Dibenzo(a,h)anthracene	350	U
191-24-2	Benzo(g,h,i)perylene	350	U

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1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-08
(0.5-1)RX

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-07ARE

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2675.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7.0 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	6.356	390	J
02	32780-06-6	(S)-(+)-2',3'-Dideoxyribonol	6.767	210	NJ
03		Unknown-02	8.017	470	J
04		Unknown-03	8.364	150	J
05	2035-75-8	2,7-Oxepanedione	8.578	150	NJ
06		Unknown-04	10.378	160	J
07	143-07-7	Dodecanoic acid	10.704	380	NJ
08		Unknown-05	11.249	680	J
09		Unknown-06	16.116	730	J
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-09 (4-9)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-08A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2647.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9.0 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/10/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/18/2008

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	360	U
111-44-4	Bis(2-chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2´-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
111-91-1	Bis(2-chloroethoxy)methane	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	720	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	720	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	720	U
83-32-9	Acenaphthene	360	U
51-28-5	2,4-Dinitrophenol	720	U
100-02-7	4-Nitrophenol	720	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-09 (4-9)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-08A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2647.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9.0 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/10/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/18/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	720	U
534-52-1	4,6-Dinitro-2-methylphenol	720	U
86-30-6	N-Nitrosodiphenylamine	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	720	U
85-01-8	Phenanthrene	160	J
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	300	J
129-00-0	Pyrene	260	J
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	140	J
218-01-9	Chrysene	170	J
117-81-7	Bis(2-ethylhexyl)phthalate	620	
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	210	J
207-08-9	Benzo(k)fluoranthene	360	U
50-32-8	Benzo(a)pyrene	140	J
193-39-5	Indeno(1,2,3-cd)pyrene	360	U
53-70-3	Dibenzo(a,h)anthracene	360	U
191-24-2	Benzo(g,h,i)perylene	110	J

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-09 (4-9)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-08A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2647.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9.0 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/10/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/18/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	98-82-8	Benzene, (1-methylethyl)-	3.990	210	NJ
02	301-02-0	9-Octadecenamide, (Z)-	13.996	2100	NJ
03	112-84-5	13-Docosenamide, (Z)-	15.139	510	NJ
04	630-03-5	Nonacosane	15.438	150	NJ
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-09 (4-9)RX

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-08ARE

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2676.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9.0 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/19/2008

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	360	U
111-44-4	Bis(2-chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2´-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
111-91-1	Bis(2-chloroethoxy)methane	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	720	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	720	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	720	U
83-32-9	Acenaphthene	360	U
51-28-5	2,4-Dinitrophenol	720	U
100-02-7	4-Nitrophenol	720	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-09 (4-9)RX

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-08ARE

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2676.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9.0 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	720	U
534-52-1	4,6-Dinitro-2-methylphenol	720	U
86-30-6	N-Nitrosodiphenylamine	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	720	U
85-01-8	Phenanthrene	150	J
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	300	J
129-00-0	Pyrene	250	J
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3´-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	140	J
218-01-9	Chrysene	170	J
117-81-7	Bis(2-ethylhexyl)phthalate	560	
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	210	J
207-08-9	Benzo(k)fluoranthene	360	U
50-32-8	Benzo(a)pyrene	140	J
193-39-5	Indeno(1,2,3-cd)pyrene	98	J
53-70-3	Dibenzo(a,h)anthracene	360	U
191-24-2	Benzo(g,h,i)perylene	120	J

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-09 (4-9)RX

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-08ARE

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2676.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9.0 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	620-14-4	Benzene, 1-ethyl-3-methyl-	4.300	190	NJ
02	526-73-8	Benzene, 1,2,3-trimethyl-	4.636	470	NJ
03		Unknown-01	4.925	150	J
04	535-77-3	Benzene, 1-methyl-3-(1-methy	4.946	170	NJ
05	933-98-2	Benzene, 1-ethyl-2,3-dimethy	5.277	150	NJ
06		Unknown-02	5.384	150	J
07	1120-21-4	Undecane	5.710	410	NJ
08		Unknown-03	6.346	300	J
09	000194-17-0	5-Hydroxymethyldihydrofuran-	6.762	150	NJ
10	000157-89-9	p-menth-1-en-8-ol	6.917	160	NJ
11		Unknown-04	8.012	310	J
12	143-07-7	Dodecanoic acid	10.705	340	NJ
13		Unknown-05	11.244	620	J
14	301-02-0	9-Octadecenamide, (Z)-	13.964	330	NJ
15		Unknown-06	16.122	740	J
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-10 (1-5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-09A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2648.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8.0 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/10/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/18/2008

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	350	U
111-44-4	Bis(2-chloroethyl)ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2´-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
111-91-1	Bis(2-chloroethoxy)methane	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	720	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	720	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
99-09-2	3-Nitroaniline	720	U
83-32-9	Acenaphthene	350	U
51-28-5	2,4-Dinitrophenol	720	U
100-02-7	4-Nitrophenol	720	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-10 (1-5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-09A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2648.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8.0 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/10/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/18/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U
100-01-6	4-Nitroaniline	720	U
534-52-1	4,6-Dinitro-2-methylphenol	720	U
86-30-6	N-Nitrosodiphenylamine	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	720	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
86-74-8	Carbazole	350	U
84-74-2	Di-n-butylphthalate	350	U
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3´-Dichlorobenzidine	350	U
56-55-3	Benzo(a)anthracene	350	U
218-01-9	Chrysene	350	U
117-81-7	Bis(2-ethylhexyl)phthalate	350	U
117-84-0	Di-n-octylphthalate	350	U
205-99-2	Benzo(b)fluoranthene	350	U
207-08-9	Benzo(k)fluoranthene	350	U
50-32-8	Benzo(a)pyrene	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
53-70-3	Dibenzo(a,h)anthracene	350	U
191-24-2	Benzo(g,h,i)perylene	350	U

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-10 (1-5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-09A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2648.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8.0 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/10/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/18/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	301-02-0	9-Octadecenamide, (Z)-	13.991	670	NJ
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-10 (1-5)RX

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-09ARE

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2677.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8.0 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/19/2008

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	350	U
111-44-4	Bis(2-chloroethyl)ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2´-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
111-91-1	Bis(2-chloroethoxy)methane	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	720	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	720	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
99-09-2	3-Nitroaniline	720	U
83-32-9	Acenaphthene	350	U
51-28-5	2,4-Dinitrophenol	720	U
100-02-7	4-Nitrophenol	720	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-10 (1-5)RX

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-09ARE

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2677.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8.0 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U
100-01-6	4-Nitroaniline	720	U
534-52-1	4,6-Dinitro-2-methylphenol	720	U
86-30-6	N-Nitrosodiphenylamine	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	720	U
85-01-8	Phenanthrene	120	J
120-12-7	Anthracene	350	U
86-74-8	Carbazole	350	U
84-74-2	Di-n-butylphthalate	350	U
206-44-0	Fluoranthene	180	J
129-00-0	Pyrene	150	J
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3'-Dichlorobenzidine	350	U
56-55-3	Benzo(a)anthracene	350	U
218-01-9	Chrysene	110	J
117-81-7	Bis(2-ethylhexyl)phthalate	350	U
117-84-0	Di-n-octylphthalate	350	U
205-99-2	Benzo(b)fluoranthene	130	J
207-08-9	Benzo(k)fluoranthene	350	U
50-32-8	Benzo(a)pyrene	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
53-70-3	Dibenzo(a,h)anthracene	350	U
191-24-2	Benzo(g,h,i)perylene	350	U

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-10 (1-5)RX

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-09ARE

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2677.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8.0 Decanted: (Y/N) N Date Received: 09/04/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	5469-16-9	2(3H)-Furanone, dihydro-4-hy	6.352	330	NJ
02		Unknown-01	6.763	160	J
03		Unknown-02	8.008	230	J
04	143-07-7	Dodecanoic acid	10.700	190	NJ
05		Unknown-03	11.245	310	J
06	57-10-3	n-Hexadecanoic acid	12.634	160	NJ
07	301-02-0	9-Octadecenamide, (Z)-	13.964	430	NJ
08	112-84-5	13-Docosenamide, (Z)-	15.107	150	NJ
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-11(26-32)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-10A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3F2678.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 31 Decanted: (Y/N) N Date Received: 09/06/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/19/2008

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	480	U
111-44-4	Bis(2-chloroethyl)ether	480	U
95-57-8	2-Chlorophenol	480	U
541-73-1	1,3-Dichlorobenzene	480	U
106-46-7	1,4-Dichlorobenzene	480	U
95-50-1	1,2-Dichlorobenzene	480	U
95-48-7	2-Methylphenol	480	U
108-60-1	2,2´-oxybis(1-Chloropropane)	480	U
106-44-5	4-Methylphenol	480	U
621-64-7	N-Nitroso-di-n-propylamine	480	U
67-72-1	Hexachloroethane	480	U
98-95-3	Nitrobenzene	480	U
78-59-1	Isophorone	480	U
88-75-5	2-Nitrophenol	480	U
105-67-9	2,4-Dimethylphenol	480	U
120-83-2	2,4-Dichlorophenol	480	U
120-82-1	1,2,4-Trichlorobenzene	480	U
91-20-3	Naphthalene	250	J
106-47-8	4-Chloroaniline	480	U
111-91-1	Bis(2-chloroethoxy)methane	480	U
87-68-3	Hexachlorobutadiene	480	U
59-50-7	4-Chloro-3-methylphenol	480	U
91-57-6	2-Methylnaphthalene	480	U
77-47-4	Hexachlorocyclopentadiene	480	U
88-06-2	2,4,6-Trichlorophenol	480	U
95-95-4	2,4,5-Trichlorophenol	970	U
91-58-7	2-Chloronaphthalene	480	U
88-74-4	2-Nitroaniline	970	U
131-11-3	Dimethylphthalate	480	U
208-96-8	Acenaphthylene	330	J
606-20-2	2,6-Dinitrotoluene	480	U
99-09-2	3-Nitroaniline	970	U
83-32-9	Acenaphthene	830	
51-28-5	2,4-Dinitrophenol	970	U
100-02-7	4-Nitrophenol	970	U
132-64-9	Dibenzofuran	180	J
121-14-2	2,4-Dinitrotoluene	480	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-11(26-32)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-10A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3F2678.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 31 Decanted: (Y/N) N Date Received: 09/06/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	480	U
7005-72-3	4-Chlorophenyl-phenylether	480	U
86-73-7	Fluorene	740	
100-01-6	4-Nitroaniline	970	U
534-52-1	4,6-Dinitro-2-methylphenol	970	U
86-30-6	N-Nitrosodiphenylamine	480	U
101-55-3	4-Bromophenyl-phenylether	480	U
118-74-1	Hexachlorobenzene	480	U
87-86-5	Pentachlorophenol	970	U
85-01-8	Phenanthrene	2000	
120-12-7	Anthracene	150	J
86-74-8	Carbazole	480	U
84-74-2	Di-n-butylphthalate	480	U
206-44-0	Fluoranthene	190	J
129-00-0	Pyrene	190	J
85-68-7	Butylbenzylphthalate	480	U
91-94-1	3,3´-Dichlorobenzidine	480	U
56-55-3	Benzo(a)anthracene	480	U
218-01-9	Chrysene	480	U
117-81-7	Bis(2-ethylhexyl)phthalate	480	U
117-84-0	Di-n-octylphthalate	480	U
205-99-2	Benzo(b)fluoranthene	480	U
207-08-9	Benzo(k)fluoranthene	480	U
50-32-8	Benzo(a)pyrene	480	U
193-39-5	Indeno(1,2,3-cd)pyrene	480	U
53-70-3	Dibenzo(a,h)anthracene	480	U
191-24-2	Benzo(g,h,i)perylene	480	U

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-11(26-32)

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM Case No.:
Mod. Ref No.: SDG No.: MG1462
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1462-10A
Sample wt/vol: 30.0 (g/mL) G
Lab File ID: S3F2678.D
Level: (TRACE or LOW/MED) LOW
Extraction: (Type) SONC
% Moisture: 31 Decanted: (Y/N) N
Date Received: 09/06/2008
Concentrated Extract Volume: 1000 (uL)
Date Extracted: 09/18/2008
Injection Volume: 1.0 (uL) GPC Factor: 1.00
Date Analyzed: 09/19/2008
GPC Cleanup: (Y/N) N pH:
Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	767-59-9	1H-Indene, 1-methyl-	6.394	310	NJ
02	90-12-0	Naphthalene, 1-methyl-	8.445	1200	NJ
03	92-52-4	Biphenyl	9.252	630	NJ
04	1127-76-0	Naphthalene, 1-ethyl-	9.450	300	NJ
05	581-40-8	Naphthalene, 2,3-dimethyl-	9.690	1100	NJ
06	571-58-4	Naphthalene, 1,4-dimethyl-	9.882	430	NJ
07	571-61-9	Naphthalene, 1,5-dimethyl-	9.904	260	NJ
08	575-41-7	Naphthalene, 1,3-dimethyl-	10.011	480	NJ
09	644-08-6	1,1'-Biphenyl, 4-methyl-	10.331	330	NJ
10	2131-42-2	Naphthalene, 1,4,6-trimethyl	10.411	270	NJ
11		Unknown-01	10.555	680	J
12	2245-38-7	Naphthalene, 1,6,7-trimethyl	10.609	390	NJ
13	143-07-7	Dodecanoic acid	10.700	620	NJ
14		Unknown-02	10.951	320	J
15		Unknown-03	11.058	340	J
16		Unknown-04	11.100	280	J
17		Unknown-05	11.245	510	J
18	132-65-0	Dibenzothiophene	11.939	320	NJ
19		Unknown-06	12.655	380	J
20	297-03-0	Cyclotetracosane	14.872	300	NJ
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-12 (16-20)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-11A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3F2693.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 09/06/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/22/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	780	U
111-44-4	Bis(2-chloroethyl)ether	780	U
95-57-8	2-Chlorophenol	780	U
541-73-1	1,3-Dichlorobenzene	780	U
106-46-7	1,4-Dichlorobenzene	780	U
95-50-1	1,2-Dichlorobenzene	780	U
95-48-7	2-Methylphenol	780	U
108-60-1	2,2´-oxybis(1-Chloropropane)	780	U
106-44-5	4-Methylphenol	780	U
621-64-7	N-Nitroso-di-n-propylamine	780	U
67-72-1	Hexachloroethane	780	U
98-95-3	Nitrobenzene	780	U
78-59-1	Isophorone	780	U
88-75-5	2-Nitrophenol	780	U
105-67-9	2,4-Dimethylphenol	780	U
120-83-2	2,4-Dichlorophenol	780	U
120-82-1	1,2,4-Trichlorobenzene	780	U
91-20-3	Naphthalene	780	U
106-47-8	4-Chloroaniline	780	U
111-91-1	Bis(2-chloroethoxy)methane	780	U
87-68-3	Hexachlorobutadiene	780	U
59-50-7	4-Chloro-3-methylphenol	780	U
91-57-6	2-Methylnaphthalene	780	U
77-47-4	Hexachlorocyclopentadiene	780	U
88-06-2	2,4,6-Trichlorophenol	780	U
95-95-4	2,4,5-Trichlorophenol	1600	U
91-58-7	2-Chloronaphthalene	780	U
88-74-4	2-Nitroaniline	1600	U
131-11-3	Dimethylphthalate	780	U
208-96-8	Acenaphthylene	780	U
606-20-2	2,6-Dinitrotoluene	780	U
99-09-2	3-Nitroaniline	1600	U
83-32-9	Acenaphthene	780	U
51-28-5	2,4-Dinitrophenol	1600	U
100-02-7	4-Nitrophenol	1600	U
132-64-9	Dibenzofuran	780	U
121-14-2	2,4-Dinitrotoluene	780	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-12 (16-20)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-11A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3F2693.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 09/06/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/22/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	780	U
7005-72-3	4-Chlorophenyl-phenylether	780	U
86-73-7	Fluorene	780	U
100-01-6	4-Nitroaniline	1600	U
534-52-1	4,6-Dinitro-2-methylphenol	1600	U
86-30-6	N-Nitrosodiphenylamine	780	U
101-55-3	4-Bromophenyl-phenylether	780	U
118-74-1	Hexachlorobenzene	780	U
87-86-5	Pentachlorophenol	1600	U
85-01-8	Phenanthrene	2200	
120-12-7	Anthracene	390	J
86-74-8	Carbazole	360	J
84-74-2	Di-n-butylphthalate	780	U
206-44-0	Fluoranthene	6500	
129-00-0	Pyrene	5500	
85-68-7	Butylbenzylphthalate	780	U
91-94-1	3,3'-Dichlorobenzidine	780	U
56-55-3	Benzo(a)anthracene	6100	
218-01-9	Chrysene	7400	
117-81-7	Bis(2-ethylhexyl)phthalate	780	U
117-84-0	Di-n-octylphthalate	780	U
205-99-2	Benzo(b)fluoranthene	12000	
207-08-9	Benzo(k)fluoranthene	3800	
50-32-8	Benzo(a)pyrene	7400	
193-39-5	Indeno(1,2,3-cd)pyrene	6100	
53-70-3	Dibenzo(a,h)anthracene	2800	
191-24-2	Benzo(g,h,i)perylene	7100	

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-12 (16-20)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-11A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3F2693.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 09/06/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/22/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 2.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	243-17-4	11H-Benzo[b]fluorene	13.663	510	NJ
02	239-35-0	Benzo[b]naphtho[2,1-d]thioph	14.198	440	NJ
03	1705-84-6	Triphenylene, 2-methyl-	14.759	630	NJ
04		Unknown-01	14.844	390	J
05	109292-58-2	4,5,11,12-Tetrahydrobenzo[a]	15.095	570	NJ
06		Unknown-02	15.191	850	J
07	192-97-2	Benzo[e]pyrene	15.416	880	NJ
08		Unknown-03	15.485	1200	J
09	198-55-0	Perylene	15.581	6800	NJ
10	198-55-0	Perylene	15.704	2700	NJ
11		Unknown-04	15.934	550	J
12		Unknown-05	16.682	1200	J
13	215-58-7	Benzo[b]triphenylene	16.954	1600	NJ
14	213-46-7	1,2:7,8-Dibenzophenanthrene	17.002	3100	NJ
15	83-47-6	.gamma.-Sitosterol	17.248	2700	NJ
16	191-26-4	Dibenzo[def,mno]chrysene	17.339	2000	NJ
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-13 (17-19)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-12A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3F2680.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 09/06/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/19/2008

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	390	U
111-44-4	Bis(2-chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	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
95-48-7	2-Methylphenol	390	U
108-60-1	2,2´-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	490	
106-47-8	4-Chloroaniline	390	U
111-91-1	Bis(2-chloroethoxy)methane	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	150	J
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	790	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	790	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	790	U
83-32-9	Acenaphthene	330	J
51-28-5	2,4-Dinitrophenol	790	U
100-02-7	4-Nitrophenol	790	U
132-64-9	Dibenzofuran	240	J
121-14-2	2,4-Dinitrotoluene	390	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-13 (17-19)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-12A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3F2680.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 09/06/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	350	J
100-01-6	4-Nitroaniline	790	U
534-52-1	4,6-Dinitro-2-methylphenol	790	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	790	U
85-01-8	Phenanthrene	2100	
120-12-7	Anthracene	550	
86-74-8	Carbazole	230	J
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	1700	
129-00-0	Pyrene	1500	
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3´-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	720	
218-01-9	Chrysene	710	
117-81-7	Bis(2-ethylhexyl)phthalate	340	J
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	810	
207-08-9	Benzo(k)fluoranthene	320	J
50-32-8	Benzo(a)pyrene	640	
193-39-5	Indeno(1,2,3-cd)pyrene	340	J
53-70-3	Dibenzo(a,h)anthracene	120	J
191-24-2	Benzo(g,h,i)perylene	390	

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-13 (17-19)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-12A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3F2680.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 09/06/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	54676-39-0	Cyclohexane, 2-butyl-1,1,3-t	7.259	870	NJ
02		Unknown-01	7.740	760	J
03		Unknown-02	9.017	1100	J
04	80655-44-3	Decahydro-4,4,8,9,10-pentame	9.204	720	NJ
05		Unknown-03	9.775	3900	J
06		Unknown-04	10.032	1100	J
07		Unknown-05	10.112	3600	J
08		Unknown-06	10.732	1900	J
09		Unknown-07	10.822	1000	J
10	829-26-5	Naphthalene, 2,3,6-trimethyl	10.854	930	NJ
11		Unknown-08	11.090	870	J
12	490-65-3	Naphthalene, 1-methyl-7-(1-m	11.239	880	NJ
13	529-05-5	Azulene, 7-ethyl-1,4-dimethy	11.362	1400	NJ
14	3031-15-0	Naphthalene, 1,2,3,4-tetrame	11.469	1000	NJ
15	3031-15-0	Naphthalene, 1,2,3,4-tetrame	11.554	1000	NJ
16	529-05-5	Azulene, 7-ethyl-1,4-dimethy	11.811	1200	NJ
17		Unknown-09	12.190	960	J
18		Unknown-10	12.660	1900	J
19	3674-66-6	Phenanthrene, 2,5-dimethyl-	13.082	810	NJ
20		Unknown-11	16.095	1600	J
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-14 (24-25)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-13A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3F2681.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 09/06/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/19/2008

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
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
95-50-1	1,2-Dichlorobenzene	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
120-82-1	1,2,4-Trichlorobenzene	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

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-14 (24-25)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-13A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3F2681.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 09/06/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
86-73-7	Fluorene	420	U
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	310	J
120-12-7	Anthracene	420	U
86-74-8	Carbazole	420	U
84-74-2	Di-n-butylphthalate	420	U
206-44-0	Fluoranthene	410	J
129-00-0	Pyrene	350	J
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3´-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	230	J
218-01-9	Chrysene	260	J
117-81-7	Bis(2-ethylhexyl)phthalate	420	U
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	380	J
207-08-9	Benzo(k)fluoranthene	140	J
50-32-8	Benzo(a)pyrene	260	J
193-39-5	Indeno(1,2,3-cd)pyrene	220	J
53-70-3	Dibenzo(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	270	J

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-14 (24-25)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-13A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3F2681.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 09/06/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	3.853	570	J
02		Unknown-02	6.348	340	J
03	103-82-2	Benzeneacetic acid	7.443	460	NJ
04		Unknown-03	7.999	210	J
05	2035-75-8	2,7-Oxepanedione	8.587	230	NJ
06	13798-23-7	Sulfur	10.558	370	NJ
07	143-07-7	Dodecanoic acid	10.702	290	NJ
08	57-10-3	n-Hexadecanoic acid	12.636	200	NJ
09		Unknown-04	13.069	640	J
10		Unknown-05	13.111	830	J
11		Unknown-06	13.240	260	J
12		Unknown-07	13.902	480	J
13		Unknown-08	13.966	490	J
14		Unknown-09	14.041	330	J
15	638-66-4	Octadecanal	14.142	210	NJ
16	74685-33-9	3-Eicosene, (E)-	14.324	390	NJ
17	297-03-0	Cyclotetracosane	14.869	760	NJ
18	24634-95-5	Ethyl tetracosanoate	15.104	260	NJ
19	000130-92-0	E-7-Octadecene	15.435	400	NJ
20	83-47-6	.gamma.-Sitosterol	17.294	910	NJ
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-16 (0-4)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-14A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3F2694.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7.0 Decanted: (Y/N) N Date Received: 09/06/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/22/2008

GPC Cleanup:(Y/N) N pH: Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	710	U
111-44-4	Bis(2-chloroethyl)ether	710	U
95-57-8	2-Chlorophenol	710	U
541-73-1	1,3-Dichlorobenzene	710	U
106-46-7	1,4-Dichlorobenzene	710	U
95-50-1	1,2-Dichlorobenzene	710	U
95-48-7	2-Methylphenol	710	U
108-60-1	2,2'-oxybis(1-Chloropropane)	710	U
106-44-5	4-Methylphenol	710	U
621-64-7	N-Nitroso-di-n-propylamine	710	U
67-72-1	Hexachloroethane	710	U
98-95-3	Nitrobenzene	710	U
78-59-1	Isophorone	710	U
88-75-5	2-Nitrophenol	710	U
105-67-9	2,4-Dimethylphenol	710	U
120-83-2	2,4-Dichlorophenol	710	U
120-82-1	1,2,4-Trichlorobenzene	710	U
91-20-3	Naphthalene	710	U
106-47-8	4-Chloroaniline	710	U
111-91-1	Bis(2-chloroethoxy)methane	710	U
87-68-3	Hexachlorobutadiene	710	U
59-50-7	4-Chloro-3-methylphenol	710	U
91-57-6	2-Methylnaphthalene	200	J
77-47-4	Hexachlorocyclopentadiene	710	U
88-06-2	2,4,6-Trichlorophenol	710	U
95-95-4	2,4,5-Trichlorophenol	1400	U
91-58-7	2-Chloronaphthalene	710	U
88-74-4	2-Nitroaniline	1400	U
131-11-3	Dimethylphthalate	710	U
208-96-8	Acenaphthylene	430	J
606-20-2	2,6-Dinitrotoluene	710	U
99-09-2	3-Nitroaniline	1400	U
83-32-9	Acenaphthene	190	J
51-28-5	2,4-Dinitrophenol	1400	U
100-02-7	4-Nitrophenol	1400	U
132-64-9	Dibenzofuran	190	J
121-14-2	2,4-Dinitrotoluene	710	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-16 (0-4)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-14A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3F2694.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7.0 Decanted: (Y/N) N Date Received: 09/06/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/22/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	710	U
7005-72-3	4-Chlorophenyl-phenylether	710	U
86-73-7	Fluorene	330	J
100-01-6	4-Nitroaniline	1400	U
534-52-1	4,6-Dinitro-2-methylphenol	1400	U
86-30-6	N-Nitrosodiphenylamine	710	U
101-55-3	4-Bromophenyl-phenylether	710	U
118-74-1	Hexachlorobenzene	710	U
87-86-5	Pentachlorophenol	1400	U
85-01-8	Phenanthrene	4800	
120-12-7	Anthracene	1100	
86-74-8	Carbazole	280	J
84-74-2	Di-n-butylphthalate	710	U
206-44-0	Fluoranthene	9600	
129-00-0	Pyrene	7600	
85-68-7	Butylbenzylphthalate	710	U
91-94-1	3,3´-Dichlorobenzidine	710	U
56-55-3	Benzo(a)anthracene	6100	
218-01-9	Chrysene	7100	
117-81-7	Bis(2-ethylhexyl)phthalate	710	U
117-84-0	Di-n-octylphthalate	710	U
205-99-2	Benzo(b)fluoranthene	6300	
207-08-9	Benzo(k)fluoranthene	2700	
50-32-8	Benzo(a)pyrene	5300	
193-39-5	Indeno(1,2,3-cd)pyrene	2600	
53-70-3	Dibenzo(a,h)anthracene	1300	
191-24-2	Benzo(g,h,i)perylene	3500	

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-16 (0-4)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-14A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3F2694.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7.0 Decanted: (Y/N) N Date Received: 09/06/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/22/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 2.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	2531-84-2	Phenanthrene, 2-methyl-	12.550	1300	NJ
02	203-64-5	4H-Cyclopenta[def]phenanthre	12.625	1300	NJ
03	2381-21-7	Pyrene, 1-methyl-	13.575	310	NJ
04	238-84-6	11H-Benzo[a]fluorene	13.666	490	NJ
05	33543-31-6	Fluoranthene, 2-methyl-	13.757	540	NJ
06	3353-12-6	Pyrene, 4-methyl-	13.832	400	NJ
07	479-79-8	11H-Benzo[a]fluoren-11-one	14.104	380	NJ
08	243-46-9	Benzo[b]naphtho[2,3-d]thioph	14.201	760	NJ
09	24360-63-2	Benzo[b]naphtho[2,3-d]thioph	14.494	430	NJ
10	1705-84-6	Triphenylene, 2-methyl-	14.756	1300	NJ
11	3351-28-8	Chrysene, 1-methyl-	14.788	550	NJ
12		Unknown-01	14.836	320	J
13		Unknown-02	15.050	3700	J
14	57-97-6	Benz[a]anthracene, 7,12-dime	15.098	1400	NJ
15	54986-63-9	Benzo[c]phenanthrene, 5,8-di	15.125	1600	NJ
16	848-62-4	Pregnan-20-one, (5.alpha.)-	15.493	2300	NJ
17	198-55-0	Perylene	15.579	4800	NJ
18	205-82-3	Benzo[j]fluoranthene	15.702	1900	NJ
19		Unknown-03	15.931	1500	J
20		Unknown-04	15.963	2200	J
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-17
(8-11.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-15A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3F2683.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 09/06/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/19/2008

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	370	U
111-44-4	Bis(2-chloroethyl)ether	370	U
95-57-8	2-Chlorophenol	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
95-48-7	2-Methylphenol	370	U
108-60-1	2,2´-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-di-n-propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	81	J
106-47-8	4-Chloroaniline	370	U
111-91-1	Bis(2-chloroethoxy)methane	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-57-6	2-Methylnaphthalene	73	J
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	740	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	740	U
131-11-3	Dimethylphthalate	370	U
208-96-8	Acenaphthylene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
99-09-2	3-Nitroaniline	740	U
83-32-9	Acenaphthene	370	U
51-28-5	2,4-Dinitrophenol	740	U
100-02-7	4-Nitrophenol	740	U
132-64-9	Dibenzofuran	370	U
121-14-2	2,4-Dinitrotoluene	370	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-17
(8-11.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-15A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3F2683.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 09/06/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
86-73-7	Fluorene	370	U
100-01-6	4-Nitroaniline	740	U
534-52-1	4,6-Dinitro-2-methylphenol	740	U
86-30-6	N-Nitrosodiphenylamine	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	740	U
85-01-8	Phenanthrene	850	
120-12-7	Anthracene	160	J
86-74-8	Carbazole	110	J
84-74-2	Di-n-butylphthalate	370	U
206-44-0	Fluoranthene	1100	
129-00-0	Pyrene	870	
85-68-7	Butylbenzylphthalate	370	U
91-94-1	3,3´-Dichlorobenzidine	370	U
56-55-3	Benzo(a)anthracene	510	
218-01-9	Chrysene	560	
117-81-7	Bis(2-ethylhexyl)phthalate	370	U
117-84-0	Di-n-octylphthalate	370	U
205-99-2	Benzo(b)fluoranthene	740	
207-08-9	Benzo(k)fluoranthene	240	J
50-32-8	Benzo(a)pyrene	500	
193-39-5	Indeno(1,2,3-cd)pyrene	320	J
53-70-3	Dibenzo(a,h)anthracene	110	J
191-24-2	Benzo(g,h,i)perylene	370	

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-17
(8-11.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-15A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3F2683.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 09/06/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	544-76-3	Hexadecane	10.971	300	NJ
02		Unknown-01	11.527	550	J
03	629-94-7	Heneicosane	11.997	710	NJ
04	629-92-5	Nonadecane	12.409	840	NJ
05	203-64-5	4H-Cyclopenta[def]phenanthre	12.654	270	NJ
06	112-95-8	Eicosane	12.782	910	NJ
07		Unknown-02	12.863	290	J
08		Unknown-03	13.119	2800	J
09	629-97-0	Docosane	13.450	210	NJ
10		Unknown-04	13.643	300	J
11	638-67-5	Tricosane	13.755	170	NJ
12		Unknown-05	13.883	1400	J
13	301-02-0	9-Octadecenamide, (Z)-	13.974	340	NJ
14	18956-15-5	2-Propen-1-one, 1-(2,6-dihyd	14.187	620	NJ
15		Unknown-06	14.588	240	J
16		Unknown-07	14.647	200	J
17	520-28-5	4H-1-Benzopyran-4-one, 5-hyd	14.748	520	NJ
18	629-92-5	Nonadecane	15.405	260	NJ
19	198-55-0	Perylene	15.603	340	NJ
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-18
(22.5-24.3)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-16A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3F2684.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 09/06/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/19/2008

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	390	U
111-44-4	Bis(2-chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	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
95-48-7	2-Methylphenol	390	U
108-60-1	2,2´-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
111-91-1	Bis(2-chloroethoxy)methane	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	800	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	800	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	800	U
83-32-9	Acenaphthene	390	U
51-28-5	2,4-Dinitrophenol	800	U
100-02-7	4-Nitrophenol	800	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-18
(22.5-24.3)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-16A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3F2684.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 09/06/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	800	U
534-52-1	4,6-Dinitro-2-methylphenol	800	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	800	U
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
86-74-8	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	390	U
129-00-0	Pyrene	390	U
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3´-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	390	U
218-01-9	Chrysene	390	U
117-81-7	Bis(2-ethylhexyl)phthalate	390	U
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	150	J
207-08-9	Benzo(k)fluoranthene	390	U
50-32-8	Benzo(a)pyrene	110	J
193-39-5	Indeno(1,2,3-cd)pyrene	390	U
53-70-3	Dibenzo(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	100	J

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-18
(22.5-24.3)

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1462
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1462-16A
Sample wt/vol: 30.0 (g/mL) G
Lab File ID: S3F2684.D
Level: (TRACE or LOW/MED) LOW
Extraction: (Type) SONC
% Moisture: 16
Decanted: (Y/N) N
Date Received: 09/06/2008
Concentrated Extract Volume: 1000 (uL)
Date Extracted: 09/18/2008
Injection Volume: 1.0 (uL)
GPC Factor: 1.00
Date Analyzed: 09/19/2008
GPC Cleanup: (Y/N) N
pH:
Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	6.348	310	J
02		Unknown-02	6.759	170	J
03		Unknown-03	7.977	180	J
04	143-07-7	Dodecanoic acid	10.702	260	NJ
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-19 (0-4)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-03A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2817.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7.0 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

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	350	U
111-44-4	Bis(2-chloroethyl)ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2'-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
111-91-1	Bis(2-chloroethoxy)methane	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-57-6	2-Methylnaphthalene	130	J
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	710	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	710	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	120	J
606-20-2	2,6-Dinitrotoluene	350	U
99-09-2	3-Nitroaniline	710	U
83-32-9	Acenaphthene	350	U
51-28-5	2,4-Dinitrophenol	710	U
100-02-7	4-Nitrophenol	710	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-19 (0-4)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-03A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2817.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7.0 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U
100-01-6	4-Nitroaniline	710	U
534-52-1	4,6-Dinitro-2-methylphenol	710	U
86-30-6	N-Nitrosodiphenylamine	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	710	U
85-01-8	Phenanthrene	640	
120-12-7	Anthracene	120	J
86-74-8	Carbazole	350	U
84-74-2	Di-n-butylphthalate	350	U
206-44-0	Fluoranthene	1200	
129-00-0	Pyrene	950	
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3´-Dichlorobenzidine	350	U
56-55-3	Benzo(a)anthracene	570	
218-01-9	Chrysene	660	
117-81-7	Bis(2-ethylhexyl)phthalate	350	U
117-84-0	Di-n-octylphthalate	350	U
205-99-2	Benzo(b)fluoranthene	910	
207-08-9	Benzo(k)fluoranthene	290	J
50-32-8	Benzo(a)pyrene	590	
193-39-5	Indeno(1,2,3-cd)pyrene	410	
53-70-3	Dibenzo(a,h)anthracene	130	J
191-24-2	Benzo(g,h,i)perylene	460	

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SI-SB-19 (0-4)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-03A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2817.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7.0 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	629-50-5	Tridecane	7.628	180	NJ
02	629-59-4	Tetradecane	8.862	290	NJ
03	629-62-9	Pentadecane	9.898	320	NJ
04	3892-00-0	Pentadecane, 2,6,10-trimethy	10.908	200	NJ
05		Unknown-01	11.207	360	J
06	1921-70-6	Pentadecane, 2,6,10,14-tetra	11.223	350	NJ
07	593-45-3	Octadecane	11.688	290	NJ
08	629-92-5	Nonadecane	12.105	240	NJ
09	2531-84-2	Phenanthrene, 2-methyl-	12.249	210	NJ
10		Unknown-02	12.324	150	J
11	112-95-8	Eicosane	12.484	180	NJ
12	629-94-7	Heneicosane	12.826	170	NJ
13	192-97-2	Benzo[e]pyrene	15.059	160	NJ
14	198-55-0	Perylene	15.198	420	NJ
15	629-94-7	Heneicosane	15.641	210	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-19 (10-15)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-01A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2835.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 25 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 4.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1700	U
111-44-4	Bis(2-chloroethyl)ether	1700	U
95-57-8	2-Chlorophenol	1700	U
541-73-1	1,3-Dichlorobenzene	1700	U
106-46-7	1,4-Dichlorobenzene	1700	U
95-50-1	1,2-Dichlorobenzene	1700	U
95-48-7	2-Methylphenol	1700	U
108-60-1	2,2´-oxybis(1-Chloropropane)	1700	U
106-44-5	4-Methylphenol	1700	U
621-64-7	N-Nitroso-di-n-propylamine	1700	U
67-72-1	Hexachloroethane	1700	U
98-95-3	Nitrobenzene	1700	U
78-59-1	Isophorone	1700	U
88-75-5	2-Nitrophenol	1700	U
105-67-9	2,4-Dimethylphenol	1700	U
120-83-2	2,4-Dichlorophenol	1700	U
120-82-1	1,2,4-Trichlorobenzene	1700	U
91-20-3	Naphthalene	2200	
106-47-8	4-Chloroaniline	1700	U
111-91-1	Bis(2-chloroethoxy)methane	1700	U
87-68-3	Hexachlorobutadiene	1700	U
59-50-7	4-Chloro-3-methylphenol	1700	U
91-57-6	2-Methylnaphthalene	17000	
77-47-4	Hexachlorocyclopentadiene	1700	U
88-06-2	2,4,6-Trichlorophenol	1700	U
95-95-4	2,4,5-Trichlorophenol	3500	U
91-58-7	2-Chloronaphthalene	1700	U
88-74-4	2-Nitroaniline	3500	U
131-11-3	Dimethylphthalate	1700	U
208-96-8	Acenaphthylene	1700	U
606-20-2	2,6-Dinitrotoluene	1700	U
99-09-2	3-Nitroaniline	3500	U
83-32-9	Acenaphthene	1600	J
51-28-5	2,4-Dinitrophenol	3500	U
100-02-7	4-Nitrophenol	3500	U
132-64-9	Dibenzofuran	880	J
121-14-2	2,4-Dinitrotoluene	1700	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-19 (10-15)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1522-01A

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: S3F2835.D

Level: (LOW/MED) LOW

Extraction: (Type) SONC

% Moisture: 25

Decanted: (Y/N) N

Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL)

Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL)

GPC Factor: 1.00

Date Analyzed: 09/26/2008

GPC Cleanup: (Y/N) N

pH:

Dilution Factor: 4.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	1700	U
7005-72-3	4-Chlorophenyl-phenylether	1700	U
86-73-7	Fluorene	2900	
100-01-6	4-Nitroaniline	3500	U
534-52-1	4,6-Dinitro-2-methylphenol	3500	U
86-30-6	N-Nitrosodiphenylamine	1700	U
101-55-3	4-Bromophenyl-phenylether	1700	U
118-74-1	Hexachlorobenzene	1700	U
87-86-5	Pentachlorophenol	3500	U
85-01-8	Phenanthrene	5600	
120-12-7	Anthracene	730	J
86-74-8	Carbazole	1700	U
84-74-2	Di-n-butylphthalate	1700	U
206-44-0	Fluoranthene	1300	J
129-00-0	Pyrene	1400	J
85-68-7	Butylbenzylphthalate	1700	U
91-94-1	3,3'-Dichlorobenzidine	1700	U
56-55-3	Benzo(a)anthracene	480	J
218-01-9	Chrysene	580	J
117-81-7	Bis(2-ethylhexyl)phthalate	1700	U
117-84-0	Di-n-octylphthalate	1700	U
205-99-2	Benzo(b)fluoranthene	670	J
207-08-9	Benzo(k)fluoranthene	1700	U
50-32-8	Benzo(a)pyrene	1700	U
193-39-5	Indeno(1,2,3-cd)pyrene	1700	U
53-70-3	Dibenzo(a,h)anthracene	1700	U
191-24-2	Benzo(g,h,i)perylene	1700	U

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SI-SB-19 (10-15)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-01A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2835.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 25 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 4.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	17301-23-4	Undecane, 2,6-dimethyl-	6.576	4600	NJ
02	26730-14-3	Tridecane, 7-methyl-	7.292	5200	NJ
03	90-12-0	Naphthalene, 1-methyl-	7.917	5800	NJ
04		Unknown-01	8.232	10000	J
05		Unknown-02	8.451	11000	J
06	3891-98-3	Dodecane, 2,6,10-trimethyl-	8.579	22000	NJ
07	1127-76-0	Naphthalene, 1-ethyl-	8.910	13000	NJ
08		Unknown-03	9.065	15000	J
09	581-40-8	Naphthalene, 2,3-dimethyl-	9.231	34000	NJ
10	573-98-8	Naphthalene, 1,2-dimethyl-	9.279	20000	NJ
11	638-36-8	Hexadecane, 2,6,10,14-tetram	9.551	19000	NJ
12	575-43-9	Naphthalene, 1,6-dimethyl-	9.589	10000	NJ
13	2027-17-0	Naphthalene, 2-(1-methylethy	10.032	21000	NJ
14	2245-38-7	Naphthalene, 1,6,7-trimethyl	10.187	15000	NJ
15	2245-38-7	Naphthalene, 1,6,7-trimethyl	10.241	17000	NJ
16	2245-38-7	Naphthalene, 1,6,7-trimethyl	10.347	15000	NJ
17	2245-38-7	Naphthalene, 1,6,7-trimethyl	10.385	17000	NJ
18		Unknown-04	10.705	11000	J
19	55045-11-9	Tridecane, 5-propyl-	10.924	4600	NJ
20	1921-70-6	Pentadecane, 2,6,10,14-tetra	11.234	9500	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-20
(15-16.7)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-02A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2844.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/27/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	3900	U
111-44-4	Bis(2-chloroethyl)ether	3900	U
95-57-8	2-Chlorophenol	3900	U
541-73-1	1,3-Dichlorobenzene	3900	U
106-46-7	1,4-Dichlorobenzene	3900	U
95-50-1	1,2-Dichlorobenzene	3900	U
95-48-7	2-Methylphenol	3900	U
108-60-1	2,2'-oxybis(1-Chloropropane)	3900	U
106-44-5	4-Methylphenol	3900	U
621-64-7	N-Nitroso-di-n-propylamine	3900	U
67-72-1	Hexachloroethane	3900	U
98-95-3	Nitrobenzene	3900	U
78-59-1	Isophorone	3900	U
88-75-5	2-Nitrophenol	3900	U
105-67-9	2,4-Dimethylphenol	3900	U
120-83-2	2,4-Dichlorophenol	3900	U
120-82-1	1,2,4-Trichlorobenzene	3900	U
91-20-3	Naphthalene	3900	U
106-47-8	4-Chloroaniline	3900	U
111-91-1	Bis(2-chloroethoxy)methane	3900	U
87-68-3	Hexachlorobutadiene	3900	U
59-50-7	4-Chloro-3-methylphenol	3900	U
91-57-6	2-Methylnaphthalene	44000	
77-47-4	Hexachlorocyclopentadiene	3900	U
88-06-2	2,4,6-Trichlorophenol	3900	U
95-95-4	2,4,5-Trichlorophenol	7800	U
91-58-7	2-Chloronaphthalene	3900	U
88-74-4	2-Nitroaniline	7800	U
131-11-3	Dimethylphthalate	3900	U
208-96-8	Acenaphthylene	3900	U
606-20-2	2,6-Dinitrotoluene	3900	U
99-09-2	3-Nitroaniline	7800	U
83-32-9	Acenaphthene	3300	J
51-28-5	2,4-Dinitrophenol	7800	U
100-02-7	4-Nitrophenol	7800	U
132-64-9	Dibenzofuran	2000	J
121-14-2	2,4-Dinitrotoluene	3900	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-20
(15-16.7)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-02A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2844.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/27/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	3900	U
7005-72-3	4-Chlorophenyl-phenylether	3900	U
86-73-7	Fluorene	5600	
100-01-6	4-Nitroaniline	7800	U
534-52-1	4,6-Dinitro-2-methylphenol	7800	U
86-30-6	N-Nitrosodiphenylamine	3900	U
101-55-3	4-Bromophenyl-phenylether	3900	U
118-74-1	Hexachlorobenzene	3900	U
87-86-5	Pentachlorophenol	7800	U
85-01-8	Phenanthrene	10000	
120-12-7	Anthracene	3900	U
86-74-8	Carbazole	3900	U
84-74-2	Di-n-butylphthalate	3900	U
206-44-0	Fluoranthene	3900	U
129-00-0	Pyrene	3900	U
85-68-7	Butylbenzylphthalate	3900	U
91-94-1	3,3´-Dichlorobenzidine	3900	U
56-55-3	Benzo(a)anthracene	3900	U
218-01-9	Chrysene	3900	U
117-81-7	Bis(2-ethylhexyl)phthalate	1200	J
117-84-0	Di-n-octylphthalate	3900	U
205-99-2	Benzo(b)fluoranthene	3900	U
207-08-9	Benzo(k)fluoranthene	3900	U
50-32-8	Benzo(a)pyrene	3900	U
193-39-5	Indeno(1,2,3-cd)pyrene	3900	U
53-70-3	Dibenzo(a,h)anthracene	3900	U
191-24-2	Benzo(g,h,i)perylene	3900	U

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SI-SB-20
(15-16.7)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-02A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2844.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/27/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 10.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	17301-23-4	Undecane, 2,6-dimethyl-	6.516	9600	NJ
02		Unknown-01	7.232	14000	J
03	90-12-0	Naphthalene, 1-methyl-	7.846	14000	NJ
04	5617-41-4	Heptylcyclohexane	8.167	26000	NJ
05	3891-98-3	Dodecane, 2,6,10-trimethyl-	8.514	45000	NJ
06	1127-76-0	Naphthalene, 1-ethyl-	8.845	32000	NJ
07		Unknown-02	8.995	41000	J
08	581-40-8	Naphthalene, 2,3-dimethyl-	9.160	91000	NJ
09	571-61-9	Naphthalene, 1,5-dimethyl-	9.214	53000	NJ
10		Unknown-03	9.240	23000	J
11	581-40-8	Naphthalene, 2,3-dimethyl-	9.379	27000	NJ
12		Unknown-04	9.497	46000	J
13	581-40-8	Naphthalene, 2,3-dimethyl-	9.529	24000	NJ
14	2131-42-2	Naphthalene, 1,4,6-trimethyl	9.978	43000	NJ
15	2245-38-7	Naphthalene, 1,6,7-trimethyl	10.133	35000	NJ
16	2245-38-7	Naphthalene, 1,6,7-trimethyl	10.191	38000	NJ
17	2245-38-7	Naphthalene, 1,6,7-trimethyl	10.298	26000	NJ
18	2245-38-7	Naphthalene, 1,6,7-trimethyl	10.336	39000	NJ
19		Unknown-05	10.661	34000	J
20	1921-70-6	Pentadecane, 2,6,10,14-tetra	11.196	16000	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-25 (4-7.2)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-04A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2818.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

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	370	U
111-44-4	Bis(2-chloroethyl)ether	370	U
95-57-8	2-Chlorophenol	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
95-48-7	2-Methylphenol	370	U
108-60-1	2,2´-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-di-n-propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
111-91-1	Bis(2-chloroethoxy)methane	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	760	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	760	U
131-11-3	Dimethylphthalate	370	U
208-96-8	Acenaphthylene	89	J
606-20-2	2,6-Dinitrotoluene	370	U
99-09-2	3-Nitroaniline	760	U
83-32-9	Acenaphthene	370	U
51-28-5	2,4-Dinitrophenol	760	U
100-02-7	4-Nitrophenol	760	U
132-64-9	Dibenzofuran	370	U
121-14-2	2,4-Dinitrotoluene	370	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-25 (4-7.2)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-04A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2818.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
86-73-7	Fluorene	370	U
100-01-6	4-Nitroaniline	760	U
534-52-1	4,6-Dinitro-2-methylphenol	760	U
86-30-6	N-Nitrosodiphenylamine	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	760	U
85-01-8	Phenanthrene	660	
120-12-7	Anthracene	120	J
86-74-8	Carbazole	370	U
84-74-2	Di-n-butylphthalate	370	U
206-44-0	Fluoranthene	980	
129-00-0	Pyrene	820	
85-68-7	Butylbenzylphthalate	370	U
91-94-1	3,3´-Dichlorobenzidine	370	U
56-55-3	Benzo(a)anthracene	410	
218-01-9	Chrysene	410	
117-81-7	Bis(2-ethylhexyl)phthalate	990	
117-84-0	Di-n-octylphthalate	370	U
205-99-2	Benzo(b)fluoranthene	480	
207-08-9	Benzo(k)fluoranthene	220	J
50-32-8	Benzo(a)pyrene	400	
193-39-5	Indeno(1,2,3-cd)pyrene	230	J
53-70-3	Dibenzo(a,h)anthracene	370	U
191-24-2	Benzo(g,h,i)perylene	260	J

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SI-SB-25 (4-7.2)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-04A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2818.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	301-02-0	9-Octadecenamide, (Z)-	13.661	180	NJ
02	192-97-2	Benzo[e]pyrene	15.205	260	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-26 (10-14)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-11A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2825.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 23 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

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
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
95-50-1	1,2-Dichlorobenzene	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
120-82-1	1,2,4-Trichlorobenzene	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	860	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	860	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	860	U
83-32-9	Acenaphthene	420	U
51-28-5	2,4-Dinitrophenol	860	U
100-02-7	4-Nitrophenol	860	U
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-26 (10-14)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-11A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2825.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 23 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
86-73-7	Fluorene	420	U
100-01-6	4-Nitroaniline	860	U
534-52-1	4,6-Dinitro-2-methylphenol	860	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	860	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	420	U
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	350	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

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SI-SB-26 (10-14)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-11A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2825.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 23 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	13.563	390	J
02	301-02-0	9-Octadecenamide, (Z)-	13.664	210	NJ
03	1599-67-3	1-Docosene	14.022	250	NJ
04	1599-67-3	1-Docosene	14.562	490	NJ
05		Unknown-02	17.270	290	J
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-29
(12-14.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-12A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2826.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

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
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
95-50-1	1,2-Dichlorobenzene	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
120-82-1	1,2,4-Trichlorobenzene	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

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-29
(12-14.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-12A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2826.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
86-73-7	Fluorene	400	U
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	400	U
206-44-0	Fluoranthene	150	J
129-00-0	Pyrene	130	J
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	140	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

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SI-SB-29
(12-14.5)

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1522
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1522-12A
Sample wt/vol: 30.1 (g/mL) G
Lab File ID: S3F2826.D
Level: (TRACE or LOW/MED) LOW
Extraction: (Type) SONC
% Moisture: 18
Decanted: (Y/N) N
Date Received: 09/11/2008
Concentrated Extract Volume: 1000 (uL)
Date Extracted: 09/18/2008
Injection Volume: 1.0 (uL)
GPC Factor: 1.00
Date Analyzed: 09/26/2008
GPC Cleanup: (Y/N) N
pH:
Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	301-02-0	9-Octadecenamide, (Z)-	13.660	410	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-30 (12-14)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-13A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2827.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7.0 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

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	350	U
111-44-4	Bis(2-chloroethyl)ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2´-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
111-91-1	Bis(2-chloroethoxy)methane	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-57-6	2-Methylnaphthalene	74	J
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	720	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	720	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
99-09-2	3-Nitroaniline	720	U
83-32-9	Acenaphthene	350	U
51-28-5	2,4-Dinitrophenol	720	U
100-02-7	4-Nitrophenol	720	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-30 (12-14)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-13A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2827.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7.0 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U
100-01-6	4-Nitroaniline	720	U
534-52-1	4,6-Dinitro-2-methylphenol	720	U
86-30-6	N-Nitrosodiphenylamine	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	720	U
85-01-8	Phenanthrene	230	J
120-12-7	Anthracene	350	U
86-74-8	Carbazole	350	U
84-74-2	Di-n-butylphthalate	350	U
206-44-0	Fluoranthene	230	J
129-00-0	Pyrene	180	J
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3'-Dichlorobenzidine	350	U
56-55-3	Benzo(a)anthracene	100	J
218-01-9	Chrysene	130	J
117-81-7	Bis(2-ethylhexyl)phthalate	180	J
117-84-0	Di-n-octylphthalate	350	U
205-99-2	Benzo(b)fluoranthene	140	J
207-08-9	Benzo(k)fluoranthene	350	U
50-32-8	Benzo(a)pyrene	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
53-70-3	Dibenzo(a,h)anthracene	350	U
191-24-2	Benzo(g,h,i)perylene	350	U

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SI-SB-30 (12-14)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-13A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2827.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7.0 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.625	150	J
02		Unknown-02	11.202	160	J
03	629-59-4	Tetradecane	11.683	170	NJ
04	629-92-5	Nonadecane	12.105	200	NJ
05	112-95-8	Eicosane	12.484	220	NJ
06	629-94-7	Heneicosane	12.826	240	NJ
07	629-97-0	Docosane	13.147	150	NJ
08	301-02-0	9-Octadecenamide, (Z)-	13.665	1000	NJ
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-31
(12-15.4)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM Case No.:

Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1523-10A

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: S3F2856.D

Level: (LOW/MED) LOW

Extraction: (Type) SONC

% Moisture: 26 Decanted: (Y/N) N

Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL)

Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00

Date Analyzed: 09/28/2008

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	440	U
111-44-4	Bis(2-chloroethyl)ether	440	U
95-57-8	2-Chlorophenol	440	U
541-73-1	1,3-Dichlorobenzene	440	U
106-46-7	1,4-Dichlorobenzene	440	U
95-50-1	1,2-Dichlorobenzene	440	U
95-48-7	2-Methylphenol	440	U
108-60-1	2,2'-oxybis(1-Chloropropane)	440	U
106-44-5	4-Methylphenol	440	U
621-64-7	N-Nitroso-di-n-propylamine	440	U
67-72-1	Hexachloroethane	440	U
98-95-3	Nitrobenzene	440	U
78-59-1	Isophorone	440	U
88-75-5	2-Nitrophenol	440	U
105-67-9	2,4-Dimethylphenol	440	U
120-83-2	2,4-Dichlorophenol	440	U
120-82-1	1,2,4-Trichlorobenzene	440	U
91-20-3	Naphthalene	440	U
106-47-8	4-Chloroaniline	440	U
111-91-1	Bis(2-chloroethoxy)methane	440	U
87-68-3	Hexachlorobutadiene	440	U
59-50-7	4-Chloro-3-methylphenol	440	U
91-57-6	2-Methylnaphthalene	440	U
77-47-4	Hexachlorocyclopentadiene	440	U
88-06-2	2,4,6-Trichlorophenol	440	U
95-95-4	2,4,5-Trichlorophenol	900	U
91-58-7	2-Chloronaphthalene	440	U
88-74-4	2-Nitroaniline	900	U
131-11-3	Dimethylphthalate	440	U
208-96-8	Acenaphthylene	440	U
606-20-2	2,6-Dinitrotoluene	440	U
99-09-2	3-Nitroaniline	900	U
83-32-9	Acenaphthene	440	U
51-28-5	2,4-Dinitrophenol	900	U
100-02-7	4-Nitrophenol	900	U
132-64-9	Dibenzofuran	440	U
121-14-2	2,4-Dinitrotoluene	440	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-31
(12-15.4)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-10A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2856.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 26 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	440	U
7005-72-3	4-Chlorophenyl-phenylether	440	U
86-73-7	Fluorene	440	U
100-01-6	4-Nitroaniline	900	U
534-52-1	4,6-Dinitro-2-methylphenol	900	U
86-30-6	N-Nitrosodiphenylamine	440	U
101-55-3	4-Bromophenyl-phenylether	440	U
118-74-1	Hexachlorobenzene	440	U
87-86-5	Pentachlorophenol	900	U
85-01-8	Phenanthrene	330	J
120-12-7	Anthracene	440	U
86-74-8	Carbazole	440	U
84-74-2	Di-n-butylphthalate	440	U
206-44-0	Fluoranthene	700	
129-00-0	Pyrene	530	
85-68-7	Butylbenzylphthalate	440	U
91-94-1	3,3´-Dichlorobenzidine	440	U
56-55-3	Benzo(a)anthracene	310	J
218-01-9	Chrysene	410	J
117-81-7	Bis(2-ethylhexyl)phthalate	440	U
117-84-0	Di-n-octylphthalate	440	U
205-99-2	Benzo(b)fluoranthene	400	J
207-08-9	Benzo(k)fluoranthene	190	J
50-32-8	Benzo(a)pyrene	280	J
193-39-5	Indeno(1,2,3-cd)pyrene	200	J
53-70-3	Dibenzo(a,h)anthracene	440	U
191-24-2	Benzo(g,h,i)perylene	240	J

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-31
(12-15.4)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-10A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2856.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 26 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	8.504	230	J
02	544-76-3	Hexadecane	10.592	240	NJ
03	3892-00-0	Pentadecane, 2,6,10-trimethy	10.881	380	NJ
04	55000-52-7	Hexadecane, 2,6,10-trimethyl	11.191	730	NJ
05	56862-62-5	10-Methylnonadecane	11.656	190	NJ
06	629-92-5	Nonadecane	12.078	190	NJ
07	112-95-8	Eicosane	12.462	230	NJ
08	1599-67-3	1-Docosene	14.001	240	NJ
09		Unknown-02	14.540	230	J
10		Unknown-03	14.770	270	J
11	192-97-2	Benzo[e]pyrene	15.187	220	NJ
12	000214-20-7	Stigmasterol, 22,23-dihydro-	16.661	930	NJ
13	1058-61-3	Stigmast-4-en-3-one	17.297	640	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-32
(11-13.9)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM Case No.:

Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1523-07A

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: S3F2890.D

Level: (LOW/MED) LOW

Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N

Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL)

Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00

Date Analyzed: 09/30/2008

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	370	U
111-44-4	Bis(2-chloroethyl)ether	370	U
95-57-8	2-Chlorophenol	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
95-48-7	2-Methylphenol	370	U
108-60-1	2,2´-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-di-n-propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
111-91-1	Bis(2-chloroethoxy)methane	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-57-6	2-Methylnaphthalene	140	J
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	750	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	750	U
131-11-3	Dimethylphthalate	370	U
208-96-8	Acenaphthylene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
99-09-2	3-Nitroaniline	750	U
83-32-9	Acenaphthene	1200	
51-28-5	2,4-Dinitrophenol	750	U
100-02-7	4-Nitrophenol	750	U
132-64-9	Dibenzofuran	1100	
121-14-2	2,4-Dinitrotoluene	370	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-32
(11-13.9)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-07A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2890.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/30/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
86-73-7	Fluorene	2700	
100-01-6	4-Nitroaniline	750	U
534-52-1	4,6-Dinitro-2-methylphenol	750	U
86-30-6	N-Nitrosodiphenylamine	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	750	U
85-01-8	Phenanthrene	860	
120-12-7	Anthracene	1300	
86-74-8	Carbazole	370	U
84-74-2	Di-n-butylphthalate	370	U
206-44-0	Fluoranthene	300	J
129-00-0	Pyrene	1200	
85-68-7	Butylbenzylphthalate	370	U
91-94-1	3,3'-Dichlorobenzidine	370	U
56-55-3	Benzo(a)anthracene	370	U
218-01-9	Chrysene	100	J
117-81-7	Bis(2-ethylhexyl)phthalate	370	U
117-84-0	Di-n-octylphthalate	370	U
205-99-2	Benzo(b)fluoranthene	370	U
207-08-9	Benzo(k)fluoranthene	370	U
50-32-8	Benzo(a)pyrene	370	U
193-39-5	Indeno(1,2,3-cd)pyrene	370	U
53-70-3	Dibenzo(a,h)anthracene	370	U
191-24-2	Benzo(g,h,i)perylene	370	U

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-32
(11-13.9)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-07A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2890.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/30/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	493-02-7	Naphthalene, decahydro-, tra	4.758	850	NJ
02		Unknown-01	5.142	1400	J
03	15932-80-6	Cyclohexanone, 5-methyl-2-(1	5.351	150	NJ
04	17312-54-8	Decane, 3,7-dimethyl-	5.377	150	NJ
05		Unknown-02	5.441	210	J
06	2958-75-0	1-Methyldecahydronaphthalene	5.532	670	NJ
07		Unknown-03	5.789	280	J
08		Unknown-04	6.205	240	J
09		Unknown-05	6.387	870	J
10		Unknown-06	6.553	960	J
11		Unknown-07	6.665	1100	J
12		Unknown-08	6.761	530	J
13		Unknown-09	6.884	540	J
14		Unknown-10	7.103	870	J
15		Unknown-11	7.754	1700	J
16	80655-44-3	Decahydro-4,4,8,9,10-pentame	9.528	1500	NJ
17	3674-73-5	Phenanthrene, 2,3,5-trimethy	13.038	880	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-33
(10-12.3)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-11A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2859.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/28/2008

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	360	U
111-44-4	Bis(2-chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
111-91-1	Bis(2-chloroethoxy)methane	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	740	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	740	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	740	U
83-32-9	Acenaphthene	360	U
51-28-5	2,4-Dinitrophenol	740	U
100-02-7	4-Nitrophenol	740	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-33
(10-12.3)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1523-11A

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: S3F2859.D

Level: (LOW/MED) LOW

Extraction: (Type) SONC

% Moisture: 10

Decanted: (Y/N) N

Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL)

Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL)

GPC Factor: 1.00

Date Analyzed: 09/28/2008

GPC Cleanup: (Y/N) N

pH:

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	740	U
534-52-1	4,6-Dinitro-2-methylphenol	740	U
86-30-6	N-Nitrosodiphenylamine	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	740	U
85-01-8	Phenanthrene	210	J
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	290	J
129-00-0	Pyrene	220	J
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	110	J
218-01-9	Chrysene	160	J
117-81-7	Bis(2-ethylhexyl)phthalate	400	
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	200	J
207-08-9	Benzo(k)fluoranthene	360	U
50-32-8	Benzo(a)pyrene	130	J
193-39-5	Indeno(1,2,3-cd)pyrene	110	J
53-70-3	Dibenzo(a,h)anthracene	360	U
191-24-2	Benzo(g,h,i)perylene	130	J

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-33
(10-12.3)

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1523
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1523-11A
Sample wt/vol: 30.2 (g/mL) G
Lab File ID: S3F2859.D
Level: (TRACE or LOW/MED) LOW
Extraction: (Type) SONC
% Moisture: 10
Decanted: (Y/N) N
Date Received: 09/11/2008
Concentrated Extract Volume: 1000 (uL)
Date Extracted: 09/18/2008
Injection Volume: 1.0 (uL)
GPC Factor: 1.00
Date Analyzed: 09/28/2008
GPC Cleanup: (Y/N) N
pH:
Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	301-02-0	9-Octadecenamide, (Z)-	13.644	910	BNJ
02	74339-53-0	Trichloroacetic acid, pentad	14.002	190	NJ
03		Unknown-01	14.771	190	J
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-34 (16-22)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM Case No.:

Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1523-08A

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: S3F2891.D

Level: (LOW/MED) LOW

Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N

Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL)

Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00

Date Analyzed: 09/30/2008

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
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
95-50-1	1,2-Dichlorobenzene	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
120-82-1	1,2,4-Trichlorobenzene	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	830	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	830	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	830	U
83-32-9	Acenaphthene	410	U
51-28-5	2,4-Dinitrophenol	830	U
100-02-7	4-Nitrophenol	830	U
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-34 (16-22)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM Case No.:

Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1523-08A

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: S3F2891.D

Level: (LOW/MED) LOW

Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N

Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL)

Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00

Date Analyzed: 09/30/2008

GPC Cleanup: (Y/N) N pH:

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
86-73-7	Fluorene	410	U
100-01-6	4-Nitroaniline	830	U
534-52-1	4,6-Dinitro-2-methylphenol	830	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	830	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	410	U
206-44-0	Fluoranthene	200	J
129-00-0	Pyrene	170	J
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3´-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	130	J
218-01-9	Chrysene	220	J
117-81-7	Bis(2-ethylhexyl)phthalate	410	U
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	220	J
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	150	J
193-39-5	Indeno(1,2,3-cd)pyrene	120	J
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	140	J

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-34 (16-22)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-08A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2891.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/30/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	12.380	210	J
02	301-02-0	9-Octadecenamide, (Z)-	13.539	290	BNJ
03	544-76-3	Hexadecane	14.426	250	NJ
04	14167-59-0	Tetratriacontane	15.478	400	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-35 (18-20)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1550

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1550-01A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2860.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/28/2008

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	380	U
111-44-4	Bis(2-chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2´-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
111-91-1	Bis(2-chloroethoxy)methane	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	770	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	770	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	770	U
83-32-9	Acenaphthene	380	U
51-28-5	2,4-Dinitrophenol	770	U
100-02-7	4-Nitrophenol	770	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-35 (18-20)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1550

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1550-01A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2860.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	770	U
534-52-1	4,6-Dinitro-2-methylphenol	770	U
86-30-6	N-Nitrosodiphenylamine	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	770	U
85-01-8	Phenanthrene	380	U
120-12-7	Anthracene	380	U
86-74-8	Carbazole	380	U
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	380	U
129-00-0	Pyrene	380	U
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3´-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	380	U
218-01-9	Chrysene	380	U
117-81-7	Bis(2-ethylhexyl)phthalate	380	U
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	380	U
207-08-9	Benzo(k)fluoranthene	380	U
50-32-8	Benzo(a)pyrene	380	U
193-39-5	Indeno(1,2,3-cd)pyrene	380	U
53-70-3	Dibenzo(a,h)anthracene	380	U
191-24-2	Benzo(g,h,i)perylene	380	U

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-SB-35 (18-20)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1550

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1550-01A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2860.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	143-07-7	Dodecanoic acid	10.333	190	NJ
02	301-02-0	9-Octadecenamide, (Z)-	13.640	840	BNJ
03	112-84-5	13-Docosenamide, (Z)-	14.767	270	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-36
(18-20.9)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM Case No.:

Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1549-19A

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: S3F2916.D

Level: (LOW/MED) LOW

Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N

Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL)

Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00

Date Analyzed: 10/01/2008

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
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
95-50-1	1,2-Dichlorobenzene	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
120-82-1	1,2,4-Trichlorobenzene	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	800	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	800	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	800	U
83-32-9	Acenaphthene	400	U
51-28-5	2,4-Dinitrophenol	800	U
100-02-7	4-Nitrophenol	800	U
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-36
(18-20.9)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-19A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2916.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/01/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
86-73-7	Fluorene	400	U
100-01-6	4-Nitroaniline	800	U
534-52-1	4,6-Dinitro-2-methylphenol	800	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	800	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	400	U
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

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SI-SB-36
(18-20.9)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-19A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2916.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/01/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	629-98-1	13-Docosen-1-ol, (Z)-	13.677	170	NJ
02	7206-21-5	5-Octadecene, (E)-	13.853	740	NJ
03	1599-67-3	1-Docosene	14.398	1500	NJ
04	301-02-0	9-Octadecenamide, (Z)-	14.628	390	NJ
05	297-03-0	Cyclotetracosane	14.916	300	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-37 (14-15.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-20A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2917.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/01/2008

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
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
95-50-1	1,2-Dichlorobenzene	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
120-82-1	1,2,4-Trichlorobenzene	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

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-37 (14-15.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-20A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2917.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/01/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
86-73-7	Fluorene	400	U
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	400	U
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

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SI-SB-37
(14-15.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-20A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2917.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/01/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	12.103	2500	J
02		Unknown-02	12.605	290	J
03	483-65-8	Phenanthrene, 1-methyl-7-(1-	13.166	270	NJ
04		Unknown-03	13.583	320	J
05		Unknown-04	13.615	310	J
06	74685-33-9	3-Eicosene, (E)-	13.855	300	NJ
07	297-03-0	Cyclotetracosane	14.400	330	NJ
08	112-84-5	13-Docosenamide, (Z)-	14.635	610	NJ
09		Unknown-05	16.318	850	J
10	000214-20-7	Stigmasterol, 22,23-dihydro-	16.409	1400	NJ
11		Unknown-06	16.825	250	J
12	1058-61-3	Stigmast-4-en-3-one	17.007	400	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-01 (06)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-01A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: E3F6276F.D/E3F6276R.D

% Moisture: 11 Decanted: (Y/N) N Date Received: 09/04/2008

Extraction: (Type) SONC Date Extracted: 09/10/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/19/2008

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	37	U
11104-28-2	Aroclor-1221	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	37	U
11096-82-5	Aroclor-1260	37	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-02 (6-9)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-02A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: E3F6277F.D/E3F6277R.D

% Moisture: 15 Decanted: (Y/N) N Date Received: 09/04/2008

Extraction: (Type) SONC Date Extracted: 09/10/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/19/2008

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	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	47	P
11096-82-5	Aroclor-1260	39	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-03 (2-5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-03A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: E3F6278F.D/E3F6278R.D

% Moisture: 13 Decanted: (Y/N) N Date Received: 09/04/2008

Extraction: (Type) SONC Date Extracted: 09/10/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/19/2008

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	37	U
11104-28-2	Aroclor-1221	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	37	U
11096-82-5	Aroclor-1260	37	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-04 (0-5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-04A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: E3F6279F.D/E3F6279R.D

% Moisture: 16 Decanted: (Y/N) N Date Received: 09/04/2008

Extraction: (Type) SONC Date Extracted: 09/10/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/19/2008

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	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U
11096-82-5	Aroclor-1260	39	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-05 (0-7)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-05A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: E3F6280F.D/E3F6280R.D

% Moisture: 12 Decanted: (Y/N) N Date Received: 09/04/2008

Extraction: (Type) SONC Date Extracted: 09/10/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/19/2008

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	37	U
11104-28-2	Aroclor-1221	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	88	
11096-82-5	Aroclor-1260	37	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-06 (0-5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-06A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: E3F6281F.D/E3F6281R.D

% Moisture: 9.0 Decanted: (Y/N) N Date Received: 09/04/2008

Extraction: (Type) SONC Date Extracted: 09/10/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/19/2008

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	36	U
11104-28-2	Aroclor-1221	36	U
11141-16-5	Aroclor-1232	36	U
53469-21-9	Aroclor-1242	36	U
12672-29-6	Aroclor-1248	36	U
11097-69-1	Aroclor-1254	83	P
11096-82-5	Aroclor-1260	36	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-08 (0.5-1)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-07A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: E3F6282F.D/E3F6282R.D

% Moisture: 7.0 Decanted: (Y/N) N Date Received: 09/04/2008

Extraction: (Type) SONC Date Extracted: 09/10/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/19/2008

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	35	U
11104-28-2	Aroclor-1221	35	U
11141-16-5	Aroclor-1232	35	U
53469-21-9	Aroclor-1242	35	U
12672-29-6	Aroclor-1248	35	U
11097-69-1	Aroclor-1254	35	U
11096-82-5	Aroclor-1260	35	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-09 (4-9)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-08A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: E3F6283F.D/E3F6283R.D

% Moisture: 9.0 Decanted: (Y/N) N Date Received: 09/04/2008

Extraction: (Type) SONC Date Extracted: 09/10/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/19/2008

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	36	U
11104-28-2	Aroclor-1221	36	U
11141-16-5	Aroclor-1232	36	U
53469-21-9	Aroclor-1242	36	U
12672-29-6	Aroclor-1248	36	U
11097-69-1	Aroclor-1254	36	U
11096-82-5	Aroclor-1260	36	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-10 (1-5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-09A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: E3F6284F.D/E3F6284R.D

% Moisture: 8.0 Decanted: (Y/N) N Date Received: 09/04/2008

Extraction: (Type) SONC Date Extracted: 09/10/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/19/2008

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	35	U
11104-28-2	Aroclor-1221	35	U
11141-16-5	Aroclor-1232	35	U
53469-21-9	Aroclor-1242	35	U
12672-29-6	Aroclor-1248	35	U
11097-69-1	Aroclor-1254	35	U
11096-82-5	Aroclor-1260	35	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-11(26-32)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1462-10A

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: E3F6285F.D/E3F6285R.D

% Moisture: 31

Decanted: (Y/N) N

Date Received: 09/06/2008

Extraction: (Type) SONC

Date Extracted: 09/10/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 09/19/2008

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	47	U
11104-28-2	Aroclor-1221	47	U
11141-16-5	Aroclor-1232	47	U
53469-21-9	Aroclor-1242	47	U
12672-29-6	Aroclor-1248	47	U
11097-69-1	Aroclor-1254	47	U
11096-82-5	Aroclor-1260	47	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-12 (16-20)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-11A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: E3F6290F.D/E3F6290R.D

% Moisture: 15 Decanted: (Y/N) N Date Received: 09/06/2008

Extraction: (Type) SONC Date Extracted: 09/10/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/19/2008

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	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

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1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-13 (17-19)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-12A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: E3F6291F.D/E3F6291R.D

% Moisture: 15 Decanted: (Y/N) N Date Received: 09/06/2008

Extraction: (Type) SONC Date Extracted: 09/10/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/19/2008

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	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U
11096-82-5	Aroclor-1260	39	U

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1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-14 (24-25)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-13A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: E3F6292F.D/E3F6292R.D

% Moisture: 21 Decanted: (Y/N) N Date Received: 09/06/2008

Extraction: (Type) SONC Date Extracted: 09/10/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/19/2008

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	64	
11096-82-5	Aroclor-1260	41	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-16 (0-4)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-14A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: E3F6293F.D/E3F6293R.D

% Moisture: 7.0 Decanted: (Y/N) N Date Received: 09/06/2008

Extraction: (Type) SONC Date Extracted: 09/10/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/19/2008

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	35	U
11104-28-2	Aroclor-1221	35	U
11141-16-5	Aroclor-1232	35	U
53469-21-9	Aroclor-1242	35	U
12672-29-6	Aroclor-1248	35	U
11097-69-1	Aroclor-1254	35	U
11096-82-5	Aroclor-1260	35	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-17
(8-11.5)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1462-15A

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: E3F6294F.D/E3F6294R.D

% Moisture: 10

Decanted: (Y/N) N

Date Received: 09/06/2008

Extraction: (Type) SONC

Date Extracted: 09/10/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 09/19/2008

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	36	U
11104-28-2	Aroclor-1221	36	U
11141-16-5	Aroclor-1232	36	U
53469-21-9	Aroclor-1242	36	U
12672-29-6	Aroclor-1248	36	U
11097-69-1	Aroclor-1254	36	U
11096-82-5	Aroclor-1260	36	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-18
(22.5-24.3)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1462

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1462-16A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: E3F6295F.D/E3F6295R.D

% Moisture: 16 Decanted: (Y/N) N Date Received: 09/06/2008

Extraction: (Type) SONC Date Extracted: 09/10/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/19/2008

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	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U
11096-82-5	Aroclor-1260	39	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-19 (0-4)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-03A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: E3F6373F.D/E3F6373R.D

% Moisture: 7.0 Decanted: (Y/N) N Date Received: 09/11/2008

Extraction: (Type) SONC Date Extracted: 09/17/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/22/2008

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	35	U
11104-28-2	Aroclor-1221	35	U
11141-16-5	Aroclor-1232	35	U
53469-21-9	Aroclor-1242	35	U
12672-29-6	Aroclor-1248	35	U
11097-69-1	Aroclor-1254	35	U
11096-82-5	Aroclor-1260	35	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-19 (10-15)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM Case No.:

Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1522-01A

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: E3F6371F.D/E3F6371R.D

% Moisture: 25 Decanted: (Y/N) N

Date Received: 09/11/2008

Extraction: (Type) SONC

Date Extracted: 09/17/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 09/22/2008

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

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-20
(15-16.7)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-02A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: E3F6372F.D/E3F6372R.D

% Moisture: 16 Decanted: (Y/N) N Date Received: 09/11/2008

Extraction: (Type) SONC Date Extracted: 09/17/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/22/2008

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	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U
11096-82-5	Aroclor-1260	39	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-25 (4-7.2)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-04A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: E3F6374F.D/E3F6374R.D

% Moisture: 13 Decanted: (Y/N) N Date Received: 09/11/2008

Extraction: (Type) SONC Date Extracted: 09/17/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/22/2008

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	37	U
11104-28-2	Aroclor-1221	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	37	U
11096-82-5	Aroclor-1260	37	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-26 (10-14)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-11A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: E3F6386F.D/E3F6386R.D

% Moisture: 23 Decanted: (Y/N) N Date Received: 09/11/2008

Extraction: (Type) SONC Date Extracted: 09/17/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/22/2008

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

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-29
(12-14.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-12A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: E3F6387F.D/E3F6387R.D

% Moisture: 18 Decanted: (Y/N) N Date Received: 09/11/2008

Extraction: (Type) SONC Date Extracted: 09/17/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/22/2008

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

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-30 (12-14)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-13A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: E3F6388F.D/E3F6388R.D

% Moisture: 7.0 Decanted: (Y/N) N Date Received: 09/11/2008

Extraction: (Type) SONC Date Extracted: 09/17/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/22/2008

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	35	U
11104-28-2	Aroclor-1221	35	U
11141-16-5	Aroclor-1232	35	U
53469-21-9	Aroclor-1242	35	U
12672-29-6	Aroclor-1248	35	U
11097-69-1	Aroclor-1254	35	U
11096-82-5	Aroclor-1260	35	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-31
(12-15.4)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-10A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: E3F6498F.D/E3F6498R.D

% Moisture: 26 Decanted: (Y/N) N Date Received: 09/11/2008

Extraction: (Type) SONC Date Extracted: 09/17/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/26/2008

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

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-32
(11-13.9)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-07A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: E3F6495F.D/E3F6495R.D

% Moisture: 11 Decanted: (Y/N) N Date Received: 09/11/2008

Extraction: (Type) SONC Date Extracted: 09/17/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/26/2008

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	36	U
11104-28-2	Aroclor-1221	36	U
11141-16-5	Aroclor-1232	36	U
53469-21-9	Aroclor-1242	36	U
12672-29-6	Aroclor-1248	36	U
11097-69-1	Aroclor-1254	36	U
11096-82-5	Aroclor-1260	36	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-33
(10-12.3)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-11A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: E3F6565F.D/E3F6565R.D

% Moisture: 10 Decanted: (Y/N) N Date Received: 09/11/2008

Extraction: (Type) SONC Date Extracted: 09/17/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/01/2008

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	36	U
11104-28-2	Aroclor-1221	36	U
11141-16-5	Aroclor-1232	36	U
53469-21-9	Aroclor-1242	36	U
12672-29-6	Aroclor-1248	36	U
11097-69-1	Aroclor-1254	36	U
11096-82-5	Aroclor-1260	36	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-34 (16-22)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-08A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: E3F6496F.D/E3F6496R.D

% Moisture: 21 Decanted: (Y/N) N Date Received: 09/11/2008

Extraction: (Type) SONC Date Extracted: 09/17/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/26/2008

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

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-SB-35 (18-20)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1550

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1550-01A

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: E3F6566F.D/E3F6566R.D

% Moisture: 14

Decanted: (Y/N) N

Date Received: 09/13/2008

Extraction: (Type) SONC

Date Extracted: 09/17/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 10/01/2008

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	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-36
(18-20.9)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-19A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: E2H3357F.D/E2H3357R.D

% Moisture: 18 Decanted: (Y/N) N Date Received: 09/13/2008

Extraction: (Type) SONC Date Extracted: 09/22/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/02/2008

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

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-37
(14-15.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-20A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: E2H3358F.D/E2H3358R.D

% Moisture: 19 Decanted: (Y/N) N Date Received: 09/13/2008

Extraction: (Type) SONC Date Extracted: 09/22/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/02/2008

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

SW846

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-01 (06)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1462

Matrix (soil/water): SOIL Lab Sample ID: G1462-01

Level (low/med): MED Date Received: 09/04/2008

% Solids: 89.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4340		E	P
7440-36-0	Antimony	0.12	U	N	P
7440-38-2	Arsenic	2.2			P
7440-39-3	Barium	37.7		E	P
7440-41-7	Beryllium	0.31		E	P
7440-43-9	Cadmium	0.11	B		P
7440-70-2	Calcium	158000			P
7440-47-3	Chromium	6.5		E	P
7440-48-4	Cobalt	2.0	B	N	P
7440-50-8	Copper	17.8		E	P
7439-89-6	Iron	8140		E	P
7439-92-1	Lead	32.5		E	P
7439-95-4	Magnesium	5400		E	P
7439-96-5	Manganese	242		E	P
7439-97-6	Mercury	0.11			CV
7440-02-0	Nickel	5.4		NE	P
7440-09-7	Potassium	639			P
7782-49-2	Selenium	1.4			P
7440-22-4	Silver	0.095	U		P
7440-23-5	Sodium	192			P
7440-28-0	Thallium	0.77	B	N	P
7440-62-2	Vanadium	10.1		E	P
7440-66-6	Zinc	27.8		N*E	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-02 (6-9)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1462

Matrix (soil/water): SOIL Lab Sample ID: G1462-02

Level (low/med): MED Date Received: 09/04/2008

% Solids: 85.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5830		E	P
7440-36-0	Antimony	1.4		N	P
7440-38-2	Arsenic	12.1			P
7440-39-3	Barium	67.3		E	P
7440-41-7	Beryllium	0.54		E	P
7440-43-9	Cadmium	2.0			P
7440-70-2	Calcium	24000			P
7440-47-3	Chromium	32.2		E	P
7440-48-4	Cobalt	6.7		N	P
7440-50-8	Copper	180		E	P
7439-89-6	Iron	131000		E	P
7439-92-1	Lead	167		E	P
7439-95-4	Magnesium	3370		E	P
7439-96-5	Manganese	734		E	P
7439-97-6	Mercury	0.79			CV
7440-02-0	Nickel	20.2		NE	P
7440-09-7	Potassium	731			P
7782-49-2	Selenium	0.69	U		P
7440-22-4	Silver	0.13	U		P
7440-23-5	Sodium	189			P
7440-28-0	Thallium	0.40	U	N	P
7440-62-2	Vanadium	52.2		E	P
7440-66-6	Zinc	141		N*E	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-03 (2-5)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1462

Matrix (soil/water): SOIL Lab Sample ID: G1462-03

Level (low/med): MED Date Received: 09/04/2008

% Solids: 87.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7010		E	P
7440-36-0	Antimony	0.16	U	N	P
7440-38-2	Arsenic	3.4			P
7440-39-3	Barium	72.8		E	P
7440-41-7	Beryllium	0.52		E	P
7440-43-9	Cadmium	0.20	B		P
7440-70-2	Calcium	103000			P
7440-47-3	Chromium	10.3		E	P
7440-48-4	Cobalt	4.2		N	P
7440-50-8	Copper	15.7		E	P
7439-89-6	Iron	12600		E	P
7439-92-1	Lead	220		E	P
7439-95-4	Magnesium	6250		E	P
7439-96-5	Manganese	353		E	P
7439-97-6	Mercury	0.070			CV
7440-02-0	Nickel	10.1		NE	P
7440-09-7	Potassium	1570			P
7782-49-2	Selenium	1.0	B		P
7440-22-4	Silver	0.13	U		P
7440-23-5	Sodium	182			P
7440-28-0	Thallium	0.43	B	N	P
7440-62-2	Vanadium	14.6		E	P
7440-66-6	Zinc	58.5		N*E	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-04 (0-5)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1462

Matrix (soil/water): SOIL Lab Sample ID: G1462-04

Level (low/med): MED Date Received: 09/04/2008

% Solids: 84.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10900		E	P
7440-36-0	Antimony	0.58	B	N	P
7440-38-2	Arsenic	3.2			P
7440-39-3	Barium	112		E	P
7440-41-7	Beryllium	0.87		E	P
7440-43-9	Cadmium	0.25	B		P
7440-70-2	Calcium	112000			P
7440-47-3	Chromium	14.1		E	P
7440-48-4	Cobalt	6.5		N	P
7440-50-8	Copper	36.1		E	P
7439-89-6	Iron	25800		E	P
7439-92-1	Lead	60.9		E	P
7439-95-4	Magnesium	6300		E	P
7439-96-5	Manganese	648		E	P
7439-97-6	Mercury	0.12			CV
7440-02-0	Nickel	13.8		NE	P
7440-09-7	Potassium	1860			P
7782-49-2	Selenium	1.2	B		P
7440-22-4	Silver	0.12	U		P
7440-23-5	Sodium	271			P
7440-28-0	Thallium	0.42	B	N	P
7440-62-2	Vanadium	21.8		E	P
7440-66-6	Zinc	67.0		N*E	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-05 (0-7)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1462

Matrix (soil/water): SOIL Lab Sample ID: G1462-05

Level (low/med): MED Date Received: 09/04/2008

% Solids: 88.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9750		E	P
7440-36-0	Antimony	0.13	U	N	P
7440-38-2	Arsenic	4.0			P
7440-39-3	Barium	100		E	P
7440-41-7	Beryllium	0.73		E	P
7440-43-9	Cadmium	0.23			P
7440-70-2	Calcium	47100			P
7440-47-3	Chromium	13.8		E	P
7440-48-4	Cobalt	5.8		N	P
7440-50-8	Copper	21.1		E	P
7439-89-6	Iron	21700		E	P
7439-92-1	Lead	483		E	P
7439-95-4	Magnesium	5600		E	P
7439-96-5	Manganese	410		E	P
7439-97-6	Mercury	0.047			CV
7440-02-0	Nickel	12.2		NE	P
7440-09-7	Potassium	1840			P
7782-49-2	Selenium	0.56	U		P
7440-22-4	Silver	0.10	U		P
7440-23-5	Sodium	280			P
7440-28-0	Thallium	0.33	U	N	P
7440-62-2	Vanadium	21.7		E	P
7440-66-6	Zinc	75.8		N*E	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-06 (0-5)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1462

Matrix (soil/water): SOIL Lab Sample ID: G1462-06

Level (low/med): MED Date Received: 09/04/2008

% Solids: 91.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8150		E	P
7440-36-0	Antimony	0.29	B	N	P
7440-38-2	Arsenic	3.9			P
7440-39-3	Barium	177		E	P
7440-41-7	Beryllium	0.62		E	P
7440-43-9	Cadmium	0.35			P
7440-70-2	Calcium	89700			P
7440-47-3	Chromium	15.9		E	P
7440-48-4	Cobalt	4.7		N	P
7440-50-8	Copper	33.2		E	P
7439-89-6	Iron	15500		E	P
7439-92-1	Lead	140		E	P
7439-95-4	Magnesium	7340		E	P
7439-96-5	Manganese	408		E	P
7439-97-6	Mercury	0.11			CV
7440-02-0	Nickel	12.4		NE	P
7440-09-7	Potassium	1430			P
7782-49-2	Selenium	1.4	B		P
7440-22-4	Silver	0.12	U		P
7440-23-5	Sodium	212			P
7440-28-0	Thallium	0.51	B	N	P
7440-62-2	Vanadium	17.2		E	P
7440-66-6	Zinc	153		N*E	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-08 (0.5-1)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1462

Matrix (soil/water): SOIL Lab Sample ID: G1462-07

Level (low/med): MED Date Received: 09/04/2008

% Solids: 93.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2510		E	P
7440-36-0	Antimony	0.28	B	N	P
7440-38-2	Arsenic	3.7			P
7440-39-3	Barium	24.0		E	P
7440-41-7	Beryllium	0.22		E	P
7440-43-9	Cadmium	0.19	B		P
7440-70-2	Calcium	105000			P
7440-47-3	Chromium	7.2		E	P
7440-48-4	Cobalt	1.9	B	N	P
7440-50-8	Copper	52.9		E	P
7439-89-6	Iron	21100		E	P
7439-92-1	Lead	13.1		E	P
7439-95-4	Magnesium	3700		E	P
7439-96-5	Manganese	304		E	P
7439-97-6	Mercury	0.11			CV
7440-02-0	Nickel	5.3		NE	P
7440-09-7	Potassium	389			P
7782-49-2	Selenium	0.71	B		P
7440-22-4	Silver	0.094	U		P
7440-23-5	Sodium	77.2			P
7440-28-0	Thallium	0.31	B	N	P
7440-62-2	Vanadium	11.7		E	P
7440-66-6	Zinc	42.1		N*E	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-09 (4-9)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1462

Matrix (soil/water): SOIL Lab Sample ID: G1462-08

Level (low/med): MED Date Received: 09/04/2008

% Solids: 91.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3870		E	P
7440-36-0	Antimony	0.68	B	N	P
7440-38-2	Arsenic	3.2			P
7440-39-3	Barium	26.4		E	P
7440-41-7	Beryllium	0.29		E	P
7440-43-9	Cadmium	0.20	B		P
7440-70-2	Calcium	101000			P
7440-47-3	Chromium	6.3		E	P
7440-48-4	Cobalt	2.3		N	P
7440-50-8	Copper	36.1		E	P
7439-89-6	Iron	21400		E	P
7439-92-1	Lead	129		E	P
7439-95-4	Magnesium	2280		E	P
7439-96-5	Manganese	228		E	P
7439-97-6	Mercury	0.066			CV
7440-02-0	Nickel	6.3		NE	P
7440-09-7	Potassium	511			P
7782-49-2	Selenium	0.84	B		P
7440-22-4	Silver	0.094	U		P
7440-23-5	Sodium	105			P
7440-28-0	Thallium	0.47	B	N	P
7440-62-2	Vanadium	9.9		E	P
7440-66-6	Zinc	33.2		N*E	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-10 (1-5)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1462

Matrix (soil/water): SOIL Lab Sample ID: G1462-09

Level (low/med): MED Date Received: 09/04/2008

% Solids: 92.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1350		E	P
7440-36-0	Antimony	1.5		N	P
7440-38-2	Arsenic	15.6			P
7440-39-3	Barium	21.4		E	P
7440-41-7	Beryllium	0.16	B	E	P
7440-43-9	Cadmium	3.7			P
7440-70-2	Calcium	60400			P
7440-47-3	Chromium	31.0		E	P
7440-48-4	Cobalt	9.3		N	P
7440-50-8	Copper	56.8		E	P
7439-89-6	Iron	224000		E	P
7439-92-1	Lead	39.7		E	P
7439-95-4	Magnesium	820		E	P
7439-96-5	Manganese	923		E	P
7439-97-6	Mercury	0.0063	U		CV
7440-02-0	Nickel	20.8		NE	P
7440-09-7	Potassium	148			P
7782-49-2	Selenium	0.62	U		P
7440-22-4	Silver	0.11	U		P
7440-23-5	Sodium	39.1	B		P
7440-28-0	Thallium	0.36	U	N	P
7440-62-2	Vanadium	60.7		E	P
7440-66-6	Zinc	19.8		N*E	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-11(26-32)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1462

Matrix (soil/water): SOIL Lab Sample ID: G1462-10

Level (low/med): MED Date Received: 09/06/2008

% Solids: 69.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7010		E	P
7440-36-0	Antimony	1.8		N	P
7440-38-2	Arsenic	30.5			P
7440-39-3	Barium	53.0		E	P
7440-41-7	Beryllium	1.4		E	P
7440-43-9	Cadmium	1.3			P
7440-70-2	Calcium	31500			P
7440-47-3	Chromium	25.9		E	P
7440-48-4	Cobalt	18.3		N	P
7440-50-8	Copper	1890		E	P
7439-89-6	Iron	39000		E	P
7439-92-1	Lead	216		E	P
7439-95-4	Magnesium	1960		E	P
7439-96-5	Manganese	146		E	P
7439-97-6	Mercury	0.70			CV
7440-02-0	Nickel	42.2		NE	P
7440-09-7	Potassium	508			P
7782-49-2	Selenium	8.3			P
7440-22-4	Silver	0.57	B		P
7440-23-5	Sodium	103			P
7440-28-0	Thallium	0.50	B	N	P
7440-62-2	Vanadium	19.5		E	P
7440-66-6	Zinc	1460		N*E	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-12 (16-20)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1462

Matrix (soil/water): SOIL Lab Sample ID: G1462-11

Level (low/med): MED Date Received: 09/06/2008

% Solids: 85.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4290		E	P
7440-36-0	Antimony	0.57	B	N	P
7440-38-2	Arsenic	5.6			P
7440-39-3	Barium	54.4		E	P
7440-41-7	Beryllium	0.30		E	P
7440-43-9	Cadmium	0.76			P
7440-70-2	Calcium	22700			P
7440-47-3	Chromium	18.2		E	P
7440-48-4	Cobalt	3.9		N	P
7440-50-8	Copper	215		E	P
7439-89-6	Iron	45100		E	P
7439-92-1	Lead	97.8		E	P
7439-95-4	Magnesium	1150		E	P
7439-96-5	Manganese	649		E	P
7439-97-6	Mercury	0.072			CV
7440-02-0	Nickel	21.5		NE	P
7440-09-7	Potassium	401			P
7782-49-2	Selenium	0.64	U		P
7440-22-4	Silver	0.12	U		P
7440-23-5	Sodium	97.0			P
7440-28-0	Thallium	0.37	U	N	P
7440-62-2	Vanadium	10.2		E	P
7440-66-6	Zinc	237		N*E	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-13 (17-19)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1462

Matrix (soil/water): SOIL Lab Sample ID: G1462-12

Level (low/med): MED Date Received: 09/06/2008

% Solids: 85.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1590		E	P
7440-36-0	Antimony	0.52	B	N	P
7440-38-2	Arsenic	2.6			P
7440-39-3	Barium	32.7		E	P
7440-41-7	Beryllium	0.16	B	E	P
7440-43-9	Cadmium	0.086	B		P
7440-70-2	Calcium	241000			P
7440-47-3	Chromium	4.0		E	P
7440-48-4	Cobalt	0.87	B	N	P
7440-50-8	Copper	82.2		E	P
7439-89-6	Iron	5190		E	P
7439-92-1	Lead	148		E	P
7439-95-4	Magnesium	2110		E	P
7439-96-5	Manganese	114		E	P
7439-97-6	Mercury	0.22			CV
7440-02-0	Nickel	4.5		NE	P
7440-09-7	Potassium	199			P
7782-49-2	Selenium	2.9			P
7440-22-4	Silver	0.12	U		P
7440-23-5	Sodium	70.4			P
7440-28-0	Thallium	1.0	B	N	P
7440-62-2	Vanadium	3.4		E	P
7440-66-6	Zinc	41.2		N*E	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-14 (24-25)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1462

Matrix (soil/water): SOIL Lab Sample ID: G1462-13

Level (low/med): MED Date Received: 09/06/2008

% Solids: 79.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5640		E	P
7440-36-0	Antimony	0.66	B	N	P
7440-38-2	Arsenic	4.5			P
7440-39-3	Barium	96.1		E	P
7440-41-7	Beryllium	0.58		E	P
7440-43-9	Cadmium	0.70			P
7440-70-2	Calcium	9240			P
7440-47-3	Chromium	16.6		E	P
7440-48-4	Cobalt	7.0		N	P
7440-50-8	Copper	390		E	P
7439-89-6	Iron	17400		E	P
7439-92-1	Lead	231		E	P
7439-95-4	Magnesium	1920		E	P
7439-96-5	Manganese	252		E	P
7439-97-6	Mercury	3.6			CV
7440-02-0	Nickel	17.9		NE	P
7440-09-7	Potassium	606			P
7782-49-2	Selenium	0.75	U		P
7440-22-4	Silver	0.34	B		P
7440-23-5	Sodium	54.3	B		P
7440-28-0	Thallium	0.44	U	N	P
7440-62-2	Vanadium	10.7		E	P
7440-66-6	Zinc	651		N*E	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-16 (0-4)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1462

Matrix (soil/water): SOIL Lab Sample ID: G1462-14

Level (low/med): MED Date Received: 09/06/2008

% Solids: 93.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2540		E	P
7440-36-0	Antimony	0.39	B	N	P
7440-38-2	Arsenic	4.1			P
7440-39-3	Barium	26.1		E	P
7440-41-7	Beryllium	0.19	B	E	P
7440-43-9	Cadmium	0.33			P
7440-70-2	Calcium	97300			P
7440-47-3	Chromium	14.1		E	P
7440-48-4	Cobalt	3.7		N	P
7440-50-8	Copper	35.5		E	P
7439-89-6	Iron	15400		E	P
7439-92-1	Lead	39.9		E	P
7439-95-4	Magnesium	1370		E	P
7439-96-5	Manganese	219		E	P
7439-97-6	Mercury	0.10			CV
7440-02-0	Nickel	13.5		NE	P
7440-09-7	Potassium	204			P
7782-49-2	Selenium	0.87	B		P
7440-22-4	Silver	0.11	U		P
7440-23-5	Sodium	71.4			P
7440-28-0	Thallium	0.42	B	N	P
7440-62-2	Vanadium	5.0		E	P
7440-66-6	Zinc	61.3		N*E	P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-17 (8-11.5)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1462

Matrix (soil/water): SOIL Lab Sample ID: G1462-15

Level (low/med): MED Date Received: 09/06/2008

% Solids: 90.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4680		E	P
7440-36-0	Antimony	0.93	B	N	P
7440-38-2	Arsenic	7.7			P
7440-39-3	Barium	48.7		E	P
7440-41-7	Beryllium	0.40		E	P
7440-43-9	Cadmium	0.67			P
7440-70-2	Calcium	117000			P
7440-47-3	Chromium	10.6		E	P
7440-48-4	Cobalt	3.5		N	P
7440-50-8	Copper	655		E	P
7439-89-6	Iron	39300		E	P
7439-92-1	Lead	144		E	P
7439-95-4	Magnesium	3210		E	P
7439-96-5	Manganese	453		E	P
7439-97-6	Mercury	0.064			CV
7440-02-0	Nickel	9.7		NE	P
7440-09-7	Potassium	736			P
7782-49-2	Selenium	0.60	U		P
7440-22-4	Silver	0.11	U		P
7440-23-5	Sodium	171			P
7440-28-0	Thallium	0.35	U	N	P
7440-62-2	Vanadium	17.3		E	P
7440-66-6	Zinc	129		N*E	P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-18 (22.5-24.3)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1462

Matrix (soil/water): SOIL Lab Sample ID: G1462-16

Level (low/med): MED Date Received: 09/06/2008

% Solids: 84.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7560		E	P
7440-36-0	Antimony	0.11	U	N	P
7440-38-2	Arsenic	2.2			P
7440-39-3	Barium	61.4		E	P
7440-41-7	Beryllium	0.62		E	P
7440-43-9	Cadmium	0.19	B		P
7440-70-2	Calcium	50900			P
7440-47-3	Chromium	8.7		E	P
7440-48-4	Cobalt	6.5		N	P
7440-50-8	Copper	19.1		E	P
7439-89-6	Iron	17300		E	P
7439-92-1	Lead	7.8		E	P
7439-95-4	Magnesium	4250		E	P
7439-96-5	Manganese	407		E	P
7439-97-6	Mercury	0.0069	U		CV
7440-02-0	Nickel	9.7		NE	P
7440-09-7	Potassium	789			P
7782-49-2	Selenium	0.75	B		P
7440-22-4	Silver	0.090	U		P
7440-23-5	Sodium	98.5			P
7440-28-0	Thallium	0.29	U	N	P
7440-62-2	Vanadium	12.9		E	P
7440-66-6	Zinc	81.0		N*E	P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-19 (0-4)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1522

Matrix (soil/water): SOIL Lab Sample ID: G1522-03

Level (low/med): MED Date Received: 09/11/2008

% Solids: 93.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7290			P
7440-36-0	Antimony	1.6		N	P
7440-38-2	Arsenic	9.4			P
7440-39-3	Barium	87.4		E	P
7440-41-7	Beryllium	0.44		E	P
7440-43-9	Cadmium	0.50			P
7440-70-2	Calcium	22600			P
7440-47-3	Chromium	19.4		E	P
7440-48-4	Cobalt	4.0			P
7440-50-8	Copper	186		*	P
7439-89-6	Iron	34800		E	P
7439-92-1	Lead	250		N*E	P
7439-95-4	Magnesium	1390		E	P
7439-96-5	Manganese	982		E	P
7439-97-6	Mercury	0.20		*	CV
7440-02-0	Nickel	12.7		E	P
7440-09-7	Potassium	696			P
7782-49-2	Selenium	0.62	U		P
7440-22-4	Silver	0.12	U		P
7440-23-5	Sodium	145			P
7440-28-0	Thallium	0.87	B		P
7440-62-2	Vanadium	26.7			P
7440-66-6	Zinc	198		NE	P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-19 (10-15)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1522

Matrix (soil/water): SOIL Lab Sample ID: G1522-01

Level (low/med): MED Date Received: 09/11/2008

% Solids: 75.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7600			P
7440-36-0	Antimony	0.58	B	N	P
7440-38-2	Arsenic	3.3			P
7440-39-3	Barium	45.5		E	P
7440-41-7	Beryllium	0.46		E	P
7440-43-9	Cadmium	0.15	B		P
7440-70-2	Calcium	28500			P
7440-47-3	Chromium	9.5		E	P
7440-48-4	Cobalt	4.2			P
7440-50-8	Copper	36.0		*	P
7439-89-6	Iron	13500		E	P
7439-92-1	Lead	60.4		N*E	P
7439-95-4	Magnesium	2760		E	P
7439-96-5	Manganese	208		E	P
7439-97-6	Mercury	0.29		*	CV
7440-02-0	Nickel	8.6		E	P
7440-09-7	Potassium	872			P
7782-49-2	Selenium	0.65	U		P
7440-22-4	Silver	0.12	U		P
7440-23-5	Sodium	84.2			P
7440-28-0	Thallium	0.37	U		P
7440-62-2	Vanadium	15.0			P
7440-66-6	Zinc	78.1		NE	P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-20 (15-16.7)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1522

Matrix (soil/water): SOIL Lab Sample ID: G1522-02

Level (low/med): MED Date Received: 09/11/2008

% Solids: 84.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3560			P
7440-36-0	Antimony	4.6		N	P
7440-38-2	Arsenic	13.2			P
7440-39-3	Barium	25.0		E	P
7440-41-7	Beryllium	0.24	B	E	P
7440-43-9	Cadmium	1.0			P
7440-70-2	Calcium	9040			P
7440-47-3	Chromium	13.2		E	P
7440-48-4	Cobalt	6.7			P
7440-50-8	Copper	836		*	P
7439-89-6	Iron	115000		E	P
7439-92-1	Lead	144		N*E	P
7439-95-4	Magnesium	983		E	P
7439-96-5	Manganese	400		E	P
7439-97-6	Mercury	0.094		*	CV
7440-02-0	Nickel	17.0		E	P
7440-09-7	Potassium	376			P
7782-49-2	Selenium	0.64	U		P
7440-22-4	Silver	0.12	U		P
7440-23-5	Sodium	69.1			P
7440-28-0	Thallium	0.37	U		P
7440-62-2	Vanadium	25.9			P
7440-66-6	Zinc	363		NE	P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-25 (4-7.2)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1522

Matrix (soil/water): SOIL Lab Sample ID: G1522-04

Level (low/med): MED Date Received: 09/11/2008

% Solids: 87.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2600			P
7440-36-0	Antimony	0.15	U	N	P
7440-38-2	Arsenic	1.4			P
7440-39-3	Barium	15.3		E	P
7440-41-7	Beryllium	0.16	B	E	P
7440-43-9	Cadmium	0.033	B		P
7440-70-2	Calcium	137000			P
7440-47-3	Chromium	4.6		E	P
7440-48-4	Cobalt	1.6	B		P
7440-50-8	Copper	25.9		*	P
7439-89-6	Iron	8210		E	P
7439-92-1	Lead	12.2		N*E	P
7439-95-4	Magnesium	7510		E	P
7439-96-5	Manganese	282		E	P
7439-97-6	Mercury	0.013	B	*	CV
7440-02-0	Nickel	4.3		E	P
7440-09-7	Potassium	516			P
7782-49-2	Selenium	0.62	U		P
7440-22-4	Silver	0.11	U		P
7440-23-5	Sodium	99.6			P
7440-28-0	Thallium	0.73	B		P
7440-62-2	Vanadium	6.2			P
7440-66-6	Zinc	24.4		NE	P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-26 (10-14)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1522

Matrix (soil/water): SOIL Lab Sample ID: G1522-11

Level (low/med): MED Date Received: 09/11/2008

% Solids: 77.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	15100			P
7440-36-0	Antimony	0.16	U	N	P
7440-38-2	Arsenic	4.3			P
7440-39-3	Barium	74.4		E	P
7440-41-7	Beryllium	1.4		E	P
7440-43-9	Cadmium	0.41			P
7440-70-2	Calcium	16000			P
7440-47-3	Chromium	11.9		E	P
7440-48-4	Cobalt	5.4			P
7440-50-8	Copper	8.8		*	P
7439-89-6	Iron	24000		E	P
7439-92-1	Lead	20.1		N*E	P
7439-95-4	Magnesium	2640		E	P
7439-96-5	Manganese	400		E	P
7439-97-6	Mercury	0.13		*	CV
7440-02-0	Nickel	10.4		E	P
7440-09-7	Potassium	689			P
7782-49-2	Selenium	0.66	U		P
7440-22-4	Silver	0.12	U		P
7440-23-5	Sodium	173			P
7440-28-0	Thallium	0.39	U		P
7440-62-2	Vanadium	16.7			P
7440-66-6	Zinc	92.5		NE	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-29 (12-14.5)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1522

Matrix (soil/water): SOIL Lab Sample ID: G1522-12

Level (low/med): MED Date Received: 09/11/2008

% Solids: 82.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14800			P
7440-36-0	Antimony	0.13	U	N	P
7440-38-2	Arsenic	3.3			P
7440-39-3	Barium	105		E	P
7440-41-7	Beryllium	0.82		E	P
7440-43-9	Cadmium	0.11	B		P
7440-70-2	Calcium	26300			P
7440-47-3	Chromium	17.8		E	P
7440-48-4	Cobalt	7.5			P
7440-50-8	Copper	21.0		*	P
7439-89-6	Iron	27000		E	P
7439-92-1	Lead	15.3		N*E	P
7439-95-4	Magnesium	4810		E	P
7439-96-5	Manganese	411		E	P
7439-97-6	Mercury	0.018	B	*	CV
7440-02-0	Nickel	15.2		E	P
7440-09-7	Potassium	1690			P
7782-49-2	Selenium	0.59	U		P
7440-22-4	Silver	0.11	U		P
7440-23-5	Sodium	195			P
7440-28-0	Thallium	0.72	B		P
7440-62-2	Vanadium	28.3			P
7440-66-6	Zinc	69.1		NE	P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-30 (12-14)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1522

Matrix (soil/water): SOIL Lab Sample ID: G1522-13

Level (low/med): MED Date Received: 09/11/2008

% Solids: 93.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6110			P
7440-36-0	Antimony	0.41	B	N	P
7440-38-2	Arsenic	3.5			P
7440-39-3	Barium	23.8		E	P
7440-41-7	Beryllium	0.30		E	P
7440-43-9	Cadmium	0.23			P
7440-70-2	Calcium	2490			P
7440-47-3	Chromium	11.5		E	P
7440-48-4	Cobalt	2.8			P
7440-50-8	Copper	97.8		*	P
7439-89-6	Iron	53000		E	P
7439-92-1	Lead	54.8		N*E	P
7439-95-4	Magnesium	1270		E	P
7439-96-5	Manganese	488		E	P
7439-97-6	Mercury	2.9		*	CV
7440-02-0	Nickel	9.2		E	P
7440-09-7	Potassium	685			P
7782-49-2	Selenium	0.52	U		P
7440-22-4	Silver	0.096	U		P
7440-23-5	Sodium	109			P
7440-28-0	Thallium	0.30	U		P
7440-62-2	Vanadium	18.3			P
7440-66-6	Zinc	84.7		NE	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-31 (12-15.4)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1523

Matrix (soil/water): SOIL Lab Sample ID: G1523-10

Level (low/med): MED Date Received: 09/11/2008

% Solids: 74.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6740			P
7440-36-0	Antimony	0.62	B	N	P
7440-38-2	Arsenic	5.7			P
7440-39-3	Barium	62.6			P
7440-41-7	Beryllium	0.61			P
7440-43-9	Cadmium	0.20	B		P
7440-70-2	Calcium	4470		*	P
7440-47-3	Chromium	8.8			P
7440-48-4	Cobalt	4.1			P
7440-50-8	Copper	841			P
7439-89-6	Iron	19000			P
7439-92-1	Lead	91.3		*	P
7439-95-4	Magnesium	1640			P
7439-96-5	Manganese	126			P
7439-97-6	Mercury	0.34			CV
7440-02-0	Nickel	10.1			P
7440-09-7	Potassium	578			P
7782-49-2	Selenium	0.70	U		P
7440-22-4	Silver	0.13	B		P
7440-23-5	Sodium	99.2			P
7440-28-0	Thallium	0.74	B		P
7440-62-2	Vanadium	15.4			P
7440-66-6	Zinc	114			P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-32 (11-13.9)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1523

Matrix (soil/water): SOIL Lab Sample ID: G1523-07

Level (low/med): MED Date Received: 09/11/2008

% Solids: 89.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3430			P
7440-36-0	Antimony	0.16	U	N	P
7440-38-2	Arsenic	2.0			P
7440-39-3	Barium	16.7			P
7440-41-7	Beryllium	0.26	B		P
7440-43-9	Cadmium	0.048	B		P
7440-70-2	Calcium	169000		*	P
7440-47-3	Chromium	3.9			P
7440-48-4	Cobalt	1.1	B		P
7440-50-8	Copper	40.4			P
7439-89-6	Iron	6820			P
7439-92-1	Lead	13.6		*	P
7439-95-4	Magnesium	2370			P
7439-96-5	Manganese	72.5			P
7439-97-6	Mercury	0.26			CV
7440-02-0	Nickel	3.7			P
7440-09-7	Potassium	369			P
7782-49-2	Selenium	0.65	U		P
7440-22-4	Silver	0.12	U		P
7440-23-5	Sodium	69.3			P
7440-28-0	Thallium	1.3			P
7440-62-2	Vanadium	6.0			P
7440-66-6	Zinc	43.5			P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-33 (10-12.3)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1523

Matrix (soil/water): SOIL Lab Sample ID: G1523-11

Level (low/med): MED Date Received: 09/11/2008

% Solids: 90.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5220			P
7440-36-0	Antimony	34.3		N	P
7440-38-2	Arsenic	6.9			P
7440-39-3	Barium	37.6			P
7440-41-7	Beryllium	0.37			P
7440-43-9	Cadmium	0.23			P
7440-70-2	Calcium	112000		*	P
7440-47-3	Chromium	6.7			P
7440-48-4	Cobalt	2.8			P
7440-50-8	Copper	219			P
7439-89-6	Iron	21100			P
7439-92-1	Lead	313		*	P
7439-95-4	Magnesium	2730			P
7439-96-5	Manganese	220			P
7439-97-6	Mercury	0.0063	U		CV
7440-02-0	Nickel	8.6			P
7440-09-7	Potassium	458			P
7782-49-2	Selenium	0.48	U		P
7440-22-4	Silver	0.087	U		P
7440-23-5	Sodium	113			P
7440-28-0	Thallium	0.81			P
7440-62-2	Vanadium	10.3			P
7440-66-6	Zinc	158			P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-34 (16-22)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1523

Matrix (soil/water): SOIL Lab Sample ID: G1523-08

Level (low/med): MED Date Received: 09/11/2008

% Solids: 79.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4550			P
7440-36-0	Antimony	0.53	B	N	P
7440-38-2	Arsenic	5.8			P
7440-39-3	Barium	73.0			P
7440-41-7	Beryllium	0.37			P
7440-43-9	Cadmium	0.22	B		P
7440-70-2	Calcium	60400		*	P
7440-47-3	Chromium	10			P
7440-48-4	Cobalt	4.0			P
7440-50-8	Copper	674			P
7439-89-6	Iron	13000			P
7439-92-1	Lead	130		*	P
7439-95-4	Magnesium	4050			P
7439-96-5	Manganese	233			P
7439-97-6	Mercury	0.35			CV
7440-02-0	Nickel	9.8			P
7440-09-7	Potassium	806			P
7782-49-2	Selenium	0.62	U		P
7440-22-4	Silver	0.11	U		P
7440-23-5	Sodium	102			P
7440-28-0	Thallium	0.35	U		P
7440-62-2	Vanadium	11.4			P
7440-66-6	Zinc	110			P

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-35 (18-20)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1550

Matrix (soil/water): SOIL Lab Sample ID: G1550-01

Level (low/med): MED Date Received: 09/13/2008

% Solids: 86.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12700			NR
7440-36-0	Antimony	0.34	B	N	NR
7440-38-2	Arsenic	2.9			NR
7440-39-3	Barium	102		E	NR
7440-41-7	Beryllium	1.1		E	NR
7440-43-9	Cadmium	0.22	B		NR
7440-70-2	Calcium	26800		*	NR
7440-47-3	Chromium	16.6		E	NR
7440-48-4	Cobalt	7.1		E	NR
7440-50-8	Copper	17.8			NR
7439-89-6	Iron	26700			NR
7439-92-1	Lead	6.2		E	P
7439-95-4	Magnesium	7650		E	NR
7439-96-5	Manganese	463		E	NR
7439-97-6	Mercury	0.012	B		NR
7440-02-0	Nickel	15.0		E	NR
7440-09-7	Potassium	2530			NR
7782-49-2	Selenium	3.0			NR
7440-22-4	Silver	0.11	U		NR
7440-23-5	Sodium	380			NR
7440-28-0	Thallium	0.51	B		NR
7440-62-2	Vanadium	26.4		E	NR
7440-66-6	Zinc	44.6		E	NR

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-36 (18-20.9)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1549

Matrix (soil/water): SOIL Lab Sample ID: G1549-19

Level (low/med): MED Date Received: 09/13/2008

% Solids: 82.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12300			P
7440-36-0	Antimony	0.13	B	N	P
7440-38-2	Arsenic	2.6			P
7440-39-3	Barium	91.4			P
7440-41-7	Beryllium	0.91		E	P
7440-43-9	Cadmium	0.18	B	E	P
7440-70-2	Calcium	40200		*	P
7440-47-3	Chromium	16.0			P
7440-48-4	Cobalt	6.1		E	P
7440-50-8	Copper	16.1		N	P
7439-89-6	Iron	24000		*	P
7439-92-1	Lead	5.8		E	P
7439-95-4	Magnesium	7790			P
7439-96-5	Manganese	380		E	P
7439-97-6	Mercury	0.015	B	*	CV
7440-02-0	Nickel	13.1		E	P
7440-09-7	Potassium	1900			P
7782-49-2	Selenium	2.2			P
7440-22-4	Silver	0.11	U		P
7440-23-5	Sodium	952			P
7440-28-0	Thallium	0.34	U		P
7440-62-2	Vanadium	23.9			P
7440-66-6	Zinc	39.6		NE	P

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-SB-37 (14-15.5)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1549

Matrix (soil/water): SOIL Lab Sample ID: G1549-20

Level (low/med): MED Date Received: 09/13/2008

% 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	2540			P
7440-36-0	Antimony	0.16	B	N	P
7440-38-2	Arsenic	1.4			P
7440-39-3	Barium	19.3			P
7440-41-7	Beryllium	0.21	B	E	P
7440-43-9	Cadmium	0.059	B	E	P
7440-70-2	Calcium	121000		*	P
7440-47-3	Chromium	2.7			P
7440-48-4	Cobalt	1.5	B	E	P
7440-50-8	Copper	34.6		N	P
7439-89-6	Iron	6230		*	P
7439-92-1	Lead	25.6		E	P
7439-95-4	Magnesium	1240			P
7439-96-5	Manganese	106		E	P
7439-97-6	Mercury	0.17		*	CV
7440-02-0	Nickel	3.5		E	P
7440-09-7	Potassium	305			P
7782-49-2	Selenium	0.71	U		P
7440-22-4	Silver	0.13	U		P
7440-23-5	Sodium	65.4			P
7440-28-0	Thallium	0.41	U		P
7440-62-2	Vanadium	5.0			P
7440-66-6	Zinc	24.4		NE	P

Comments:

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-WB1 (6-8.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1550

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1550-02B

Sample wt/vol: 5.30 (g/mL) G Lab File ID: V5K1097.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 21 Date Analyzed: 09/23/2008

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	6.0	U
74-88-4	Iodomethane	6.0	U
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
108-05-4	Vinyl acetate	6.0	U
78-93-3	2-Butanone	6.0	U
156-59-2	cis-1,2-Dichloroethene	6.0	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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	5.7	J
78-87-5	1,2-Dichloropropane	6.0	U
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	6.0	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-WB1 (6-8.5)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1550

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1550-02B

Sample wt/vol: 5.30 (g/mL) G

Lab File ID: V5K1097.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/13/2008

% Moisture: not dec. 21

Date Analyzed: 09/23/2008

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
127-18-4	Tetrachloroethene	6.0	U
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
630-20-6	1,1,1,2-Tetrachloroethane	6.0	U
100-41-4	Ethylbenzene	6.0	U
1330-20-7	m,p-Xylene	6.0	U
95-47-6	o-Xylene	6.0	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	6.0	U
96-18-4	1,2,3-Trichloropropane	6.0	U
103-65-1	n-Propylbenzene	6.0	U
95-49-8	2-Chlorotoluene	6.0	U
108-67-8	1,3,5-Trimethylbenzene	6.0	U
106-43-4	4-Chlorotoluene	6.0	U
98-06-6	tert-Butylbenzene	6.0	U
95-63-6	1,2,4-Trimethylbenzene	6.0	U
135-98-8	sec-Butylbenzene	6.0	U
99-87-6	4-Isopropyltoluene	6.0	U
541-73-1	1,3-Dichlorobenzene	6.0	U
106-46-7	1,4-Dichlorobenzene	6.0	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	6.0	U
87-61-6	1,2,3-Trichlorobenzene	6.0	U
91-20-3	Naphthalene	6.0	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-WB1 (6-8.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1550

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1550-02B

Sample wt/vol: 5.30 (g/mL) G Lab File ID: V5K1097.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 21 Date Analyzed: 09/23/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-WB-03 (17-18)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM Case No.:

Mod. Ref No.: SDG No.: MG1621

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1621-01B

Sample wt/vol: 5.25 (g/mL) G

Lab File ID: V6G1197.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/20/2008

% Moisture: not dec. 8.0

Date Analyzed: 10/01/2008

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	5.2	U
74-87-3	Chloromethane	5.2	U
75-01-4	Vinyl chloride	5.2	U
74-83-9	Bromomethane	5.2	U
75-00-3	Chloroethane	5.2	U
75-69-4	Trichlorofluoromethane	5.2	U
75-35-4	1,1-Dichloroethene	5.2	U
67-64-1	Acetone	5.2	U
74-88-4	Iodomethane	5.2	U
75-15-0	Carbon disulfide	5.2	U
75-09-2	Methylene chloride	4.8	J
156-60-5	trans-1,2-Dichloroethene	5.2	U
1634-04-4	Methyl tert-butyl ether	5.2	U
75-34-3	1,1-Dichloroethane	5.2	U
108-05-4	Vinyl acetate	5.2	U
78-93-3	2-Butanone	5.2	U
156-59-2	cis-1,2-Dichloroethene	5.2	U
594-20-7	2,2-Dichloropropane	5.2	U
74-97-5	Bromochloromethane	5.2	U
67-66-3	Chloroform	5.2	U
71-55-6	1,1,1-Trichloroethane	5.2	U
563-58-6	1,1-Dichloropropene	5.2	U
56-23-5	Carbon tetrachloride	5.2	U
107-06-2	1,2-Dichloroethane	5.2	U
71-43-2	Benzene	5.2	U
79-01-6	Trichloroethene	2.4	J
78-87-5	1,2-Dichloropropane	5.2	U
74-95-3	Dibromomethane	5.2	U
75-27-4	Bromodichloromethane	5.2	U
10061-01-5	cis-1,3-Dichloropropene	5.2	U
108-10-1	4-Methyl-2-pentanone	5.2	U
108-88-3	Toluene	5.2	U
10061-02-6	trans-1,3-Dichloropropene	5.2	U
79-00-5	1,1,2-Trichloroethane	5.2	U
142-28-9	1,3-Dichloropropane	5.2	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-WB-03 (17-18)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1621

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1621-01B

Sample wt/vol: 5.25 (g/mL) G Lab File ID: V6G1197.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/20/2008

% Moisture: not dec. 8.0 Date Analyzed: 10/01/2008

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
127-18-4	Tetrachloroethene	5.2	U
591-78-6	2-Hexanone	5.2	U
124-48-1	Dibromochloromethane	5.2	U
106-93-4	1,2-Dibromoethane	5.2	U
108-90-7	Chlorobenzene	5.2	U
630-20-6	1,1,1,2-Tetrachloroethane	5.2	U
100-41-4	Ethylbenzene	5.2	U
1330-20-7	m,p-Xylene	5.2	U
95-47-6	o-Xylene	5.2	U
1330-20-7	Xylene (Total)	5.2	U
100-42-5	Styrene	5.2	U
75-25-2	Bromoform	5.2	U
98-82-8	Isopropylbenzene	5.2	U
79-34-5	1,1,2,2-Tetrachloroethane	5.2	U
108-86-1	Bromobenzene	5.2	U
96-18-4	1,2,3-Trichloropropane	5.2	U
103-65-1	n-Propylbenzene	5.2	U
95-49-8	2-Chlorotoluene	5.2	U
108-67-8	1,3,5-Trimethylbenzene	5.2	U
106-43-4	4-Chlorotoluene	5.2	U
98-06-6	tert-Butylbenzene	5.2	U
95-63-6	1,2,4-Trimethylbenzene	5.2	U
135-98-8	sec-Butylbenzene	5.2	U
99-87-6	4-Isopropyltoluene	5.2	U
541-73-1	1,3-Dichlorobenzene	5.2	U
106-46-7	1,4-Dichlorobenzene	5.2	U
104-51-8	n-Butylbenzene	5.2	U
95-50-1	1,2-Dichlorobenzene	5.2	U
96-12-8	1,2-Dibromo-3-chloropropane	5.2	U
120-82-1	1,2,4-Trichlorobenzene	5.2	U
87-68-3	Hexachlorobutadiene	5.2	U
87-61-6	1,2,3-Trichlorobenzene	5.2	U
91-20-3	Naphthalene	5.2	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-WB-03 (17-18)

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1621
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1621-01B
Sample wt/vol: 5.25 (g/mL) G
Lab File ID: V6G1197.D
Level: (TRACE or LOW/MED) LOW
Date Received: 09/20/2008
% Moisture: not dec. 8.0
Date Analyzed: 10/01/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-WB1 (6-8.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1550

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1550-02A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2861.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/28/2008

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
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
95-50-1	1,2-Dichlorobenzene	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
120-82-1	1,2,4-Trichlorobenzene	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

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-WB1 (6-8.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1550

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1550-02A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2861.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
86-73-7	Fluorene	420	U
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	420	U
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

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-WB1 (6-8.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1550

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1550-02A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2861.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	112-84-5	13-Docosenamide, (Z)-	14.765	340	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-WB-03 (17-18)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1621

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1621-01A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F3110.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8.0 Decanted: (Y/N) N Date Received: 09/20/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/23/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/08/2008

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	360	U
111-44-4	Bis(2-chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2´-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	95	J
106-47-8	4-Chloroaniline	360	U
111-91-1	Bis(2-chloroethoxy)methane	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	130	J
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	720	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	720	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	720	U
83-32-9	Acenaphthene	360	U
51-28-5	2,4-Dinitrophenol	720	U
100-02-7	4-Nitrophenol	720	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-WB-03 (17-18)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1621

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1621-01A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F3110.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8.0 Decanted: (Y/N) N Date Received: 09/20/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/23/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/08/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	720	U
534-52-1	4,6-Dinitro-2-methylphenol	720	U
86-30-6	N-Nitrosodiphenylamine	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	720	U
85-01-8	Phenanthrene	410	
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	660	
129-00-0	Pyrene	560	
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3´-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	460	
218-01-9	Chrysene	570	
117-81-7	Bis(2-ethylhexyl)phthalate	360	U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	1000	
207-08-9	Benzo(k)fluoranthene	400	
50-32-8	Benzo(a)pyrene	690	
193-39-5	Indeno(1,2,3-cd)pyrene	650	
53-70-3	Dibenzo(a,h)anthracene	230	J
191-24-2	Benzo(g,h,i)perylene	780	

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-WB-03 (17-18)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1621

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1621-01A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F3110.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8.0 Decanted: (Y/N) N Date Received: 09/20/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/23/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/08/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	143-07-7	Dodecanoic acid	9.864	170	NJ
02		Unknown-01	10.756	160	J
03	629-59-4	Tetradecane	11.686	150	NJ
04	112-95-8	Eicosane	12.070	200	NJ
05		Unknown-02	14.373	2300	J
06	544-76-3	Hexadecane	14.635	180	NJ
07	192-97-2	Benzo[e]pyrene	14.731	510	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-WB1 (6-8.5)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1550

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1550-02A

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: E3F6567F.D/E3F6567R.D

% Moisture: 21

Decanted: (Y/N) N

Date Received: 09/13/2008

Extraction: (Type) SONC

Date Extracted: 09/17/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 10/01/2008

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

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-WB-03 (17-18)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1621

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1621-01A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: E3F6702F.D/E3F6702R.D

% Moisture: 8.0 Decanted: (Y/N) N Date Received: 09/20/2008

Extraction: (Type) SONC Date Extracted: 09/24/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/05/2008

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	35	U
11104-28-2	Aroclor-1221	35	U
11141-16-5	Aroclor-1232	35	U
53469-21-9	Aroclor-1242	35	U
12672-29-6	Aroclor-1248	35	U
11097-69-1	Aroclor-1254	35	U
11096-82-5	Aroclor-1260	35	U

SW846

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-WB1 (6-8.5)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1550

Matrix (soil/water): SOIL Lab Sample ID: G1550-02

Level (low/med): MED Date Received: 09/13/2008

% Solids: 79.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	17800			NR
7440-36-0	Antimony	0.36	B	N	NR
7440-38-2	Arsenic	4.0			NR
7440-39-3	Barium	137		E	NR
7440-41-7	Beryllium	1.6		E	NR
7440-43-9	Cadmium	0.38			NR
7440-70-2	Calcium	4850		*	NR
7440-47-3	Chromium	21.6		E	NR
7440-48-4	Cobalt	9.2		E	NR
7440-50-8	Copper	23.4			NR
7439-89-6	Iron	36300			NR
7439-92-1	Lead	8.5		E	P
7439-95-4	Magnesium	5990		E	NR
7439-96-5	Manganese	565		E	NR
7439-97-6	Mercury	0.034	B		NR
7440-02-0	Nickel	19.4		E	NR
7440-09-7	Potassium	2420			NR
7782-49-2	Selenium	4.1			NR
7440-22-4	Silver	0.12	U		NR
7440-23-5	Sodium	267			NR
7440-28-0	Thallium	0.57	B		NR
7440-62-2	Vanadium	36.4		E	NR
7440-66-6	Zinc	68.4		E	NR

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-WB-03 (17-18)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1621

Matrix (soil/water): SOIL Lab Sample ID: G1621-01

Level (low/med): MED Date Received: 09/20/2008

% Solids: 92.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6500			P
7440-36-0	Antimony	0.97			P
7440-38-2	Arsenic	6.9			P
7440-39-3	Barium	42.3			P
7440-41-7	Beryllium	0.55			P
7440-43-9	Cadmium	0.74			P
7440-70-2	Calcium	4680			P
7440-47-3	Chromium	14.2			P
7440-48-4	Cobalt	3.5			P
7440-50-8	Copper	156			P
7439-89-6	Iron	55500			P
7439-92-1	Lead	124			P
7439-95-4	Magnesium	991			P
7439-96-5	Manganese	984			P
7439-97-6	Mercury	0.36			CV
7440-02-0	Nickel	19.2			P
7440-09-7	Potassium	679			P
7782-49-2	Selenium	2.8			P
7440-22-4	Silver	0.10	U		P
7440-23-5	Sodium	128			P
7440-28-0	Thallium	0.33	U		P
7440-62-2	Vanadium	26.3			P
7440-66-6	Zinc	104			P

Comments:

TEST PIT SOIL SAMPLE RESULTS 2008

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-01 (4)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-08B

Sample wt/vol: 5.09 (g/mL) G Lab File ID: V6G0819.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 15 Date Analyzed: 09/18/2008

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	5.8	U
74-87-3	Chloromethane	5.8	U
75-01-4	Vinyl chloride	5.8	U
74-83-9	Bromomethane	5.8	U
75-00-3	Chloroethane	5.8	U
75-69-4	Trichlorofluoromethane	5.8	U
75-35-4	1,1-Dichloroethene	5.8	U
67-64-1	Acetone	5.8	U
74-88-4	Iodomethane	5.8	U
75-15-0	Carbon disulfide	5.8	U
75-09-2	Methylene chloride	3.5	J
156-60-5	trans-1,2-Dichloroethene	5.8	U
1634-04-4	Methyl tert-butyl ether	5.8	U
75-34-3	1,1-Dichloroethane	5.8	U
108-05-4	Vinyl acetate	5.8	U
78-93-3	2-Butanone	5.8	U
156-59-2	cis-1,2-Dichloroethene	5.8	U
594-20-7	2,2-Dichloropropane	5.8	U
74-97-5	Bromochloromethane	5.8	U
67-66-3	Chloroform	5.8	U
71-55-6	1,1,1-Trichloroethane	5.8	U
563-58-6	1,1-Dichloropropene	5.8	U
56-23-5	Carbon tetrachloride	5.8	U
107-06-2	1,2-Dichloroethane	5.8	U
71-43-2	Benzene	5.8	U
79-01-6	Trichloroethene	5.8	U
78-87-5	1,2-Dichloropropane	5.8	U
74-95-3	Dibromomethane	5.8	U
75-27-4	Bromodichloromethane	5.8	U
10061-01-5	cis-1,3-Dichloropropene	5.8	U
108-10-1	4-Methyl-2-pentanone	5.8	U
108-88-3	Toluene	5.8	U
10061-02-6	trans-1,3-Dichloropropene	5.8	U
79-00-5	1,1,2-Trichloroethane	5.8	U
142-28-9	1,3-Dichloropropane	5.8	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-01 (4)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-08B

Sample wt/vol: 5.09 (g/mL) G Lab File ID: V6G0819.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 15 Date Analyzed: 09/18/2008

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
127-18-4	Tetrachloroethene	5.8	U
591-78-6	2-Hexanone	5.8	U
124-48-1	Dibromochloromethane	5.8	U
106-93-4	1,2-Dibromoethane	5.8	U
108-90-7	Chlorobenzene	5.8	U
630-20-6	1,1,1,2-Tetrachloroethane	5.8	U
100-41-4	Ethylbenzene	5.8	U
1330-20-7	m,p-Xylene	5.8	U
95-47-6	o-Xylene	5.8	U
1330-20-7	Xylene (Total)	5.8	U
100-42-5	Styrene	5.8	U
75-25-2	Bromoform	5.8	U
98-82-8	Isopropylbenzene	5.8	U
79-34-5	1,1,2,2-Tetrachloroethane	5.8	U
108-86-1	Bromobenzene	5.8	U
96-18-4	1,2,3-Trichloropropane	5.8	U
103-65-1	n-Propylbenzene	5.8	U
95-49-8	2-Chlorotoluene	5.8	U
108-67-8	1,3,5-Trimethylbenzene	5.8	U
106-43-4	4-Chlorotoluene	5.8	U
98-06-6	tert-Butylbenzene	5.8	U
95-63-6	1,2,4-Trimethylbenzene	5.8	U
135-98-8	sec-Butylbenzene	5.8	U
99-87-6	4-Isopropyltoluene	5.8	U
541-73-1	1,3-Dichlorobenzene	5.8	U
106-46-7	1,4-Dichlorobenzene	5.8	U
104-51-8	n-Butylbenzene	5.8	U
95-50-1	1,2-Dichlorobenzene	5.8	U
96-12-8	1,2-Dibromo-3-chloropropane	5.8	U
120-82-1	1,2,4-Trichlorobenzene	5.8	U
87-68-3	Hexachlorobutadiene	5.8	U
87-61-6	1,2,3-Trichlorobenzene	5.8	U
91-20-3	Naphthalene	5.8	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-01 (4)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-08B

Sample wt/vol: 5.09 (g/mL) G Lab File ID: V6G0819.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 15 Date Analyzed: 09/18/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-02 (15)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-09B

Sample wt/vol: 5.41 (g/mL) G Lab File ID: V6G0820.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 11 Date Analyzed: 09/18/2008

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	5.2	U
74-87-3	Chloromethane	5.2	U
75-01-4	Vinyl chloride	5.2	U
74-83-9	Bromomethane	5.2	U
75-00-3	Chloroethane	5.2	U
75-69-4	Trichlorofluoromethane	5.2	U
75-35-4	1,1-Dichloroethene	5.2	U
67-64-1	Acetone	5.2	U
74-88-4	Iodomethane	5.2	U
75-15-0	Carbon disulfide	5.2	U
75-09-2	Methylene chloride	19	
156-60-5	trans-1,2-Dichloroethene	5.2	U
1634-04-4	Methyl tert-butyl ether	5.2	U
75-34-3	1,1-Dichloroethane	5.2	U
108-05-4	Vinyl acetate	5.2	U
78-93-3	2-Butanone	5.2	U
156-59-2	cis-1,2-Dichloroethene	5.2	U
594-20-7	2,2-Dichloropropane	5.2	U
74-97-5	Bromochloromethane	5.2	U
67-66-3	Chloroform	5.2	U
71-55-6	1,1,1-Trichloroethane	5.2	U
563-58-6	1,1-Dichloropropene	5.2	U
56-23-5	Carbon tetrachloride	5.2	U
107-06-2	1,2-Dichloroethane	5.2	U
71-43-2	Benzene	5.2	U
79-01-6	Trichloroethene	5.2	U
78-87-5	1,2-Dichloropropane	5.2	U
74-95-3	Dibromomethane	5.2	U
75-27-4	Bromodichloromethane	5.2	U
10061-01-5	cis-1,3-Dichloropropene	5.2	U
108-10-1	4-Methyl-2-pentanone	5.2	U
108-88-3	Toluene	5.2	U
10061-02-6	trans-1,3-Dichloropropene	5.2	U
79-00-5	1,1,2-Trichloroethane	5.2	U
142-28-9	1,3-Dichloropropane	5.2	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-02 (15)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-09B

Sample wt/vol: 5.41 (g/mL) G Lab File ID: V6G0820.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 11 Date Analyzed: 09/18/2008

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
127-18-4	Tetrachloroethene	5.2	U
591-78-6	2-Hexanone	5.2	U
124-48-1	Dibromochloromethane	5.2	U
106-93-4	1,2-Dibromoethane	5.2	U
108-90-7	Chlorobenzene	5.2	U
630-20-6	1,1,1,2-Tetrachloroethane	5.2	U
100-41-4	Ethylbenzene	5.2	U
1330-20-7	m,p-Xylene	5.2	U
95-47-6	o-Xylene	5.2	U
1330-20-7	Xylene (Total)	5.2	U
100-42-5	Styrene	5.2	U
75-25-2	Bromoform	5.2	U
98-82-8	Isopropylbenzene	5.2	U
79-34-5	1,1,2,2-Tetrachloroethane	5.2	U
108-86-1	Bromobenzene	5.2	U
96-18-4	1,2,3-Trichloropropane	5.2	U
103-65-1	n-Propylbenzene	5.2	U
95-49-8	2-Chlorotoluene	5.2	U
108-67-8	1,3,5-Trimethylbenzene	5.2	U
106-43-4	4-Chlorotoluene	5.2	U
98-06-6	tert-Butylbenzene	5.2	U
95-63-6	1,2,4-Trimethylbenzene	5.2	U
135-98-8	sec-Butylbenzene	5.2	U
99-87-6	4-Isopropyltoluene	5.2	U
541-73-1	1,3-Dichlorobenzene	5.2	U
106-46-7	1,4-Dichlorobenzene	5.2	U
104-51-8	n-Butylbenzene	5.2	U
95-50-1	1,2-Dichlorobenzene	5.2	U
96-12-8	1,2-Dibromo-3-chloropropane	5.2	U
120-82-1	1,2,4-Trichlorobenzene	5.2	U
87-68-3	Hexachlorobutadiene	5.2	U
87-61-6	1,2,3-Trichlorobenzene	5.2	U
91-20-3	Naphthalene	5.2	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-02 (15)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-09B

Sample wt/vol: 5.41 (g/mL) G Lab File ID: V6G0820.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 11 Date Analyzed: 09/18/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-02A (1)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-10B

Sample wt/vol: 5.21 (g/mL) G Lab File ID: V6G0821.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 8.0 Date Analyzed: 09/18/2008

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	5.2	U
74-87-3	Chloromethane	5.2	U
75-01-4	Vinyl chloride	5.2	U
74-83-9	Bromomethane	5.2	U
75-00-3	Chloroethane	5.2	U
75-69-4	Trichlorofluoromethane	5.2	U
75-35-4	1,1-Dichloroethene	5.2	U
67-64-1	Acetone	5.2	U
74-88-4	Iodomethane	5.2	U
75-15-0	Carbon disulfide	5.2	U
75-09-2	Methylene chloride	7.2	
156-60-5	trans-1,2-Dichloroethene	5.2	U
1634-04-4	Methyl tert-butyl ether	5.2	U
75-34-3	1,1-Dichloroethane	5.2	U
108-05-4	Vinyl acetate	5.2	U
78-93-3	2-Butanone	5.2	U
156-59-2	cis-1,2-Dichloroethene	5.2	U
594-20-7	2,2-Dichloropropane	5.2	U
74-97-5	Bromochloromethane	5.2	U
67-66-3	Chloroform	5.2	U
71-55-6	1,1,1-Trichloroethane	5.2	U
563-58-6	1,1-Dichloropropene	5.2	U
56-23-5	Carbon tetrachloride	5.2	U
107-06-2	1,2-Dichloroethane	5.2	U
71-43-2	Benzene	5.2	U
79-01-6	Trichloroethene	5.2	U
78-87-5	1,2-Dichloropropane	5.2	U
74-95-3	Dibromomethane	5.2	U
75-27-4	Bromodichloromethane	5.2	U
10061-01-5	cis-1,3-Dichloropropene	5.2	U
108-10-1	4-Methyl-2-pentanone	5.2	U
108-88-3	Toluene	5.2	U
10061-02-6	trans-1,3-Dichloropropene	5.2	U
79-00-5	1,1,2-Trichloroethane	5.2	U
142-28-9	1,3-Dichloropropane	5.2	U

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1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-02A (1)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-10B

Sample wt/vol: 5.21 (g/mL) G Lab File ID: V6G0821.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 8.0 Date Analyzed: 09/18/2008

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
127-18-4	Tetrachloroethene	5.2	U
591-78-6	2-Hexanone	5.2	U
124-48-1	Dibromochloromethane	5.2	U
106-93-4	1,2-Dibromoethane	5.2	U
108-90-7	Chlorobenzene	5.2	U
630-20-6	1,1,1,2-Tetrachloroethane	5.2	U
100-41-4	Ethylbenzene	5.2	U
1330-20-7	m,p-Xylene	5.2	U
95-47-6	o-Xylene	5.2	U
1330-20-7	Xylene (Total)	5.2	U
100-42-5	Styrene	5.2	U
75-25-2	Bromoform	5.2	U
98-82-8	Isopropylbenzene	5.2	U
79-34-5	1,1,2,2-Tetrachloroethane	5.2	U
108-86-1	Bromobenzene	5.2	U
96-18-4	1,2,3-Trichloropropane	5.2	U
103-65-1	n-Propylbenzene	5.2	U
95-49-8	2-Chlorotoluene	5.2	U
108-67-8	1,3,5-Trimethylbenzene	5.2	U
106-43-4	4-Chlorotoluene	5.2	U
98-06-6	tert-Butylbenzene	5.2	U
95-63-6	1,2,4-Trimethylbenzene	5.2	U
135-98-8	sec-Butylbenzene	5.2	U
99-87-6	4-Isopropyltoluene	5.2	U
541-73-1	1,3-Dichlorobenzene	5.2	U
106-46-7	1,4-Dichlorobenzene	5.2	U
104-51-8	n-Butylbenzene	5.2	U
95-50-1	1,2-Dichlorobenzene	5.2	U
96-12-8	1,2-Dibromo-3-chloropropane	5.2	U
120-82-1	1,2,4-Trichlorobenzene	5.2	U
87-68-3	Hexachlorobutadiene	5.2	U
87-61-6	1,2,3-Trichlorobenzene	5.2	U
91-20-3	Naphthalene	5.2	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-02A (1)

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1522
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1522-10B
Sample wt/vol: 5.21 (g/mL) G
Lab File ID: V6G0821.D
Level: (TRACE or LOW/MED) LOW
Date Received: 09/11/2008
% Moisture: not dec. 8.0
Date Analyzed: 09/18/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

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1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-05 (2)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-07B

Sample wt/vol: 5.68 (g/mL) G Lab File ID: V6G0818.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 18 Date Analyzed: 09/18/2008

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	5.4	U
74-87-3	Chloromethane	5.4	U
75-01-4	Vinyl chloride	5.4	U
74-83-9	Bromomethane	5.4	U
75-00-3	Chloroethane	5.4	U
75-69-4	Trichlorofluoromethane	5.4	U
75-35-4	1,1-Dichloroethene	5.4	U
67-64-1	Acetone	5.4	U
74-88-4	Iodomethane	5.4	U
75-15-0	Carbon disulfide	5.4	U
75-09-2	Methylene chloride	3.9	J
156-60-5	trans-1,2-Dichloroethene	5.4	U
1634-04-4	Methyl tert-butyl ether	5.4	U
75-34-3	1,1-Dichloroethane	5.4	U
108-05-4	Vinyl acetate	5.4	U
78-93-3	2-Butanone	5.4	U
156-59-2	cis-1,2-Dichloroethene	5.4	U
594-20-7	2,2-Dichloropropane	5.4	U
74-97-5	Bromochloromethane	5.4	U
67-66-3	Chloroform	5.4	U
71-55-6	1,1,1-Trichloroethane	5.4	U
563-58-6	1,1-Dichloropropene	5.4	U
56-23-5	Carbon tetrachloride	5.4	U
107-06-2	1,2-Dichloroethane	5.4	U
71-43-2	Benzene	5.4	U
79-01-6	Trichloroethene	5.4	U
78-87-5	1,2-Dichloropropane	5.4	U
74-95-3	Dibromomethane	5.4	U
75-27-4	Bromodichloromethane	5.4	U
10061-01-5	cis-1,3-Dichloropropene	5.4	U
108-10-1	4-Methyl-2-pentanone	5.4	U
108-88-3	Toluene	5.4	U
10061-02-6	trans-1,3-Dichloropropene	5.4	U
79-00-5	1,1,2-Trichloroethane	5.4	U
142-28-9	1,3-Dichloropropane	5.4	U

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1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-05 (2)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1522-07B

Sample wt/vol: 5.68 (g/mL) G

Lab File ID: V6G0818.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/11/2008

% Moisture: not dec. 18

Date Analyzed: 09/18/2008

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
127-18-4	Tetrachloroethene	5.4	U
591-78-6	2-Hexanone	5.4	U
124-48-1	Dibromochloromethane	5.4	U
106-93-4	1,2-Dibromoethane	5.4	U
108-90-7	Chlorobenzene	5.4	U
630-20-6	1,1,1,2-Tetrachloroethane	5.4	U
100-41-4	Ethylbenzene	5.4	U
1330-20-7	m,p-Xylene	5.4	U
95-47-6	o-Xylene	5.4	U
1330-20-7	Xylene (Total)	5.4	U
100-42-5	Styrene	5.4	U
75-25-2	Bromoform	5.4	U
98-82-8	Isopropylbenzene	5.4	U
79-34-5	1,1,2,2-Tetrachloroethane	5.4	U
108-86-1	Bromobenzene	5.4	U
96-18-4	1,2,3-Trichloropropane	5.4	U
103-65-1	n-Propylbenzene	5.4	U
95-49-8	2-Chlorotoluene	5.4	U
108-67-8	1,3,5-Trimethylbenzene	5.4	U
106-43-4	4-Chlorotoluene	5.4	U
98-06-6	tert-Butylbenzene	5.4	U
95-63-6	1,2,4-Trimethylbenzene	5.4	U
135-98-8	sec-Butylbenzene	5.4	U
99-87-6	4-Isopropyltoluene	5.4	U
541-73-1	1,3-Dichlorobenzene	5.4	U
106-46-7	1,4-Dichlorobenzene	5.4	U
104-51-8	n-Butylbenzene	5.4	U
95-50-1	1,2-Dichlorobenzene	5.4	U
96-12-8	1,2-Dibromo-3-chloropropane	5.4	U
120-82-1	1,2,4-Trichlorobenzene	5.4	U
87-68-3	Hexachlorobutadiene	5.4	U
87-61-6	1,2,3-Trichlorobenzene	5.4	U
91-20-3	Naphthalene	5.4	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-05 (2)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-07B

Sample wt/vol: 5.68 (g/mL) G Lab File ID: V6G0818.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 18 Date Analyzed: 09/18/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-06 (5)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1522-06B

Sample wt/vol: 5.32 (g/mL) G

Lab File ID: V6G0817.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/11/2008

% Moisture: not dec. 15

Date Analyzed: 09/18/2008

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	5.5	U
74-87-3	Chloromethane	5.5	U
75-01-4	Vinyl chloride	5.5	U
74-83-9	Bromomethane	5.5	U
75-00-3	Chloroethane	5.5	U
75-69-4	Trichlorofluoromethane	5.5	U
75-35-4	1,1-Dichloroethene	5.5	U
67-64-1	Acetone	5.5	U
74-88-4	Iodomethane	5.5	U
75-15-0	Carbon disulfide	5.5	U
75-09-2	Methylene chloride	3.8	J
156-60-5	trans-1,2-Dichloroethene	5.5	U
1634-04-4	Methyl tert-butyl ether	5.5	U
75-34-3	1,1-Dichloroethane	5.5	U
108-05-4	Vinyl acetate	5.5	U
78-93-3	2-Butanone	5.5	U
156-59-2	cis-1,2-Dichloroethene	5.5	U
594-20-7	2,2-Dichloropropane	5.5	U
74-97-5	Bromochloromethane	5.5	U
67-66-3	Chloroform	5.5	U
71-55-6	1,1,1-Trichloroethane	5.5	U
563-58-6	1,1-Dichloropropene	5.5	U
56-23-5	Carbon tetrachloride	5.5	U
107-06-2	1,2-Dichloroethane	5.5	U
71-43-2	Benzene	5.5	U
79-01-6	Trichloroethene	5.5	U
78-87-5	1,2-Dichloropropane	5.5	U
74-95-3	Dibromomethane	5.5	U
75-27-4	Bromodichloromethane	5.5	U
10061-01-5	cis-1,3-Dichloropropene	5.5	U
108-10-1	4-Methyl-2-pentanone	5.5	U
108-88-3	Toluene	5.5	U
10061-02-6	trans-1,3-Dichloropropene	5.5	U
79-00-5	1,1,2-Trichloroethane	5.5	U
142-28-9	1,3-Dichloropropane	5.5	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-06 (5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-06B

Sample wt/vol: 5.32 (g/mL) G Lab File ID: V6G0817.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 15 Date Analyzed: 09/18/2008

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
127-18-4	Tetrachloroethene	5.5	U
591-78-6	2-Hexanone	5.5	U
124-48-1	Dibromochloromethane	5.5	U
106-93-4	1,2-Dibromoethane	5.5	U
108-90-7	Chlorobenzene	5.5	U
630-20-6	1,1,1,2-Tetrachloroethane	5.5	U
100-41-4	Ethylbenzene	5.5	U
1330-20-7	m,p-Xylene	5.5	U
95-47-6	o-Xylene	5.5	U
1330-20-7	Xylene (Total)	5.5	U
100-42-5	Styrene	5.5	U
75-25-2	Bromoform	5.5	U
98-82-8	Isopropylbenzene	5.5	U
79-34-5	1,1,2,2-Tetrachloroethane	5.5	U
108-86-1	Bromobenzene	5.5	U
96-18-4	1,2,3-Trichloropropane	5.5	U
103-65-1	n-Propylbenzene	5.5	U
95-49-8	2-Chlorotoluene	5.5	U
108-67-8	1,3,5-Trimethylbenzene	5.5	U
106-43-4	4-Chlorotoluene	5.5	U
98-06-6	tert-Butylbenzene	5.5	U
95-63-6	1,2,4-Trimethylbenzene	5.5	U
135-98-8	sec-Butylbenzene	5.5	U
99-87-6	4-Isopropyltoluene	5.5	U
541-73-1	1,3-Dichlorobenzene	5.5	U
106-46-7	1,4-Dichlorobenzene	5.5	U
104-51-8	n-Butylbenzene	5.5	U
95-50-1	1,2-Dichlorobenzene	5.5	U
96-12-8	1,2-Dibromo-3-chloropropane	5.5	U
120-82-1	1,2,4-Trichlorobenzene	5.5	U
87-68-3	Hexachlorobutadiene	5.5	U
87-61-6	1,2,3-Trichlorobenzene	5.5	U
91-20-3	Naphthalene	5.5	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-06 (5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-06B

Sample wt/vol: 5.32 (g/mL) G Lab File ID: V6G0817.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 15 Date Analyzed: 09/18/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	91-57-6	Naphthalene, 2-methyl-	16.280	5.6	NJ
02	582-16-1	Naphthalene, 2,7-dimethyl-	17.405	5.7	NJ
	E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-08 (5.5)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1522-05B

Sample wt/vol: 5.58 (g/mL) G

Lab File ID: V6G0816.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/11/2008

% Moisture: not dec. 14

Date Analyzed: 09/18/2008

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	5.2	U
74-87-3	Chloromethane	5.2	U
75-01-4	Vinyl chloride	5.2	U
74-83-9	Bromomethane	5.2	U
75-00-3	Chloroethane	5.2	U
75-69-4	Trichlorofluoromethane	5.2	U
75-35-4	1,1-Dichloroethene	5.2	U
67-64-1	Acetone	140	
74-88-4	Iodomethane	5.2	U
75-15-0	Carbon disulfide	5.2	U
75-09-2	Methylene chloride	17	
156-60-5	trans-1,2-Dichloroethene	5.2	U
1634-04-4	Methyl tert-butyl ether	5.2	U
75-34-3	1,1-Dichloroethane	5.2	U
108-05-4	Vinyl acetate	5.2	U
78-93-3	2-Butanone	7.3	
156-59-2	cis-1,2-Dichloroethene	5.2	U
594-20-7	2,2-Dichloropropane	5.2	U
74-97-5	Bromochloromethane	5.2	U
67-66-3	Chloroform	5.2	U
71-55-6	1,1,1-Trichloroethane	5.2	U
563-58-6	1,1-Dichloropropene	5.2	U
56-23-5	Carbon tetrachloride	5.2	U
107-06-2	1,2-Dichloroethane	5.2	U
71-43-2	Benzene	5.2	U
79-01-6	Trichloroethene	5.2	U
78-87-5	1,2-Dichloropropane	5.2	U
74-95-3	Dibromomethane	5.2	U
75-27-4	Bromodichloromethane	5.2	U
10061-01-5	cis-1,3-Dichloropropene	5.2	U
108-10-1	4-Methyl-2-pentanone	5.2	U
108-88-3	Toluene	5.2	U
10061-02-6	trans-1,3-Dichloropropene	5.2	U
79-00-5	1,1,2-Trichloroethane	5.2	U
142-28-9	1,3-Dichloropropane	5.2	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-08 (5.5)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1522-05B

Sample wt/vol: 5.58 (g/mL) G

Lab File ID: V6G0816.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/11/2008

% Moisture: not dec. 14

Date Analyzed: 09/18/2008

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
127-18-4	Tetrachloroethene	5.2	U
591-78-6	2-Hexanone	5.2	U
124-48-1	Dibromochloromethane	5.2	U
106-93-4	1,2-Dibromoethane	5.2	U
108-90-7	Chlorobenzene	5.2	U
630-20-6	1,1,1,2-Tetrachloroethane	5.2	U
100-41-4	Ethylbenzene	5.2	U
1330-20-7	m,p-Xylene	5.2	U
95-47-6	o-Xylene	5.2	U
1330-20-7	Xylene (Total)	5.2	U
100-42-5	Styrene	5.2	U
75-25-2	Bromoform	5.2	U
98-82-8	Isopropylbenzene	5.2	U
79-34-5	1,1,2,2-Tetrachloroethane	5.2	U
108-86-1	Bromobenzene	5.2	U
96-18-4	1,2,3-Trichloropropane	5.2	U
103-65-1	n-Propylbenzene	5.2	U
95-49-8	2-Chlorotoluene	5.2	U
108-67-8	1,3,5-Trimethylbenzene	5.2	U
106-43-4	4-Chlorotoluene	5.2	U
98-06-6	tert-Butylbenzene	5.2	U
95-63-6	1,2,4-Trimethylbenzene	5.2	U
135-98-8	sec-Butylbenzene	5.2	U
99-87-6	4-Isopropyltoluene	5.2	U
541-73-1	1,3-Dichlorobenzene	5.2	U
106-46-7	1,4-Dichlorobenzene	5.2	U
104-51-8	n-Butylbenzene	5.2	U
95-50-1	1,2-Dichlorobenzene	5.2	U
96-12-8	1,2-Dibromo-3-chloropropane	5.2	U
120-82-1	1,2,4-Trichlorobenzene	5.2	U
87-68-3	Hexachlorobutadiene	5.2	U
87-61-6	1,2,3-Trichlorobenzene	5.2	U
91-20-3	Naphthalene	5.2	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-08 (5.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-05B

Sample wt/vol: 5.58 (g/mL) G Lab File ID: V6G0816.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 14 Date Analyzed: 09/18/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	91-57-6	Naphthalene, 2-methyl-	16.278	9.6	NJ
02	90-12-0	Naphthalene, 1-methyl-	16.473	6.6	NJ
03	581-42-0	Naphthalene, 2,6-dimethyl-	17.403	9.0	NJ
04	571-58-4	Naphthalene, 1,4-dimethyl-	17.586	7.6	NJ
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-09 (3)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-14B

Sample wt/vol: 5.07 (g/mL) G Lab File ID: V6G0849.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 10 Date Analyzed: 09/19/2008

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	5.5	U
74-87-3	Chloromethane	5.5	U
75-01-4	Vinyl chloride	5.5	U
74-83-9	Bromomethane	5.5	U
75-00-3	Chloroethane	5.5	U
75-69-4	Trichlorofluoromethane	5.5	U
75-35-4	1,1-Dichloroethene	5.5	U
67-64-1	Acetone	5.5	U
74-88-4	Iodomethane	5.5	U
75-15-0	Carbon disulfide	5.5	U
75-09-2	Methylene chloride	15	
156-60-5	trans-1,2-Dichloroethene	5.5	U
1634-04-4	Methyl tert-butyl ether	5.5	U
75-34-3	1,1-Dichloroethane	5.5	U
108-05-4	Vinyl acetate	5.5	U
78-93-3	2-Butanone	5.5	U
156-59-2	cis-1,2-Dichloroethene	5.5	U
594-20-7	2,2-Dichloropropane	5.5	U
74-97-5	Bromochloromethane	5.5	U
67-66-3	Chloroform	5.5	U
71-55-6	1,1,1-Trichloroethane	5.5	U
563-58-6	1,1-Dichloropropene	5.5	U
56-23-5	Carbon tetrachloride	5.5	U
107-06-2	1,2-Dichloroethane	5.5	U
71-43-2	Benzene	5.5	U
79-01-6	Trichloroethene	5.5	U
78-87-5	1,2-Dichloropropane	5.5	U
74-95-3	Dibromomethane	5.5	U
75-27-4	Bromodichloromethane	5.5	U
10061-01-5	cis-1,3-Dichloropropene	5.5	U
108-10-1	4-Methyl-2-pentanone	5.5	U
108-88-3	Toluene	5.5	U
10061-02-6	trans-1,3-Dichloropropene	5.5	U
79-00-5	1,1,2-Trichloroethane	5.5	U
142-28-9	1,3-Dichloropropane	5.5	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-09 (3)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-14B

Sample wt/vol: 5.07 (g/mL) G Lab File ID: V6G0849.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 10 Date Analyzed: 09/19/2008

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
127-18-4	Tetrachloroethene	5.5	U
591-78-6	2-Hexanone	5.5	U
124-48-1	Dibromochloromethane	5.5	U
106-93-4	1,2-Dibromoethane	5.5	U
108-90-7	Chlorobenzene	5.5	U
630-20-6	1,1,1,2-Tetrachloroethane	5.5	U
100-41-4	Ethylbenzene	5.5	U
1330-20-7	m,p-Xylene	5.5	U
95-47-6	o-Xylene	5.5	U
1330-20-7	Xylene (Total)	5.5	U
100-42-5	Styrene	5.5	U
75-25-2	Bromoform	5.5	U
98-82-8	Isopropylbenzene	5.5	U
79-34-5	1,1,2,2-Tetrachloroethane	5.5	U
108-86-1	Bromobenzene	5.5	U
96-18-4	1,2,3-Trichloropropane	5.5	U
103-65-1	n-Propylbenzene	5.5	U
95-49-8	2-Chlorotoluene	5.5	U
108-67-8	1,3,5-Trimethylbenzene	5.5	U
106-43-4	4-Chlorotoluene	5.5	U
98-06-6	tert-Butylbenzene	5.5	U
95-63-6	1,2,4-Trimethylbenzene	5.5	U
135-98-8	sec-Butylbenzene	5.5	U
99-87-6	4-Isopropyltoluene	5.5	U
541-73-1	1,3-Dichlorobenzene	5.5	U
106-46-7	1,4-Dichlorobenzene	5.5	U
104-51-8	n-Butylbenzene	5.5	U
95-50-1	1,2-Dichlorobenzene	5.5	U
96-12-8	1,2-Dibromo-3-chloropropane	5.5	U
120-82-1	1,2,4-Trichlorobenzene	5.5	U
87-68-3	Hexachlorobutadiene	5.5	U
87-61-6	1,2,3-Trichlorobenzene	5.5	U
91-20-3	Naphthalene	5.5	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-09 (3)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-14B

Sample wt/vol: 5.07 (g/mL) G Lab File ID: V6G0849.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 10 Date Analyzed: 09/19/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-11 (2.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-15B

Sample wt/vol: 5.26 (g/mL) G Lab File ID: V6G0850.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 9.0 Date Analyzed: 09/19/2008

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	5.2	U
74-87-3	Chloromethane	5.2	U
75-01-4	Vinyl chloride	5.2	U
74-83-9	Bromomethane	5.2	U
75-00-3	Chloroethane	5.2	U
75-69-4	Trichlorofluoromethane	5.2	U
75-35-4	1,1-Dichloroethene	5.2	U
67-64-1	Acetone	5.2	U
74-88-4	Iodomethane	5.2	U
75-15-0	Carbon disulfide	5.2	U
75-09-2	Methylene chloride	3.4	J
156-60-5	trans-1,2-Dichloroethene	5.2	U
1634-04-4	Methyl tert-butyl ether	5.2	U
75-34-3	1,1-Dichloroethane	5.2	U
108-05-4	Vinyl acetate	5.2	U
78-93-3	2-Butanone	5.2	U
156-59-2	cis-1,2-Dichloroethene	5.2	U
594-20-7	2,2-Dichloropropane	5.2	U
74-97-5	Bromochloromethane	5.2	U
67-66-3	Chloroform	5.2	U
71-55-6	1,1,1-Trichloroethane	5.2	U
563-58-6	1,1-Dichloropropene	5.2	U
56-23-5	Carbon tetrachloride	5.2	U
107-06-2	1,2-Dichloroethane	5.2	U
71-43-2	Benzene	5.2	U
79-01-6	Trichloroethene	5.2	U
78-87-5	1,2-Dichloropropane	5.2	U
74-95-3	Dibromomethane	5.2	U
75-27-4	Bromodichloromethane	5.2	U
10061-01-5	cis-1,3-Dichloropropene	5.2	U
108-10-1	4-Methyl-2-pentanone	5.2	U
108-88-3	Toluene	5.2	U
10061-02-6	trans-1,3-Dichloropropene	5.2	U
79-00-5	1,1,2-Trichloroethane	5.2	U
142-28-9	1,3-Dichloropropane	5.2	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-11 (2.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-15B

Sample wt/vol: 5.26 (g/mL) G Lab File ID: V6G0850.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 9.0 Date Analyzed: 09/19/2008

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
127-18-4	Tetrachloroethene	5.2	U
591-78-6	2-Hexanone	5.2	U
124-48-1	Dibromochloromethane	5.2	U
106-93-4	1,2-Dibromoethane	5.2	U
108-90-7	Chlorobenzene	5.2	U
630-20-6	1,1,1,2-Tetrachloroethane	5.2	U
100-41-4	Ethylbenzene	5.2	U
1330-20-7	m,p-Xylene	5.2	U
95-47-6	o-Xylene	5.2	U
1330-20-7	Xylene (Total)	5.2	U
100-42-5	Styrene	5.2	U
75-25-2	Bromoform	5.2	U
98-82-8	Isopropylbenzene	5.2	U
79-34-5	1,1,2,2-Tetrachloroethane	5.2	U
108-86-1	Bromobenzene	5.2	U
96-18-4	1,2,3-Trichloropropane	5.2	U
103-65-1	n-Propylbenzene	5.2	U
95-49-8	2-Chlorotoluene	5.2	U
108-67-8	1,3,5-Trimethylbenzene	5.2	U
106-43-4	4-Chlorotoluene	5.2	U
98-06-6	tert-Butylbenzene	5.2	U
95-63-6	1,2,4-Trimethylbenzene	5.2	U
135-98-8	sec-Butylbenzene	5.2	U
99-87-6	4-Isopropyltoluene	5.2	U
541-73-1	1,3-Dichlorobenzene	5.2	U
106-46-7	1,4-Dichlorobenzene	5.2	U
104-51-8	n-Butylbenzene	5.2	U
95-50-1	1,2-Dichlorobenzene	5.2	U
96-12-8	1,2-Dibromo-3-chloropropane	5.2	U
120-82-1	1,2,4-Trichlorobenzene	5.2	U
87-68-3	Hexachlorobutadiene	5.2	U
87-61-6	1,2,3-Trichlorobenzene	5.2	U
91-20-3	Naphthalene	5.2	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-11 (2.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-15B

Sample wt/vol: 5.26 (g/mL) G Lab File ID: V6G0850.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 9.0 Date Analyzed: 09/19/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-12 (2.5)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1522-16B

Sample wt/vol: 5.06 (g/mL) G

Lab File ID: V6G0851.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/11/2008

% Moisture: not dec. 14

Date Analyzed: 09/19/2008

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	5.7	U
74-87-3	Chloromethane	5.7	U
75-01-4	Vinyl chloride	5.7	U
74-83-9	Bromomethane	5.7	U
75-00-3	Chloroethane	5.7	U
75-69-4	Trichlorofluoromethane	5.7	U
75-35-4	1,1-Dichloroethene	5.7	U
67-64-1	Acetone	5.7	U
74-88-4	Iodomethane	5.7	U
75-15-0	Carbon disulfide	5.7	U
75-09-2	Methylene chloride	15	
156-60-5	trans-1,2-Dichloroethene	5.7	U
1634-04-4	Methyl tert-butyl ether	5.7	U
75-34-3	1,1-Dichloroethane	5.7	U
108-05-4	Vinyl acetate	5.7	U
78-93-3	2-Butanone	5.7	U
156-59-2	cis-1,2-Dichloroethene	5.7	U
594-20-7	2,2-Dichloropropane	5.7	U
74-97-5	Bromochloromethane	5.7	U
67-66-3	Chloroform	5.7	U
71-55-6	1,1,1-Trichloroethane	5.7	U
563-58-6	1,1-Dichloropropene	5.7	U
56-23-5	Carbon tetrachloride	5.7	U
107-06-2	1,2-Dichloroethane	5.7	U
71-43-2	Benzene	5.7	U
79-01-6	Trichloroethene	5.7	U
78-87-5	1,2-Dichloropropane	5.7	U
74-95-3	Dibromomethane	5.7	U
75-27-4	Bromodichloromethane	5.7	U
10061-01-5	cis-1,3-Dichloropropene	5.7	U
108-10-1	4-Methyl-2-pentanone	5.7	U
108-88-3	Toluene	2.9	J
10061-02-6	trans-1,3-Dichloropropene	5.7	U
79-00-5	1,1,2-Trichloroethane	5.7	U
142-28-9	1,3-Dichloropropane	5.7	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-12 (2.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-16B

Sample wt/vol: 5.06 (g/mL) G Lab File ID: V6G0851.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 14 Date Analyzed: 09/19/2008

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
127-18-4	Tetrachloroethene	5.7	U
591-78-6	2-Hexanone	5.7	U
124-48-1	Dibromochloromethane	5.7	U
106-93-4	1,2-Dibromoethane	5.7	U
108-90-7	Chlorobenzene	5.7	U
630-20-6	1,1,1,2-Tetrachloroethane	5.7	U
100-41-4	Ethylbenzene	5.7	U
1330-20-7	m,p-Xylene	5.7	U
95-47-6	o-Xylene	5.7	U
1330-20-7	Xylene (Total)	5.7	U
100-42-5	Styrene	5.7	U
75-25-2	Bromoform	5.7	U
98-82-8	Isopropylbenzene	5.7	U
79-34-5	1,1,2,2-Tetrachloroethane	5.7	U
108-86-1	Bromobenzene	5.7	U
96-18-4	1,2,3-Trichloropropane	5.7	U
103-65-1	n-Propylbenzene	5.7	U
95-49-8	2-Chlorotoluene	5.7	U
108-67-8	1,3,5-Trimethylbenzene	5.7	U
106-43-4	4-Chlorotoluene	5.7	U
98-06-6	tert-Butylbenzene	5.7	U
95-63-6	1,2,4-Trimethylbenzene	5.7	U
135-98-8	sec-Butylbenzene	5.7	U
99-87-6	4-Isopropyltoluene	5.7	U
541-73-1	1,3-Dichlorobenzene	5.7	U
106-46-7	1,4-Dichlorobenzene	5.7	U
104-51-8	n-Butylbenzene	5.7	U
95-50-1	1,2-Dichlorobenzene	5.7	U
96-12-8	1,2-Dibromo-3-chloropropane	5.7	U
120-82-1	1,2,4-Trichlorobenzene	5.7	U
87-68-3	Hexachlorobutadiene	5.7	U
87-61-6	1,2,3-Trichlorobenzene	5.7	U
91-20-3	Naphthalene	5.7	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-12 (2.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-16B

Sample wt/vol: 5.06 (g/mL) G Lab File ID: V6G0851.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 14 Date Analyzed: 09/19/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-13 (18)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-17B

Sample wt/vol: 5.17 (g/mL) G Lab File ID: V6G0852.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 17 Date Analyzed: 09/19/2008

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	5.8	U
74-87-3	Chloromethane	5.8	U
75-01-4	Vinyl chloride	5.8	U
74-83-9	Bromomethane	5.8	U
75-00-3	Chloroethane	5.8	U
75-69-4	Trichlorofluoromethane	5.8	U
75-35-4	1,1-Dichloroethene	5.8	U
67-64-1	Acetone	5.8	U
74-88-4	Iodomethane	5.8	U
75-15-0	Carbon disulfide	5.8	U
75-09-2	Methylene chloride	16	
156-60-5	trans-1,2-Dichloroethene	5.8	U
1634-04-4	Methyl tert-butyl ether	5.8	U
75-34-3	1,1-Dichloroethane	5.8	U
108-05-4	Vinyl acetate	5.8	U
78-93-3	2-Butanone	5.8	U
156-59-2	cis-1,2-Dichloroethene	5.8	U
594-20-7	2,2-Dichloropropane	5.8	U
74-97-5	Bromochloromethane	5.8	U
67-66-3	Chloroform	5.8	U
71-55-6	1,1,1-Trichloroethane	5.8	U
563-58-6	1,1-Dichloropropene	5.8	U
56-23-5	Carbon tetrachloride	5.8	U
107-06-2	1,2-Dichloroethane	5.8	U
71-43-2	Benzene	5.8	U
79-01-6	Trichloroethene	5.8	U
78-87-5	1,2-Dichloropropane	5.8	U
74-95-3	Dibromomethane	5.8	U
75-27-4	Bromodichloromethane	5.8	U
10061-01-5	cis-1,3-Dichloropropene	5.8	U
108-10-1	4-Methyl-2-pentanone	5.8	U
108-88-3	Toluene	5.8	U
10061-02-6	trans-1,3-Dichloropropene	5.8	U
79-00-5	1,1,2-Trichloroethane	5.8	U
142-28-9	1,3-Dichloropropane	5.8	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-13 (18)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-17B

Sample wt/vol: 5.17 (g/mL) G Lab File ID: V6G0852.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 17 Date Analyzed: 09/19/2008

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
127-18-4	Tetrachloroethene	5.8	U
591-78-6	2-Hexanone	5.8	U
124-48-1	Dibromochloromethane	5.8	U
106-93-4	1,2-Dibromoethane	5.8	U
108-90-7	Chlorobenzene	5.8	U
630-20-6	1,1,1,2-Tetrachloroethane	5.8	U
100-41-4	Ethylbenzene	5.8	U
1330-20-7	m,p-Xylene	5.8	U
95-47-6	o-Xylene	5.8	U
1330-20-7	Xylene (Total)	5.8	U
100-42-5	Styrene	5.8	U
75-25-2	Bromoform	5.8	U
98-82-8	Isopropylbenzene	5.8	U
79-34-5	1,1,2,2-Tetrachloroethane	5.8	U
108-86-1	Bromobenzene	5.8	U
96-18-4	1,2,3-Trichloropropane	5.8	U
103-65-1	n-Propylbenzene	5.8	U
95-49-8	2-Chlorotoluene	5.8	U
108-67-8	1,3,5-Trimethylbenzene	5.8	U
106-43-4	4-Chlorotoluene	5.8	U
98-06-6	tert-Butylbenzene	5.8	U
95-63-6	1,2,4-Trimethylbenzene	5.8	U
135-98-8	sec-Butylbenzene	5.8	U
99-87-6	4-Isopropyltoluene	5.8	U
541-73-1	1,3-Dichlorobenzene	5.8	U
106-46-7	1,4-Dichlorobenzene	5.8	U
104-51-8	n-Butylbenzene	5.8	U
95-50-1	1,2-Dichlorobenzene	5.8	U
96-12-8	1,2-Dibromo-3-chloropropane	5.8	U
120-82-1	1,2,4-Trichlorobenzene	5.8	U
87-68-3	Hexachlorobutadiene	5.8	U
87-61-6	1,2,3-Trichlorobenzene	5.8	U
91-20-3	Naphthalene	5.8	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-13 (18)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-17B

Sample wt/vol: 5.17 (g/mL) G Lab File ID: V6G0852.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 17 Date Analyzed: 09/19/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-14 (6)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-18B

Sample wt/vol: 5.13 (g/mL) G Lab File ID: V6G0853.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 6.0 Date Analyzed: 09/19/2008

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	5.2	U
74-87-3	Chloromethane	5.2	U
75-01-4	Vinyl chloride	5.2	U
74-83-9	Bromomethane	5.2	U
75-00-3	Chloroethane	5.2	U
75-69-4	Trichlorofluoromethane	5.2	U
75-35-4	1,1-Dichloroethene	5.2	U
67-64-1	Acetone	5.2	U
74-88-4	Iodomethane	5.2	U
75-15-0	Carbon disulfide	5.2	U
75-09-2	Methylene chloride	19	
156-60-5	trans-1,2-Dichloroethene	5.2	U
1634-04-4	Methyl tert-butyl ether	5.2	U
75-34-3	1,1-Dichloroethane	5.2	U
108-05-4	Vinyl acetate	5.2	U
78-93-3	2-Butanone	5.2	U
156-59-2	cis-1,2-Dichloroethene	5.2	U
594-20-7	2,2-Dichloropropane	5.2	U
74-97-5	Bromochloromethane	5.2	U
67-66-3	Chloroform	5.2	U
71-55-6	1,1,1-Trichloroethane	5.2	U
563-58-6	1,1-Dichloropropene	5.2	U
56-23-5	Carbon tetrachloride	5.2	U
107-06-2	1,2-Dichloroethane	5.2	U
71-43-2	Benzene	5.2	U
79-01-6	Trichloroethene	5.2	U
78-87-5	1,2-Dichloropropane	9.6	
74-95-3	Dibromomethane	5.2	U
75-27-4	Bromodichloromethane	5.2	U
10061-01-5	cis-1,3-Dichloropropene	5.2	U
108-10-1	4-Methyl-2-pentanone	5.2	U
108-88-3	Toluene	4.6	J
10061-02-6	trans-1,3-Dichloropropene	5.2	U
79-00-5	1,1,2-Trichloroethane	5.2	U
142-28-9	1,3-Dichloropropane	5.2	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-14 (6)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-18B

Sample wt/vol: 5.13 (g/mL) G Lab File ID: V6G0853.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 6.0 Date Analyzed: 09/19/2008

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
127-18-4	Tetrachloroethene	5.2	U
591-78-6	2-Hexanone	5.2	U
124-48-1	Dibromochloromethane	5.2	U
106-93-4	1,2-Dibromoethane	5.2	U
108-90-7	Chlorobenzene	5.2	U
630-20-6	1,1,1,2-Tetrachloroethane	5.2	U
100-41-4	Ethylbenzene	5.2	U
1330-20-7	m,p-Xylene	2.2	J
95-47-6	o-Xylene	5.2	U
1330-20-7	Xylene (Total)	2.2	J
100-42-5	Styrene	5.2	U
75-25-2	Bromoform	5.2	U
98-82-8	Isopropylbenzene	5.2	U
79-34-5	1,1,2,2-Tetrachloroethane	5.2	U
108-86-1	Bromobenzene	5.2	U
96-18-4	1,2,3-Trichloropropane	5.2	U
103-65-1	n-Propylbenzene	5.2	U
95-49-8	2-Chlorotoluene	5.2	U
108-67-8	1,3,5-Trimethylbenzene	5.2	U
106-43-4	4-Chlorotoluene	5.2	U
98-06-6	tert-Butylbenzene	5.2	U
95-63-6	1,2,4-Trimethylbenzene	5.2	U
135-98-8	sec-Butylbenzene	5.2	U
99-87-6	4-Isopropyltoluene	5.2	U
541-73-1	1,3-Dichlorobenzene	5.2	U
106-46-7	1,4-Dichlorobenzene	5.2	U
104-51-8	n-Butylbenzene	5.2	U
95-50-1	1,2-Dichlorobenzene	5.2	U
96-12-8	1,2-Dibromo-3-chloropropane	5.2	U
120-82-1	1,2,4-Trichlorobenzene	5.2	U
87-68-3	Hexachlorobutadiene	5.2	U
87-61-6	1,2,3-Trichlorobenzene	5.2	U
91-20-3	Naphthalene	5.2	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-14 (6)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-18B

Sample wt/vol: 5.13 (g/mL) G Lab File ID: V6G0853.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 6.0 Date Analyzed: 09/19/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-19 (9.5)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1522-19B

Sample wt/vol: 5.26 (g/mL) G

Lab File ID: V6G0835.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/11/2008

% Moisture: not dec. 25

Date Analyzed: 09/19/2008

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
74-88-4	Iodomethane	6.3	U
75-15-0	Carbon disulfide	6.3	U
75-09-2	Methylene chloride	3.2	J
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
108-05-4	Vinyl acetate	6.3	U
78-93-3	2-Butanone	6.3	U
156-59-2	cis-1,2-Dichloroethene	6.3	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	6.3	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-19 (9.5)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1522-19B

Sample wt/vol: 5.26 (g/mL) G

Lab File ID: V6G0835.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/11/2008

% Moisture: not dec. 25

Date Analyzed: 09/19/2008

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
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
630-20-6	1,1,1,2-Tetrachloroethane	6.3	U
100-41-4	Ethylbenzene	6.3	U
1330-20-7	m,p-Xylene	6.3	U
95-47-6	o-Xylene	6.3	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	6.3	U
96-18-4	1,2,3-Trichloropropane	6.3	U
103-65-1	n-Propylbenzene	6.3	U
95-49-8	2-Chlorotoluene	6.3	U
108-67-8	1,3,5-Trimethylbenzene	6.3	U
106-43-4	4-Chlorotoluene	6.3	U
98-06-6	tert-Butylbenzene	6.3	U
95-63-6	1,2,4-Trimethylbenzene	6.3	U
135-98-8	sec-Butylbenzene	6.3	U
99-87-6	4-Isopropyltoluene	6.3	U
541-73-1	1,3-Dichlorobenzene	6.3	U
106-46-7	1,4-Dichlorobenzene	6.3	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	6.3	U
87-61-6	1,2,3-Trichlorobenzene	6.3	U
91-20-3	Naphthalene	6.3	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-19 (9.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-19B

Sample wt/vol: 5.26 (g/mL) G Lab File ID: V6G0835.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 25 Date Analyzed: 09/19/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-20 (12)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1522-20B

Sample wt/vol: 5.16 (g/mL) G

Lab File ID: V6G0836.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/11/2008

% Moisture: not dec. 11

Date Analyzed: 09/19/2008

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	5.4	U
74-87-3	Chloromethane	5.4	U
75-01-4	Vinyl chloride	5.4	U
74-83-9	Bromomethane	5.4	U
75-00-3	Chloroethane	5.4	U
75-69-4	Trichlorofluoromethane	5.4	U
75-35-4	1,1-Dichloroethene	5.4	U
67-64-1	Acetone	5.4	U
74-88-4	Iodomethane	5.4	U
75-15-0	Carbon disulfide	5.4	U
75-09-2	Methylene chloride	26	
156-60-5	trans-1,2-Dichloroethene	5.4	U
1634-04-4	Methyl tert-butyl ether	5.4	U
75-34-3	1,1-Dichloroethane	5.4	U
108-05-4	Vinyl acetate	5.4	U
78-93-3	2-Butanone	5.4	U
156-59-2	cis-1,2-Dichloroethene	5.4	U
594-20-7	2,2-Dichloropropane	5.4	U
74-97-5	Bromochloromethane	5.4	U
67-66-3	Chloroform	5.4	U
71-55-6	1,1,1-Trichloroethane	5.4	U
563-58-6	1,1-Dichloropropene	5.4	U
56-23-5	Carbon tetrachloride	5.4	U
107-06-2	1,2-Dichloroethane	5.4	U
71-43-2	Benzene	5.4	U
79-01-6	Trichloroethene	5.4	U
78-87-5	1,2-Dichloropropane	5.4	U
74-95-3	Dibromomethane	5.4	U
75-27-4	Bromodichloromethane	5.4	U
10061-01-5	cis-1,3-Dichloropropene	5.4	U
108-10-1	4-Methyl-2-pentanone	5.4	U
108-88-3	Toluene	2.4	J
10061-02-6	trans-1,3-Dichloropropene	5.4	U
79-00-5	1,1,2-Trichloroethane	5.4	U
142-28-9	1,3-Dichloropropane	5.4	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-20 (12)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1522-20B

Sample wt/vol: 5.16 (g/mL) G

Lab File ID: V6G0836.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/11/2008

% Moisture: not dec. 11

Date Analyzed: 09/19/2008

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
127-18-4	Tetrachloroethene	5.4	U
591-78-6	2-Hexanone	5.4	U
124-48-1	Dibromochloromethane	5.4	U
106-93-4	1,2-Dibromoethane	5.4	U
108-90-7	Chlorobenzene	5.4	U
630-20-6	1,1,1,2-Tetrachloroethane	5.4	U
100-41-4	Ethylbenzene	5.4	U
1330-20-7	m,p-Xylene	5.4	U
95-47-6	o-Xylene	5.4	U
1330-20-7	Xylene (Total)	5.4	U
100-42-5	Styrene	5.4	U
75-25-2	Bromoform	5.4	U
98-82-8	Isopropylbenzene	5.4	U
79-34-5	1,1,2,2-Tetrachloroethane	5.4	U
108-86-1	Bromobenzene	5.4	U
96-18-4	1,2,3-Trichloropropane	5.4	U
103-65-1	n-Propylbenzene	5.4	U
95-49-8	2-Chlorotoluene	5.4	U
108-67-8	1,3,5-Trimethylbenzene	5.4	U
106-43-4	4-Chlorotoluene	5.4	U
98-06-6	tert-Butylbenzene	5.4	U
95-63-6	1,2,4-Trimethylbenzene	5.4	U
135-98-8	sec-Butylbenzene	5.4	U
99-87-6	4-Isopropyltoluene	5.4	U
541-73-1	1,3-Dichlorobenzene	5.4	U
106-46-7	1,4-Dichlorobenzene	5.4	U
104-51-8	n-Butylbenzene	5.4	U
95-50-1	1,2-Dichlorobenzene	5.4	U
96-12-8	1,2-Dibromo-3-chloropropane	5.4	U
120-82-1	1,2,4-Trichlorobenzene	5.4	U
87-68-3	Hexachlorobutadiene	5.4	U
87-61-6	1,2,3-Trichlorobenzene	5.4	U
91-20-3	Naphthalene	5.4	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-20 (12)

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1522
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1522-20B
Sample wt/vol: 5.16 (g/mL) G
Lab File ID: V6G0836.D
Level: (TRACE or LOW/MED) LOW
Date Received: 09/11/2008
% Moisture: not dec. 11
Date Analyzed: 09/19/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-21 (17.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-02B

Sample wt/vol: .55 (g/mL) G Lab File ID: V6G0837.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 24 Date Analyzed: 09/19/2008

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	60	U
74-87-3	Chloromethane	60	U
75-01-4	Vinyl chloride	60	U
74-83-9	Bromomethane	60	U
75-00-3	Chloroethane	60	U
75-69-4	Trichlorofluoromethane	60	U
75-35-4	1,1-Dichloroethene	60	U
67-64-1	Acetone	71	
74-88-4	Iodomethane	60	U
75-15-0	Carbon disulfide	60	U
75-09-2	Methylene chloride	60	U
156-60-5	trans-1,2-Dichloroethene	60	U
1634-04-4	Methyl tert-butyl ether	60	U
75-34-3	1,1-Dichloroethane	60	U
108-05-4	Vinyl acetate	60	U
78-93-3	2-Butanone	60	U
156-59-2	cis-1,2-Dichloroethene	60	U
594-20-7	2,2-Dichloropropane	60	U
74-97-5	Bromochloromethane	60	U
67-66-3	Chloroform	60	U
71-55-6	1,1,1-Trichloroethane	60	U
563-58-6	1,1-Dichloropropene	60	U
56-23-5	Carbon tetrachloride	60	U
107-06-2	1,2-Dichloroethane	60	U
71-43-2	Benzene	60	U
79-01-6	Trichloroethene	60	U
78-87-5	1,2-Dichloropropane	60	U
74-95-3	Dibromomethane	60	U
75-27-4	Bromodichloromethane	60	U
10061-01-5	cis-1,3-Dichloropropene	60	U
108-10-1	4-Methyl-2-pentanone	60	U
108-88-3	Toluene	60	U
10061-02-6	trans-1,3-Dichloropropene	60	U
79-00-5	1,1,2-Trichloroethane	60	U
142-28-9	1,3-Dichloropropane	60	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-21 (17.5)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1523-02B

Sample wt/vol: .55 (g/mL) G

Lab File ID: V6G0837.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/11/2008

% Moisture: not dec. 24

Date Analyzed: 09/19/2008

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
127-18-4	Tetrachloroethene	60	U
591-78-6	2-Hexanone	60	U
124-48-1	Dibromochloromethane	60	U
106-93-4	1,2-Dibromoethane	60	U
108-90-7	Chlorobenzene	60	U
630-20-6	1,1,1,2-Tetrachloroethane	60	U
100-41-4	Ethylbenzene	60	U
1330-20-7	m,p-Xylene	60	U
95-47-6	o-Xylene	60	U
1330-20-7	Xylene (Total)	60	U
100-42-5	Styrene	60	U
75-25-2	Bromoform	60	U
98-82-8	Isopropylbenzene	210	
79-34-5	1,1,2,2-Tetrachloroethane	60	U
108-86-1	Bromobenzene	60	U
96-18-4	1,2,3-Trichloropropane	60	U
103-65-1	n-Propylbenzene	92	
95-49-8	2-Chlorotoluene	60	U
108-67-8	1,3,5-Trimethylbenzene	60	U
106-43-4	4-Chlorotoluene	60	U
98-06-6	tert-Butylbenzene	55	J
95-63-6	1,2,4-Trimethylbenzene	60	U
135-98-8	sec-Butylbenzene	690	
99-87-6	4-Isopropyltoluene	60	U
541-73-1	1,3-Dichlorobenzene	60	U
106-46-7	1,4-Dichlorobenzene	60	U
104-51-8	n-Butylbenzene	300	
95-50-1	1,2-Dichlorobenzene	60	U
96-12-8	1,2-Dibromo-3-chloropropane	60	U
120-82-1	1,2,4-Trichlorobenzene	60	U
87-68-3	Hexachlorobutadiene	60	U
87-61-6	1,2,3-Trichlorobenzene	60	U
91-20-3	Naphthalene	60	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-21 (17.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-02B

Sample wt/vol: .55 (g/mL) G Lab File ID: V6G0837.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 24 Date Analyzed: 09/19/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	493-02-7	Naphthalene, decahydro-, tra	13.003	5700	NJ
02	2958-76-1	Naphthalene, decahydro-2-met	13.739	8000	NJ
03		Unknown-01	13.976	6500	J
04		Unknown-02	14.037	4600	J
05	56253-64-6	Benzene, (2-methyl-1-butenyl	14.195	5400	NJ
06		Unknown-03	14.317	5100	J
07		Unknown-04	14.421	6500	J
08	17301-23-4	Undecane, 2,6-dimethyl-	14.573	16000	NJ
09		Unknown-05	14.877	4800	J
10	1559-81-5	Naphthalene, 1,2,3,4-tetrahy	15.297	4700	NJ
11		Unknown-06	15.412	6500	J
12	769-57-3	.alpha.,.beta.,.beta.-Trimet	15.704	8800	NJ
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-22 (18)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-03B

Sample wt/vol: 1.11 (g/mL) G Lab File ID: V6G0838.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 17 Date Analyzed: 09/19/2008

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	27	U
74-87-3	Chloromethane	27	U
75-01-4	Vinyl chloride	27	U
74-83-9	Bromomethane	27	U
75-00-3	Chloroethane	27	U
75-69-4	Trichlorofluoromethane	27	U
75-35-4	1,1-Dichloroethene	27	U
67-64-1	Acetone	29	
74-88-4	Iodomethane	27	U
75-15-0	Carbon disulfide	27	U
75-09-2	Methylene chloride	24	J
156-60-5	trans-1,2-Dichloroethene	27	U
1634-04-4	Methyl tert-butyl ether	27	U
75-34-3	1,1-Dichloroethane	27	U
108-05-4	Vinyl acetate	27	U
78-93-3	2-Butanone	27	U
156-59-2	cis-1,2-Dichloroethene	27	U
594-20-7	2,2-Dichloropropane	27	U
74-97-5	Bromochloromethane	27	U
67-66-3	Chloroform	27	U
71-55-6	1,1,1-Trichloroethane	27	U
563-58-6	1,1-Dichloropropene	27	U
56-23-5	Carbon tetrachloride	27	U
107-06-2	1,2-Dichloroethane	27	U
71-43-2	Benzene	27	U
79-01-6	Trichloroethene	27	U
78-87-5	1,2-Dichloropropane	27	U
74-95-3	Dibromomethane	27	U
75-27-4	Bromodichloromethane	27	U
10061-01-5	cis-1,3-Dichloropropene	27	U
108-10-1	4-Methyl-2-pentanone	27	U
108-88-3	Toluene	27	U
10061-02-6	trans-1,3-Dichloropropene	27	U
79-00-5	1,1,2-Trichloroethane	27	U
142-28-9	1,3-Dichloropropane	27	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-22 (18)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-03B

Sample wt/vol: 1.11 (g/mL) G Lab File ID: V6G0838.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 17 Date Analyzed: 09/19/2008

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
127-18-4	Tetrachloroethene	27	U
591-78-6	2-Hexanone	27	U
124-48-1	Dibromochloromethane	27	U
106-93-4	1,2-Dibromoethane	27	U
108-90-7	Chlorobenzene	27	U
630-20-6	1,1,1,2-Tetrachloroethane	27	U
100-41-4	Ethylbenzene	27	U
1330-20-7	m,p-Xylene	27	U
95-47-6	o-Xylene	27	U
1330-20-7	Xylene (Total)	27	U
100-42-5	Styrene	27	U
75-25-2	Bromoform	27	U
98-82-8	Isopropylbenzene	44	
79-34-5	1,1,2,2-Tetrachloroethane	27	U
108-86-1	Bromobenzene	27	U
96-18-4	1,2,3-Trichloropropane	27	U
103-65-1	n-Propylbenzene	87	
95-49-8	2-Chlorotoluene	27	U
108-67-8	1,3,5-Trimethylbenzene	27	U
106-43-4	4-Chlorotoluene	27	U
98-06-6	tert-Butylbenzene	27	U
95-63-6	1,2,4-Trimethylbenzene	74	
135-98-8	sec-Butylbenzene	160	
99-87-6	4-Isopropyltoluene	17	J
541-73-1	1,3-Dichlorobenzene	27	U
106-46-7	1,4-Dichlorobenzene	27	U
104-51-8	n-Butylbenzene	220	
95-50-1	1,2-Dichlorobenzene	27	U
96-12-8	1,2-Dibromo-3-chloropropane	27	U
120-82-1	1,2,4-Trichlorobenzene	27	U
87-68-3	Hexachlorobutadiene	27	U
87-61-6	1,2,3-Trichlorobenzene	27	U
91-20-3	Naphthalene	27	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-22 (18)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-03B

Sample wt/vol: 1.11 (g/mL) G Lab File ID: V6G0838.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 17 Date Analyzed: 09/19/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	874-41-9	Benzene, 1-ethyl-2,4-dimethy	13.435	1200	NJ
02		Unknown-01	13.557	850	J
03	15932-80-6	Cyclohexanone, 5-methyl-2-(1	13.739	1300	NJ
04	488-23-3	Benzene, 1,2,3,4-tetramethyl	13.946	1400	NJ
05	527-84-4	Benzene, 1-methyl-2-(1-methy	14.031	960	NJ
06	767-58-8	Indan, 1-methyl-	14.409	2200	NJ
07	2049-95-8	Benzene, (1,1-dimethylpropyl	14.524	870	NJ
08	17301-23-4	Undecane, 2,6-dimethyl-	14.573	2000	NJ
09		Unknown-02	14.822	1500	J
10	17059-48-2	1H-Indene, 2,3-dihydro-1,6-d	14.932	1200	NJ
11	6682-71-9	1H-Indene, 2,3-dihydro-4,7-d	15.510	980	NJ
12	6682-71-9	1H-Indene, 2,3-dihydro-4,7-d	15.704	980	NJ
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-23 (5.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-04B

Sample wt/vol: 5.52 (g/mL) G Lab File ID: V6G0839.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 11 Date Analyzed: 09/19/2008

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	5.1	U
74-87-3	Chloromethane	5.1	U
75-01-4	Vinyl chloride	5.1	U
74-83-9	Bromomethane	5.1	U
75-00-3	Chloroethane	5.1	U
75-69-4	Trichlorofluoromethane	5.1	U
75-35-4	1,1-Dichloroethene	5.1	U
67-64-1	Acetone	66	
74-88-4	Iodomethane	5.1	U
75-15-0	Carbon disulfide	5.1	U
75-09-2	Methylene chloride	27	
156-60-5	trans-1,2-Dichloroethene	5.1	U
1634-04-4	Methyl tert-butyl ether	5.1	U
75-34-3	1,1-Dichloroethane	5.1	U
108-05-4	Vinyl acetate	5.1	U
78-93-3	2-Butanone	11	
156-59-2	cis-1,2-Dichloroethene	5.1	U
594-20-7	2,2-Dichloropropane	5.1	U
74-97-5	Bromochloromethane	5.1	U
67-66-3	Chloroform	5.1	U
71-55-6	1,1,1-Trichloroethane	5.1	U
563-58-6	1,1-Dichloropropene	5.1	U
56-23-5	Carbon tetrachloride	5.1	U
107-06-2	1,2-Dichloroethane	5.1	U
71-43-2	Benzene	5.1	U
79-01-6	Trichloroethene	5.1	U
78-87-5	1,2-Dichloropropane	5.1	U
74-95-3	Dibromomethane	5.1	U
75-27-4	Bromodichloromethane	5.1	U
10061-01-5	cis-1,3-Dichloropropene	5.1	U
108-10-1	4-Methyl-2-pentanone	5.1	U
108-88-3	Toluene	4.5	J
10061-02-6	trans-1,3-Dichloropropene	5.1	U
79-00-5	1,1,2-Trichloroethane	5.1	U
142-28-9	1,3-Dichloropropane	5.1	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-23 (5.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-04B

Sample wt/vol: 5.52 (g/mL) G Lab File ID: V6G0839.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 11 Date Analyzed: 09/19/2008

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
127-18-4	Tetrachloroethene	5.1	U
591-78-6	2-Hexanone	5.1	U
124-48-1	Dibromochloromethane	5.1	U
106-93-4	1,2-Dibromoethane	5.1	U
108-90-7	Chlorobenzene	5.1	U
630-20-6	1,1,1,2-Tetrachloroethane	5.1	U
100-41-4	Ethylbenzene	5.1	U
1330-20-7	m,p-Xylene	4.3	J
95-47-6	o-Xylene	2.1	J
1330-20-7	Xylene (Total)	6.4	
100-42-5	Styrene	5.1	U
75-25-2	Bromoform	5.1	U
98-82-8	Isopropylbenzene	5.1	U
79-34-5	1,1,2,2-Tetrachloroethane	5.1	U
108-86-1	Bromobenzene	5.1	U
96-18-4	1,2,3-Trichloropropane	5.1	U
103-65-1	n-Propylbenzene	5.1	U
95-49-8	2-Chlorotoluene	5.1	U
108-67-8	1,3,5-Trimethylbenzene	18	
106-43-4	4-Chlorotoluene	5.1	U
98-06-6	tert-Butylbenzene	5.1	U
95-63-6	1,2,4-Trimethylbenzene	37	
135-98-8	sec-Butylbenzene	6.3	
99-87-6	4-Isopropyltoluene	15	
541-73-1	1,3-Dichlorobenzene	5.1	U
106-46-7	1,4-Dichlorobenzene	5.1	U
104-51-8	n-Butylbenzene	15	
95-50-1	1,2-Dichlorobenzene	5.1	U
96-12-8	1,2-Dibromo-3-chloropropane	5.1	U
120-82-1	1,2,4-Trichlorobenzene	5.1	U
87-68-3	Hexachlorobutadiene	5.1	U
87-61-6	1,2,3-Trichlorobenzene	5.1	U
91-20-3	Naphthalene	5.1	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-23 (5.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-04B

Sample wt/vol: 5.52 (g/mL) G Lab File ID: V6G0839.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 11 Date Analyzed: 09/19/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	13.558	180	J
02	000152-47-3	trans-Decalin, 2-methyl-	13.734	230	NJ
03		Unknown-02	14.136	190	J
04	1587-04-8	Benzene, 1-methyl-2-(2-prope	14.409	360	NJ
05	17301-23-4	Undecane, 2,6-dimethyl-	14.574	480	NJ
06	4218-48-8	Benzene, 1-ethyl-4-(1-methyl	14.823	310	NJ
07		Unknown-03	14.957	170	J
08		Unknown-04	15.133	170	J
09		Unknown-05	15.194	230	J
10		Unknown-06	15.511	230	J
11	6682-71-9	1H-Indene, 2,3-dihydro-4,7-d	15.705	260	NJ
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-24 (12)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-05B

Sample wt/vol: 5.33 (g/mL) G Lab File ID: V6G0840.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 17 Date Analyzed: 09/19/2008

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	5.7	U
74-87-3	Chloromethane	5.7	U
75-01-4	Vinyl chloride	5.7	U
74-83-9	Bromomethane	5.7	U
75-00-3	Chloroethane	5.7	U
75-69-4	Trichlorofluoromethane	5.7	U
75-35-4	1,1-Dichloroethene	5.7	U
67-64-1	Acetone	5.7	U
74-88-4	Iodomethane	5.7	U
75-15-0	Carbon disulfide	5.7	U
75-09-2	Methylene chloride	15	
156-60-5	trans-1,2-Dichloroethene	5.7	U
1634-04-4	Methyl tert-butyl ether	5.7	U
75-34-3	1,1-Dichloroethane	5.7	U
108-05-4	Vinyl acetate	5.7	U
78-93-3	2-Butanone	5.7	U
156-59-2	cis-1,2-Dichloroethene	5.7	U
594-20-7	2,2-Dichloropropane	5.7	U
74-97-5	Bromochloromethane	5.7	U
67-66-3	Chloroform	5.7	U
71-55-6	1,1,1-Trichloroethane	5.7	U
563-58-6	1,1-Dichloropropene	5.7	U
56-23-5	Carbon tetrachloride	5.7	U
107-06-2	1,2-Dichloroethane	5.7	U
71-43-2	Benzene	5.7	U
79-01-6	Trichloroethene	5.7	U
78-87-5	1,2-Dichloropropane	5.7	U
74-95-3	Dibromomethane	5.7	U
75-27-4	Bromodichloromethane	5.7	U
10061-01-5	cis-1,3-Dichloropropene	5.7	U
108-10-1	4-Methyl-2-pentanone	5.7	U
108-88-3	Toluene	5.7	U
10061-02-6	trans-1,3-Dichloropropene	5.7	U
79-00-5	1,1,2-Trichloroethane	5.7	U
142-28-9	1,3-Dichloropropane	5.7	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-24 (12)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-05B

Sample wt/vol: 5.33 (g/mL) G Lab File ID: V6G0840.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 17 Date Analyzed: 09/19/2008

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
127-18-4	Tetrachloroethene	5.7	U
591-78-6	2-Hexanone	5.7	U
124-48-1	Dibromochloromethane	5.7	U
106-93-4	1,2-Dibromoethane	5.7	U
108-90-7	Chlorobenzene	5.7	U
630-20-6	1,1,1,2-Tetrachloroethane	5.7	U
100-41-4	Ethylbenzene	5.7	U
1330-20-7	m,p-Xylene	5.7	U
95-47-6	o-Xylene	5.7	U
1330-20-7	Xylene (Total)	5.7	U
100-42-5	Styrene	5.7	U
75-25-2	Bromoform	5.7	U
98-82-8	Isopropylbenzene	5.7	U
79-34-5	1,1,2,2-Tetrachloroethane	5.7	U
108-86-1	Bromobenzene	5.7	U
96-18-4	1,2,3-Trichloropropane	5.7	U
103-65-1	n-Propylbenzene	5.7	U
95-49-8	2-Chlorotoluene	5.7	U
108-67-8	1,3,5-Trimethylbenzene	5.7	U
106-43-4	4-Chlorotoluene	5.7	U
98-06-6	tert-Butylbenzene	5.7	U
95-63-6	1,2,4-Trimethylbenzene	5.7	U
135-98-8	sec-Butylbenzene	5.7	U
99-87-6	4-Isopropyltoluene	5.7	U
541-73-1	1,3-Dichlorobenzene	5.7	U
106-46-7	1,4-Dichlorobenzene	5.7	U
104-51-8	n-Butylbenzene	5.7	U
95-50-1	1,2-Dichlorobenzene	5.7	U
96-12-8	1,2-Dibromo-3-chloropropane	5.7	U
120-82-1	1,2,4-Trichlorobenzene	5.7	U
87-68-3	Hexachlorobutadiene	5.7	U
87-61-6	1,2,3-Trichlorobenzene	5.7	U
91-20-3	Naphthalene	5.7	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-24 (12)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-05B

Sample wt/vol: 5.33 (g/mL) G Lab File ID: V6G0840.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/11/2008

% Moisture: not dec. 17 Date Analyzed: 09/19/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	3891-98-3	Dodecane, 2,6,10-trimethyl-	16.267	15	NJ
02	91-57-6	Naphthalene, 2-methyl-	16.467	11	NJ
03		Unknown-01	16.626	21	J
04		Unknown-02	17.027	12	J
05		Unknown-03	17.070	18	J
06	1795-15-9	Cyclohexane, octyl-	17.149	13	NJ
07		Unknown-04	17.325	14	J
08	582-16-1	Naphthalene, 2,7-dimethyl-	17.404	38	NJ
09	581-40-8	Naphthalene, 2,3-dimethyl-	17.581	28	NJ
10	582-16-1	Naphthalene, 2,7-dimethyl-	17.629	22	NJ
11	575-41-7	Naphthalene, 1,3-dimethyl-	17.879	18	NJ
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-26 (5.5)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1549-02B

Sample wt/vol: 5.24 (g/mL) G

Lab File ID: V5K1031.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/13/2008

% Moisture: not dec. 14

Date Analyzed: 09/21/2008

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	5.5	U
74-87-3	Chloromethane	5.5	U
75-01-4	Vinyl chloride	5.5	U
74-83-9	Bromomethane	5.5	U
75-00-3	Chloroethane	5.5	U
75-69-4	Trichlorofluoromethane	5.5	U
75-35-4	1,1-Dichloroethene	5.5	U
67-64-1	Acetone	5.5	U
74-88-4	Iodomethane	5.5	U
75-15-0	Carbon disulfide	5.5	U
75-09-2	Methylene chloride	7.2	
156-60-5	trans-1,2-Dichloroethene	5.5	U
1634-04-4	Methyl tert-butyl ether	5.5	U
75-34-3	1,1-Dichloroethane	5.5	U
108-05-4	Vinyl acetate	5.5	U
78-93-3	2-Butanone	5.5	U
156-59-2	cis-1,2-Dichloroethene	5.5	U
594-20-7	2,2-Dichloropropane	5.5	U
74-97-5	Bromochloromethane	5.5	U
67-66-3	Chloroform	5.5	U
71-55-6	1,1,1-Trichloroethane	5.5	U
563-58-6	1,1-Dichloropropene	5.5	U
56-23-5	Carbon tetrachloride	5.5	U
107-06-2	1,2-Dichloroethane	5.5	U
71-43-2	Benzene	5.5	U
79-01-6	Trichloroethene	5.5	U
78-87-5	1,2-Dichloropropane	5.5	U
74-95-3	Dibromomethane	5.5	U
75-27-4	Bromodichloromethane	5.5	U
10061-01-5	cis-1,3-Dichloropropene	5.5	U
108-10-1	4-Methyl-2-pentanone	5.5	U
108-88-3	Toluene	5.5	U
10061-02-6	trans-1,3-Dichloropropene	5.5	U
79-00-5	1,1,2-Trichloroethane	5.5	U
142-28-9	1,3-Dichloropropane	5.5	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-26 (5.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-02B

Sample wt/vol: 5.24 (g/mL) G Lab File ID: V5K1031.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 14 Date Analyzed: 09/21/2008

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
127-18-4	Tetrachloroethene	5.5	U
591-78-6	2-Hexanone	5.5	U
124-48-1	Dibromochloromethane	5.5	U
106-93-4	1,2-Dibromoethane	5.5	U
108-90-7	Chlorobenzene	5.5	U
630-20-6	1,1,1,2-Tetrachloroethane	5.5	U
100-41-4	Ethylbenzene	5.5	U
1330-20-7	m,p-Xylene	5.5	U
95-47-6	o-Xylene	5.5	U
1330-20-7	Xylene (Total)	5.5	U
100-42-5	Styrene	5.5	U
75-25-2	Bromoform	5.5	U
98-82-8	Isopropylbenzene	5.5	U
79-34-5	1,1,2,2-Tetrachloroethane	5.5	U
108-86-1	Bromobenzene	5.5	U
96-18-4	1,2,3-Trichloropropane	5.5	U
103-65-1	n-Propylbenzene	5.5	U
95-49-8	2-Chlorotoluene	5.5	U
108-67-8	1,3,5-Trimethylbenzene	5.5	U
106-43-4	4-Chlorotoluene	5.5	U
98-06-6	tert-Butylbenzene	5.5	U
95-63-6	1,2,4-Trimethylbenzene	5.5	U
135-98-8	sec-Butylbenzene	5.5	U
99-87-6	4-Isopropyltoluene	5.5	U
541-73-1	1,3-Dichlorobenzene	5.5	U
106-46-7	1,4-Dichlorobenzene	5.5	U
104-51-8	n-Butylbenzene	5.5	U
95-50-1	1,2-Dichlorobenzene	5.5	U
96-12-8	1,2-Dibromo-3-chloropropane	5.5	U
120-82-1	1,2,4-Trichlorobenzene	5.5	U
87-68-3	Hexachlorobutadiene	5.5	U
87-61-6	1,2,3-Trichlorobenzene	5.5	U
91-20-3	Naphthalene	2.5	J

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-26 (5.5)

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1549
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1549-02B
Sample wt/vol: 5.24 (g/mL) G
Lab File ID: V5K1031.D
Level: (TRACE or LOW/MED) LOW
Date Received: 09/13/2008
% Moisture: not dec. 14
Date Analyzed: 09/21/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-27 (9)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-07B

Sample wt/vol: 5.54 (g/mL) G Lab File ID: V5K1036.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 16 Date Analyzed: 09/21/2008

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	5.4	U
74-87-3	Chloromethane	5.4	U
75-01-4	Vinyl chloride	5.4	U
74-83-9	Bromomethane	5.4	U
75-00-3	Chloroethane	5.4	U
75-69-4	Trichlorofluoromethane	5.4	U
75-35-4	1,1-Dichloroethene	5.4	U
67-64-1	Acetone	5.4	U
74-88-4	Iodomethane	5.4	U
75-15-0	Carbon disulfide	5.4	U
75-09-2	Methylene chloride	5.4	U
156-60-5	trans-1,2-Dichloroethene	5.4	U
1634-04-4	Methyl tert-butyl ether	5.4	U
75-34-3	1,1-Dichloroethane	5.4	U
108-05-4	Vinyl acetate	5.4	U
78-93-3	2-Butanone	5.4	U
156-59-2	cis-1,2-Dichloroethene	5.4	U
594-20-7	2,2-Dichloropropane	5.4	U
74-97-5	Bromochloromethane	5.4	U
67-66-3	Chloroform	5.4	U
71-55-6	1,1,1-Trichloroethane	5.4	U
563-58-6	1,1-Dichloropropene	5.4	U
56-23-5	Carbon tetrachloride	5.4	U
107-06-2	1,2-Dichloroethane	5.4	U
71-43-2	Benzene	5.4	U
79-01-6	Trichloroethene	5.4	U
78-87-5	1,2-Dichloropropane	5.4	U
74-95-3	Dibromomethane	5.4	U
75-27-4	Bromodichloromethane	5.4	U
10061-01-5	cis-1,3-Dichloropropene	5.4	U
108-10-1	4-Methyl-2-pentanone	5.4	U
108-88-3	Toluene	5.4	U
10061-02-6	trans-1,3-Dichloropropene	5.4	U
79-00-5	1,1,2-Trichloroethane	5.4	U
142-28-9	1,3-Dichloropropane	5.4	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-27 (9)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-07B

Sample wt/vol: 5.54 (g/mL) G Lab File ID: V5K1036.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 16 Date Analyzed: 09/21/2008

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
127-18-4	Tetrachloroethene	5.4	U
591-78-6	2-Hexanone	5.4	U
124-48-1	Dibromochloromethane	5.4	U
106-93-4	1,2-Dibromoethane	5.4	U
108-90-7	Chlorobenzene	5.4	U
630-20-6	1,1,1,2-Tetrachloroethane	5.4	U
100-41-4	Ethylbenzene	5.4	U
1330-20-7	m,p-Xylene	5.4	U
95-47-6	o-Xylene	5.4	U
1330-20-7	Xylene (Total)	5.4	U
100-42-5	Styrene	5.4	U
75-25-2	Bromoform	5.4	U
98-82-8	Isopropylbenzene	5.4	U
79-34-5	1,1,2,2-Tetrachloroethane	5.4	U
108-86-1	Bromobenzene	5.4	U
96-18-4	1,2,3-Trichloropropane	5.4	U
103-65-1	n-Propylbenzene	5.4	U
95-49-8	2-Chlorotoluene	5.4	U
108-67-8	1,3,5-Trimethylbenzene	5.4	U
106-43-4	4-Chlorotoluene	5.4	U
98-06-6	tert-Butylbenzene	5.4	U
95-63-6	1,2,4-Trimethylbenzene	5.4	U
135-98-8	sec-Butylbenzene	5.4	U
99-87-6	4-Isopropyltoluene	5.4	U
541-73-1	1,3-Dichlorobenzene	5.4	U
106-46-7	1,4-Dichlorobenzene	5.4	U
104-51-8	n-Butylbenzene	5.4	U
95-50-1	1,2-Dichlorobenzene	5.4	U
96-12-8	1,2-Dibromo-3-chloropropane	5.4	U
120-82-1	1,2,4-Trichlorobenzene	5.4	U
87-68-3	Hexachlorobutadiene	5.4	U
87-61-6	1,2,3-Trichlorobenzene	5.4	U
91-20-3	Naphthalene	5.4	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-27 (9)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-07B

Sample wt/vol: 5.54 (g/mL) G Lab File ID: V5K1036.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 16 Date Analyzed: 09/21/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-28 (8)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-05B

Sample wt/vol: 5.77 (g/mL) G Lab File ID: V5K1034.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 14 Date Analyzed: 09/21/2008

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
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	2.2	J
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
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	5.0	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-28 (8)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-05B

Sample wt/vol: 5.77 (g/mL) G Lab File ID: V5K1034.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 14 Date Analyzed: 09/21/2008

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
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
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-28 (8)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-05B

Sample wt/vol: 5.77 (g/mL) G Lab File ID: V5K1034.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 14 Date Analyzed: 09/21/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-29 (8)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-01B

Sample wt/vol: 4.80 (g/mL) G Lab File ID: V5K1085.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 16 Date Analyzed: 09/23/2008

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
74-88-4	Iodomethane	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
108-05-4	Vinyl acetate	6.2	U
78-93-3	2-Butanone	6.2	U
156-59-2	cis-1,2-Dichloroethene	6.2	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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	15	
78-87-5	1,2-Dichloropropane	6.2	U
74-95-3	Dibromomethane	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	4.6	J
10061-02-6	trans-1,3-Dichloropropene	6.2	U
79-00-5	1,1,2-Trichloroethane	6.2	U
142-28-9	1,3-Dichloropropane	6.2	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-29 (8)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-01B

Sample wt/vol: 4.80 (g/mL) G Lab File ID: V5K1085.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 16 Date Analyzed: 09/23/2008

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
127-18-4	Tetrachloroethene	6.2	U
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
630-20-6	1,1,1,2-Tetrachloroethane	6.2	U
100-41-4	Ethylbenzene	6.2	U
1330-20-7	m,p-Xylene	6.2	U
95-47-6	o-Xylene	6.2	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	6.2	U
96-18-4	1,2,3-Trichloropropane	6.2	U
103-65-1	n-Propylbenzene	6.2	U
95-49-8	2-Chlorotoluene	6.2	U
108-67-8	1,3,5-Trimethylbenzene	6.2	U
106-43-4	4-Chlorotoluene	6.2	U
98-06-6	tert-Butylbenzene	6.2	U
95-63-6	1,2,4-Trimethylbenzene	6.2	U
135-98-8	sec-Butylbenzene	6.2	U
99-87-6	4-Isopropyltoluene	6.2	U
541-73-1	1,3-Dichlorobenzene	6.2	U
106-46-7	1,4-Dichlorobenzene	6.2	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	6.2	U
87-61-6	1,2,3-Trichlorobenzene	6.2	U
91-20-3	Naphthalene	6.2	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-29 (8)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-01B

Sample wt/vol: 4.80 (g/mL) G Lab File ID: V5K1085.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 16 Date Analyzed: 09/23/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-31 (5.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-04B

Sample wt/vol: 5.14 (g/mL) G Lab File ID: V5K1033.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 19 Date Analyzed: 09/21/2008

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	6.0	U
74-88-4	Iodomethane	6.0	U
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
108-05-4	Vinyl acetate	6.0	U
78-93-3	2-Butanone	6.0	U
156-59-2	cis-1,2-Dichloroethene	6.0	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	6.0	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-31 (5.5)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1549-04B

Sample wt/vol: 5.14 (g/mL) G

Lab File ID: V5K1033.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/13/2008

% Moisture: not dec. 19

Date Analyzed: 09/21/2008

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
127-18-4	Tetrachloroethene	6.0	U
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
630-20-6	1,1,1,2-Tetrachloroethane	6.0	U
100-41-4	Ethylbenzene	6.0	U
1330-20-7	m,p-Xylene	6.0	U
95-47-6	o-Xylene	6.0	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	6.0	U
96-18-4	1,2,3-Trichloropropane	6.0	U
103-65-1	n-Propylbenzene	6.0	U
95-49-8	2-Chlorotoluene	6.0	U
108-67-8	1,3,5-Trimethylbenzene	6.0	U
106-43-4	4-Chlorotoluene	6.0	U
98-06-6	tert-Butylbenzene	6.0	U
95-63-6	1,2,4-Trimethylbenzene	6.0	U
135-98-8	sec-Butylbenzene	6.0	U
99-87-6	4-Isopropyltoluene	6.0	U
541-73-1	1,3-Dichlorobenzene	6.0	U
106-46-7	1,4-Dichlorobenzene	6.0	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	6.0	U
87-61-6	1,2,3-Trichlorobenzene	6.0	U
91-20-3	Naphthalene	6.0	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-31 (5.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-04B

Sample wt/vol: 5.14 (g/mL) G Lab File ID: V5K1033.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 19 Date Analyzed: 09/21/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-33 (1.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-03B

Sample wt/vol: 5.18 (g/mL) G Lab File ID: V5K1032.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 39 Date Analyzed: 09/21/2008

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	7.9	U
74-88-4	Iodomethane	7.9	U
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
108-05-4	Vinyl acetate	7.9	U
78-93-3	2-Butanone	7.9	U
156-59-2	cis-1,2-Dichloroethene	7.9	U
594-20-7	2,2-Dichloropropane	7.9	U
74-97-5	Bromochloromethane	7.9	U
67-66-3	Chloroform	7.9	U
71-55-6	1,1,1-Trichloroethane	7.9	U
563-58-6	1,1-Dichloropropene	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	7.9	U
78-87-5	1,2-Dichloropropane	7.9	U
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	7.9	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-33 (1.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-03B

Sample wt/vol: 5.18 (g/mL) G Lab File ID: V5K1032.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 39 Date Analyzed: 09/21/2008

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
127-18-4	Tetrachloroethene	7.9	U
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
630-20-6	1,1,1,2-Tetrachloroethane	7.9	U
100-41-4	Ethylbenzene	7.9	U
1330-20-7	m,p-Xylene	7.9	U
95-47-6	o-Xylene	7.9	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	7.9	U
96-18-4	1,2,3-Trichloropropane	7.9	U
103-65-1	n-Propylbenzene	7.9	U
95-49-8	2-Chlorotoluene	7.9	U
108-67-8	1,3,5-Trimethylbenzene	7.9	U
106-43-4	4-Chlorotoluene	7.9	U
98-06-6	tert-Butylbenzene	7.9	U
95-63-6	1,2,4-Trimethylbenzene	7.9	U
135-98-8	sec-Butylbenzene	7.9	U
99-87-6	4-Isopropyltoluene	7.9	U
541-73-1	1,3-Dichlorobenzene	7.9	U
106-46-7	1,4-Dichlorobenzene	7.9	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	7.9	U
87-61-6	1,2,3-Trichlorobenzene	7.9	U
91-20-3	Naphthalene	7.9	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-33 (1.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-03B

Sample wt/vol: 5.18 (g/mL) G Lab File ID: V5K1032.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 39 Date Analyzed: 09/21/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-35 (10)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-08B

Sample wt/vol: 5.21 (g/mL) G Lab File ID: V5K1037.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 10 Date Analyzed: 09/21/2008

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	5.3	U
74-87-3	Chloromethane	5.3	U
75-01-4	Vinyl chloride	5.3	U
74-83-9	Bromomethane	5.3	U
75-00-3	Chloroethane	5.3	U
75-69-4	Trichlorofluoromethane	5.3	U
75-35-4	1,1-Dichloroethene	5.3	U
67-64-1	Acetone	5.3	U
74-88-4	Iodomethane	5.3	U
75-15-0	Carbon disulfide	5.3	U
75-09-2	Methylene chloride	5.3	U
156-60-5	trans-1,2-Dichloroethene	5.3	U
1634-04-4	Methyl tert-butyl ether	5.3	U
75-34-3	1,1-Dichloroethane	5.3	U
108-05-4	Vinyl acetate	5.3	U
78-93-3	2-Butanone	5.3	U
156-59-2	cis-1,2-Dichloroethene	5.3	U
594-20-7	2,2-Dichloropropane	5.3	U
74-97-5	Bromochloromethane	5.3	U
67-66-3	Chloroform	5.3	U
71-55-6	1,1,1-Trichloroethane	5.3	U
563-58-6	1,1-Dichloropropene	5.3	U
56-23-5	Carbon tetrachloride	5.3	U
107-06-2	1,2-Dichloroethane	5.3	U
71-43-2	Benzene	5.3	U
79-01-6	Trichloroethene	5.3	U
78-87-5	1,2-Dichloropropane	5.3	U
74-95-3	Dibromomethane	5.3	U
75-27-4	Bromodichloromethane	5.3	U
10061-01-5	cis-1,3-Dichloropropene	5.3	U
108-10-1	4-Methyl-2-pentanone	5.3	U
108-88-3	Toluene	5.3	U
10061-02-6	trans-1,3-Dichloropropene	5.3	U
79-00-5	1,1,2-Trichloroethane	5.3	U
142-28-9	1,3-Dichloropropane	5.3	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-35 (10)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-08B

Sample wt/vol: 5.21 (g/mL) G Lab File ID: V5K1037.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 10 Date Analyzed: 09/21/2008

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
127-18-4	Tetrachloroethene	5.3	U
591-78-6	2-Hexanone	5.3	U
124-48-1	Dibromochloromethane	5.3	U
106-93-4	1,2-Dibromoethane	5.3	U
108-90-7	Chlorobenzene	5.3	U
630-20-6	1,1,1,2-Tetrachloroethane	5.3	U
100-41-4	Ethylbenzene	5.3	U
1330-20-7	m,p-Xylene	5.3	U
95-47-6	o-Xylene	5.3	U
1330-20-7	Xylene (Total)	5.3	U
100-42-5	Styrene	5.3	U
75-25-2	Bromoform	5.3	U
98-82-8	Isopropylbenzene	5.3	U
79-34-5	1,1,2,2-Tetrachloroethane	5.3	U
108-86-1	Bromobenzene	5.3	U
96-18-4	1,2,3-Trichloropropane	5.3	U
103-65-1	n-Propylbenzene	5.3	U
95-49-8	2-Chlorotoluene	5.3	U
108-67-8	1,3,5-Trimethylbenzene	5.3	U
106-43-4	4-Chlorotoluene	5.3	U
98-06-6	tert-Butylbenzene	5.3	U
95-63-6	1,2,4-Trimethylbenzene	5.3	U
135-98-8	sec-Butylbenzene	5.3	U
99-87-6	4-Isopropyltoluene	5.3	U
541-73-1	1,3-Dichlorobenzene	5.3	U
106-46-7	1,4-Dichlorobenzene	5.3	U
104-51-8	n-Butylbenzene	5.3	U
95-50-1	1,2-Dichlorobenzene	5.3	U
96-12-8	1,2-Dibromo-3-chloropropane	5.3	U
120-82-1	1,2,4-Trichlorobenzene	5.3	U
87-68-3	Hexachlorobutadiene	5.3	U
87-61-6	1,2,3-Trichlorobenzene	5.3	U
91-20-3	Naphthalene	5.3	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-35 (10)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-08B

Sample wt/vol: 5.21 (g/mL) G Lab File ID: V5K1037.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 10 Date Analyzed: 09/21/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-36 (5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-09B

Sample wt/vol: 5.13 (g/mL) G Lab File ID: V5K1038.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 17 Date Analyzed: 09/21/2008

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	5.9	U
74-87-3	Chloromethane	5.9	U
75-01-4	Vinyl chloride	5.9	U
74-83-9	Bromomethane	5.9	U
75-00-3	Chloroethane	5.9	U
75-69-4	Trichlorofluoromethane	5.9	U
75-35-4	1,1-Dichloroethene	5.9	U
67-64-1	Acetone	5.9	U
74-88-4	Iodomethane	5.9	U
75-15-0	Carbon disulfide	5.9	U
75-09-2	Methylene chloride	5.9	U
156-60-5	trans-1,2-Dichloroethene	5.9	U
1634-04-4	Methyl tert-butyl ether	5.9	U
75-34-3	1,1-Dichloroethane	5.9	U
108-05-4	Vinyl acetate	5.9	U
78-93-3	2-Butanone	5.9	U
156-59-2	cis-1,2-Dichloroethene	5.9	U
594-20-7	2,2-Dichloropropane	5.9	U
74-97-5	Bromochloromethane	5.9	U
67-66-3	Chloroform	5.9	U
71-55-6	1,1,1-Trichloroethane	5.9	U
563-58-6	1,1-Dichloropropene	5.9	U
56-23-5	Carbon tetrachloride	5.9	U
107-06-2	1,2-Dichloroethane	5.9	U
71-43-2	Benzene	5.9	U
79-01-6	Trichloroethene	5.9	U
78-87-5	1,2-Dichloropropane	5.9	U
74-95-3	Dibromomethane	5.9	U
75-27-4	Bromodichloromethane	5.9	U
10061-01-5	cis-1,3-Dichloropropene	5.9	U
108-10-1	4-Methyl-2-pentanone	5.9	U
108-88-3	Toluene	5.9	U
10061-02-6	trans-1,3-Dichloropropene	5.9	U
79-00-5	1,1,2-Trichloroethane	5.9	U
142-28-9	1,3-Dichloropropane	5.9	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-36 (5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-09B

Sample wt/vol: 5.13 (g/mL) G Lab File ID: V5K1038.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 17 Date Analyzed: 09/21/2008

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
127-18-4	Tetrachloroethene	5.9	U
591-78-6	2-Hexanone	5.9	U
124-48-1	Dibromochloromethane	5.9	U
106-93-4	1,2-Dibromoethane	5.9	U
108-90-7	Chlorobenzene	5.9	U
630-20-6	1,1,1,2-Tetrachloroethane	5.9	U
100-41-4	Ethylbenzene	5.9	U
1330-20-7	m,p-Xylene	5.9	U
95-47-6	o-Xylene	5.9	U
1330-20-7	Xylene (Total)	5.9	U
100-42-5	Styrene	5.9	U
75-25-2	Bromoform	5.9	U
98-82-8	Isopropylbenzene	5.9	U
79-34-5	1,1,2,2-Tetrachloroethane	5.9	U
108-86-1	Bromobenzene	5.9	U
96-18-4	1,2,3-Trichloropropane	5.9	U
103-65-1	n-Propylbenzene	5.9	U
95-49-8	2-Chlorotoluene	5.9	U
108-67-8	1,3,5-Trimethylbenzene	5.9	U
106-43-4	4-Chlorotoluene	5.9	U
98-06-6	tert-Butylbenzene	5.9	U
95-63-6	1,2,4-Trimethylbenzene	5.9	U
135-98-8	sec-Butylbenzene	5.9	U
99-87-6	4-Isopropyltoluene	5.9	U
541-73-1	1,3-Dichlorobenzene	5.9	U
106-46-7	1,4-Dichlorobenzene	5.9	U
104-51-8	n-Butylbenzene	5.9	U
95-50-1	1,2-Dichlorobenzene	5.9	U
96-12-8	1,2-Dibromo-3-chloropropane	5.9	U
120-82-1	1,2,4-Trichlorobenzene	5.9	U
87-68-3	Hexachlorobutadiene	5.9	U
87-61-6	1,2,3-Trichlorobenzene	5.9	U
91-20-3	Naphthalene	5.9	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-36 (5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-09B

Sample wt/vol: 5.13 (g/mL) G Lab File ID: V5K1038.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 17 Date Analyzed: 09/21/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-38W (20)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-10B

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5K1086.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 10 Date Analyzed: 09/23/2008

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	5.4	U
74-87-3	Chloromethane	5.4	U
75-01-4	Vinyl chloride	5.4	U
74-83-9	Bromomethane	5.4	U
75-00-3	Chloroethane	5.4	U
75-69-4	Trichlorofluoromethane	5.4	U
75-35-4	1,1-Dichloroethene	5.4	U
67-64-1	Acetone	5.4	U
74-88-4	Iodomethane	5.4	U
75-15-0	Carbon disulfide	5.4	U
75-09-2	Methylene chloride	3.6	J
156-60-5	trans-1,2-Dichloroethene	5.4	U
1634-04-4	Methyl tert-butyl ether	5.4	U
75-34-3	1,1-Dichloroethane	5.4	U
108-05-4	Vinyl acetate	5.4	U
78-93-3	2-Butanone	5.4	U
156-59-2	cis-1,2-Dichloroethene	5.4	U
594-20-7	2,2-Dichloropropane	5.4	U
74-97-5	Bromochloromethane	5.4	U
67-66-3	Chloroform	5.4	U
71-55-6	1,1,1-Trichloroethane	5.4	U
563-58-6	1,1-Dichloropropene	5.4	U
56-23-5	Carbon tetrachloride	5.4	U
107-06-2	1,2-Dichloroethane	5.4	U
71-43-2	Benzene	5.4	U
79-01-6	Trichloroethene	14	
78-87-5	1,2-Dichloropropane	5.4	U
74-95-3	Dibromomethane	5.4	U
75-27-4	Bromodichloromethane	5.4	U
10061-01-5	cis-1,3-Dichloropropene	5.4	U
108-10-1	4-Methyl-2-pentanone	5.4	U
108-88-3	Toluene	5.3	J
10061-02-6	trans-1,3-Dichloropropene	5.4	U
79-00-5	1,1,2-Trichloroethane	5.4	U
142-28-9	1,3-Dichloropropane	5.4	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-38W (20)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-10B

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5K1086.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 10 Date Analyzed: 09/23/2008

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
127-18-4	Tetrachloroethene	5.4	U
591-78-6	2-Hexanone	5.4	U
124-48-1	Dibromochloromethane	5.4	U
106-93-4	1,2-Dibromoethane	5.4	U
108-90-7	Chlorobenzene	5.4	U
630-20-6	1,1,1,2-Tetrachloroethane	5.4	U
100-41-4	Ethylbenzene	5.4	U
1330-20-7	m,p-Xylene	5.4	U
95-47-6	o-Xylene	5.4	U
1330-20-7	Xylene (Total)	5.4	U
100-42-5	Styrene	5.4	U
75-25-2	Bromoform	5.4	U
98-82-8	Isopropylbenzene	5.4	U
79-34-5	1,1,2,2-Tetrachloroethane	5.4	U
108-86-1	Bromobenzene	5.4	U
96-18-4	1,2,3-Trichloropropane	5.4	U
103-65-1	n-Propylbenzene	5.4	U
95-49-8	2-Chlorotoluene	5.4	U
108-67-8	1,3,5-Trimethylbenzene	5.4	U
106-43-4	4-Chlorotoluene	5.4	U
98-06-6	tert-Butylbenzene	5.4	U
95-63-6	1,2,4-Trimethylbenzene	5.4	U
135-98-8	sec-Butylbenzene	5.4	U
99-87-6	4-Isopropyltoluene	5.4	U
541-73-1	1,3-Dichlorobenzene	5.4	U
106-46-7	1,4-Dichlorobenzene	5.4	U
104-51-8	n-Butylbenzene	5.4	U
95-50-1	1,2-Dichlorobenzene	5.4	U
96-12-8	1,2-Dibromo-3-chloropropane	5.4	U
120-82-1	1,2,4-Trichlorobenzene	5.4	U
87-68-3	Hexachlorobutadiene	5.4	U
87-61-6	1,2,3-Trichlorobenzene	5.4	U
91-20-3	Naphthalene	5.4	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-38W (20)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-10B

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5K1086.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 10 Date Analyzed: 09/23/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-38E (10)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1549-11B

Sample wt/vol: 5.13 (g/mL) G

Lab File ID: V5K1040.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/13/2008

% Moisture: not dec. 9.0

Date Analyzed: 09/21/2008

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	5.4	U
74-87-3	Chloromethane	5.4	U
75-01-4	Vinyl chloride	5.4	U
74-83-9	Bromomethane	5.4	U
75-00-3	Chloroethane	5.4	U
75-69-4	Trichlorofluoromethane	5.4	U
75-35-4	1,1-Dichloroethene	5.4	U
67-64-1	Acetone	5.4	U
74-88-4	Iodomethane	5.4	U
75-15-0	Carbon disulfide	5.4	U
75-09-2	Methylene chloride	8.0	
156-60-5	trans-1,2-Dichloroethene	5.4	U
1634-04-4	Methyl tert-butyl ether	5.4	U
75-34-3	1,1-Dichloroethane	5.4	U
108-05-4	Vinyl acetate	5.4	U
78-93-3	2-Butanone	5.4	U
156-59-2	cis-1,2-Dichloroethene	5.4	U
594-20-7	2,2-Dichloropropane	5.4	U
74-97-5	Bromochloromethane	5.4	U
67-66-3	Chloroform	5.4	U
71-55-6	1,1,1-Trichloroethane	5.4	U
563-58-6	1,1-Dichloropropene	5.4	U
56-23-5	Carbon tetrachloride	5.4	U
107-06-2	1,2-Dichloroethane	5.4	U
71-43-2	Benzene	5.4	U
79-01-6	Trichloroethene	5.4	U
78-87-5	1,2-Dichloropropane	5.4	U
74-95-3	Dibromomethane	5.4	U
75-27-4	Bromodichloromethane	5.4	U
10061-01-5	cis-1,3-Dichloropropene	5.4	U
108-10-1	4-Methyl-2-pentanone	5.4	U
108-88-3	Toluene	5.4	U
10061-02-6	trans-1,3-Dichloropropene	5.4	U
79-00-5	1,1,2-Trichloroethane	5.4	U
142-28-9	1,3-Dichloropropane	5.4	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-38E (10)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-11B

Sample wt/vol: 5.13 (g/mL) G Lab File ID: V5K1040.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 9.0 Date Analyzed: 09/21/2008

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
127-18-4	Tetrachloroethene	17	
591-78-6	2-Hexanone	5.4	U
124-48-1	Dibromochloromethane	5.4	U
106-93-4	1,2-Dibromoethane	5.4	U
108-90-7	Chlorobenzene	5.4	U
630-20-6	1,1,1,2-Tetrachloroethane	5.4	U
100-41-4	Ethylbenzene	5.4	U
1330-20-7	m,p-Xylene	5.4	U
95-47-6	o-Xylene	5.4	U
1330-20-7	Xylene (Total)	5.4	U
100-42-5	Styrene	5.4	U
75-25-2	Bromoform	5.4	U
98-82-8	Isopropylbenzene	5.4	U
79-34-5	1,1,2,2-Tetrachloroethane	5.4	U
108-86-1	Bromobenzene	5.4	U
96-18-4	1,2,3-Trichloropropane	5.4	U
103-65-1	n-Propylbenzene	5.4	U
95-49-8	2-Chlorotoluene	5.4	U
108-67-8	1,3,5-Trimethylbenzene	5.4	U
106-43-4	4-Chlorotoluene	5.4	U
98-06-6	tert-Butylbenzene	5.4	U
95-63-6	1,2,4-Trimethylbenzene	5.4	U
135-98-8	sec-Butylbenzene	5.4	U
99-87-6	4-Isopropyltoluene	5.4	U
541-73-1	1,3-Dichlorobenzene	5.4	U
106-46-7	1,4-Dichlorobenzene	5.4	U
104-51-8	n-Butylbenzene	5.4	U
95-50-1	1,2-Dichlorobenzene	5.4	U
96-12-8	1,2-Dibromo-3-chloropropane	5.4	U
120-82-1	1,2,4-Trichlorobenzene	5.4	U
87-68-3	Hexachlorobutadiene	5.4	U
87-61-6	1,2,3-Trichlorobenzene	5.4	U
91-20-3	Naphthalene	5.4	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-38E (10)

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1549
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1549-11B
Sample wt/vol: 5.13 (g/mL) G
Lab File ID: V5K1040.D
Level: (TRACE or LOW/MED) LOW
Date Received: 09/13/2008
% Moisture: not dec. 9.0
Date Analyzed: 09/21/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	14.947	5.6	J
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-38E (20)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-12B

Sample wt/vol: 5.85 (g/mL) G Lab File ID: V5K1041.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 11 Date Analyzed: 09/21/2008

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	4.8	U
74-87-3	Chloromethane	4.8	U
75-01-4	Vinyl chloride	4.8	U
74-83-9	Bromomethane	4.8	U
75-00-3	Chloroethane	4.8	U
75-69-4	Trichlorofluoromethane	4.8	U
75-35-4	1,1-Dichloroethene	4.8	U
67-64-1	Acetone	4.8	U
74-88-4	Iodomethane	4.8	U
75-15-0	Carbon disulfide	4.8	U
75-09-2	Methylene chloride	9.2	
156-60-5	trans-1,2-Dichloroethene	4.8	U
1634-04-4	Methyl tert-butyl ether	4.8	U
75-34-3	1,1-Dichloroethane	4.8	U
108-05-4	Vinyl acetate	4.8	U
78-93-3	2-Butanone	4.8	U
156-59-2	cis-1,2-Dichloroethene	4.8	U
594-20-7	2,2-Dichloropropane	4.8	U
74-97-5	Bromochloromethane	4.8	U
67-66-3	Chloroform	4.8	U
71-55-6	1,1,1-Trichloroethane	4.8	U
563-58-6	1,1-Dichloropropene	4.8	U
56-23-5	Carbon tetrachloride	4.8	U
107-06-2	1,2-Dichloroethane	4.8	U
71-43-2	Benzene	4.6	J
79-01-6	Trichloroethene	4.8	U
78-87-5	1,2-Dichloropropane	4.8	U
74-95-3	Dibromomethane	4.8	U
75-27-4	Bromodichloromethane	4.8	U
10061-01-5	cis-1,3-Dichloropropene	4.8	U
108-10-1	4-Methyl-2-pentanone	4.8	U
108-88-3	Toluene	22	
10061-02-6	trans-1,3-Dichloropropene	4.8	U
79-00-5	1,1,2-Trichloroethane	4.8	U
142-28-9	1,3-Dichloropropane	4.8	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-38E (20)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1549-12B

Sample wt/vol: 5.85 (g/mL) G

Lab File ID: V5K1041.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/13/2008

% Moisture: not dec. 11

Date Analyzed: 09/21/2008

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
127-18-4	Tetrachloroethene	54	
591-78-6	2-Hexanone	4.8	U
124-48-1	Dibromochloromethane	4.8	U
106-93-4	1,2-Dibromoethane	4.8	U
108-90-7	Chlorobenzene	4.8	U
630-20-6	1,1,1,2-Tetrachloroethane	4.8	U
100-41-4	Ethylbenzene	12	
1330-20-7	m,p-Xylene	5.1	
95-47-6	o-Xylene	37	
1330-20-7	Xylene (Total)	42	
100-42-5	Styrene	4.8	U
75-25-2	Bromoform	4.8	U
98-82-8	Isopropylbenzene	4.8	U
79-34-5	1,1,2,2-Tetrachloroethane	4.8	U
108-86-1	Bromobenzene	4.8	U
96-18-4	1,2,3-Trichloropropane	4.8	U
103-65-1	n-Propylbenzene	4.6	J
95-49-8	2-Chlorotoluene	4.8	U
108-67-8	1,3,5-Trimethylbenzene	26	
106-43-4	4-Chlorotoluene	4.8	U
98-06-6	tert-Butylbenzene	4.8	U
95-63-6	1,2,4-Trimethylbenzene	2.9	J
135-98-8	sec-Butylbenzene	4.8	U
99-87-6	4-Isopropyltoluene	4.8	U
541-73-1	1,3-Dichlorobenzene	4.8	U
106-46-7	1,4-Dichlorobenzene	4.8	U
104-51-8	n-Butylbenzene	7.4	
95-50-1	1,2-Dichlorobenzene	4.8	U
96-12-8	1,2-Dibromo-3-chloropropane	4.8	U
120-82-1	1,2,4-Trichlorobenzene	4.8	U
87-68-3	Hexachlorobutadiene	4.8	U
87-61-6	1,2,3-Trichlorobenzene	4.8	U
91-20-3	Naphthalene	4.8	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-38E (20)

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1549
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1549-12B
Sample wt/vol: 5.85 (g/mL) G
Lab File ID: V5K1041.D
Level: (TRACE or LOW/MED) LOW
Date Received: 09/13/2008
% Moisture: not dec. 11
Date Analyzed: 09/21/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	124-18-5	Decane	10.755	51	NJ
02		Unknown-01	11.370	21	J
03	526-73-8	Benzene, 1,2,3-trimethyl-	11.661	45	NJ
04	1120-21-4	Undecane	12.195	54	NJ
05		Unknown-02	12.253	21	J
06	535-77-3	Benzene, 1-methyl-3-(1-methy	12.392	24	NJ
07	934-80-5	Benzene, 4-ethyl-1,2-dimethy	12.474	29	NJ
08	95-93-2	Benzene, 1,2,4,5-tetramethyl	12.961	21	NJ
09	95-93-2	Benzene, 1,2,4,5-tetramethyl	13.031	27	NJ
10		Unknown-03	13.170	20	J
11	2234-20-0	2,4-Dimethylstyrene	13.542	37	NJ
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-39 (21)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-13B

Sample wt/vol: 5.11 (g/mL) G Lab File ID: V5K1042.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 8.0 Date Analyzed: 09/21/2008

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	5.3	U
74-87-3	Chloromethane	5.3	U
75-01-4	Vinyl chloride	5.3	U
74-83-9	Bromomethane	5.3	U
75-00-3	Chloroethane	5.3	U
75-69-4	Trichlorofluoromethane	5.3	U
75-35-4	1,1-Dichloroethene	5.3	U
67-64-1	Acetone	5.3	U
74-88-4	Iodomethane	5.3	U
75-15-0	Carbon disulfide	5.3	U
75-09-2	Methylene chloride	2.3	J
156-60-5	trans-1,2-Dichloroethene	5.3	U
1634-04-4	Methyl tert-butyl ether	5.3	U
75-34-3	1,1-Dichloroethane	5.3	U
108-05-4	Vinyl acetate	5.3	U
78-93-3	2-Butanone	5.3	U
156-59-2	cis-1,2-Dichloroethene	5.3	U
594-20-7	2,2-Dichloropropane	5.3	U
74-97-5	Bromochloromethane	5.3	U
67-66-3	Chloroform	5.3	U
71-55-6	1,1,1-Trichloroethane	5.3	U
563-58-6	1,1-Dichloropropene	5.3	U
56-23-5	Carbon tetrachloride	5.3	U
107-06-2	1,2-Dichloroethane	5.3	U
71-43-2	Benzene	5.3	U
79-01-6	Trichloroethene	5.3	U
78-87-5	1,2-Dichloropropane	5.3	U
74-95-3	Dibromomethane	5.3	U
75-27-4	Bromodichloromethane	5.3	U
10061-01-5	cis-1,3-Dichloropropene	5.3	U
108-10-1	4-Methyl-2-pentanone	5.3	U
108-88-3	Toluene	5.3	U
10061-02-6	trans-1,3-Dichloropropene	5.3	U
79-00-5	1,1,2-Trichloroethane	5.3	U
142-28-9	1,3-Dichloropropane	5.3	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-39 (21)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-13B

Sample wt/vol: 5.11 (g/mL) G Lab File ID: V5K1042.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 8.0 Date Analyzed: 09/21/2008

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
127-18-4	Tetrachloroethene	5.3	U
591-78-6	2-Hexanone	5.3	U
124-48-1	Dibromochloromethane	5.3	U
106-93-4	1,2-Dibromoethane	5.3	U
108-90-7	Chlorobenzene	5.3	U
630-20-6	1,1,1,2-Tetrachloroethane	5.3	U
100-41-4	Ethylbenzene	5.3	U
1330-20-7	m,p-Xylene	5.3	U
95-47-6	o-Xylene	5.3	U
1330-20-7	Xylene (Total)	5.3	U
100-42-5	Styrene	5.3	U
75-25-2	Bromoform	5.3	U
98-82-8	Isopropylbenzene	5.3	U
79-34-5	1,1,2,2-Tetrachloroethane	5.3	U
108-86-1	Bromobenzene	5.3	U
96-18-4	1,2,3-Trichloropropane	5.3	U
103-65-1	n-Propylbenzene	5.3	U
95-49-8	2-Chlorotoluene	5.3	U
108-67-8	1,3,5-Trimethylbenzene	5.3	U
106-43-4	4-Chlorotoluene	5.3	U
98-06-6	tert-Butylbenzene	5.3	U
95-63-6	1,2,4-Trimethylbenzene	5.3	U
135-98-8	sec-Butylbenzene	5.3	U
99-87-6	4-Isopropyltoluene	5.3	U
541-73-1	1,3-Dichlorobenzene	5.3	U
106-46-7	1,4-Dichlorobenzene	5.3	U
104-51-8	n-Butylbenzene	5.3	U
95-50-1	1,2-Dichlorobenzene	5.3	U
96-12-8	1,2-Dibromo-3-chloropropane	5.3	U
120-82-1	1,2,4-Trichlorobenzene	5.3	U
87-68-3	Hexachlorobutadiene	5.3	U
87-61-6	1,2,3-Trichlorobenzene	5.3	U
91-20-3	Naphthalene	5.3	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-39 (21)

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1549
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1549-13B
Sample wt/vol: 5.11 (g/mL) G
Lab File ID: V5K1042.D
Level: (TRACE or LOW/MED) LOW
Date Received: 09/13/2008
% Moisture: not dec. 8.0
Date Analyzed: 09/21/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-41 (12)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-14B

Sample wt/vol: 5.20 (g/mL) G Lab File ID: V5K1087.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 6.0 Date Analyzed: 09/23/2008

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	5.1	U
74-87-3	Chloromethane	5.1	U
75-01-4	Vinyl chloride	5.1	U
74-83-9	Bromomethane	5.1	U
75-00-3	Chloroethane	5.1	U
75-69-4	Trichlorofluoromethane	5.1	U
75-35-4	1,1-Dichloroethene	5.1	U
67-64-1	Acetone	5.1	U
74-88-4	Iodomethane	5.1	U
75-15-0	Carbon disulfide	5.1	U
75-09-2	Methylene chloride	5.1	U
156-60-5	trans-1,2-Dichloroethene	5.1	U
1634-04-4	Methyl tert-butyl ether	5.1	U
75-34-3	1,1-Dichloroethane	5.1	U
108-05-4	Vinyl acetate	5.1	U
78-93-3	2-Butanone	5.1	U
156-59-2	cis-1,2-Dichloroethene	5.1	U
594-20-7	2,2-Dichloropropane	5.1	U
74-97-5	Bromochloromethane	5.1	U
67-66-3	Chloroform	5.1	U
71-55-6	1,1,1-Trichloroethane	5.1	U
563-58-6	1,1-Dichloropropene	5.1	U
56-23-5	Carbon tetrachloride	5.1	U
107-06-2	1,2-Dichloroethane	5.1	U
71-43-2	Benzene	5.1	U
79-01-6	Trichloroethene	5.1	U
78-87-5	1,2-Dichloropropane	5.1	U
74-95-3	Dibromomethane	5.1	U
75-27-4	Bromodichloromethane	5.1	U
10061-01-5	cis-1,3-Dichloropropene	5.1	U
108-10-1	4-Methyl-2-pentanone	5.1	U
108-88-3	Toluene	5.1	U
10061-02-6	trans-1,3-Dichloropropene	5.1	U
79-00-5	1,1,2-Trichloroethane	5.1	U
142-28-9	1,3-Dichloropropane	5.1	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-41 (12)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-14B

Sample wt/vol: 5.20 (g/mL) G Lab File ID: V5K1087.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 6.0 Date Analyzed: 09/23/2008

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
127-18-4	Tetrachloroethene	5.1	U
591-78-6	2-Hexanone	5.1	U
124-48-1	Dibromochloromethane	5.1	U
106-93-4	1,2-Dibromoethane	5.1	U
108-90-7	Chlorobenzene	5.1	U
630-20-6	1,1,1,2-Tetrachloroethane	5.1	U
100-41-4	Ethylbenzene	5.1	U
1330-20-7	m,p-Xylene	5.1	U
95-47-6	o-Xylene	5.1	U
1330-20-7	Xylene (Total)	5.1	U
100-42-5	Styrene	5.1	U
75-25-2	Bromoform	5.1	U
98-82-8	Isopropylbenzene	5.1	U
79-34-5	1,1,2,2-Tetrachloroethane	5.1	U
108-86-1	Bromobenzene	5.1	U
96-18-4	1,2,3-Trichloropropane	5.1	U
103-65-1	n-Propylbenzene	5.1	U
95-49-8	2-Chlorotoluene	5.1	U
108-67-8	1,3,5-Trimethylbenzene	5.1	U
106-43-4	4-Chlorotoluene	5.1	U
98-06-6	tert-Butylbenzene	5.1	U
95-63-6	1,2,4-Trimethylbenzene	5.1	U
135-98-8	sec-Butylbenzene	5.1	U
99-87-6	4-Isopropyltoluene	5.1	U
541-73-1	1,3-Dichlorobenzene	5.1	U
106-46-7	1,4-Dichlorobenzene	5.1	U
104-51-8	n-Butylbenzene	5.1	U
95-50-1	1,2-Dichlorobenzene	5.1	U
96-12-8	1,2-Dibromo-3-chloropropane	5.1	U
120-82-1	1,2,4-Trichlorobenzene	5.1	U
87-68-3	Hexachlorobutadiene	5.1	U
87-61-6	1,2,3-Trichlorobenzene	5.1	U
91-20-3	Naphthalene	5.1	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-41 (12)

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1549
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1549-14B
Sample wt/vol: 5.20 (g/mL) G
Lab File ID: V5K1087.D
Level: (TRACE or LOW/MED) LOW
Date Received: 09/13/2008
% Moisture: not dec. 6.0
Date Analyzed: 09/23/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-42 (5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-15B

Sample wt/vol: 4.80 (g/mL) G Lab File ID: V5K1088.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 5.0 Date Analyzed: 09/23/2008

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	5.5	U
74-87-3	Chloromethane	5.5	U
75-01-4	Vinyl chloride	5.5	U
74-83-9	Bromomethane	5.5	U
75-00-3	Chloroethane	5.5	U
75-69-4	Trichlorofluoromethane	5.5	U
75-35-4	1,1-Dichloroethene	5.5	U
67-64-1	Acetone	5.5	U
74-88-4	Iodomethane	5.5	U
75-15-0	Carbon disulfide	5.5	U
75-09-2	Methylene chloride	10	
156-60-5	trans-1,2-Dichloroethene	5.5	U
1634-04-4	Methyl tert-butyl ether	5.5	U
75-34-3	1,1-Dichloroethane	5.5	U
108-05-4	Vinyl acetate	5.5	U
78-93-3	2-Butanone	5.5	U
156-59-2	cis-1,2-Dichloroethene	5.5	U
594-20-7	2,2-Dichloropropane	5.5	U
74-97-5	Bromochloromethane	5.5	U
67-66-3	Chloroform	5.5	U
71-55-6	1,1,1-Trichloroethane	5.5	U
563-58-6	1,1-Dichloropropene	5.5	U
56-23-5	Carbon tetrachloride	5.5	U
107-06-2	1,2-Dichloroethane	5.5	U
71-43-2	Benzene	5.5	U
79-01-6	Trichloroethene	5.5	U
78-87-5	1,2-Dichloropropane	5.5	U
74-95-3	Dibromomethane	5.5	U
75-27-4	Bromodichloromethane	5.5	U
10061-01-5	cis-1,3-Dichloropropene	5.5	U
108-10-1	4-Methyl-2-pentanone	5.5	U
108-88-3	Toluene	5.5	U
10061-02-6	trans-1,3-Dichloropropene	5.5	U
79-00-5	1,1,2-Trichloroethane	5.5	U
142-28-9	1,3-Dichloropropane	5.5	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-42 (5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-15B

Sample wt/vol: 4.80 (g/mL) G Lab File ID: V5K1088.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 5.0 Date Analyzed: 09/23/2008

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
127-18-4	Tetrachloroethene	5.5	U
591-78-6	2-Hexanone	5.5	U
124-48-1	Dibromochloromethane	5.5	U
106-93-4	1,2-Dibromoethane	5.5	U
108-90-7	Chlorobenzene	5.5	U
630-20-6	1,1,1,2-Tetrachloroethane	5.5	U
100-41-4	Ethylbenzene	5.5	U
1330-20-7	m,p-Xylene	5.5	U
95-47-6	o-Xylene	5.5	U
1330-20-7	Xylene (Total)	5.5	U
100-42-5	Styrene	5.5	U
75-25-2	Bromoform	5.5	U
98-82-8	Isopropylbenzene	5.5	U
79-34-5	1,1,2,2-Tetrachloroethane	5.5	U
108-86-1	Bromobenzene	5.5	U
96-18-4	1,2,3-Trichloropropane	5.5	U
103-65-1	n-Propylbenzene	5.5	U
95-49-8	2-Chlorotoluene	5.5	U
108-67-8	1,3,5-Trimethylbenzene	5.5	U
106-43-4	4-Chlorotoluene	5.5	U
98-06-6	tert-Butylbenzene	5.5	U
95-63-6	1,2,4-Trimethylbenzene	5.5	U
135-98-8	sec-Butylbenzene	5.5	U
99-87-6	4-Isopropyltoluene	5.5	U
541-73-1	1,3-Dichlorobenzene	5.5	U
106-46-7	1,4-Dichlorobenzene	5.5	U
104-51-8	n-Butylbenzene	5.5	U
95-50-1	1,2-Dichlorobenzene	5.5	U
96-12-8	1,2-Dibromo-3-chloropropane	5.5	U
120-82-1	1,2,4-Trichlorobenzene	5.5	U
87-68-3	Hexachlorobutadiene	5.5	U
87-61-6	1,2,3-Trichlorobenzene	5.5	U
91-20-3	Naphthalene	5.5	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-42 (5)

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1549
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1549-15B
Sample wt/vol: 4.80 (g/mL) G
Lab File ID: V5K1088.D
Level: (TRACE or LOW/MED) LOW
Date Received: 09/13/2008
% Moisture: not dec. 5.0
Date Analyzed: 09/23/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-43-W

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1550

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: G1541-01A

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V1J9266.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/13/2008

% Moisture: not dec.

Date Analyzed: 09/15/2008

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	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	7.3	
74-88-4	Iodomethane	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
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	5.0	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-43-W

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1550

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: G1541-01A

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V1J9266.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/13/2008

% Moisture: not dec.

Date Analyzed: 09/15/2008

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
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
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	1.5	J
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-43-W

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1550
Matrix: (SOIL/SED/WATER) WATER
Lab Sample ID: G1541-01A
Sample wt/vol: 5.00 (g/mL) ML
Lab File ID: V1J9266.D
Level: (TRACE or LOW/MED) LOW
Date Received: 09/13/2008
% Moisture: not dec.
Date Analyzed: 09/15/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L
Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-45 (5)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1549-16B

Sample wt/vol: 4.90 (g/mL) G

Lab File ID: V5K1089.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/13/2008

% Moisture: not dec. 13

Date Analyzed: 09/23/2008

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	5.9	U
74-87-3	Chloromethane	5.9	U
75-01-4	Vinyl chloride	5.9	U
74-83-9	Bromomethane	5.9	U
75-00-3	Chloroethane	5.9	U
75-69-4	Trichlorofluoromethane	5.9	U
75-35-4	1,1-Dichloroethene	5.9	U
67-64-1	Acetone	5.9	U
74-88-4	Iodomethane	5.9	U
75-15-0	Carbon disulfide	5.9	U
75-09-2	Methylene chloride	7.1	
156-60-5	trans-1,2-Dichloroethene	5.9	U
1634-04-4	Methyl tert-butyl ether	5.9	U
75-34-3	1,1-Dichloroethane	5.9	U
108-05-4	Vinyl acetate	5.9	U
78-93-3	2-Butanone	5.9	U
156-59-2	cis-1,2-Dichloroethene	5.9	U
594-20-7	2,2-Dichloropropane	5.9	U
74-97-5	Bromochloromethane	5.9	U
67-66-3	Chloroform	5.9	U
71-55-6	1,1,1-Trichloroethane	5.9	U
563-58-6	1,1-Dichloropropene	5.9	U
56-23-5	Carbon tetrachloride	5.9	U
107-06-2	1,2-Dichloroethane	5.9	U
71-43-2	Benzene	5.9	U
79-01-6	Trichloroethene	5.9	U
78-87-5	1,2-Dichloropropane	5.9	U
74-95-3	Dibromomethane	5.9	U
75-27-4	Bromodichloromethane	5.9	U
10061-01-5	cis-1,3-Dichloropropene	5.9	U
108-10-1	4-Methyl-2-pentanone	5.9	U
108-88-3	Toluene	5.9	U
10061-02-6	trans-1,3-Dichloropropene	5.9	U
79-00-5	1,1,2-Trichloroethane	5.9	U
142-28-9	1,3-Dichloropropane	5.9	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-45 (5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-16B

Sample wt/vol: 4.90 (g/mL) G Lab File ID: V5K1089.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 13 Date Analyzed: 09/23/2008

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
127-18-4	Tetrachloroethene	5.9	U
591-78-6	2-Hexanone	5.9	U
124-48-1	Dibromochloromethane	5.9	U
106-93-4	1,2-Dibromoethane	5.9	U
108-90-7	Chlorobenzene	5.9	U
630-20-6	1,1,1,2-Tetrachloroethane	5.9	U
100-41-4	Ethylbenzene	5.9	U
1330-20-7	m,p-Xylene	5.9	U
95-47-6	o-Xylene	5.9	U
1330-20-7	Xylene (Total)	5.9	U
100-42-5	Styrene	5.9	U
75-25-2	Bromoform	5.9	U
98-82-8	Isopropylbenzene	5.9	U
79-34-5	1,1,2,2-Tetrachloroethane	5.9	U
108-86-1	Bromobenzene	5.9	U
96-18-4	1,2,3-Trichloropropane	5.9	U
103-65-1	n-Propylbenzene	5.9	U
95-49-8	2-Chlorotoluene	5.9	U
108-67-8	1,3,5-Trimethylbenzene	5.9	U
106-43-4	4-Chlorotoluene	5.9	U
98-06-6	tert-Butylbenzene	5.9	U
95-63-6	1,2,4-Trimethylbenzene	5.9	U
135-98-8	sec-Butylbenzene	5.9	U
99-87-6	4-Isopropyltoluene	5.9	U
541-73-1	1,3-Dichlorobenzene	5.9	U
106-46-7	1,4-Dichlorobenzene	5.9	U
104-51-8	n-Butylbenzene	5.9	U
95-50-1	1,2-Dichlorobenzene	5.9	U
96-12-8	1,2-Dibromo-3-chloropropane	5.9	U
120-82-1	1,2,4-Trichlorobenzene	5.9	U
87-68-3	Hexachlorobutadiene	5.9	U
87-61-6	1,2,3-Trichlorobenzene	5.9	U
91-20-3	Naphthalene	5.9	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-45 (5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-16B

Sample wt/vol: 4.90 (g/mL) G Lab File ID: V5K1089.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 13 Date Analyzed: 09/23/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-47 (4)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1549-17B

Sample wt/vol: 5.10 (g/mL) G

Lab File ID: V5K1090.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/13/2008

% Moisture: not dec. 15

Date Analyzed: 09/23/2008

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	5.8	U
74-87-3	Chloromethane	5.8	U
75-01-4	Vinyl chloride	5.8	U
74-83-9	Bromomethane	5.8	U
75-00-3	Chloroethane	5.8	U
75-69-4	Trichlorofluoromethane	5.8	U
75-35-4	1,1-Dichloroethene	5.8	U
67-64-1	Acetone	5.8	U
74-88-4	Iodomethane	5.8	U
75-15-0	Carbon disulfide	5.8	U
75-09-2	Methylene chloride	5.3	J
156-60-5	trans-1,2-Dichloroethene	5.8	U
1634-04-4	Methyl tert-butyl ether	5.8	U
75-34-3	1,1-Dichloroethane	5.8	U
108-05-4	Vinyl acetate	5.8	U
78-93-3	2-Butanone	5.8	U
156-59-2	cis-1,2-Dichloroethene	5.8	U
594-20-7	2,2-Dichloropropane	5.8	U
74-97-5	Bromochloromethane	5.8	U
67-66-3	Chloroform	5.8	U
71-55-6	1,1,1-Trichloroethane	5.8	U
563-58-6	1,1-Dichloropropene	5.8	U
56-23-5	Carbon tetrachloride	5.8	U
107-06-2	1,2-Dichloroethane	5.8	U
71-43-2	Benzene	5.8	U
79-01-6	Trichloroethene	5.8	U
78-87-5	1,2-Dichloropropane	5.8	U
74-95-3	Dibromomethane	5.8	U
75-27-4	Bromodichloromethane	5.8	U
10061-01-5	cis-1,3-Dichloropropene	5.8	U
108-10-1	4-Methyl-2-pentanone	5.8	U
108-88-3	Toluene	5.8	U
10061-02-6	trans-1,3-Dichloropropene	5.8	U
79-00-5	1,1,2-Trichloroethane	5.8	U
142-28-9	1,3-Dichloropropane	5.8	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-47 (4)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-17B

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5K1090.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 15 Date Analyzed: 09/23/2008

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
127-18-4	Tetrachloroethene	5.8	U
591-78-6	2-Hexanone	5.8	U
124-48-1	Dibromochloromethane	5.8	U
106-93-4	1,2-Dibromoethane	5.8	U
108-90-7	Chlorobenzene	5.8	U
630-20-6	1,1,1,2-Tetrachloroethane	5.8	U
100-41-4	Ethylbenzene	5.8	U
1330-20-7	m,p-Xylene	5.8	U
95-47-6	o-Xylene	5.8	U
1330-20-7	Xylene (Total)	5.8	U
100-42-5	Styrene	5.8	U
75-25-2	Bromoform	5.8	U
98-82-8	Isopropylbenzene	5.8	U
79-34-5	1,1,2,2-Tetrachloroethane	5.8	U
108-86-1	Bromobenzene	5.8	U
96-18-4	1,2,3-Trichloropropane	5.8	U
103-65-1	n-Propylbenzene	5.8	U
95-49-8	2-Chlorotoluene	5.8	U
108-67-8	1,3,5-Trimethylbenzene	5.8	U
106-43-4	4-Chlorotoluene	5.8	U
98-06-6	tert-Butylbenzene	5.8	U
95-63-6	1,2,4-Trimethylbenzene	5.8	U
135-98-8	sec-Butylbenzene	5.8	U
99-87-6	4-Isopropyltoluene	5.8	U
541-73-1	1,3-Dichlorobenzene	5.8	U
106-46-7	1,4-Dichlorobenzene	5.8	U
104-51-8	n-Butylbenzene	5.8	U
95-50-1	1,2-Dichlorobenzene	5.8	U
96-12-8	1,2-Dibromo-3-chloropropane	5.8	U
120-82-1	1,2,4-Trichlorobenzene	5.8	U
87-68-3	Hexachlorobutadiene	5.8	U
87-61-6	1,2,3-Trichlorobenzene	5.8	U
91-20-3	Naphthalene	5.8	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-47 (4)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-17B

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5K1090.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 15 Date Analyzed: 09/23/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-48 (2)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1549-18B

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: V5K1091.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/13/2008

% Moisture: not dec. 22

Date Analyzed: 09/23/2008

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
74-88-4	Iodomethane	6.4	U
75-15-0	Carbon disulfide	6.4	U
75-09-2	Methylene chloride	3.3	J
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
108-05-4	Vinyl acetate	6.4	U
78-93-3	2-Butanone	6.4	U
156-59-2	cis-1,2-Dichloroethene	6.4	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	6.4	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-48 (2)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1549-18B

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: V5K1091.D

Level: (TRACE/LOW/MED) LOW

Date Received: 09/13/2008

% Moisture: not dec. 22

Date Analyzed: 09/23/2008

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
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
630-20-6	1,1,1,2-Tetrachloroethane	6.4	U
100-41-4	Ethylbenzene	6.4	U
1330-20-7	m,p-Xylene	6.4	U
95-47-6	o-Xylene	6.4	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	6.4	U
96-18-4	1,2,3-Trichloropropane	6.4	U
103-65-1	n-Propylbenzene	6.4	U
95-49-8	2-Chlorotoluene	6.4	U
108-67-8	1,3,5-Trimethylbenzene	6.4	U
106-43-4	4-Chlorotoluene	6.4	U
98-06-6	tert-Butylbenzene	6.4	U
95-63-6	1,2,4-Trimethylbenzene	6.4	U
135-98-8	sec-Butylbenzene	6.4	U
99-87-6	4-Isopropyltoluene	6.4	U
541-73-1	1,3-Dichlorobenzene	6.4	U
106-46-7	1,4-Dichlorobenzene	6.4	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	6.4	U
87-61-6	1,2,3-Trichlorobenzene	6.4	U
91-20-3	Naphthalene	6.4	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-48 (2)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-18B

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5K1091.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/13/2008

% Moisture: not dec. 22 Date Analyzed: 09/23/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-49 (15)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1621

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1621-02B

Sample wt/vol: 5.04 (g/mL) G Lab File ID: V6G1198.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/20/2008

% Moisture: not dec. 15 Date Analyzed: 10/01/2008

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	5.8	U
74-87-3	Chloromethane	5.8	U
75-01-4	Vinyl chloride	5.8	U
74-83-9	Bromomethane	5.8	U
75-00-3	Chloroethane	5.8	U
75-69-4	Trichlorofluoromethane	5.8	U
75-35-4	1,1-Dichloroethene	5.8	U
67-64-1	Acetone	5.8	U
74-88-4	Iodomethane	5.8	U
75-15-0	Carbon disulfide	5.8	U
75-09-2	Methylene chloride	4.3	J
156-60-5	trans-1,2-Dichloroethene	5.8	U
1634-04-4	Methyl tert-butyl ether	5.8	U
75-34-3	1,1-Dichloroethane	5.8	U
108-05-4	Vinyl acetate	5.8	U
78-93-3	2-Butanone	5.8	U
156-59-2	cis-1,2-Dichloroethene	5.8	U
594-20-7	2,2-Dichloropropane	5.8	U
74-97-5	Bromochloromethane	5.8	U
67-66-3	Chloroform	5.8	U
71-55-6	1,1,1-Trichloroethane	5.8	U
563-58-6	1,1-Dichloropropene	5.8	U
56-23-5	Carbon tetrachloride	5.8	U
107-06-2	1,2-Dichloroethane	5.8	U
71-43-2	Benzene	5.8	U
79-01-6	Trichloroethene	2.6	J
78-87-5	1,2-Dichloropropane	5.8	U
74-95-3	Dibromomethane	5.8	U
75-27-4	Bromodichloromethane	5.8	U
10061-01-5	cis-1,3-Dichloropropene	5.8	U
108-10-1	4-Methyl-2-pentanone	5.8	U
108-88-3	Toluene	5.8	U
10061-02-6	trans-1,3-Dichloropropene	5.8	U
79-00-5	1,1,2-Trichloroethane	5.8	U
142-28-9	1,3-Dichloropropane	5.8	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-49 (15)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1621

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1621-02B

Sample wt/vol: 5.04 (g/mL) G Lab File ID: V6G1198.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/20/2008

% Moisture: not dec. 15 Date Analyzed: 10/01/2008

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
127-18-4	Tetrachloroethene	5.8	U
591-78-6	2-Hexanone	5.8	U
124-48-1	Dibromochloromethane	5.8	U
106-93-4	1,2-Dibromoethane	5.8	U
108-90-7	Chlorobenzene	5.8	U
630-20-6	1,1,1,2-Tetrachloroethane	5.8	U
100-41-4	Ethylbenzene	5.8	U
1330-20-7	m,p-Xylene	5.8	U
95-47-6	o-Xylene	5.8	U
1330-20-7	Xylene (Total)	5.8	U
100-42-5	Styrene	5.8	U
75-25-2	Bromoform	5.8	U
98-82-8	Isopropylbenzene	5.8	U
79-34-5	1,1,2,2-Tetrachloroethane	5.8	U
108-86-1	Bromobenzene	5.8	U
96-18-4	1,2,3-Trichloropropane	5.8	U
103-65-1	n-Propylbenzene	5.8	U
95-49-8	2-Chlorotoluene	5.8	U
108-67-8	1,3,5-Trimethylbenzene	5.8	U
106-43-4	4-Chlorotoluene	5.8	U
98-06-6	tert-Butylbenzene	5.8	U
95-63-6	1,2,4-Trimethylbenzene	5.8	U
135-98-8	sec-Butylbenzene	5.8	U
99-87-6	4-Isopropyltoluene	5.8	U
541-73-1	1,3-Dichlorobenzene	5.8	U
106-46-7	1,4-Dichlorobenzene	5.8	U
104-51-8	n-Butylbenzene	5.8	U
95-50-1	1,2-Dichlorobenzene	5.8	U
96-12-8	1,2-Dibromo-3-chloropropane	5.8	U
120-82-1	1,2,4-Trichlorobenzene	5.8	U
87-68-3	Hexachlorobutadiene	5.8	U
87-61-6	1,2,3-Trichlorobenzene	5.8	U
91-20-3	Naphthalene	5.8	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-49 (15)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1621

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1621-02B

Sample wt/vol: 5.04 (g/mL) G Lab File ID: V6G1198.D

Level: (TRACE or LOW/MED) LOW Date Received: 09/20/2008

% Moisture: not dec. 15 Date Analyzed: 10/01/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-01 (4)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-08A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2822.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

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	380	U
111-44-4	Bis(2-chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2´-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
111-91-1	Bis(2-chloroethoxy)methane	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	780	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	780	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	780	U
83-32-9	Acenaphthene	380	U
51-28-5	2,4-Dinitrophenol	780	U
100-02-7	4-Nitrophenol	780	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-01 (4)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-08A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2822.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	780	U
534-52-1	4,6-Dinitro-2-methylphenol	780	U
86-30-6	N-Nitrosodiphenylamine	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	780	U
85-01-8	Phenanthrene	380	U
120-12-7	Anthracene	380	U
86-74-8	Carbazole	380	U
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	380	U
129-00-0	Pyrene	380	U
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	380	U
218-01-9	Chrysene	380	U
117-81-7	Bis(2-ethylhexyl)phthalate	380	U
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	380	U
207-08-9	Benzo(k)fluoranthene	380	U
50-32-8	Benzo(a)pyrene	380	U
193-39-5	Indeno(1,2,3-cd)pyrene	380	U
53-70-3	Dibenzo(a,h)anthracene	380	U
191-24-2	Benzo(g,h,i)perylene	380	U

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1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SI-TP-01 (4)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-08A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2822.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	10064-26-3	Phenanthrene, 1,2,3,4,4a,9,1	14.472	180	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-02 (15)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-09A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2823.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

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	370	U
111-44-4	Bis(2-chloroethyl)ether	370	U
95-57-8	2-Chlorophenol	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
95-48-7	2-Methylphenol	370	U
108-60-1	2,2´-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-di-n-propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
111-91-1	Bis(2-chloroethoxy)methane	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	750	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	750	U
131-11-3	Dimethylphthalate	370	U
208-96-8	Acenaphthylene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
99-09-2	3-Nitroaniline	750	U
83-32-9	Acenaphthene	370	U
51-28-5	2,4-Dinitrophenol	750	U
100-02-7	4-Nitrophenol	750	U
132-64-9	Dibenzofuran	370	U
121-14-2	2,4-Dinitrotoluene	370	U

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1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-02 (15)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-09A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2823.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
86-73-7	Fluorene	370	U
100-01-6	4-Nitroaniline	750	U
534-52-1	4,6-Dinitro-2-methylphenol	750	U
86-30-6	N-Nitrosodiphenylamine	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	750	U
85-01-8	Phenanthrene	380	
120-12-7	Anthracene	370	U
86-74-8	Carbazole	370	U
84-74-2	Di-n-butylphthalate	370	U
206-44-0	Fluoranthene	550	
129-00-0	Pyrene	460	
85-68-7	Butylbenzylphthalate	370	U
91-94-1	3,3´-Dichlorobenzidine	370	U
56-55-3	Benzo(a)anthracene	250	J
218-01-9	Chrysene	300	J
117-81-7	Bis(2-ethylhexyl)phthalate	370	U
117-84-0	Di-n-octylphthalate	370	U
205-99-2	Benzo(b)fluoranthene	310	J
207-08-9	Benzo(k)fluoranthene	150	J
50-32-8	Benzo(a)pyrene	240	J
193-39-5	Indeno(1,2,3-cd)pyrene	140	J
53-70-3	Dibenzo(a,h)anthracene	370	U
191-24-2	Benzo(g,h,i)perylene	170	J

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1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SI-TP-02 (15)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-09A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2823.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	301-02-0	9-Octadecenamide, (Z)-	13.659	160	NJ
02	192-97-2	Benzo[e]pyrene	15.197	180	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-02A (1)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-10A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2824.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8.0 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

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	360	U
111-44-4	Bis(2-chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2´-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
111-91-1	Bis(2-chloroethoxy)methane	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	95	J
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	720	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	720	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	110	J
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	720	U
83-32-9	Acenaphthene	360	U
51-28-5	2,4-Dinitrophenol	720	U
100-02-7	4-Nitrophenol	720	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U

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1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-02A (1)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-10A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2824.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8.0 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	720	U
534-52-1	4,6-Dinitro-2-methylphenol	720	U
86-30-6	N-Nitrosodiphenylamine	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	720	U
85-01-8	Phenanthrene	450	
120-12-7	Anthracene	120	J
86-74-8	Carbazole	360	U
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	790	
129-00-0	Pyrene	660	
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3´-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	390	
218-01-9	Chrysene	410	
117-81-7	Bis(2-ethylhexyl)phthalate	360	U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	490	
207-08-9	Benzo(k)fluoranthene	220	J
50-32-8	Benzo(a)pyrene	370	
193-39-5	Indeno(1,2,3-cd)pyrene	230	J
53-70-3	Dibenzo(a,h)anthracene	360	U
191-24-2	Benzo(g,h,i)perylene	270	J

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SI-TP-02A (1)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-10A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2824.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8.0 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	192-97-2	Benzo[e]pyrene	15.057	150	NJ
02	192-97-2	Benzo[e]pyrene	15.201	260	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-05 (2)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-07A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2821.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

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
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
95-50-1	1,2-Dichlorobenzene	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
120-82-1	1,2,4-Trichlorobenzene	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	510	
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

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-05 (2)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-07A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2821.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
86-73-7	Fluorene	100	J
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	2100	
120-12-7	Anthracene	460	
86-74-8	Carbazole	250	J
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	4500	
129-00-0	Pyrene	3600	
85-68-7	Butylbenzylphthalate	190	J
91-94-1	3,3´-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	1900	
218-01-9	Chrysene	2100	
117-81-7	Bis(2-ethylhexyl)phthalate	400	U
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	2700	
207-08-9	Benzo(k)fluoranthene	1000	
50-32-8	Benzo(a)pyrene	2000	
193-39-5	Indeno(1,2,3-cd)pyrene	1300	
53-70-3	Dibenzo(a,h)anthracene	380	J
191-24-2	Benzo(g,h,i)perylene	1500	

SW846

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SI-TP-05 (2)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-07A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2821.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	11.035	1100	J
02	2531-84-2	Phenanthrene, 2-methyl-	12.248	800	NJ
03		Unknown-02	12.323	530	J
04		Unknown-03	12.408	490	J
05		Unknown-04	12.494	580	J
06		Unknown-05	12.569	670	J
07	1686-66-4	Phenanthrene, 7-ethenyl-1,2,	12.622	2500	NJ
08		Unknown-06	12.750	1600	J
09		Unknown-07	13.103	560	J
10		Unknown-08	13.290	660	J
11	2381-21-7	Pyrene, 1-methyl-	13.375	310	NJ
12	3353-12-6	Pyrene, 4-methyl-	13.455	510	NJ
13		Unknown-09	13.669	380	J
14	511-05-7	9(1H)-Phenanthrenone, 2,3,4,	14.481	320	NJ
15	192-97-2	Benzo[e]pyrene	15.053	480	NJ
16	198-55-0	Perylene	15.197	1500	NJ
17	192-97-2	Benzo[e]pyrene	15.314	740	NJ
18	191-26-4	Dibenzo[def,mno]chrysene	16.191	480	NJ
19		Unknown-10	16.682	470	J
20	191-26-4	Dibenzo[def,mno]chrysene	16.741	690	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-06 (5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-06A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2820.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

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	390	U
111-44-4	Bis(2-chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	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
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
111-91-1	Bis(2-chloroethoxy)methane	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	790	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	790	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	790	U
83-32-9	Acenaphthene	390	U
51-28-5	2,4-Dinitrophenol	790	U
100-02-7	4-Nitrophenol	790	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-06 (5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-06A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2820.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	790	U
534-52-1	4,6-Dinitro-2-methylphenol	790	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	790	U
85-01-8	Phenanthrene	210	J
120-12-7	Anthracene	390	U
86-74-8	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	340	J
129-00-0	Pyrene	300	J
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3´-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	160	J
218-01-9	Chrysene	200	J
117-81-7	Bis(2-ethylhexyl)phthalate	390	U
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	250	J
207-08-9	Benzo(k)fluoranthene	120	J
50-32-8	Benzo(a)pyrene	180	J
193-39-5	Indeno(1,2,3-cd)pyrene	130	J
53-70-3	Dibenzo(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	160	J

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SI-TP-06 (5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-06A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2820.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-08 (5.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-05A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2819.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

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	380	U
111-44-4	Bis(2-chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2´-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
111-91-1	Bis(2-chloroethoxy)methane	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	770	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	770	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	770	U
83-32-9	Acenaphthene	380	U
51-28-5	2,4-Dinitrophenol	770	U
100-02-7	4-Nitrophenol	770	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-08 (5.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-05A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2819.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	93	J
100-01-6	4-Nitroaniline	770	U
534-52-1	4,6-Dinitro-2-methylphenol	770	U
86-30-6	N-Nitrosodiphenylamine	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	770	U
85-01-8	Phenanthrene	1300	
120-12-7	Anthracene	210	J
86-74-8	Carbazole	130	J
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	1600	
129-00-0	Pyrene	1600	
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3´-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	930	
218-01-9	Chrysene	980	
117-81-7	Bis(2-ethylhexyl)phthalate	380	U
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	990	
207-08-9	Benzo(k)fluoranthene	540	
50-32-8	Benzo(a)pyrene	840	
193-39-5	Indeno(1,2,3-cd)pyrene	480	
53-70-3	Dibenzo(a,h)anthracene	170	J
191-24-2	Benzo(g,h,i)perylene	570	

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SI-TP-08 (5.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-05A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2819.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	486-25-9	9H-Fluoren-9-one	11.509	160	NJ
02	629-92-5	Nonadecane	12.108	240	NJ
03	832-71-3	Phenanthrene, 3-methyl-	12.220	210	NJ
04	2531-84-2	Phenanthrene, 2-methyl-	12.246	300	NJ
05		Unknown-01	12.321	320	J
06	613-12-7	Anthracene, 2-methyl-	12.348	240	NJ
07	112-95-8	Eicosane	12.487	320	NJ
08	2789-88-0	di-p-Tolylacetylene	12.749	310	NJ
09		Unknown-02	12.781	160	J
10	629-94-7	Heneicosane	12.829	470	NJ
11	629-94-7	Heneicosane	13.149	170	NJ
12	3353-12-6	Pyrene, 4-methyl-	13.459	190	NJ
13	3442-78-2	Pyrene, 2-methyl-	13.561	150	NJ
14	1705-84-6	Triphenylene, 2-methyl-	14.453	160	NJ
15	192-97-2	Benzo[e]pyrene	15.067	170	NJ
16	198-55-0	Perylene	15.211	540	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-09 (3)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-14A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2887.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/30/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	3600	U
111-44-4	Bis(2-chloroethyl)ether	3600	U
95-57-8	2-Chlorophenol	3600	U
541-73-1	1,3-Dichlorobenzene	3600	U
106-46-7	1,4-Dichlorobenzene	3600	U
95-50-1	1,2-Dichlorobenzene	3600	U
95-48-7	2-Methylphenol	3600	U
108-60-1	2,2´-oxybis(1-Chloropropane)	3600	U
106-44-5	4-Methylphenol	3600	U
621-64-7	N-Nitroso-di-n-propylamine	3600	U
67-72-1	Hexachloroethane	3600	U
98-95-3	Nitrobenzene	3600	U
78-59-1	Isophorone	3600	U
88-75-5	2-Nitrophenol	3600	U
105-67-9	2,4-Dimethylphenol	3600	U
120-83-2	2,4-Dichlorophenol	3600	U
120-82-1	1,2,4-Trichlorobenzene	3600	U
91-20-3	Naphthalene	3600	U
106-47-8	4-Chloroaniline	3600	U
111-91-1	Bis(2-chloroethoxy)methane	3600	U
87-68-3	Hexachlorobutadiene	3600	U
59-50-7	4-Chloro-3-methylphenol	3600	U
91-57-6	2-Methylnaphthalene	3600	U
77-47-4	Hexachlorocyclopentadiene	3600	U
88-06-2	2,4,6-Trichlorophenol	3600	U
95-95-4	2,4,5-Trichlorophenol	7300	U
91-58-7	2-Chloronaphthalene	3600	U
88-74-4	2-Nitroaniline	7300	U
131-11-3	Dimethylphthalate	3600	U
208-96-8	Acenaphthylene	3600	U
606-20-2	2,6-Dinitrotoluene	3600	U
99-09-2	3-Nitroaniline	7300	U
83-32-9	Acenaphthene	3600	U
51-28-5	2,4-Dinitrophenol	7300	U
100-02-7	4-Nitrophenol	7300	U
132-64-9	Dibenzofuran	3600	U
121-14-2	2,4-Dinitrotoluene	3600	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-09 (3)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-14A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2887.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/30/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	3600	U
7005-72-3	4-Chlorophenyl-phenylether	3600	U
86-73-7	Fluorene	3600	U
100-01-6	4-Nitroaniline	7300	U
534-52-1	4,6-Dinitro-2-methylphenol	7300	U
86-30-6	N-Nitrosodiphenylamine	3600	U
101-55-3	4-Bromophenyl-phenylether	3600	U
118-74-1	Hexachlorobenzene	3600	U
87-86-5	Pentachlorophenol	7300	U
85-01-8	Phenanthrene	11000	
120-12-7	Anthracene	1800	J
86-74-8	Carbazole	1600	J
84-74-2	Di-n-butylphthalate	3600	U
206-44-0	Fluoranthene	31000	
129-00-0	Pyrene	25000	
85-68-7	Butylbenzylphthalate	3600	U
91-94-1	3,3´-Dichlorobenzidine	3600	U
56-55-3	Benzo(a)anthracene	24000	
218-01-9	Chrysene	32000	
117-81-7	Bis(2-ethylhexyl)phthalate	3600	U
117-84-0	Di-n-octylphthalate	3600	U
205-99-2	Benzo(b)fluoranthene	40000	
207-08-9	Benzo(k)fluoranthene	20000	
50-32-8	Benzo(a)pyrene	28000	
193-39-5	Indeno(1,2,3-cd)pyrene	24000	
53-70-3	Dibenzo(a,h)anthracene	8900	
191-24-2	Benzo(g,h,i)perylene	26000	

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SI-TP-09 (3)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-14A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2887.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/30/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 10.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	3442-78-2	Pyrene, 2-methyl-	13.235	2600	NJ
02	243-46-9	Benzo[b]naphtho[2,3-d]thioph	13.769	1800	NJ
03	1705-84-6	Triphenylene, 2-methyl-	14.325	1700	NJ
04		Unknown-01	14.736	2600	J
05	205-82-3	Benzo[j]fluoranthene	14.928	4100	NJ
06	207-93-2	Dinaphtho[1,2-b:1',2'-d]fura	14.992	3400	NJ
07	198-55-0	Perylene	15.072	24000	NJ
08	198-55-0	Perylene	15.179	9700	NJ
09		Unknown-02	15.452	2500	J
10		Unknown-03	15.532	2500	J
11	214-17-5	Benzo[b]chrysene	16.002	9900	NJ
12	213-46-7	1,2:7,8-Dibenzophenanthrene	16.232	6100	NJ
13	214-17-5	Benzo[b]chrysene	16.269	6600	NJ
14	191-26-4	Dibenzo[def,mno]chrysene	16.542	6700	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-11 (2.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-15A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2829.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9.0 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

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	360	U
111-44-4	Bis(2-chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2´-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
111-91-1	Bis(2-chloroethoxy)methane	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	730	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	730	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	730	U
83-32-9	Acenaphthene	360	U
51-28-5	2,4-Dinitrophenol	730	U
100-02-7	4-Nitrophenol	730	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-11 (2.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-15A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2829.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9.0 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	730	U
534-52-1	4,6-Dinitro-2-methylphenol	730	U
86-30-6	N-Nitrosodiphenylamine	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	730	U
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	100	J
129-00-0	Pyrene	360	U
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3´-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	360	U
218-01-9	Chrysene	360	U
117-81-7	Bis(2-ethylhexyl)phthalate	360	U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	360	U
207-08-9	Benzo(k)fluoranthene	360	U
50-32-8	Benzo(a)pyrene	360	U
193-39-5	Indeno(1,2,3-cd)pyrene	360	U
53-70-3	Dibenzo(a,h)anthracene	360	U
191-24-2	Benzo(g,h,i)perylene	360	U

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SI-TP-11 (2.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-15A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2829.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9.0 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	16327-22-3	1,4-Cyclooctadiene, (Z,Z)-	11.036	180	NJ
02		Unknown-01	12.799	170	J
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-12 (2.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-16A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2830.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

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	380	U
111-44-4	Bis(2-chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2´-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	170	J
106-47-8	4-Chloroaniline	380	U
111-91-1	Bis(2-chloroethoxy)methane	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	200	J
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	780	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	780	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	430	
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	780	U
83-32-9	Acenaphthene	210	J
51-28-5	2,4-Dinitrophenol	780	U
100-02-7	4-Nitrophenol	780	U
132-64-9	Dibenzofuran	210	J
121-14-2	2,4-Dinitrotoluene	380	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-12 (2.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-16A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2830.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	270	J
100-01-6	4-Nitroaniline	780	U
534-52-1	4,6-Dinitro-2-methylphenol	780	U
86-30-6	N-Nitrosodiphenylamine	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	780	U
85-01-8	Phenanthrene	3500	
120-12-7	Anthracene	520	
86-74-8	Carbazole	380	
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	4300	
129-00-0	Pyrene	3400	
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	1300	
218-01-9	Chrysene	1800	
117-81-7	Bis(2-ethylhexyl)phthalate	380	U
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	2200	
207-08-9	Benzo(k)fluoranthene	1000	
50-32-8	Benzo(a)pyrene	1600	
193-39-5	Indeno(1,2,3-cd)pyrene	1100	
53-70-3	Dibenzo(a,h)anthracene	320	J
191-24-2	Benzo(g,h,i)perylene	1200	

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1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SI-TP-12 (2.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-16A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2830.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	581-42-0	Naphthalene, 2,6-dimethyl-	9.206	320	NJ
02	486-25-9	9H-Fluoren-9-one	11.514	310	NJ
03	2531-84-2	Phenanthrene, 2-methyl-	12.225	470	NJ
04	2531-84-2	Phenanthrene, 2-methyl-	12.251	730	NJ
05	203-64-5	4H-Cyclopenta[def]phenanthre	12.326	740	NJ
06	2531-84-2	Phenanthrene, 2-methyl-	12.353	440	NJ
07	5672-97-9	5,16[1',2']:8,13[1'',2'']-Di	12.518	450	NJ
08	84-65-1	9,10-Anthracenedione	12.534	650	NJ
09	3674-69-9	Phenanthrene, 4,5-dimethyl-	12.748	570	NJ
10		Unknown-01	12.828	480	J
11	33543-31-6	Fluoranthene, 2-methyl-	13.373	310	NJ
12	3442-78-2	Pyrene, 2-methyl-	13.464	200	NJ
13		Unknown-02	13.667	160	J
14	479-79-8	11H-Benzo[a]fluoren-11-one	13.993	160	NJ
15	192-97-2	Benzo[e]pyrene	15.061	490	NJ
16	192-97-2	Benzo[e]pyrene	15.211	1400	NJ
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-13 (18)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-17A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2888.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/30/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 4.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1600	U
111-44-4	Bis(2-chloroethyl)ether	1600	U
95-57-8	2-Chlorophenol	1600	U
541-73-1	1,3-Dichlorobenzene	1600	U
106-46-7	1,4-Dichlorobenzene	1600	U
95-50-1	1,2-Dichlorobenzene	1600	U
95-48-7	2-Methylphenol	1600	U
108-60-1	2,2'-oxybis(1-Chloropropane)	1600	U
106-44-5	4-Methylphenol	1600	U
621-64-7	N-Nitroso-di-n-propylamine	1600	U
67-72-1	Hexachloroethane	1600	U
98-95-3	Nitrobenzene	1600	U
78-59-1	Isophorone	1600	U
88-75-5	2-Nitrophenol	1600	U
105-67-9	2,4-Dimethylphenol	1600	U
120-83-2	2,4-Dichlorophenol	1600	U
120-82-1	1,2,4-Trichlorobenzene	1600	U
91-20-3	Naphthalene	1600	U
106-47-8	4-Chloroaniline	1600	U
111-91-1	Bis(2-chloroethoxy)methane	1600	U
87-68-3	Hexachlorobutadiene	1600	U
59-50-7	4-Chloro-3-methylphenol	1600	U
91-57-6	2-Methylnaphthalene	1600	U
77-47-4	Hexachlorocyclopentadiene	1600	U
88-06-2	2,4,6-Trichlorophenol	1600	U
95-95-4	2,4,5-Trichlorophenol	3200	U
91-58-7	2-Chloronaphthalene	1600	U
88-74-4	2-Nitroaniline	3200	U
131-11-3	Dimethylphthalate	1600	U
208-96-8	Acenaphthylene	1600	U
606-20-2	2,6-Dinitrotoluene	1600	U
99-09-2	3-Nitroaniline	3200	U
83-32-9	Acenaphthene	370	J
51-28-5	2,4-Dinitrophenol	3200	U
100-02-7	4-Nitrophenol	3200	U
132-64-9	Dibenzofuran	440	J
121-14-2	2,4-Dinitrotoluene	1600	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-13 (18)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-17A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2888.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/30/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 4.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	1600	U
7005-72-3	4-Chlorophenyl-phenylether	1600	U
86-73-7	Fluorene	640	J
100-01-6	4-Nitroaniline	3200	U
534-52-1	4,6-Dinitro-2-methylphenol	3200	U
86-30-6	N-Nitrosodiphenylamine	1600	U
101-55-3	4-Bromophenyl-phenylether	1600	U
118-74-1	Hexachlorobenzene	1600	U
87-86-5	Pentachlorophenol	3200	U
85-01-8	Phenanthrene	9300	
120-12-7	Anthracene	2000	
86-74-8	Carbazole	980	J
84-74-2	Di-n-butylphthalate	1600	U
206-44-0	Fluoranthene	17000	
129-00-0	Pyrene	13000	
85-68-7	Butylbenzylphthalate	1600	U
91-94-1	3,3´-Dichlorobenzidine	1600	U
56-55-3	Benzo(a)anthracene	10000	
218-01-9	Chrysene	13000	
117-81-7	Bis(2-ethylhexyl)phthalate	1600	U
117-84-0	Di-n-octylphthalate	1600	U
205-99-2	Benzo(b)fluoranthene	17000	
207-08-9	Benzo(k)fluoranthene	6600	
50-32-8	Benzo(a)pyrene	11000	
193-39-5	Indeno(1,2,3-cd)pyrene	9200	
53-70-3	Dibenzo(a,h)anthracene	3500	
191-24-2	Benzo(g,h,i)perylene	10000	

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SI-TP-13 (18)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-17A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2888.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/30/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 4.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	2531-84-2	Phenanthrene, 2-methyl-	12.113	1300	NJ
02	203-64-5	4H-Cyclopenta[def]phenanthre	12.188	1500	NJ
03	33543-31-6	Fluoranthene, 2-methyl-	13.240	1000	NJ
04	243-46-9	Benzo[b]naphtho[2,3-d]thioph	13.769	700	NJ
05	5385-75-1	Dibenz(a,e)aceanthrylene	13.913	1200	NJ
06		Unknown-01	14.907	2200	J
07	192-97-2	Benzo[e]pyrene	14.928	5000	NJ
08	198-55-0	Perylene	15.067	8900	NJ
09	192-97-2	Benzo[e]pyrene	15.174	3500	NJ
10	222-93-5	Pentaphene	16.002	3900	NJ
11	214-17-5	Benzo[b]chrysene	16.226	2200	NJ
12	215-58-7	Benzo[b]triphenylene	16.264	2200	NJ
13	191-26-4	Dibenzo[def,mno]chrysene	16.541	2400	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-14 (6)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-18A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2832.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 6.0 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

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	350	U
111-44-4	Bis(2-chloroethyl)ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2´-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	750	
106-47-8	4-Chloroaniline	350	U
111-91-1	Bis(2-chloroethoxy)methane	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-57-6	2-Methylnaphthalene	250	J
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	700	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	700	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
99-09-2	3-Nitroaniline	700	U
83-32-9	Acenaphthene	350	U
51-28-5	2,4-Dinitrophenol	700	U
100-02-7	4-Nitrophenol	700	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-14 (6)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-18A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2832.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 6.0 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U
100-01-6	4-Nitroaniline	100	J
534-52-1	4,6-Dinitro-2-methylphenol	700	U
86-30-6	N-Nitrosodiphenylamine	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	700	U
85-01-8	Phenanthrene	450	
120-12-7	Anthracene	350	U
86-74-8	Carbazole	350	U
84-74-2	Di-n-butylphthalate	350	U
206-44-0	Fluoranthene	490	
129-00-0	Pyrene	340	J
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3'-Dichlorobenzidine	350	U
56-55-3	Benzo(a)anthracene	230	J
218-01-9	Chrysene	300	J
117-81-7	Bis(2-ethylhexyl)phthalate	350	U
117-84-0	Di-n-octylphthalate	350	U
205-99-2	Benzo(b)fluoranthene	340	J
207-08-9	Benzo(k)fluoranthene	180	J
50-32-8	Benzo(a)pyrene	210	J
193-39-5	Indeno(1,2,3-cd)pyrene	170	J
53-70-3	Dibenzo(a,h)anthracene	350	U
191-24-2	Benzo(g,h,i)perylene	190	J

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SI-TP-14 (6)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-18A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2832.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 6.0 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	108-67-8	Benzene, 1,3,5-trimethyl-	4.246	210	NJ
02	112-40-3	Dodecane	6.415	160	NJ
03	90-12-0	Naphthalene, 1-methyl-	7.900	180	NJ
04	575-37-1	Naphthalene, 1,7-dimethyl-	9.209	200	NJ
05	581-42-0	Naphthalene, 2,6-dimethyl-	9.257	170	NJ
06	544-76-3	Hexadecane	10.630	250	NJ
07		Unknown-01	11.207	200	J
08	1921-70-6	Pentadecane, 2,6,10,14-tetra	11.223	270	NJ
09	544-76-3	Hexadecane	11.688	170	NJ
10	629-92-5	Nonadecane	12.110	170	NJ
11	613-12-7	Anthracene, 2-methyl-	12.254	230	NJ
12	112-95-8	Eicosane	12.484	150	NJ
13	000293-16-6	18-Norabietane	12.564	180	NJ
14	781-43-1	9,10-Dimethylanthracene	12.746	220	NJ
15	629-94-7	Heneicosane	12.831	230	NJ
16		Unknown-02	13.152	310	J
17	483-65-8	Phenanthrene, 1-methyl-7-(1-	13.344	540	NJ
18	629-94-7	Heneicosane	13.456	210	NJ
19	301-02-0	9-Octadecenamide, (Z)-	13.670	420	NJ
20	630-02-4	Octacosane	14.022	220	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-19 (9.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-19A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2833.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 25 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

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	440	U
111-44-4	Bis(2-chloroethyl)ether	440	U
95-57-8	2-Chlorophenol	440	U
541-73-1	1,3-Dichlorobenzene	440	U
106-46-7	1,4-Dichlorobenzene	440	U
95-50-1	1,2-Dichlorobenzene	440	U
95-48-7	2-Methylphenol	440	U
108-60-1	2,2´-oxybis(1-Chloropropane)	440	U
106-44-5	4-Methylphenol	440	U
621-64-7	N-Nitroso-di-n-propylamine	440	U
67-72-1	Hexachloroethane	440	U
98-95-3	Nitrobenzene	440	U
78-59-1	Isophorone	440	U
88-75-5	2-Nitrophenol	440	U
105-67-9	2,4-Dimethylphenol	440	U
120-83-2	2,4-Dichlorophenol	440	U
120-82-1	1,2,4-Trichlorobenzene	440	U
91-20-3	Naphthalene	440	U
106-47-8	4-Chloroaniline	440	U
111-91-1	Bis(2-chloroethoxy)methane	440	U
87-68-3	Hexachlorobutadiene	440	U
59-50-7	4-Chloro-3-methylphenol	440	U
91-57-6	2-Methylnaphthalene	440	U
77-47-4	Hexachlorocyclopentadiene	440	U
88-06-2	2,4,6-Trichlorophenol	440	U
95-95-4	2,4,5-Trichlorophenol	890	U
91-58-7	2-Chloronaphthalene	440	U
88-74-4	2-Nitroaniline	890	U
131-11-3	Dimethylphthalate	440	U
208-96-8	Acenaphthylene	440	U
606-20-2	2,6-Dinitrotoluene	440	U
99-09-2	3-Nitroaniline	890	U
83-32-9	Acenaphthene	440	U
51-28-5	2,4-Dinitrophenol	890	U
100-02-7	4-Nitrophenol	890	U
132-64-9	Dibenzofuran	440	U
121-14-2	2,4-Dinitrotoluene	440	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-19 (9.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-19A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2833.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 25 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	440	U
7005-72-3	4-Chlorophenyl-phenylether	440	U
86-73-7	Fluorene	440	U
100-01-6	4-Nitroaniline	890	U
534-52-1	4,6-Dinitro-2-methylphenol	890	U
86-30-6	N-Nitrosodiphenylamine	440	U
101-55-3	4-Bromophenyl-phenylether	440	U
118-74-1	Hexachlorobenzene	440	U
87-86-5	Pentachlorophenol	890	U
85-01-8	Phenanthrene	440	U
120-12-7	Anthracene	440	U
86-74-8	Carbazole	440	U
84-74-2	Di-n-butylphthalate	440	U
206-44-0	Fluoranthene	440	U
129-00-0	Pyrene	440	U
85-68-7	Butylbenzylphthalate	440	U
91-94-1	3,3´-Dichlorobenzidine	440	U
56-55-3	Benzo(a)anthracene	440	U
218-01-9	Chrysene	440	U
117-81-7	Bis(2-ethylhexyl)phthalate	440	U
117-84-0	Di-n-octylphthalate	440	U
205-99-2	Benzo(b)fluoranthene	440	U
207-08-9	Benzo(k)fluoranthene	440	U
50-32-8	Benzo(a)pyrene	440	U
193-39-5	Indeno(1,2,3-cd)pyrene	440	U
53-70-3	Dibenzo(a,h)anthracene	440	U
191-24-2	Benzo(g,h,i)perylene	440	U

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1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SI-TP-19 (9.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-19A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2833.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 25 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	103-82-2	Benzeneacetic acid	7.014	1100	NJ
02	1599-67-3	1-Docosene	14.023	200	NJ
03	1599-67-3	1-Docosene	14.562	340	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-20 (12)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-20A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2834.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

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	360	U
111-44-4	Bis(2-chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2´-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
111-91-1	Bis(2-chloroethoxy)methane	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	740	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	740	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	740	U
83-32-9	Acenaphthene	360	U
51-28-5	2,4-Dinitrophenol	740	U
100-02-7	4-Nitrophenol	740	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-20 (12)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-20A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2834.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	740	U
534-52-1	4,6-Dinitro-2-methylphenol	740	U
86-30-6	N-Nitrosodiphenylamine	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	740	U
85-01-8	Phenanthrene	350	J
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	1300	
129-00-0	Pyrene	1000	
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3´-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	790	
218-01-9	Chrysene	850	
117-81-7	Bis(2-ethylhexyl)phthalate	360	U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	1200	
207-08-9	Benzo(k)fluoranthene	500	
50-32-8	Benzo(a)pyrene	570	
193-39-5	Indeno(1,2,3-cd)pyrene	560	
53-70-3	Dibenzo(a,h)anthracene	200	J
191-24-2	Benzo(g,h,i)perylene	630	

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SI-TP-20 (12)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-20A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2834.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/26/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	301-02-0	9-Octadecenamide, (Z)-	13.664	310	NJ
02	479-79-8	11H-Benzo[a]fluoren-11-one	13.813	160	NJ
03	198-55-0	Perylene	15.213	690	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-21 (17.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-02A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2889.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/30/2008

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	430	U
111-44-4	Bis(2-chloroethyl)ether	430	U
95-57-8	2-Chlorophenol	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
95-48-7	2-Methylphenol	430	U
108-60-1	2,2´-oxybis(1-Chloropropane)	430	U
106-44-5	4-Methylphenol	430	U
621-64-7	N-Nitroso-di-n-propylamine	430	U
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
120-83-2	2,4-Dichlorophenol	430	U
120-82-1	1,2,4-Trichlorobenzene	430	U
91-20-3	Naphthalene	280	J
106-47-8	4-Chloroaniline	430	U
111-91-1	Bis(2-chloroethoxy)methane	430	U
87-68-3	Hexachlorobutadiene	430	U
59-50-7	4-Chloro-3-methylphenol	430	U
91-57-6	2-Methylnaphthalene	780	
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	880	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	880	U
131-11-3	Dimethylphthalate	430	U
208-96-8	Acenaphthylene	430	U
606-20-2	2,6-Dinitrotoluene	430	U
99-09-2	3-Nitroaniline	880	U
83-32-9	Acenaphthene	2400	
51-28-5	2,4-Dinitrophenol	880	U
100-02-7	4-Nitrophenol	880	U
132-64-9	Dibenzofuran	1700	
121-14-2	2,4-Dinitrotoluene	430	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-21 (17.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-02A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2889.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/30/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	430	U
7005-72-3	4-Chlorophenyl-phenylether	430	U
86-73-7	Fluorene	5000	
100-01-6	4-Nitroaniline	880	U
534-52-1	4,6-Dinitro-2-methylphenol	880	U
86-30-6	N-Nitrosodiphenylamine	430	U
101-55-3	4-Bromophenyl-phenylether	430	U
118-74-1	Hexachlorobenzene	430	U
87-86-5	Pentachlorophenol	880	U
85-01-8	Phenanthrene	890	
120-12-7	Anthracene	1500	
86-74-8	Carbazole	430	U
84-74-2	Di-n-butylphthalate	430	U
206-44-0	Fluoranthene	2400	
129-00-0	Pyrene	1800	
85-68-7	Butylbenzylphthalate	430	U
91-94-1	3,3´-Dichlorobenzidine	430	U
56-55-3	Benzo(a)anthracene	620	
218-01-9	Chrysene	750	
117-81-7	Bis(2-ethylhexyl)phthalate	430	U
117-84-0	Di-n-octylphthalate	430	U
205-99-2	Benzo(b)fluoranthene	800	
207-08-9	Benzo(k)fluoranthene	320	J
50-32-8	Benzo(a)pyrene	570	
193-39-5	Indeno(1,2,3-cd)pyrene	310	J
53-70-3	Dibenzo(a,h)anthracene	430	U
191-24-2	Benzo(g,h,i)perylene	340	J

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-21 (17.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-02A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2889.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/30/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	3.781	1500	J
02		Unknown-02	4.112	1100	J
03	2847-72-5	Decane, 4-methyl-	4.299	2300	NJ
04		Unknown-03	4.347	1300	J
05		Unknown-04	4.464	1500	J
06		Unknown-05	4.496	1400	J
07		Unknown-06	4.566	1300	J
08		Unknown-07	4.598	2700	J
09	493-02-7	Naphthalene, decahydro-, tra	4.758	3600	NJ
10		Unknown-08	4.806	1800	J
11		Unknown-09	5.143	6400	J
12		Unknown-10	5.282	650	J
13	95-93-2	Benzene, 1,2,4,5-tetramethyl	5.335	600	NJ
14	2958-76-1	Naphthalene, decahydro-2-met	5.538	1900	NJ
15	4706-89-2	Benzene, 2,4-dimethyl-1-(1-m	6.238	2400	NJ
16		Unknown-11	6.398	3000	J
17		Unknown-12	7.146	4300	J
18	3674-73-5	Phenanthrene, 2,3,5-trimethy	13.012	1400	NJ
19	3674-73-5	Phenanthrene, 2,3,5-trimethy	13.044	1700	NJ
20	3353-12-6	Pyrene, 4-methyl-	13.348	530	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

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1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-22 (18)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-03A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2850.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/27/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	790	U
111-44-4	Bis(2-chloroethyl)ether	790	U
95-57-8	2-Chlorophenol	790	U
541-73-1	1,3-Dichlorobenzene	790	U
106-46-7	1,4-Dichlorobenzene	790	U
95-50-1	1,2-Dichlorobenzene	790	U
95-48-7	2-Methylphenol	790	U
108-60-1	2,2'-oxybis(1-Chloropropane)	790	U
106-44-5	4-Methylphenol	790	U
621-64-7	N-Nitroso-di-n-propylamine	790	U
67-72-1	Hexachloroethane	790	U
98-95-3	Nitrobenzene	790	U
78-59-1	Isophorone	790	U
88-75-5	2-Nitrophenol	790	U
105-67-9	2,4-Dimethylphenol	790	U
120-83-2	2,4-Dichlorophenol	790	U
120-82-1	1,2,4-Trichlorobenzene	790	U
91-20-3	Naphthalene	570	J
106-47-8	4-Chloroaniline	790	U
111-91-1	Bis(2-chloroethoxy)methane	790	U
87-68-3	Hexachlorobutadiene	790	U
59-50-7	4-Chloro-3-methylphenol	790	U
91-57-6	2-Methylnaphthalene	1100	
77-47-4	Hexachlorocyclopentadiene	790	U
88-06-2	2,4,6-Trichlorophenol	790	U
95-95-4	2,4,5-Trichlorophenol	1600	U
91-58-7	2-Chloronaphthalene	790	U
88-74-4	2-Nitroaniline	1600	U
131-11-3	Dimethylphthalate	790	U
208-96-8	Acenaphthylene	660	J
606-20-2	2,6-Dinitrotoluene	790	U
99-09-2	3-Nitroaniline	1600	U
83-32-9	Acenaphthene	1000	
51-28-5	2,4-Dinitrophenol	1600	U
100-02-7	4-Nitrophenol	1600	U
132-64-9	Dibenzofuran	800	
121-14-2	2,4-Dinitrotoluene	790	U

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1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-22 (18)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-03A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2850.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/27/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	790	U
7005-72-3	4-Chlorophenyl-phenylether	790	U
86-73-7	Fluorene	2400	
100-01-6	4-Nitroaniline	1600	U
534-52-1	4,6-Dinitro-2-methylphenol	1600	U
86-30-6	N-Nitrosodiphenylamine	790	U
101-55-3	4-Bromophenyl-phenylether	790	U
118-74-1	Hexachlorobenzene	790	U
87-86-5	Pentachlorophenol	1600	U
85-01-8	Phenanthrene	6800	
120-12-7	Anthracene	1100	
86-74-8	Carbazole	510	J
84-74-2	Di-n-butylphthalate	790	U
206-44-0	Fluoranthene	7200	
129-00-0	Pyrene	5700	
85-68-7	Butylbenzylphthalate	790	U
91-94-1	3,3'-Dichlorobenzidine	790	U
56-55-3	Benzo(a)anthracene	3100	
218-01-9	Chrysene	2900	
117-81-7	Bis(2-ethylhexyl)phthalate	790	U
117-84-0	Di-n-octylphthalate	790	U
205-99-2	Benzo(b)fluoranthene	3700	
207-08-9	Benzo(k)fluoranthene	1500	
50-32-8	Benzo(a)pyrene	2900	
193-39-5	Indeno(1,2,3-cd)pyrene	1700	
53-70-3	Dibenzo(a,h)anthracene	550	J
191-24-2	Benzo(g,h,i)perylene	1800	

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-22 (18)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-03A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2850.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/27/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 2.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	90-12-0	Naphthalene, 1-methyl-	7.855	2300	NJ
02	3891-98-3	Dodecane, 2,6,10-trimethyl-	8.523	9300	NJ
03	1127-76-0	Naphthalene, 1-ethyl-	8.854	6200	NJ
04		Unknown-01	9.009	11000	J
05	581-40-8	Naphthalene, 2,3-dimethyl-	9.180	22000	NJ
06	581-40-8	Naphthalene, 2,3-dimethyl-	9.228	16000	NJ
07	1127-76-0	Naphthalene, 1-ethyl-	9.399	6300	NJ
08	575-37-1	Naphthalene, 1,7-dimethyl-	9.543	6500	NJ
09	2027-17-0	Naphthalene, 2-(1-methylethy	9.992	14000	NJ
10	829-26-5	Naphthalene, 2,3,6-trimethyl	10.152	10000	NJ
11	829-26-5	Naphthalene, 2,3,6-trimethyl	10.206	11000	NJ
12	829-26-5	Naphthalene, 2,3,6-trimethyl	10.313	7500	NJ
13	2245-38-7	Naphthalene, 1,6,7-trimethyl	10.350	12000	NJ
14		Unknown-02	10.676	8900	J
15	55045-11-9	Tridecane, 5-propyl-	10.890	2100	NJ
16		Unknown-03	10.986	1200	J
17	2717-39-7	1,4,5,8-Tetramethylnaphthale	11.098	1400	NJ
18	1921-70-6	Pentadecane, 2,6,10,14-tetra	11.205	4200	NJ
19		Unknown-04	11.317	1400	J
20	832-69-9	Phenanthrene, 1-methyl-	12.236	1600	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

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1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-23 (5.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-04A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2851.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/27/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	740	U
111-44-4	Bis(2-chloroethyl)ether	740	U
95-57-8	2-Chlorophenol	740	U
541-73-1	1,3-Dichlorobenzene	740	U
106-46-7	1,4-Dichlorobenzene	740	U
95-50-1	1,2-Dichlorobenzene	740	U
95-48-7	2-Methylphenol	740	U
108-60-1	2,2´-oxybis(1-Chloropropane)	740	U
106-44-5	4-Methylphenol	740	U
621-64-7	N-Nitroso-di-n-propylamine	740	U
67-72-1	Hexachloroethane	740	U
98-95-3	Nitrobenzene	740	U
78-59-1	Isophorone	740	U
88-75-5	2-Nitrophenol	740	U
105-67-9	2,4-Dimethylphenol	740	U
120-83-2	2,4-Dichlorophenol	740	U
120-82-1	1,2,4-Trichlorobenzene	740	U
91-20-3	Naphthalene	2100	
106-47-8	4-Chloroaniline	740	U
111-91-1	Bis(2-chloroethoxy)methane	740	U
87-68-3	Hexachlorobutadiene	740	U
59-50-7	4-Chloro-3-methylphenol	740	U
91-57-6	2-Methylnaphthalene	8800	
77-47-4	Hexachlorocyclopentadiene	740	U
88-06-2	2,4,6-Trichlorophenol	740	U
95-95-4	2,4,5-Trichlorophenol	1500	U
91-58-7	2-Chloronaphthalene	740	U
88-74-4	2-Nitroaniline	1500	U
131-11-3	Dimethylphthalate	740	U
208-96-8	Acenaphthylene	740	U
606-20-2	2,6-Dinitrotoluene	740	U
99-09-2	3-Nitroaniline	1500	U
83-32-9	Acenaphthene	690	J
51-28-5	2,4-Dinitrophenol	1500	U
100-02-7	4-Nitrophenol	1500	U
132-64-9	Dibenzofuran	650	J
121-14-2	2,4-Dinitrotoluene	740	U

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SI-TP-23 (5.5)

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM Case No.:
Mod. Ref No.: SDG No.: MG1523
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1523-04A
Sample wt/vol: 30.2 (g/mL) G
Lab File ID: S3F2851.D
Level: (LOW/MED) LOW
Extraction: (Type) SONC
% Moisture: 11 Decanted: (Y/N) N
Date Received: 09/11/2008
Concentrated Extract Volume: 1000 (uL)
Date Extracted: 09/18/2008
Injection Volume: 1.0 (uL) GPC Factor: 1.00
Date Analyzed: 09/27/2008
GPC Cleanup: (Y/N) N pH:
Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	740	U
7005-72-3	4-Chlorophenyl-phenylether	740	U
86-73-7	Fluorene	1800	
100-01-6	4-Nitroaniline	1500	U
534-52-1	4,6-Dinitro-2-methylphenol	1500	U
86-30-6	N-Nitrosodiphenylamine	740	U
101-55-3	4-Bromophenyl-phenylether	740	U
118-74-1	Hexachlorobenzene	740	U
87-86-5	Pentachlorophenol	1500	U
85-01-8	Phenanthrene	2600	
120-12-7	Anthracene	280	J
86-74-8	Carbazole	450	J
84-74-2	Di-n-butylphthalate	740	U
206-44-0	Fluoranthene	380	J
129-00-0	Pyrene	450	J
85-68-7	Butylbenzylphthalate	740	U
91-94-1	3,3´-Dichlorobenzidine	740	U
56-55-3	Benzo(a)anthracene	740	U
218-01-9	Chrysene	230	J
117-81-7	Bis(2-ethylhexyl)phthalate	740	U
117-84-0	Di-n-octylphthalate	740	U
205-99-2	Benzo(b)fluoranthene	270	J
207-08-9	Benzo(k)fluoranthene	740	U
50-32-8	Benzo(a)pyrene	740	U
193-39-5	Indeno(1,2,3-cd)pyrene	740	U
53-70-3	Dibenzo(a,h)anthracene	740	U
191-24-2	Benzo(g,h,i)perylene	740	U

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1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-23 (5.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-04A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2851.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/27/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 2.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	17301-23-4	Undecane, 2,6-dimethyl-	6.528	2100	NJ
02	54676-39-0	Cyclohexane, 2-butyl-1,1,3-t	6.705	1400	NJ
03		Unknown-01	7.249	2200	J
04		Unknown-02	7.800	1600	J
05	90-12-0	Naphthalene, 1-methyl-	7.864	1500	NJ
06		Unknown-03	8.537	3000	J
07	575-41-7	Naphthalene, 1,3-dimethyl-	9.018	3000	NJ
08	575-41-7	Naphthalene, 1,3-dimethyl-	9.183	2900	NJ
09	571-61-9	Naphthalene, 1,5-dimethyl-	9.242	2100	NJ
10		Unknown-04	9.269	2600	J
11		Unknown-05	9.434	1600	J
12	2801-87-8	Pentadecane, 4-methyl-	9.525	3400	NJ
13	571-61-9	Naphthalene, 1,5-dimethyl-	9.557	1800	NJ
14	829-26-5	Naphthalene, 2,3,6-trimethyl	10.214	1400	NJ
15	829-26-5	Naphthalene, 2,3,6-trimethyl	10.327	1300	NJ
16		Unknown-06	10.375	2700	J
17		Unknown-07	10.423	1400	J
18	55045-11-9	Tridecane, 5-propyl-	10.903	1900	NJ
19	2717-39-7	1,4,5,8-Tetramethylnaphthale	11.106	1800	NJ
20	1921-70-6	Pentadecane, 2,6,10,14-tetra	11.213	3700	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-24 (12)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-05A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2852.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/27/2008

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	390	U
111-44-4	Bis(2-chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	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
95-48-7	2-Methylphenol	390	U
108-60-1	2,2´-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
111-91-1	Bis(2-chloroethoxy)methane	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	800	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	800	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	800	U
83-32-9	Acenaphthene	390	U
51-28-5	2,4-Dinitrophenol	800	U
100-02-7	4-Nitrophenol	800	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-24 (12)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1523-05A

Sample wt/vol: 30.4 (g/mL) G

Lab File ID: S3F2852.D

Level: (LOW/MED) LOW

Extraction: (Type) SONC

% Moisture: 17

Decanted: (Y/N) N

Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL)

Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL)

GPC Factor: 1.00

Date Analyzed: 09/27/2008

GPC Cleanup: (Y/N) N

pH:

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	800	U
534-52-1	4,6-Dinitro-2-methylphenol	800	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	800	U
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
86-74-8	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	250	J
129-00-0	Pyrene	200	J
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3´-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	110	J
218-01-9	Chrysene	140	J
117-81-7	Bis(2-ethylhexyl)phthalate	390	U
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	150	J
207-08-9	Benzo(k)fluoranthene	390	U
50-32-8	Benzo(a)pyrene	120	J
193-39-5	Indeno(1,2,3-cd)pyrene	390	U
53-70-3	Dibenzo(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	390	U

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-24 (12)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-05A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2852.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/27/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-26 (5.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-02A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2863.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/28/2008

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	380	U
111-44-4	Bis(2-chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2´-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
111-91-1	Bis(2-chloroethoxy)methane	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	780	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	780	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	780	U
83-32-9	Acenaphthene	380	U
51-28-5	2,4-Dinitrophenol	780	U
100-02-7	4-Nitrophenol	780	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-26 (5.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-02A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2863.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	780	U
534-52-1	4,6-Dinitro-2-methylphenol	780	U
86-30-6	N-Nitrosodiphenylamine	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	780	U
85-01-8	Phenanthrene	380	U
120-12-7	Anthracene	380	U
86-74-8	Carbazole	380	U
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	380	U
129-00-0	Pyrene	380	U
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3´-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	380	U
218-01-9	Chrysene	380	U
117-81-7	Bis(2-ethylhexyl)phthalate	380	U
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	380	U
207-08-9	Benzo(k)fluoranthene	380	U
50-32-8	Benzo(a)pyrene	380	U
193-39-5	Indeno(1,2,3-cd)pyrene	380	U
53-70-3	Dibenzo(a,h)anthracene	380	U
191-24-2	Benzo(g,h,i)perylene	380	U

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SI-TP-26 (5.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-02A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2863.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	301-02-0	9-Octadecenamide, (Z)-	13.638	180	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-27 (9)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-07A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2896.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/30/2008

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	390	U
111-44-4	Bis(2-chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	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
95-48-7	2-Methylphenol	390	U
108-60-1	2,2´-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
111-91-1	Bis(2-chloroethoxy)methane	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	790	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	790	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	790	U
83-32-9	Acenaphthene	390	U
51-28-5	2,4-Dinitrophenol	790	U
100-02-7	4-Nitrophenol	790	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-27 (9)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-07A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2896.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/30/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	790	U
534-52-1	4,6-Dinitro-2-methylphenol	790	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	790	U
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
86-74-8	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	390	U
129-00-0	Pyrene	390	U
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3´-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	390	U
218-01-9	Chrysene	390	U
117-81-7	Bis(2-ethylhexyl)phthalate	390	U
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	390	U
207-08-9	Benzo(k)fluoranthene	390	U
50-32-8	Benzo(a)pyrene	390	U
193-39-5	Indeno(1,2,3-cd)pyrene	390	U
53-70-3	Dibenzo(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	390	U

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SI-TP-27 (9)

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1549
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1549-07A
Sample wt/vol: 30.3 (g/mL) G
Lab File ID: S3F2896.D
Level: (TRACE or LOW/MED) LOW
Extraction: (Type) SONC
% Moisture: 16
Decanted: (Y/N) N
Date Received: 09/13/2008
Concentrated Extract Volume: 1000 (uL)
Date Extracted: 09/18/2008
Injection Volume: 1.0 (uL)
GPC Factor: 1.00
Date Analyzed: 09/30/2008
GPC Cleanup: (Y/N) N
pH:
Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	301-02-0	9-Octadecenamide, (Z)-	13.539	500	NJ
02	295-65-8	Cyclohexadecane	13.897	180	NJ
03	297-03-0	Cyclotetracosane	14.437	210	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-28 (8)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM Case No.:

Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1549-05A

Sample wt/vol: 30.4 (g/mL) G

Lab File ID: S3F2894.D

Level: (LOW/MED) LOW

Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N

Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL)

Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00

Date Analyzed: 09/30/2008

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	380	U
111-44-4	Bis(2-chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2´-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
111-91-1	Bis(2-chloroethoxy)methane	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	770	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	770	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	770	U
83-32-9	Acenaphthene	380	U
51-28-5	2,4-Dinitrophenol	770	U
100-02-7	4-Nitrophenol	770	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-28 (8)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-05A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2894.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/30/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	770	U
534-52-1	4,6-Dinitro-2-methylphenol	770	U
86-30-6	N-Nitrosodiphenylamine	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	770	U
85-01-8	Phenanthrene	270	J
120-12-7	Anthracene	380	U
86-74-8	Carbazole	380	U
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	600	
129-00-0	Pyrene	480	
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3´-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	300	J
218-01-9	Chrysene	350	J
117-81-7	Bis(2-ethylhexyl)phthalate	380	U
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	420	
207-08-9	Benzo(k)fluoranthene	170	J
50-32-8	Benzo(a)pyrene	290	J
193-39-5	Indeno(1,2,3-cd)pyrene	190	J
53-70-3	Dibenzo(a,h)anthracene	380	U
191-24-2	Benzo(g,h,i)perylene	220	J

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SI-TP-28 (8)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-05A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2894.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/30/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	301-02-0	9-Octadecenamide, (Z)-	13.543	180	NJ
02	297-03-0	Cyclotetracosane	14.446	200	NJ
03	192-97-2	Benzo[e]pyrene	15.071	180	NJ
04	630-04-6	Hentriacontane	15.498	310	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-29 (8)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-01A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2862.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/28/2008

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	390	U
111-44-4	Bis(2-chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	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
95-48-7	2-Methylphenol	390	U
108-60-1	2,2´-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
111-91-1	Bis(2-chloroethoxy)methane	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	790	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	790	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	790	U
83-32-9	Acenaphthene	390	U
51-28-5	2,4-Dinitrophenol	790	U
100-02-7	4-Nitrophenol	790	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-29 (8)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-01A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2862.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	790	U
534-52-1	4,6-Dinitro-2-methylphenol	790	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	790	U
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
86-74-8	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	130	J
129-00-0	Pyrene	110	J
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	390	U
218-01-9	Chrysene	390	U
117-81-7	Bis(2-ethylhexyl)phthalate	390	U
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	390	U
207-08-9	Benzo(k)fluoranthene	390	U
50-32-8	Benzo(a)pyrene	390	U
193-39-5	Indeno(1,2,3-cd)pyrene	390	U
53-70-3	Dibenzo(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	390	U

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SI-TP-29 (8)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-01A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2862.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	143-07-7	Dodecanoic acid	10.327	160	NJ
02	301-02-0	9-Octadecenamide, (Z)-	13.639	250	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-31 (5.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-04A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2865.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/28/2008

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
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
95-50-1	1,2-Dichlorobenzene	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
120-82-1	1,2,4-Trichlorobenzene	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

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-31 (5.5)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM Case No.:

Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1549-04A

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: S3F2865.D

Level: (LOW/MED) LOW

Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N

Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL)

Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00

Date Analyzed: 09/28/2008

GPC Cleanup: (Y/N) N pH:

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
86-73-7	Fluorene	400	U
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	400	U
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

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SI-TP-31 (5.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-04A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2865.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	6.950	200	J
02	143-07-7	Dodecanoic acid	10.326	160	NJ
03		Unknown-02	12.788	380	J
04		Unknown-03	13.547	560	J
05		Unknown-04	13.643	200	J
06	27519-02-4	9-Tricosene, (Z)-	14.007	220	NJ
07	000130-97-9	E-15-Heptadecenal	14.546	380	NJ
08	15910-23-3	Cholest-2-ene	14.904	240	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-33 (1.5)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1549-03A

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: S3F2864.D

Level: (LOW/MED) LOW

Extraction: (Type) SONC

% Moisture: 39

Decanted: (Y/N) N

Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL)

Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL)

GPC Factor: 1.00

Date Analyzed: 09/28/2008

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	530	U
111-44-4	Bis(2-chloroethyl)ether	530	U
95-57-8	2-Chlorophenol	530	U
541-73-1	1,3-Dichlorobenzene	530	U
106-46-7	1,4-Dichlorobenzene	530	U
95-50-1	1,2-Dichlorobenzene	530	U
95-48-7	2-Methylphenol	530	U
108-60-1	2,2´-oxybis(1-Chloropropane)	530	U
106-44-5	4-Methylphenol	530	U
621-64-7	N-Nitroso-di-n-propylamine	530	U
67-72-1	Hexachloroethane	530	U
98-95-3	Nitrobenzene	530	U
78-59-1	Isophorone	530	U
88-75-5	2-Nitrophenol	530	U
105-67-9	2,4-Dimethylphenol	530	U
120-83-2	2,4-Dichlorophenol	530	U
120-82-1	1,2,4-Trichlorobenzene	530	U
91-20-3	Naphthalene	530	U
106-47-8	4-Chloroaniline	530	U
111-91-1	Bis(2-chloroethoxy)methane	530	U
87-68-3	Hexachlorobutadiene	530	U
59-50-7	4-Chloro-3-methylphenol	530	U
91-57-6	2-Methylnaphthalene	530	U
77-47-4	Hexachlorocyclopentadiene	530	U
88-06-2	2,4,6-Trichlorophenol	530	U
95-95-4	2,4,5-Trichlorophenol	1100	U
91-58-7	2-Chloronaphthalene	530	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	530	U
208-96-8	Acenaphthylene	400	J
606-20-2	2,6-Dinitrotoluene	530	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	530	U
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	530	U
121-14-2	2,4-Dinitrotoluene	530	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-33 (1.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-03A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2864.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 39 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/28/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	530	U
7005-72-3	4-Chlorophenyl-phenylether	530	U
86-73-7	Fluorene	530	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-Nitrosodiphenylamine	530	U
101-55-3	4-Bromophenyl-phenylether	530	U
118-74-1	Hexachlorobenzene	530	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	1100	
120-12-7	Anthracene	360	J
86-74-8	Carbazole	240	J
84-74-2	Di-n-butylphthalate	530	U
206-44-0	Fluoranthene	3500	
129-00-0	Pyrene	2600	
85-68-7	Butylbenzylphthalate	530	U
91-94-1	3,3´-Dichlorobenzidine	530	U
56-55-3	Benzo(a)anthracene	1800	
218-01-9	Chrysene	1800	
117-81-7	Bis(2-ethylhexyl)phthalate	390	J
117-84-0	Di-n-octylphthalate	530	U
205-99-2	Benzo(b)fluoranthene	2200	
207-08-9	Benzo(k)fluoranthene	1200	
50-32-8	Benzo(a)pyrene	1600	
193-39-5	Indeno(1,2,3-cd)pyrene	1200	
53-70-3	Dibenzo(a,h)anthracene	430	J
191-24-2	Benzo(g,h,i)perylene	1300	

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SI-TP-33 (1.5)

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1549
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1549-03A
Sample wt/vol: 30.5 (g/mL) G
Lab File ID: S3F2864.D
Level: (TRACE or LOW/MED) LOW
Extraction: (Type) SONC
% Moisture: 39
Decanted: (Y/N) N
Date Received: 09/13/2008
Concentrated Extract Volume: 1000 (uL)
Date Extracted: 09/18/2008
Injection Volume: 1.0 (uL)
GPC Factor: 1.00
Date Analyzed: 09/28/2008
GPC Cleanup: (Y/N) N
pH:
Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	143-07-7	Dodecanoic acid	10.330	450	NJ
02		Unknown-01	11.815	350	J
03	2531-84-2	Phenanthrene, 2-methyl-	12.227	320	NJ
04	203-64-5	4H-Cyclopenta[def]phenanthre	12.296	370	NJ
05	2531-84-2	Phenanthrene, 2-methyl-	12.317	640	NJ
06	5737-13-3	Cyclopenta(def)phenanthrenon	12.787	570	NJ
07	238-84-6	11H-Benzo[a]fluorene	13.348	280	NJ
08	3442-78-2	Pyrene, 2-methyl-	13.439	310	NJ
09	297-03-0	Cyclotetracosane	14.545	450	NJ
10	629-92-5	Nonadecane	15.037	1700	NJ
11	297-03-0	Cyclotetracosane	15.069	660	NJ
12	192-97-2	Benzo[e]pyrene	15.191	1100	NJ
13	630-04-6	Hentriacontane	15.613	1300	NJ
14	601-53-6	Cholestan-3-one, (5.beta.)-	15.907	900	NJ
15	83-47-6	.gamma.-Sitosterol	16.677	1400	NJ
16		Unknown-02	17.318	2300	J
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-35 (10)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-08A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2897.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/30/2008

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	370	U
111-44-4	Bis(2-chloroethyl)ether	370	U
95-57-8	2-Chlorophenol	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
95-48-7	2-Methylphenol	370	U
108-60-1	2,2'-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-di-n-propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	160	J
106-47-8	4-Chloroaniline	370	U
111-91-1	Bis(2-chloroethoxy)methane	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-57-6	2-Methylnaphthalene	98	J
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	740	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	740	U
131-11-3	Dimethylphthalate	370	U
208-96-8	Acenaphthylene	130	J
606-20-2	2,6-Dinitrotoluene	370	U
99-09-2	3-Nitroaniline	740	U
83-32-9	Acenaphthene	250	J
51-28-5	2,4-Dinitrophenol	740	U
100-02-7	4-Nitrophenol	740	U
132-64-9	Dibenzofuran	260	J
121-14-2	2,4-Dinitrotoluene	370	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-35 (10)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-08A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2897.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/30/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
86-73-7	Fluorene	280	J
100-01-6	4-Nitroaniline	740	U
534-52-1	4,6-Dinitro-2-methylphenol	740	U
86-30-6	N-Nitrosodiphenylamine	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	740	U
85-01-8	Phenanthrene	3600	
120-12-7	Anthracene	570	
86-74-8	Carbazole	380	
84-74-2	Di-n-butylphthalate	370	U
206-44-0	Fluoranthene	3600	
129-00-0	Pyrene	2800	
85-68-7	Butylbenzylphthalate	370	U
91-94-1	3,3´-Dichlorobenzidine	370	U
56-55-3	Benzo(a)anthracene	1300	
218-01-9	Chrysene	1400	
117-81-7	Bis(2-ethylhexyl)phthalate	370	U
117-84-0	Di-n-octylphthalate	370	U
205-99-2	Benzo(b)fluoranthene	1200	
207-08-9	Benzo(k)fluoranthene	690	
50-32-8	Benzo(a)pyrene	1000	
193-39-5	Indeno(1,2,3-cd)pyrene	540	
53-70-3	Dibenzo(a,h)anthracene	180	J
191-24-2	Benzo(g,h,i)perylene	570	

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SI-TP-35 (10)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-08A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2897.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/30/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	486-25-9	9H-Fluoren-9-one	11.373	240	NJ
02	132-65-0	Dibenzothiophene	11.458	190	NJ
03	2531-84-2	Phenanthrene, 2-methyl-	12.088	300	NJ
04	2531-84-2	Phenanthrene, 2-methyl-	12.115	440	NJ
05	203-64-5	4H-Cyclopenta[def]phenanthre	12.190	420	NJ
06	2531-84-2	Phenanthrene, 2-methyl-	12.211	300	NJ
07	612-94-2	Naphthalene, 2-phenyl-	12.382	250	NJ
08	84-65-1	9,10-Anthracenedione	12.398	380	NJ
09		Unknown-01	12.612	180	J
10	238-84-6	11H-Benzo[a]fluorene	13.242	170	NJ
11	3442-78-2	Pyrene, 2-methyl-	13.328	180	NJ
12	205-82-3	Benzo[j]fluoranthene	14.925	180	NJ
13	198-55-0	Perylene	15.064	650	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-36 (5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-09A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2913.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/01/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	2000	U
111-44-4	Bis(2-chloroethyl)ether	2000	U
95-57-8	2-Chlorophenol	2000	U
541-73-1	1,3-Dichlorobenzene	2000	U
106-46-7	1,4-Dichlorobenzene	2000	U
95-50-1	1,2-Dichlorobenzene	2000	U
95-48-7	2-Methylphenol	2000	U
108-60-1	2,2´-oxybis(1-Chloropropane)	2000	U
106-44-5	4-Methylphenol	2000	U
621-64-7	N-Nitroso-di-n-propylamine	2000	U
67-72-1	Hexachloroethane	2000	U
98-95-3	Nitrobenzene	2000	U
78-59-1	Isophorone	2000	U
88-75-5	2-Nitrophenol	2000	U
105-67-9	2,4-Dimethylphenol	2000	U
120-83-2	2,4-Dichlorophenol	2000	U
120-82-1	1,2,4-Trichlorobenzene	2000	U
91-20-3	Naphthalene	2000	U
106-47-8	4-Chloroaniline	2000	U
111-91-1	Bis(2-chloroethoxy)methane	2000	U
87-68-3	Hexachlorobutadiene	2000	U
59-50-7	4-Chloro-3-methylphenol	2000	U
91-57-6	2-Methylnaphthalene	2000	U
77-47-4	Hexachlorocyclopentadiene	2000	U
88-06-2	2,4,6-Trichlorophenol	2000	U
95-95-4	2,4,5-Trichlorophenol	4000	U
91-58-7	2-Chloronaphthalene	2000	U
88-74-4	2-Nitroaniline	4000	U
131-11-3	Dimethylphthalate	2000	U
208-96-8	Acenaphthylene	2000	U
606-20-2	2,6-Dinitrotoluene	2000	U
99-09-2	3-Nitroaniline	4000	U
83-32-9	Acenaphthene	500	J
51-28-5	2,4-Dinitrophenol	4000	U
100-02-7	4-Nitrophenol	4000	U
132-64-9	Dibenzofuran	2000	U
121-14-2	2,4-Dinitrotoluene	2000	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-36 (5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-09A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2913.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/01/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	2000	U
7005-72-3	4-Chlorophenyl-phenylether	2000	U
86-73-7	Fluorene	2000	U
100-01-6	4-Nitroaniline	4000	U
534-52-1	4,6-Dinitro-2-methylphenol	4000	U
86-30-6	N-Nitrosodiphenylamine	2000	U
101-55-3	4-Bromophenyl-phenylether	2000	U
118-74-1	Hexachlorobenzene	2000	U
87-86-5	Pentachlorophenol	4000	U
85-01-8	Phenanthrene	5200	
120-12-7	Anthracene	930	J
86-74-8	Carbazole	1500	J
84-74-2	Di-n-butylphthalate	2000	U
206-44-0	Fluoranthene	23000	
129-00-0	Pyrene	21000	
85-68-7	Butylbenzylphthalate	2000	U
91-94-1	3,3´-Dichlorobenzidine	2000	U
56-55-3	Benzo(a)anthracene	24000	
218-01-9	Chrysene	28000	
117-81-7	Bis(2-ethylhexyl)phthalate	2000	U
117-84-0	Di-n-octylphthalate	2000	U
205-99-2	Benzo(b)fluoranthene	32000	
207-08-9	Benzo(k)fluoranthene	11000	
50-32-8	Benzo(a)pyrene	26000	
193-39-5	Indeno(1,2,3-cd)pyrene	20000	
53-70-3	Dibenzo(a,h)anthracene	9300	
191-24-2	Benzo(g,h,i)perylene	24000	

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1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SI-TP-36 (5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-09A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2913.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/01/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 5.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	243-17-4	11H-Benzo[b]fluorene	13.201	2100	NJ
02	84-15-1	o-Terphenyl	13.569	1300	NJ
03	243-46-9	Benzo[b]naphtho[2,3-d]thioph	13.730	1400	NJ
04	67064-62-4	8,9,10,11-Tetrahydrobenz[a]a	13.788	1100	NJ
05		Unknown-01	14.029	1400	J
06	24360-63-2	Benzo[b]naphtho[2,3-d]thioph	14.093	1500	NJ
07		Unknown-02	14.125	1600	J
08	205-25-4	7H-Benzo[c]carbazole	14.157	1600	NJ
09	1705-84-6	Triphenylene, 2-methyl-	14.291	3300	NJ
10	1705-84-6	Triphenylene, 2-methyl-	14.317	1700	NJ
11		Unknown-03	14.392	1200	J
12		Unknown-04	14.574	5300	J
13	54986-63-9	Benzo[c]phenanthrene, 5,8-di	14.643	7300	NJ
14		Unknown-05	14.702	5500	J
15	198-55-0	Perylene	15.038	27000	NJ
16	198-55-0	Perylene	15.145	14000	NJ
17		Unknown-06	15.412	5300	J
18	135-48-8	Pentacene	16.182	7700	NJ
19	215-58-7	Benzo[b]triphenylene	16.219	16000	NJ
20	191-26-4	Dibenzo[def,mno]chrysene	16.508	14000	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-38W (20)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-10A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2899.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/30/2008

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	360	U
111-44-4	Bis(2-chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
111-91-1	Bis(2-chloroethoxy)methane	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	740	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	740	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	740	U
83-32-9	Acenaphthene	130	J
51-28-5	2,4-Dinitrophenol	740	U
100-02-7	4-Nitrophenol	740	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-38W (20)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-10A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2899.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/30/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	740	U
534-52-1	4,6-Dinitro-2-methylphenol	740	U
86-30-6	N-Nitrosodiphenylamine	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	740	U
85-01-8	Phenanthrene	370	
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	580	
129-00-0	Pyrene	500	
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3´-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	480	
218-01-9	Chrysene	640	
117-81-7	Bis(2-ethylhexyl)phthalate	360	U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	700	
207-08-9	Benzo(k)fluoranthene	280	J
50-32-8	Benzo(a)pyrene	690	
193-39-5	Indeno(1,2,3-cd)pyrene	490	
53-70-3	Dibenzo(a,h)anthracene	190	J
191-24-2	Benzo(g,h,i)perylene	650	

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SI-TP-38W (20)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-10A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F2899.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/30/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	544-76-3	Hexadecane	10.488	230	NJ
02	629-78-7	Heptadecane	11.075	300	NJ
03	593-45-3	Octadecane	11.561	250	NJ
04	629-92-5	Nonadecane	11.983	240	NJ
05	4505-48-0	1H-Indene, 2-phenyl-	12.122	210	NJ
06	112-95-8	Eicosane	12.363	240	NJ
07	629-94-7	Heneicosane	12.705	240	NJ
08	3442-78-2	Pyrene, 2-methyl-	13.335	250	NJ
09	205-82-3	Benzo[j]fluoranthene	15.066	450	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-38E (10)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1549-11A

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: S3F2900.D

Level: (LOW/MED) LOW

Extraction: (Type) SONC

% Moisture: 9.0

Decanted: (Y/N) N

Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL)

Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL)

GPC Factor: 1.00

Date Analyzed: 09/30/2008

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	360	U
111-44-4	Bis(2-chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2´-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	120	J
106-47-8	4-Chloroaniline	360	U
111-91-1	Bis(2-chloroethoxy)methane	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	170	J
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	730	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	730	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	730	U
83-32-9	Acenaphthene	360	U
51-28-5	2,4-Dinitrophenol	730	U
100-02-7	4-Nitrophenol	730	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-38E (10)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-11A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2900.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9.0 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/30/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	730	U
534-52-1	4,6-Dinitro-2-methylphenol	730	U
86-30-6	N-Nitrosodiphenylamine	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	730	U
85-01-8	Phenanthrene	770	
120-12-7	Anthracene	130	J
86-74-8	Carbazole	360	U
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	610	
129-00-0	Pyrene	930	
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3´-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	920	
218-01-9	Chrysene	1600	
117-81-7	Bis(2-ethylhexyl)phthalate	360	U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	770	
207-08-9	Benzo(k)fluoranthene	240	J
50-32-8	Benzo(a)pyrene	970	
193-39-5	Indeno(1,2,3-cd)pyrene	430	
53-70-3	Dibenzo(a,h)anthracene	320	J
191-24-2	Benzo(g,h,i)perylene	860	

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SI-TP-38E (10)

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1549
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1549-11A
Sample wt/vol: 30.1 (g/mL) G
Lab File ID: S3F2900.D
Level: (TRACE or LOW/MED) LOW
Extraction: (Type) SONC
% Moisture: 9.0
Decanted: (Y/N) N
Date Received: 09/13/2008
Concentrated Extract Volume: 1000 (uL)
Date Extracted: 09/18/2008
Injection Volume: 1.0 (uL)
GPC Factor: 1.00
Date Analyzed: 09/30/2008
GPC Cleanup: (Y/N) N
pH:
Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	949-41-7	1H-Cyclopropa[l]phenanthrene	12.095	240	NJ
02	613-12-7	Anthracene, 2-methyl-	12.122	380	NJ
03		Unknown-01	12.197	220	J
04	949-41-7	1H-Cyclopropa[l]phenanthrene	12.218	230	NJ
05	112-95-8	Eicosane	12.357	230	NJ
06	1576-67-6	Phenanthrene, 3,6-dimethyl-	12.549	230	NJ
07	3674-65-5	Phenanthrene, 2,3-dimethyl-	12.613	360	NJ
08	2381-21-7	Pyrene, 1-methyl-	13.334	320	NJ
09	3353-12-6	Pyrene, 4-methyl-	13.415	150	NJ
10	2381-21-7	Pyrene, 1-methyl-	13.441	210	NJ
11	243-46-9	Benzo[b]naphtho[2,3-d]thioph	13.778	530	NJ
12		Unknown-02	14.072	300	J
13	3351-28-8	Chrysene, 1-methyl-	14.328	730	NJ
14	2541-69-7	Benz[a]anthracene, 7-methyl-	14.355	330	NJ
15		Unknown-03	14.659	1100	J
16	192-97-2	Benzo[e]pyrene	15.065	1500	NJ
17		Unknown-04	15.375	680	J
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-38E (20)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-12A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2901.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/30/2008

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	370	U
111-44-4	Bis(2-chloroethyl)ether	370	U
95-57-8	2-Chlorophenol	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
95-48-7	2-Methylphenol	370	U
108-60-1	2,2'-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-di-n-propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	150	J
106-47-8	4-Chloroaniline	370	U
111-91-1	Bis(2-chloroethoxy)methane	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-57-6	2-Methylnaphthalene	220	J
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	740	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	740	U
131-11-3	Dimethylphthalate	370	U
208-96-8	Acenaphthylene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
99-09-2	3-Nitroaniline	740	U
83-32-9	Acenaphthene	95	J
51-28-5	2,4-Dinitrophenol	740	U
100-02-7	4-Nitrophenol	740	U
132-64-9	Dibenzofuran	370	U
121-14-2	2,4-Dinitrotoluene	370	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-38E (20)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-12A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2901.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/30/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
86-73-7	Fluorene	370	U
100-01-6	4-Nitroaniline	740	U
534-52-1	4,6-Dinitro-2-methylphenol	740	U
86-30-6	N-Nitrosodiphenylamine	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	740	U
85-01-8	Phenanthrene	1800	
120-12-7	Anthracene	320	J
86-74-8	Carbazole	360	J
84-74-2	Di-n-butylphthalate	370	U
206-44-0	Fluoranthene	4400	
129-00-0	Pyrene	3200	
85-68-7	Butylbenzylphthalate	370	U
91-94-1	3,3'-Dichlorobenzidine	370	U
56-55-3	Benzo(a)anthracene	3800	
218-01-9	Chrysene	4200	
117-81-7	Bis(2-ethylhexyl)phthalate	370	U
117-84-0	Di-n-octylphthalate	370	U
205-99-2	Benzo(b)fluoranthene	5300	
207-08-9	Benzo(k)fluoranthene	2200	
50-32-8	Benzo(a)pyrene	3800	
193-39-5	Indeno(1,2,3-cd)pyrene	3200	
53-70-3	Dibenzo(a,h)anthracene	1500	
191-24-2	Benzo(g,h,i)perylene	3700	

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SI-TP-38E (20)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-12A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2901.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/30/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	629-78-7	Heptadecane	11.072	400	NJ
02	629-92-5	Nonadecane	11.558	360	NJ
03	629-92-5	Nonadecane	11.980	400	NJ
04	613-12-7	Anthracene, 2-methyl-	12.119	420	NJ
05	112-95-8	Eicosane	12.360	410	NJ
06	629-94-7	Heneicosane	12.707	330	NJ
07	243-17-4	11H-Benzo[b]fluorene	13.252	320	NJ
08	2381-21-7	Pyrene, 1-methyl-	13.337	160	NJ
09	243-46-9	Benzo[b]naphtho[2,3-d]thioph	13.781	260	NJ
10	243-28-7	Benzo(b)carbazole	14.203	160	NJ
11	1705-84-6	Triphenylene, 2-methyl-	14.336	210	NJ
12	198-55-0	Perylene	14.945	630	NJ
13	198-55-0	Perylene	15.089	3500	NJ
14	192-97-2	Benzo[e]pyrene	15.196	1600	NJ
15	215-58-7	Benzo[b]triphenylene	16.259	770	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-39 (21)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-13A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2902.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8.0 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/30/2008

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	360	U
111-44-4	Bis(2-chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2´-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
111-91-1	Bis(2-chloroethoxy)methane	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	720	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	720	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	720	U
83-32-9	Acenaphthene	360	U
51-28-5	2,4-Dinitrophenol	720	U
100-02-7	4-Nitrophenol	720	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-39 (21)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-13A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2902.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8.0 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/30/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	720	U
534-52-1	4,6-Dinitro-2-methylphenol	720	U
86-30-6	N-Nitrosodiphenylamine	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	720	U
85-01-8	Phenanthrene	400	
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	510	
129-00-0	Pyrene	360	J
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3´-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	230	J
218-01-9	Chrysene	330	J
117-81-7	Bis(2-ethylhexyl)phthalate	360	U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	450	
207-08-9	Benzo(k)fluoranthene	210	J
50-32-8	Benzo(a)pyrene	250	J
193-39-5	Indeno(1,2,3-cd)pyrene	240	J
53-70-3	Dibenzo(a,h)anthracene	95	J
191-24-2	Benzo(g,h,i)perylene	270	J

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SI-TP-39 (21)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-13A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2902.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8.0 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/30/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	544-76-3	Hexadecane	13.623	180	NJ
02	629-94-7	Heneicosane	13.901	300	NJ
03	630-03-5	Nonacosane	14.168	380	NJ
04	593-49-7	Heptacosane	14.430	500	NJ
05	301-02-0	9-Octadecenamide, (Z)-	14.665	800	NJ
06		Unknown-01	14.927	220	J
07	192-97-2	Benzo[e]pyrene	15.060	210	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-41 (12)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-14A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2905.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 6.0 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/30/2008

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	350	U
111-44-4	Bis(2-chloroethyl)ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2´-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	130	J
106-47-8	4-Chloroaniline	350	U
111-91-1	Bis(2-chloroethoxy)methane	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	710	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	710	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
99-09-2	3-Nitroaniline	710	U
83-32-9	Acenaphthene	350	U
51-28-5	2,4-Dinitrophenol	710	U
100-02-7	4-Nitrophenol	710	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-41 (12)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-14A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F2905.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 6.0 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/30/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U
100-01-6	4-Nitroaniline	710	U
534-52-1	4,6-Dinitro-2-methylphenol	710	U
86-30-6	N-Nitrosodiphenylamine	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	710	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
86-74-8	Carbazole	350	U
84-74-2	Di-n-butylphthalate	350	U
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3´-Dichlorobenzidine	350	U
56-55-3	Benzo(a)anthracene	350	U
218-01-9	Chrysene	350	U
117-81-7	Bis(2-ethylhexyl)phthalate	350	U
117-84-0	Di-n-octylphthalate	350	U
205-99-2	Benzo(b)fluoranthene	350	U
207-08-9	Benzo(k)fluoranthene	350	U
50-32-8	Benzo(a)pyrene	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
53-70-3	Dibenzo(a,h)anthracene	350	U
191-24-2	Benzo(g,h,i)perylene	350	U

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SI-TP-41 (12)

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG1549
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1549-14A
Sample wt/vol: 30.1 (g/mL) G
Lab File ID: S3F2905.D
Level: (TRACE or LOW/MED) LOW
Extraction: (Type) SONC
% Moisture: 6.0
Decanted: (Y/N) N
Date Received: 09/13/2008
Concentrated Extract Volume: 1000 (uL)
Date Extracted: 09/18/2008
Injection Volume: 1.0 (uL)
GPC Factor: 1.00
Date Analyzed: 09/30/2008
GPC Cleanup: (Y/N) N
pH:
Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	106-45-6	Benzenethiol, 4-methyl-	4.889	220	NJ
02	629-62-9	Pentadecane	9.729	160	NJ
03	3185-99-7	Benzene, 1-methyl-4-(methyls	9.857	150	NJ
04	1732-10-1	Nonanedioic acid, dimethyl e	10.092	170	NJ
05	143-07-7	Dodecanoic acid	10.226	300	NJ
06		Unknown-01	10.381	160	J
07	17851-53-5	1,2-Benzenedicarboxylic acid	11.839	250	NJ
08		Unknown-02	12.918	1000	J
09	599-66-6	di-p-Tolyl sulfone	12.998	240	NJ
10	599-66-6	di-p-Tolyl sulfone	13.121	1700	NJ
11		Unknown-03	13.319	200	J
12	112-84-5	13-Docosenamide, (Z)-	14.660	590	NJ
13	481-21-0	Cholestane	15.237	320	NJ
14	36728-72-0	28-Nor-17.beta.(H)-hopane	15.600	530	NJ
15		Unknown-04	15.878	590	J
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-42 (5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-15A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2906.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 5.0 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/30/2008

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	340	U
111-44-4	Bis(2-chloroethyl)ether	340	U
95-57-8	2-Chlorophenol	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	2,2´-oxybis(1-Chloropropane)	340	U
106-44-5	4-Methylphenol	340	U
621-64-7	N-Nitroso-di-n-propylamine	340	U
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
111-91-1	Bis(2-chloroethoxy)methane	340	U
87-68-3	Hexachlorobutadiene	340	U
59-50-7	4-Chloro-3-methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	700	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	700	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U
99-09-2	3-Nitroaniline	700	U
83-32-9	Acenaphthene	340	U
51-28-5	2,4-Dinitrophenol	700	U
100-02-7	4-Nitrophenol	700	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-42 (5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-15A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2906.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 5.0 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/30/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	340	U
7005-72-3	4-Chlorophenyl-phenylether	340	U
86-73-7	Fluorene	340	U
100-01-6	4-Nitroaniline	700	U
534-52-1	4,6-Dinitro-2-methylphenol	700	U
86-30-6	N-Nitrosodiphenylamine	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	700	U
85-01-8	Phenanthrene	190	J
120-12-7	Anthracene	340	U
86-74-8	Carbazole	340	U
84-74-2	Di-n-butylphthalate	340	U
206-44-0	Fluoranthene	280	J
129-00-0	Pyrene	200	J
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	340	U
56-55-3	Benzo(a)anthracene	150	J
218-01-9	Chrysene	220	J
117-81-7	Bis(2-ethylhexyl)phthalate	340	U
117-84-0	Di-n-octylphthalate	340	U
205-99-2	Benzo(b)fluoranthene	270	J
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	150	J
193-39-5	Indeno(1,2,3-cd)pyrene	130	J
53-70-3	Dibenzo(a,h)anthracene	340	U
191-24-2	Benzo(g,h,i)perylene	170	J

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1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SI-TP-42 (5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-15A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2906.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 5.0 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/30/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.275	150	J
02		Unknown-02	10.900	180	J
03	112-84-5	13-Docosenamide, (Z)-	14.666	300	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-43-W

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1550

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G1541-01B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3F2584.D

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2008

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
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	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
120-82-1	1,2,4-Trichlorobenzene	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	1.4	J
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

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1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-43-W

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1550

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G1541-01B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3F2584.D

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	1.2	J
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	5.5	J
120-12-7	Anthracene	1.7	J
86-74-8	Carbazole	1.4	J
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	6.6	J
129-00-0	Pyrene	5.1	J
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3´-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	3.3	J
218-01-9	Chrysene	3.7	J
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	5.6	J
207-08-9	Benzo(k)fluoranthene	2.5	J
50-32-8	Benzo(a)pyrene	4.8	J
193-39-5	Indeno(1,2,3-cd)pyrene	3.0	J
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	4.7	J

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1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-43-W

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1550

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G1541-01B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3F2584.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	5469-16-9	2(3H)-Furanone, dihydro-4-hy	6.426	6.5	NJ
02		Unknown-01	8.109	7.1	J
03		Unknown-02	10.566	9.0	J
04		Unknown-03	11.463	5.1	J
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

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1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-45 (5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-16A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2907.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/30/2008

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	370	U
111-44-4	Bis(2-chloroethyl)ether	370	U
95-57-8	2-Chlorophenol	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
95-48-7	2-Methylphenol	370	U
108-60-1	2,2'-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-di-n-propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
111-91-1	Bis(2-chloroethoxy)methane	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	760	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	760	U
131-11-3	Dimethylphthalate	370	U
208-96-8	Acenaphthylene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
99-09-2	3-Nitroaniline	760	U
83-32-9	Acenaphthene	370	U
51-28-5	2,4-Dinitrophenol	760	U
100-02-7	4-Nitrophenol	760	U
132-64-9	Dibenzofuran	370	U
121-14-2	2,4-Dinitrotoluene	370	U

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1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-45 (5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-16A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2907.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/30/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
86-73-7	Fluorene	370	U
100-01-6	4-Nitroaniline	760	U
534-52-1	4,6-Dinitro-2-methylphenol	760	U
86-30-6	N-Nitrosodiphenylamine	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	760	U
85-01-8	Phenanthrene	230	J
120-12-7	Anthracene	370	U
86-74-8	Carbazole	370	U
84-74-2	Di-n-butylphthalate	370	U
206-44-0	Fluoranthene	390	
129-00-0	Pyrene	350	J
85-68-7	Butylbenzylphthalate	370	U
91-94-1	3,3´-Dichlorobenzidine	370	U
56-55-3	Benzo(a)anthracene	500	
218-01-9	Chrysene	980	
117-81-7	Bis(2-ethylhexyl)phthalate	150	J
117-84-0	Di-n-octylphthalate	370	U
205-99-2	Benzo(b)fluoranthene	850	
207-08-9	Benzo(k)fluoranthene	390	
50-32-8	Benzo(a)pyrene	670	
193-39-5	Indeno(1,2,3-cd)pyrene	550	
53-70-3	Dibenzo(a,h)anthracene	290	J
191-24-2	Benzo(g,h,i)perylene	740	

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1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SI-TP-45 (5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-16A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F2907.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/30/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	118-65-0	Bicyclo[7.2.0]undec-4-ene, 4	8.987	260	NJ
02	143-07-7	Dodecanoic acid	10.226	210	NJ
03		Unknown-01	10.873	180	J
04		Unknown-02	10.899	2000	J
05		Unknown-03	12.625	190	J
06		Unknown-04	13.774	370	J
07		Unknown-05	14.073	290	J
08	2541-69-7	Benz[a]anthracene, 7-methyl-	14.329	620	NJ
09	3351-28-8	Chrysene, 1-methyl-	14.356	280	NJ
10	2498-77-3	Benz[a]anthracene, 1-methyl-	14.436	410	NJ
11	54986-63-9	Benzo[c]phenanthrene, 5,8-di	14.682	1800	NJ
12	198-55-0	Perylene	15.066	670	NJ
13		Unknown-06	15.237	1200	J
14		Unknown-07	15.611	2000	J
15		Unknown-08	15.889	1500	J
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

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1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-47 (4)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-17A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2914.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/01/2008

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	380	U
111-44-4	Bis(2-chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
111-91-1	Bis(2-chloroethoxy)methane	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	780	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	780	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	780	U
83-32-9	Acenaphthene	380	U
51-28-5	2,4-Dinitrophenol	780	U
100-02-7	4-Nitrophenol	780	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-47 (4)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-17A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2914.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/01/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	780	U
534-52-1	4,6-Dinitro-2-methylphenol	780	U
86-30-6	N-Nitrosodiphenylamine	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	780	U
85-01-8	Phenanthrene	210	J
120-12-7	Anthracene	380	U
86-74-8	Carbazole	380	U
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	370	J
129-00-0	Pyrene	480	
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3´-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	600	
218-01-9	Chrysene	1100	
117-81-7	Bis(2-ethylhexyl)phthalate	440	
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	810	
207-08-9	Benzo(k)fluoranthene	350	J
50-32-8	Benzo(a)pyrene	730	
193-39-5	Indeno(1,2,3-cd)pyrene	470	
53-70-3	Dibenzo(a,h)anthracene	230	J
191-24-2	Benzo(g,h,i)perylene	750	

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SI-TP-47 (4)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-17A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3F2914.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/01/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	65-85-0	Benzoic Acid	5.803	530	NJ
02		Unknown-01	8.682	2800	J
03	1119-94-4	Dodecyltrimethylammonium bro	9.756	2200	NJ
04		Unknown-02	10.846	750	J
05	112-75-4	1-Tetradecanamine, N,N-dimet	11.081	1200	NJ
06	112-69-6	1-Hexadecanamine, N,N-dimeth	11.973	850	NJ
07		Unknown-03	12.635	560	J
08		Unknown-04	12.753	280	J
09		Unknown-05	13.362	780	J
10		Unknown-06	13.405	1700	J
11	243-46-9	Benzo[b]naphtho[2,3-d]thioph	13.731	210	NJ
12		Unknown-07	13.779	360	J
13	2915-90-4	1-Dodecanamine, N-dodecyl-N-	13.917	3200	NJ
14	1705-84-6	Triphenylene, 2-methyl-	14.286	370	NJ
15	2541-69-7	Benz[a]anthracene, 7-methyl-	14.313	330	NJ
16		Unknown-08	14.441	3100	J
17		Unknown-09	14.943	6300	J
18	192-97-2	Benzo[e]pyrene	15.023	890	NJ
19		Unknown-10	15.493	4600	J
20		Unknown-11	16.161	1800	J
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-48 (2)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-18A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2915.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/01/2008

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
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
95-50-1	1,2-Dichlorobenzene	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
120-82-1	1,2,4-Trichlorobenzene	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

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-48 (2)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-18A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2915.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/01/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
86-73-7	Fluorene	420	U
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	420	U
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	200	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

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SI-TP-48 (2)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-18A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3F2915.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 09/13/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/18/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/01/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	295-65-8	Cyclohexadecane	13.856	270	NJ
02	297-03-0	Cyclotetracosane	14.401	400	NJ
03		Unknown-01	14.631	770	J
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-49 (15)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1621

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1621-02A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F3109.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 09/20/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/23/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/08/2008

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	380	U
111-44-4	Bis(2-chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2´-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
111-91-1	Bis(2-chloroethoxy)methane	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	780	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	780	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	780	U
83-32-9	Acenaphthene	380	U
51-28-5	2,4-Dinitrophenol	780	U
100-02-7	4-Nitrophenol	780	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-49 (15)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1621

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1621-02A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F3109.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 09/20/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/23/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/08/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	780	U
534-52-1	4,6-Dinitro-2-methylphenol	780	U
86-30-6	N-Nitrosodiphenylamine	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	780	U
85-01-8	Phenanthrene	470	
120-12-7	Anthracene	110	J
86-74-8	Carbazole	380	U
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	430	
129-00-0	Pyrene	330	J
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3´-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	180	J
218-01-9	Chrysene	220	J
117-81-7	Bis(2-ethylhexyl)phthalate	380	U
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	220	J
207-08-9	Benzo(k)fluoranthene	380	U
50-32-8	Benzo(a)pyrene	170	J
193-39-5	Indeno(1,2,3-cd)pyrene	100	J
53-70-3	Dibenzo(a,h)anthracene	380	U
191-24-2	Benzo(g,h,i)perylene	120	J

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-TP-49 (15)

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM Case No.:
Mod. Ref No.: SDG No.: MG1621
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: G1621-02A
Sample wt/vol: 30.5 (g/mL) G
Lab File ID: S3F3109.D
Level: (TRACE or LOW/MED) LOW
Extraction: (Type) SONC
% Moisture: 15 Decanted: (Y/N) N
Date Received: 09/20/2008
Concentrated Extract Volume: 1000 (uL)
Date Extracted: 09/23/2008
Injection Volume: 1.0 (uL) GPC Factor: 1.00
Date Analyzed: 10/08/2008
GPC Cleanup: (Y/N) N pH:
Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	143-07-7	Dodecanoic acid	9.866	170	NJ
02		Unknown-01	12.072	170	J
03	40710-42-7	1-Hentetracontanol	13.616	230	NJ
04		Unknown-02	14.124	6100	J
05	112-84-5	13-Docosenamide, (Z)-	14.370	1100	NJ
06	18435-45-5	1-Nonadecene	14.653	200	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-01 (4)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-08A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: E3F6378F.D/E3F6378R.D

% Moisture: 15 Decanted: (Y/N) N Date Received: 09/11/2008

Extraction: (Type) SONC Date Extracted: 09/17/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/22/2008

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	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-02 (15)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1522-09A

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: E3F6379F.D/E3F6379R.D

% Moisture: 11

Decanted: (Y/N) N

Date Received: 09/11/2008

Extraction: (Type) SONC

Date Extracted: 09/17/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 09/22/2008

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	37	U
11104-28-2	Aroclor-1221	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	37	U
11096-82-5	Aroclor-1260	37	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-02A (1)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1522-10A

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: E3F6380F.D/E3F6380R.D

% Moisture: 8.0

Decanted: (Y/N) N

Date Received: 09/11/2008

Extraction: (Type) SONC

Date Extracted: 09/17/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 09/22/2008

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	35	U
11104-28-2	Aroclor-1221	35	U
11141-16-5	Aroclor-1232	35	U
53469-21-9	Aroclor-1242	35	U
12672-29-6	Aroclor-1248	35	U
11097-69-1	Aroclor-1254	35	U
11096-82-5	Aroclor-1260	35	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-05 (2)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-07A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: E3F6377F.D/E3F6377R.D

% Moisture: 18 Decanted: (Y/N) N Date Received: 09/11/2008

Extraction: (Type) SONC Date Extracted: 09/17/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/22/2008

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

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-06 (5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-06A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: E3F6376F.D/E3F6376R.D

% Moisture: 15 Decanted: (Y/N) N Date Received: 09/11/2008

Extraction: (Type) SONC Date Extracted: 09/17/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/22/2008

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	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-08 (5.5)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1522-05A

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: E3F6375F.D/E3F6375R.D

% Moisture: 14

Decanted: (Y/N) N

Date Received: 09/11/2008

Extraction: (Type) SONC

Date Extracted: 09/17/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 09/22/2008

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	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-09 (3)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1522-14A

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: E3F6389F.D/E3F6389R.D

% Moisture: 10

Decanted: (Y/N) N

Date Received: 09/11/2008

Extraction: (Type) SONC

Date Extracted: 09/17/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 09/22/2008

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	36	U
11104-28-2	Aroclor-1221	36	U
11141-16-5	Aroclor-1232	36	U
53469-21-9	Aroclor-1242	36	U
12672-29-6	Aroclor-1248	36	U
11097-69-1	Aroclor-1254	36	U
11096-82-5	Aroclor-1260	36	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-11 (2.5)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM Case No.:

Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1522-15A

Sample wt/vol: 30.4 (g/mL) G

Lab File ID: E3F6390F.D/E3F6390R.D

% Moisture: 9.0 Decanted: (Y/N) N

Date Received: 09/11/2008

Extraction: (Type) SONC

Date Extracted: 09/17/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 09/22/2008

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	36	U
11104-28-2	Aroclor-1221	36	U
11141-16-5	Aroclor-1232	36	U
53469-21-9	Aroclor-1242	36	U
12672-29-6	Aroclor-1248	36	U
11097-69-1	Aroclor-1254	36	U
11096-82-5	Aroclor-1260	36	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-12 (2.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-16A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: E3F6391F.D/E3F6391R.D

% Moisture: 14 Decanted: (Y/N) N Date Received: 09/11/2008

Extraction: (Type) SONC Date Extracted: 09/17/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/23/2008

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	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-13 (18)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-17A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: E3F6392F.D/E3F6392R.D

% Moisture: 17 Decanted: (Y/N) N Date Received: 09/11/2008

Extraction: (Type) SONC Date Extracted: 09/17/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/23/2008

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	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U
11096-82-5	Aroclor-1260	39	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-14 (6)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-18A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: E3F6393F.D/E3F6393R.D

% Moisture: 6.0 Decanted: (Y/N) N Date Received: 09/11/2008

Extraction: (Type) SONC Date Extracted: 09/17/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/23/2008

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	35	U
11104-28-2	Aroclor-1221	35	U
11141-16-5	Aroclor-1232	35	U
53469-21-9	Aroclor-1242	35	U
12672-29-6	Aroclor-1248	35	U
11097-69-1	Aroclor-1254	35	U
11096-82-5	Aroclor-1260	35	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-19 (9.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-19A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: E3F6394F.D/E3F6394R.D

% Moisture: 25 Decanted: (Y/N) N Date Received: 09/11/2008

Extraction: (Type) SONC Date Extracted: 09/17/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/23/2008

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

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-20 (12)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1522

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1522-20A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: E3F6395F.D/E3F6395R.D

% Moisture: 11 Decanted: (Y/N) N Date Received: 09/11/2008

Extraction: (Type) SONC Date Extracted: 09/17/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/23/2008

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	37	U
11104-28-2	Aroclor-1221	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	37	U
11096-82-5	Aroclor-1260	37	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-21 (17.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-02A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: E3F6490F.D/E3F6490R.D

% Moisture: 24 Decanted: (Y/N) N Date Received: 09/11/2008

Extraction: (Type) SONC Date Extracted: 09/17/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/26/2008

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

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-22 (18)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-03A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: E3F6491F.D/E3F6491R.D

% Moisture: 17 Decanted: (Y/N) N Date Received: 09/11/2008

Extraction: (Type) SONC Date Extracted: 09/17/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/26/2008

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	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U
11096-82-5	Aroclor-1260	39	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-23 (5.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-04A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: E3F6492F.D/E3F6492R.D

% Moisture: 11 Decanted: (Y/N) N Date Received: 09/11/2008

Extraction: (Type) SONC Date Extracted: 09/17/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/26/2008

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	37	U
11104-28-2	Aroclor-1221	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	37	U
11096-82-5	Aroclor-1260	37	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-24 (12)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1523

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1523-05A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: E3F6493F.D/E3F6493R.D

% Moisture: 17 Decanted: (Y/N) N Date Received: 09/11/2008

Extraction: (Type) SONC Date Extracted: 09/17/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/26/2008

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	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U
11096-82-5	Aroclor-1260	39	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-26 (5.5)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-02A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: E2H3332F.D/E2H3332R.D

% Moisture: 14 Decanted: (Y/N) N Date Received: 09/13/2008

Extraction: (Type) SONC Date Extracted: 09/22/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/01/2008

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	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-27 (9)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1549-07A

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: E2H3337F.D/E2H3337R.D

% Moisture: 16

Decanted: (Y/N) N

Date Received: 09/13/2008

Extraction: (Type) SONC

Date Extracted: 09/22/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 10/01/2008

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	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U
11096-82-5	Aroclor-1260	39	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-28 (8)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1549-05A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: E2H3335F.D/E2H3335R.D

% Moisture: 14 Decanted: (Y/N) N Date Received: 09/13/2008

Extraction: (Type) SONC Date Extracted: 09/22/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/01/2008

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	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-29 (8)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1549-01A

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: E2H3331F.D/E2H3331R.D

% Moisture: 16

Decanted: (Y/N) N

Date Received: 09/13/2008

Extraction: (Type) SONC

Date Extracted: 09/22/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 10/01/2008

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	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U
11096-82-5	Aroclor-1260	39	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-31 (5.5)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1549-04A

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: E2H3334F.D/E2H3334R.D

% Moisture: 19

Decanted: (Y/N) N

Date Received: 09/13/2008

Extraction: (Type) SONC

Date Extracted: 09/22/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 10/01/2008

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

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-33 (1.5)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1549-03A

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: E2H3333F.D/E2H3333R.D

% Moisture: 39

Decanted: (Y/N) N

Date Received: 09/13/2008

Extraction: (Type) SONC

Date Extracted: 09/22/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 10/01/2008

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	54	U
11104-28-2	Aroclor-1221	54	U
11141-16-5	Aroclor-1232	54	U
53469-21-9	Aroclor-1242	54	U
12672-29-6	Aroclor-1248	54	U
11097-69-1	Aroclor-1254	180	P
11096-82-5	Aroclor-1260	54	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-35 (10)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1549-08A

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: E2H3338F.D/E2H3338R.D

% Moisture: 10

Decanted: (Y/N) N

Date Received: 09/13/2008

Extraction: (Type) SONC

Date Extracted: 09/22/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 10/01/2008

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	36	U
11104-28-2	Aroclor-1221	36	U
11141-16-5	Aroclor-1232	36	U
53469-21-9	Aroclor-1242	36	U
12672-29-6	Aroclor-1248	36	U
11097-69-1	Aroclor-1254	36	U
11096-82-5	Aroclor-1260	36	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-36 (5)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM Case No.:

Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1549-09A

Sample wt/vol: 30.4 (g/mL) G

Lab File ID: E2H3339F.D/E2H3339R.D

% Moisture: 17 Decanted: (Y/N) N

Date Received: 09/13/2008

Extraction: (Type) SONC

Date Extracted: 09/22/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 10/01/2008

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	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U
11096-82-5	Aroclor-1260	39	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-38W (20)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM Case No.:

Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1549-10A

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: E2H3340F.D/E2H3340R.D

% Moisture: 10 Decanted: (Y/N) N

Date Received: 09/13/2008

Extraction: (Type) SONC

Date Extracted: 09/22/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 10/01/2008

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	36	U
11104-28-2	Aroclor-1221	36	U
11141-16-5	Aroclor-1232	36	U
53469-21-9	Aroclor-1242	36	U
12672-29-6	Aroclor-1248	36	U
11097-69-1	Aroclor-1254	36	U
11096-82-5	Aroclor-1260	36	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-38E (10)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM Case No.:

Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1549-11A

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: E2H3341F.D/E2H3341R.D

% Moisture: 9.0 Decanted: (Y/N) N

Date Received: 09/13/2008

Extraction: (Type) SONC

Date Extracted: 09/22/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 10/01/2008

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	36	U
11104-28-2	Aroclor-1221	36	U
11141-16-5	Aroclor-1232	36	U
53469-21-9	Aroclor-1242	36	U
12672-29-6	Aroclor-1248	36	U
11097-69-1	Aroclor-1254	36	U
11096-82-5	Aroclor-1260	36	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-38E (20)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1549-12A

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: E2H3342F.D/E2H3342R.D

% Moisture: 11

Decanted: (Y/N) N

Date Received: 09/13/2008

Extraction: (Type) SONC

Date Extracted: 09/22/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 10/02/2008

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	37	U
11104-28-2	Aroclor-1221	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	37	U
11096-82-5	Aroclor-1260	37	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-39 (21)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM Case No.:

Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1549-13A

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: E2H3349F.D/E2H3349R.D

% Moisture: 8.0 Decanted: (Y/N) N

Date Received: 09/13/2008

Extraction: (Type) SONC

Date Extracted: 09/22/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 10/02/2008

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	35	U
11104-28-2	Aroclor-1221	35	U
11141-16-5	Aroclor-1232	35	U
53469-21-9	Aroclor-1242	35	U
12672-29-6	Aroclor-1248	35	U
11097-69-1	Aroclor-1254	35	U
11096-82-5	Aroclor-1260	35	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-41 (12)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1549-14A

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: E2H3352F.D/E2H3352R.D

% Moisture: 6.0

Decanted: (Y/N) N

Date Received: 09/13/2008

Extraction: (Type) SONC

Date Extracted: 09/22/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 10/02/2008

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	35	U
11104-28-2	Aroclor-1221	35	U
11141-16-5	Aroclor-1232	35	U
53469-21-9	Aroclor-1242	35	U
12672-29-6	Aroclor-1248	35	U
11097-69-1	Aroclor-1254	35	U
11096-82-5	Aroclor-1260	35	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-42 (5)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM Case No.:

Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1549-15A

Sample wt/vol: 30.4 (g/mL) G

Lab File ID: E2H3353F.D/E2H3353R.D

% Moisture: 5.0 Decanted: (Y/N) N

Date Received: 09/13/2008

Extraction: (Type) SONC

Date Extracted: 09/22/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 10/02/2008

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	34	U
11104-28-2	Aroclor-1221	34	U
11141-16-5	Aroclor-1232	34	U
53469-21-9	Aroclor-1242	34	U
12672-29-6	Aroclor-1248	34	U
11097-69-1	Aroclor-1254	34	U
11096-82-5	Aroclor-1260	34	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-TP-43-W

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM Case No.:

Mod. Ref No.: SDG No.: MG1550

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: G1541-01B

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: E3F6187F.D/E3F6187R.D

% Moisture: Decanted: (Y/N)

Date Received: 09/13/2008

Extraction: (Type) SEPF

Date Extracted: 09/15/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 09/16/2008

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

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-45 (5)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1549-16A

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: E2H3354F.D/E2H3354R.D

% Moisture: 13

Decanted: (Y/N) N

Date Received: 09/13/2008

Extraction: (Type) SONC

Date Extracted: 09/22/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 10/02/2008

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	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	36	J

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-47 (4)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM Case No.:

Mod. Ref No.: SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1549-17A

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: E2H3355F.D/E2H3355R.D

% Moisture: 15 Decanted: (Y/N) N

Date Received: 09/13/2008

Extraction: (Type) SONC

Date Extracted: 09/22/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 10/02/2008

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	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	100	P
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-48 (2)

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG1549

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: G1549-18A

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: E2H3356F.D/E2H3356R.D

% Moisture: 22

Decanted: (Y/N) N

Date Received: 09/13/2008

Extraction: (Type) SONC

Date Extracted: 09/22/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 10/02/2008

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

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-49 (15)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1621

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1621-02A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: E3F6703F.D/E3F6703R.D

% Moisture: 15 Decanted: (Y/N) N Date Received: 09/20/2008

Extraction: (Type) SONC Date Extracted: 09/24/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/05/2008

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	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

SW846

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-01 (4)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1522

Matrix (soil/water): SOIL Lab Sample ID: G1522-08

Level (low/med): MED Date Received: 09/11/2008

% Solids: 85.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7920			P
7440-36-0	Antimony	1.5		N	P
7440-38-2	Arsenic	3.4			P
7440-39-3	Barium	41.5		E	P
7440-41-7	Beryllium	0.51		E	P
7440-43-9	Cadmium	0.54			P
7440-70-2	Calcium	17200			P
7440-47-3	Chromium	6.1		E	P
7440-48-4	Cobalt	2.8	B		P
7440-50-8	Copper	96.3		*	P
7439-89-6	Iron	14400		E	P
7439-92-1	Lead	291		N*E	P
7439-95-4	Magnesium	1100		E	P
7439-96-5	Manganese	164		E	P
7439-97-6	Mercury	1.6		*	CV
7440-02-0	Nickel	6.0		E	P
7440-09-7	Potassium	609			P
7782-49-2	Selenium	0.67	U		P
7440-22-4	Silver	0.12	U		P
7440-23-5	Sodium	95.0			P
7440-28-0	Thallium	0.39	U		P
7440-62-2	Vanadium	13.1			P
7440-66-6	Zinc	276		NE	P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-02 (15)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1522

Matrix (soil/water): SOIL Lab Sample ID: G1522-09

Level (low/med): MED Date Received: 09/11/2008

% Solids: 89.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6120			P
7440-36-0	Antimony	0.72	B	N	P
7440-38-2	Arsenic	4.3			P
7440-39-3	Barium	31.0		E	P
7440-41-7	Beryllium	0.31		E	P
7440-43-9	Cadmium	0.23			P
7440-70-2	Calcium	25900			P
7440-47-3	Chromium	13.4		E	P
7440-48-4	Cobalt	3.1			P
7440-50-8	Copper	81.4		*	P
7439-89-6	Iron	31900		E	P
7439-92-1	Lead	60.3		N*E	P
7439-95-4	Magnesium	2020		E	P
7439-96-5	Manganese	642		E	P
7439-97-6	Mercury	0.18		*	CV
7440-02-0	Nickel	7.4		E	P
7440-09-7	Potassium	765			P
7782-49-2	Selenium	0.54	U		P
7440-22-4	Silver	0.099	U		P
7440-23-5	Sodium	133			P
7440-28-0	Thallium	0.86	B		P
7440-62-2	Vanadium	23.6			P
7440-66-6	Zinc	82.8		NE	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-02A (1)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1522

Matrix (soil/water): SOIL Lab Sample ID: G1522-10

Level (low/med): MED Date Received: 09/11/2008

% Solids: 92.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5770			P
7440-36-0	Antimony	0.12	U	N	P
7440-38-2	Arsenic	5.3			P
7440-39-3	Barium	85.2		E	P
7440-41-7	Beryllium	0.27		E	P
7440-43-9	Cadmium	0.26			P
7440-70-2	Calcium	33800			P
7440-47-3	Chromium	8.7		E	P
7440-48-4	Cobalt	1.9	B		P
7440-50-8	Copper	43.9		*	P
7439-89-6	Iron	22900		E	P
7439-92-1	Lead	96.5		N*E	P
7439-95-4	Magnesium	2030		E	P
7439-96-5	Manganese	544		E	P
7439-97-6	Mercury	0.12		*	CV
7440-02-0	Nickel	6.3		E	P
7440-09-7	Potassium	637			P
7782-49-2	Selenium	0.50	U		P
7440-22-4	Silver	0.092	U		P
7440-23-5	Sodium	232			P
7440-28-0	Thallium	0.69	B		P
7440-62-2	Vanadium	15.9			P
7440-66-6	Zinc	76.4		NE	P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-05 (2)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1522

Matrix (soil/water): SOIL Lab Sample ID: G1522-07

Level (low/med): MED Date Received: 09/11/2008

% Solids: 82.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4410			P
7440-36-0	Antimony	1.3		N	P
7440-38-2	Arsenic	9.6			P
7440-39-3	Barium	37.6		E	P
7440-41-7	Beryllium	0.26	B	E	P
7440-43-9	Cadmium	0.27	B		P
7440-70-2	Calcium	16900			P
7440-47-3	Chromium	12.4		E	P
7440-48-4	Cobalt	6.6			P
7440-50-8	Copper	324		*	P
7439-89-6	Iron	76600		E	P
7439-92-1	Lead	99.1		N*E	P
7439-95-4	Magnesium	1000		E	P
7439-96-5	Manganese	846		E	P
7439-97-6	Mercury	0.047		*	CV
7440-02-0	Nickel	11.6		E	P
7440-09-7	Potassium	372			P
7782-49-2	Selenium	0.66	U		P
7440-22-4	Silver	0.12	U		P
7440-23-5	Sodium	91.8			P
7440-28-0	Thallium	0.39	U		P
7440-62-2	Vanadium	29.5			P
7440-66-6	Zinc	167		NE	P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-06 (5)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1522

Matrix (soil/water): SOIL Lab Sample ID: G1522-06

Level (low/med): MED Date Received: 09/11/2008

% Solids: 85.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4140			P
7440-36-0	Antimony	1.3		N	P
7440-38-2	Arsenic	9.7			P
7440-39-3	Barium	88.0		E	P
7440-41-7	Beryllium	0.44		E	P
7440-43-9	Cadmium	0.29	B		P
7440-70-2	Calcium	127000			P
7440-47-3	Chromium	11.7		E	P
7440-48-4	Cobalt	4.2			P
7440-50-8	Copper	82.6		*	P
7439-89-6	Iron	34000		E	P
7439-92-1	Lead	147		N*E	P
7439-95-4	Magnesium	5480		E	P
7439-96-5	Manganese	364		E	P
7439-97-6	Mercury	0.17		*	CV
7440-02-0	Nickel	12.0		E	P
7440-09-7	Potassium	671			P
7782-49-2	Selenium	0.69	U		P
7440-22-4	Silver	0.13	U		P
7440-23-5	Sodium	96.4			P
7440-28-0	Thallium	0.69	B		P
7440-62-2	Vanadium	12.5			P
7440-66-6	Zinc	121		NE	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-08 (5.5)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1522

Matrix (soil/water): SOIL Lab Sample ID: G1522-05

Level (low/med): MED Date Received: 09/11/2008

% Solids: 86.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3560			P
7440-36-0	Antimony	13.0		N	P
7440-38-2	Arsenic	28.6			P
7440-39-3	Barium	18.8		E	P
7440-41-7	Beryllium	0.14	B	E	P
7440-43-9	Cadmium	9.1			P
7440-70-2	Calcium	15300			P
7440-47-3	Chromium	37.5		E	P
7440-48-4	Cobalt	10.3			P
7440-50-8	Copper	6320		*	P
7439-89-6	Iron	364000		E	P
7439-92-1	Lead	309		N*E	P
7439-95-4	Magnesium	1290		E	P
7439-96-5	Manganese	1710		E	P
7439-97-6	Mercury	0.17		*	CV
7440-02-0	Nickel	32.2		E	P
7440-09-7	Potassium	249			P
7782-49-2	Selenium	0.56	U		P
7440-22-4	Silver	0.51	B		P
7440-23-5	Sodium	52.5			P
7440-28-0	Thallium	0.33	U		P
7440-62-2	Vanadium	77.9			P
7440-66-6	Zinc	474		NE	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-09 (3)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1522

Matrix (soil/water): SOIL Lab Sample ID: G1522-14

Level (low/med): MED Date Received: 09/11/2008

% Solids: 90.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2880			P
7440-36-0	Antimony	0.38	B	N	P
7440-38-2	Arsenic	2.2			P
7440-39-3	Barium	13.5		E	P
7440-41-7	Beryllium	0.11	B	E	P
7440-43-9	Cadmium	0.077	B		P
7440-70-2	Calcium	12100			P
7440-47-3	Chromium	5.8		E	P
7440-48-4	Cobalt	1.0	B		P
7440-50-8	Copper	31.1		*	P
7439-89-6	Iron	7730		E	P
7439-92-1	Lead	32.2		N*E	P
7439-95-4	Magnesium	912		E	P
7439-96-5	Manganese	127		E	P
7439-97-6	Mercury	0.032		*	CV
7440-02-0	Nickel	4.7		E	P
7440-09-7	Potassium	241			P
7782-49-2	Selenium	0.63	U		P
7440-22-4	Silver	0.11	U		P
7440-23-5	Sodium	41.7	B		P
7440-28-0	Thallium	0.37	U		P
7440-62-2	Vanadium	6.4			P
7440-66-6	Zinc	31.1		NE	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-11 (2.5)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1522

Matrix (soil/water): SOIL Lab Sample ID: G1522-15

Level (low/med): MED Date Received: 09/11/2008

% Solids: 91.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5440			P
7440-36-0	Antimony	0.65	B	N	P
7440-38-2	Arsenic	3.4			P
7440-39-3	Barium	27.0		E	P
7440-41-7	Beryllium	0.30		E	P
7440-43-9	Cadmium	0.13	B		P
7440-70-2	Calcium	120000			P
7440-47-3	Chromium	7.5		E	P
7440-48-4	Cobalt	2.8			P
7440-50-8	Copper	37.4		*	P
7439-89-6	Iron	19500		E	P
7439-92-1	Lead	278		N*E	P
7439-95-4	Magnesium	5030		E	P
7439-96-5	Manganese	432		E	P
7439-97-6	Mercury	0.095		*	CV
7440-02-0	Nickel	6.3		E	P
7440-09-7	Potassium	593			P
7782-49-2	Selenium	0.55	U		P
7440-22-4	Silver	0.10	U		P
7440-23-5	Sodium	73.6			P
7440-28-0	Thallium	0.92			P
7440-62-2	Vanadium	12.6			P
7440-66-6	Zinc	50.2		NE	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-12 (2.5)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1522

Matrix (soil/water): SOIL Lab Sample ID: G1522-16

Level (low/med): MED Date Received: 09/11/2008

% Solids: 86.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4120			P
7440-36-0	Antimony	0.77	B	N	P
7440-38-2	Arsenic	14.2			P
7440-39-3	Barium	65.4		E	P
7440-41-7	Beryllium	0.50		E	P
7440-43-9	Cadmium	0.27			P
7440-70-2	Calcium	31000			P
7440-47-3	Chromium	9.9		E	P
7440-48-4	Cobalt	11.9			P
7440-50-8	Copper	69.0		*	P
7439-89-6	Iron	44900		E	P
7439-92-1	Lead	235		N*E	P
7439-95-4	Magnesium	3310		E	P
7439-96-5	Manganese	269		E	P
7439-97-6	Mercury	4.5		*	CV
7440-02-0	Nickel	21.1		E	P
7440-09-7	Potassium	369			P
7782-49-2	Selenium	0.57	U		P
7440-22-4	Silver	0.10	U		P
7440-23-5	Sodium	101			P
7440-28-0	Thallium	0.86	B		P
7440-62-2	Vanadium	18.9			P
7440-66-6	Zinc	105		NE	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-13 (18)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1522

Matrix (soil/water): SOIL Lab Sample ID: G1522-17

Level (low/med): MED Date Received: 09/11/2008

% Solids: 83.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5590			P
7440-36-0	Antimony	7.5		N	P
7440-38-2	Arsenic	3.9			P
7440-39-3	Barium	58.2		E	P
7440-41-7	Beryllium	0.21	B	E	P
7440-43-9	Cadmium	0.50			P
7440-70-2	Calcium	43300			P
7440-47-3	Chromium	12.1		E	P
7440-48-4	Cobalt	2.1	B		P
7440-50-8	Copper	153		*	P
7439-89-6	Iron	20600		E	P
7439-92-1	Lead	324		N*E	P
7439-95-4	Magnesium	2100		E	P
7439-96-5	Manganese	351		E	P
7439-97-6	Mercury	0.32		*	CV
7440-02-0	Nickel	12.6		E	P
7440-09-7	Potassium	508			P
7782-49-2	Selenium	0.60	U		P
7440-22-4	Silver	0.11	U		P
7440-23-5	Sodium	80.9			P
7440-28-0	Thallium	0.42	B		P
7440-62-2	Vanadium	16.8			P
7440-66-6	Zinc	227		NE	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-14 (6)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1522

Matrix (soil/water): SOIL Lab Sample ID: G1522-18

Level (low/med): MED Date Received: 09/11/2008

% Solids: 94.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4540			P
7440-36-0	Antimony	2.9		N	P
7440-38-2	Arsenic	8.4			P
7440-39-3	Barium	140		E	P
7440-41-7	Beryllium	0.51		E	P
7440-43-9	Cadmium	1.4			P
7440-70-2	Calcium	34800			P
7440-47-3	Chromium	8.1		E	P
7440-48-4	Cobalt	3.9			P
7440-50-8	Copper	98.3		*	P
7439-89-6	Iron	12900		E	P
7439-92-1	Lead	260		N*E	P
7439-95-4	Magnesium	1950		E	P
7439-96-5	Manganese	156		E	P
7439-97-6	Mercury	1.0		*	CV
7440-02-0	Nickel	13.5		E	P
7440-09-7	Potassium	503			P
7782-49-2	Selenium	0.63	U		P
7440-22-4	Silver	0.12	U		P
7440-23-5	Sodium	106			P
7440-28-0	Thallium	0.61	B		P
7440-62-2	Vanadium	10.2			P
7440-66-6	Zinc	578		NE	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-19 (9.5)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1522

Matrix (soil/water): SOIL Lab Sample ID: G1522-19

Level (low/med): MED Date Received: 09/11/2008

% Solids: 75.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13800			P
7440-36-0	Antimony	0.16	U	N	P
7440-38-2	Arsenic	6.2			P
7440-39-3	Barium	79.4		E	P
7440-41-7	Beryllium	1.4		E	P
7440-43-9	Cadmium	0.72			P
7440-70-2	Calcium	7210			P
7440-47-3	Chromium	10.3		E	P
7440-48-4	Cobalt	4.4			P
7440-50-8	Copper	8.9		*	P
7439-89-6	Iron	22600		E	P
7439-92-1	Lead	23.5		N*E	P
7439-95-4	Magnesium	1690		E	P
7439-96-5	Manganese	615		E	P
7439-97-6	Mercury	0.075		*	CV
7440-02-0	Nickel	10.1		E	P
7440-09-7	Potassium	610			P
7782-49-2	Selenium	0.71	U		P
7440-22-4	Silver	0.13	U		P
7440-23-5	Sodium	54.1	B		P
7440-28-0	Thallium	0.41	U		P
7440-62-2	Vanadium	19.1			P
7440-66-6	Zinc	189		NE	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-20 (12)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1522

Matrix (soil/water): SOIL Lab Sample ID: G1522-20

Level (low/med): MED Date Received: 09/11/2008

% Solids: 89.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6310			P
7440-36-0	Antimony	4.4		N	P
7440-38-2	Arsenic	22.0			P
7440-39-3	Barium	56.6		E	P
7440-41-7	Beryllium	0.37		E	P
7440-43-9	Cadmium	0.55			P
7440-70-2	Calcium	14900			P
7440-47-3	Chromium	12.2		E	P
7440-48-4	Cobalt	6.5			P
7440-50-8	Copper	190		*	P
7439-89-6	Iron	51300		E	P
7439-92-1	Lead	231		N*E	P
7439-95-4	Magnesium	2220		E	P
7439-96-5	Manganese	560		E	P
7439-97-6	Mercury	0.097		*	CV
7440-02-0	Nickel	11.0		E	P
7440-09-7	Potassium	754			P
7782-49-2	Selenium	0.48	U		P
7440-22-4	Silver	0.088	U		P
7440-23-5	Sodium	116			P
7440-28-0	Thallium	0.95			P
7440-62-2	Vanadium	21.9			P
7440-66-6	Zinc	301		NE	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-21 (17.5)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1523

Matrix (soil/water): SOIL Lab Sample ID: G1523-02

Level (low/med): MED Date Received: 09/11/2008

% Solids: 76.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3430			P
7440-36-0	Antimony	0.17	B	N	P
7440-38-2	Arsenic	4.9			P
7440-39-3	Barium	33.8			P
7440-41-7	Beryllium	0.21	B		P
7440-43-9	Cadmium	0.021	U		P
7440-70-2	Calcium	1980		*	P
7440-47-3	Chromium	10.8			P
7440-48-4	Cobalt	3.4			P
7440-50-8	Copper	57.8			P
7439-89-6	Iron	34300			P
7439-92-1	Lead	36.6		*	P
7439-95-4	Magnesium	643			P
7439-96-5	Manganese	345			P
7439-97-6	Mercury	0.0070	U		CV
7440-02-0	Nickel	11.4			P
7440-09-7	Potassium	319			P
7782-49-2	Selenium	0.74	U		P
7440-22-4	Silver	0.13	U		P
7440-23-5	Sodium	61.7			P
7440-28-0	Thallium	0.83	B		P
7440-62-2	Vanadium	26.5			P
7440-66-6	Zinc	47.7			P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-22 (18)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1523

Matrix (soil/water): SOIL Lab Sample ID: G1523-03

Level (low/med): MED Date Received: 09/11/2008

% Solids: 83.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5200			P
7440-36-0	Antimony	1.7		N	P
7440-38-2	Arsenic	4.5			P
7440-39-3	Barium	38.4			P
7440-41-7	Beryllium	0.37			P
7440-43-9	Cadmium	0.23	B		P
7440-70-2	Calcium	41600		*	P
7440-47-3	Chromium	9.5			P
7440-48-4	Cobalt	3.7			P
7440-50-8	Copper	141			P
7439-89-6	Iron	21900			P
7439-92-1	Lead	93.2		*	P
7439-95-4	Magnesium	3270			P
7439-96-5	Manganese	260			P
7439-97-6	Mercury	0.24			CV
7440-02-0	Nickel	9.3			P
7440-09-7	Potassium	597			P
7782-49-2	Selenium	0.64	U		P
7440-22-4	Silver	0.12	U		P
7440-23-5	Sodium	90.7			P
7440-28-0	Thallium	0.59	B		P
7440-62-2	Vanadium	14.4			P
7440-66-6	Zinc	113			P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-23 (5.5)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1523

Matrix (soil/water): SOIL Lab Sample ID: G1523-04

Level (low/med): MED Date Received: 09/11/2008

% Solids: 89.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5590			P
7440-36-0	Antimony	0.78	B	N	P
7440-38-2	Arsenic	9.9			P
7440-39-3	Barium	60.7			P
7440-41-7	Beryllium	0.41			P
7440-43-9	Cadmium	0.38			P
7440-70-2	Calcium	18300		*	P
7440-47-3	Chromium	13.2			P
7440-48-4	Cobalt	3.8			P
7440-50-8	Copper	116			P
7439-89-6	Iron	56000			P
7439-92-1	Lead	110		*	P
7439-95-4	Magnesium	1290			P
7439-96-5	Manganese	662			P
7439-97-6	Mercury	0.043			CV
7440-02-0	Nickel	10.3			P
7440-09-7	Potassium	671			P
7782-49-2	Selenium	0.58	U		P
7440-22-4	Silver	0.11	U		P
7440-23-5	Sodium	144			P
7440-28-0	Thallium	0.52	B		P
7440-62-2	Vanadium	26.2			P
7440-66-6	Zinc	133			P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-26 (5.5)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1549

Matrix (soil/water): SOIL Lab Sample ID: G1549-02

Level (low/med): MED Date Received: 09/13/2008

% Solids: 86.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6220			P
7440-36-0	Antimony	0.57	B	N	P
7440-38-2	Arsenic	10.1			P
7440-39-3	Barium	590			P
7440-41-7	Beryllium	0.58		E	P
7440-43-9	Cadmium	0.22	B	E	P
7440-70-2	Calcium	20800		*	P
7440-47-3	Chromium	29.5			P
7440-48-4	Cobalt	6.4		E	P
7440-50-8	Copper	167		N	P
7439-89-6	Iron	6380		*	P
7439-92-1	Lead	10100		E	P
7439-95-4	Magnesium	681			P
7439-96-5	Manganese	211		E	P
7439-97-6	Mercury	714		*	CV
7440-02-0	Nickel	13.0		E	P
7440-09-7	Potassium	577			P
7782-49-2	Selenium	1.5	B		P
7440-22-4	Silver	0.57	B		P
7440-23-5	Sodium	345			P
7440-28-0	Thallium	0.40	U		P
7440-62-2	Vanadium	22.8			P
7440-66-6	Zinc	172		NE	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-27 (9)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1549

Matrix (soil/water): SOIL Lab Sample ID: G1549-07

Level (low/med): MED Date Received: 09/13/2008

% Solids: 84.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13300			P
7440-36-0	Antimony	0.27	B	N	P
7440-38-2	Arsenic	2.6			P
7440-39-3	Barium	85.0			P
7440-41-7	Beryllium	0.95		E	P
7440-43-9	Cadmium	0.21	B	E	P
7440-70-2	Calcium	6930		*	P
7440-47-3	Chromium	14.7			P
7440-48-4	Cobalt	7.1		E	P
7440-50-8	Copper	12.5		N	P
7439-89-6	Iron	23500		*	P
7439-92-1	Lead	11.8		E	P
7439-95-4	Magnesium	3480			P
7439-96-5	Manganese	388		E	P
7439-97-6	Mercury	0.033		*	CV
7440-02-0	Nickel	11.9		E	P
7440-09-7	Potassium	1360			P
7782-49-2	Selenium	2.1			P
7440-22-4	Silver	0.11	U		P
7440-23-5	Sodium	161			P
7440-28-0	Thallium	0.36	U		P
7440-62-2	Vanadium	25.0			P
7440-66-6	Zinc	44.6		NE	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-28 (8)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1549

Matrix (soil/water): SOIL Lab Sample ID: G1549-05

Level (low/med): MED Date Received: 09/13/2008

% Solids: 86.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10700			P
7440-36-0	Antimony	0.54	B	N	P
7440-38-2	Arsenic	6.6			P
7440-39-3	Barium	107			P
7440-41-7	Beryllium	0.87		E	P
7440-43-9	Cadmium	0.48		E	P
7440-70-2	Calcium	17400		*	P
7440-47-3	Chromium	22.7			P
7440-48-4	Cobalt	5.8		E	P
7440-50-8	Copper	84.7		N	P
7439-89-6	Iron	28100		*	P
7439-92-1	Lead	175		E	P
7439-95-4	Magnesium	3490			P
7439-96-5	Manganese	447		E	P
7439-97-6	Mercury	3.8		*	CV
7440-02-0	Nickel	13.5		E	P
7440-09-7	Potassium	1550			P
7782-49-2	Selenium	2.4			P
7440-22-4	Silver	0.094	U		P
7440-23-5	Sodium	183			P
7440-28-0	Thallium	0.30	U		P
7440-62-2	Vanadium	24.2			P
7440-66-6	Zinc	112		NE	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-29 (8)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1549

Matrix (soil/water): SOIL Lab Sample ID: G1549-01

Level (low/med): MED Date Received: 09/13/2008

% Solids: 84.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	15000			P
7440-36-0	Antimony	0.32	B	N	P
7440-38-2	Arsenic	3.6			P
7440-39-3	Barium	108			P
7440-41-7	Beryllium	1.2		E	P
7440-43-9	Cadmium	0.26	B	E	P
7440-70-2	Calcium	7750		*	P
7440-47-3	Chromium	18.8			P
7440-48-4	Cobalt	8.8		E	P
7440-50-8	Copper	21.5		N	P
7439-89-6	Iron	28500		*	P
7439-92-1	Lead	15.1		E	P
7439-95-4	Magnesium	5020			P
7439-96-5	Manganese	489		E	P
7439-97-6	Mercury	0.037		*	CV
7440-02-0	Nickel	15.8		E	P
7440-09-7	Potassium	1980			P
7782-49-2	Selenium	2.9			P
7440-22-4	Silver	0.13	U		P
7440-23-5	Sodium	234			P
7440-28-0	Thallium	0.40	U		P
7440-62-2	Vanadium	30.3			P
7440-66-6	Zinc	61.1		NE	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-31 (5.5)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1549

Matrix (soil/water): SOIL Lab Sample ID: G1549-04

Level (low/med): MED Date Received: 09/13/2008

% 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	16300			P
7440-36-0	Antimony	0.16	B	N	P
7440-38-2	Arsenic	3.4			P
7440-39-3	Barium	80.7			P
7440-41-7	Beryllium	1.2		E	P
7440-43-9	Cadmium	0.64		E	P
7440-70-2	Calcium	39000		*	P
7440-47-3	Chromium	15.0			P
7440-48-4	Cobalt	5.5		E	P
7440-50-8	Copper	12.5		N	P
7439-89-6	Iron	23900		*	P
7439-92-1	Lead	14.8		E	P
7439-95-4	Magnesium	3060			P
7439-96-5	Manganese	408		E	P
7439-97-6	Mercury	0.069		*	CV
7440-02-0	Nickel	13.2		E	P
7440-09-7	Potassium	1310			P
7782-49-2	Selenium	1.3	B		P
7440-22-4	Silver	0.13	U		P
7440-23-5	Sodium	110			P
7440-28-0	Thallium	0.40	U		P
7440-62-2	Vanadium	24.6			P
7440-66-6	Zinc	137		NE	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-33 (1.5)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1549

Matrix (soil/water): SOIL Lab Sample ID: G1549-03

Level (low/med): MED Date Received: 09/13/2008

% Solids: 61.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8080			P
7440-36-0	Antimony	2.9		N	P
7440-38-2	Arsenic	13.7			P
7440-39-3	Barium	104			P
7440-41-7	Beryllium	0.60		E	P
7440-43-9	Cadmium	2.9		E	P
7440-70-2	Calcium	10200		*	P
7440-47-3	Chromium	18.2			P
7440-48-4	Cobalt	7.6		E	P
7440-50-8	Copper	95.3		N	P
7439-89-6	Iron	48700		*	P
7439-92-1	Lead	275		E	P
7439-95-4	Magnesium	939			P
7439-96-5	Manganese	348		E	P
7439-97-6	Mercury	5.4		*	CV
7440-02-0	Nickel	13.5		E	P
7440-09-7	Potassium	650			P
7782-49-2	Selenium	5.7			P
7440-22-4	Silver	0.89	B		P
7440-23-5	Sodium	83.9			P
7440-28-0	Thallium	0.55	B		P
7440-62-2	Vanadium	14.4			P
7440-66-6	Zinc	701		NE	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-35 (10)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1549

Matrix (soil/water): SOIL Lab Sample ID: G1549-08

Level (low/med): MED Date Received: 09/13/2008

% Solids: 90.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5840			P
7440-36-0	Antimony	0.29	B	N	P
7440-38-2	Arsenic	4.7			P
7440-39-3	Barium	24.6			P
7440-41-7	Beryllium	0.36		E	P
7440-43-9	Cadmium	0.22	B	E	P
7440-70-2	Calcium	12100		*	P
7440-47-3	Chromium	10.2			P
7440-48-4	Cobalt	3.8		E	P
7440-50-8	Copper	27.6		N	P
7439-89-6	Iron	23200		*	P
7439-92-1	Lead	29.0		E	P
7439-95-4	Magnesium	1500			P
7439-96-5	Manganese	212		E	P
7439-97-6	Mercury	0.025	B	*	CV
7440-02-0	Nickel	6.7		E	P
7440-09-7	Potassium	690			P
7782-49-2	Selenium	2.6			P
7440-22-4	Silver	0.12	U		P
7440-23-5	Sodium	119			P
7440-28-0	Thallium	0.37	U		P
7440-62-2	Vanadium	19.6			P
7440-66-6	Zinc	30.1		NE	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-36 (5)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1549

Matrix (soil/water): SOIL Lab Sample ID: G1549-09

Level (low/med): MED Date Received: 09/13/2008

% Solids: 83.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9050			P
7440-36-0	Antimony	0.36	B	N	P
7440-38-2	Arsenic	3.2			P
7440-39-3	Barium	43.3			P
7440-41-7	Beryllium	0.33		E	P
7440-43-9	Cadmium	1.1		E	P
7440-70-2	Calcium	16300		*	P
7440-47-3	Chromium	41.8			P
7440-48-4	Cobalt	3.0		E	P
7440-50-8	Copper	30.6		N	P
7439-89-6	Iron	14900		*	P
7439-92-1	Lead	37.8		E	P
7439-95-4	Magnesium	1740			P
7439-96-5	Manganese	163		E	P
7439-97-6	Mercury	0.31		*	CV
7440-02-0	Nickel	17.9		E	P
7440-09-7	Potassium	890			P
7782-49-2	Selenium	2.0			P
7440-22-4	Silver	0.13	U		P
7440-23-5	Sodium	110			P
7440-28-0	Thallium	0.41	U		P
7440-62-2	Vanadium	12.4			P
7440-66-6	Zinc	160		NE	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-38E (10)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1549

Matrix (soil/water): SOIL Lab Sample ID: G1549-11

Level (low/med): MED Date Received: 09/13/2008

% Solids: 91.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5260			P
7440-36-0	Antimony	0.39	B	N	P
7440-38-2	Arsenic	3.1			P
7440-39-3	Barium	42.4			P
7440-41-7	Beryllium	0.22		E	P
7440-43-9	Cadmium	0.41		E	P
7440-70-2	Calcium	9760		*	P
7440-47-3	Chromium	18.7			P
7440-48-4	Cobalt	2.5		E	P
7440-50-8	Copper	81.4		N	P
7439-89-6	Iron	10100		*	P
7439-92-1	Lead	116		E	P
7439-95-4	Magnesium	1130			P
7439-96-5	Manganese	1600		E	P
7439-97-6	Mercury	0.029	B	*	CV
7440-02-0	Nickel	13.0		E	P
7440-09-7	Potassium	448			P
7782-49-2	Selenium	1.6			P
7440-22-4	Silver	0.088	U		P
7440-23-5	Sodium	104			P
7440-28-0	Thallium	0.28	U		P
7440-62-2	Vanadium	7.4			P
7440-66-6	Zinc	80.7		NE	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-38E (20)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1549

Matrix (soil/water): SOIL Lab Sample ID: G1549-12

Level (low/med): MED Date Received: 09/13/2008

% Solids: 89.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7750			P
7440-36-0	Antimony	0.75	B	N	P
7440-38-2	Arsenic	2.9			P
7440-39-3	Barium	45.7			P
7440-41-7	Beryllium	0.52		E	P
7440-43-9	Cadmium	0.37		E	P
7440-70-2	Calcium	19000		*	P
7440-47-3	Chromium	21.8			P
7440-48-4	Cobalt	2.3		E	P
7440-50-8	Copper	616		N	P
7439-89-6	Iron	18200		*	P
7439-92-1	Lead	103		E	P
7439-95-4	Magnesium	1600			P
7439-96-5	Manganese	766		E	P
7439-97-6	Mercury	0.026	B	*	CV
7440-02-0	Nickel	14.9		E	P
7440-09-7	Potassium	694			P
7782-49-2	Selenium	2.0			P
7440-22-4	Silver	0.12	B		P
7440-23-5	Sodium	187			P
7440-28-0	Thallium	0.31	U		P
7440-62-2	Vanadium	14.4			P
7440-66-6	Zinc	174		NE	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-38W (20)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1549

Matrix (soil/water): SOIL Lab Sample ID: G1549-10

Level (low/med): MED Date Received: 09/13/2008

% Solids: 90.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6210			P
7440-36-0	Antimony	1.0	B	N	P
7440-38-2	Arsenic	5.4			P
7440-39-3	Barium	33.5			P
7440-41-7	Beryllium	0.44		E	P
7440-43-9	Cadmium	0.74		E	P
7440-70-2	Calcium	4780		*	P
7440-47-3	Chromium	65.5			P
7440-48-4	Cobalt	4.3		E	P
7440-50-8	Copper	389		N	P
7439-89-6	Iron	39000		*	P
7439-92-1	Lead	212		E	P
7439-95-4	Magnesium	917			P
7439-96-5	Manganese	700		E	P
7439-97-6	Mercury	0.091		*	CV
7440-02-0	Nickel	15.3		E	P
7440-09-7	Potassium	643			P
7782-49-2	Selenium	4.4			P
7440-22-4	Silver	0.12	U		P
7440-23-5	Sodium	118			P
7440-28-0	Thallium	0.39	U		P
7440-62-2	Vanadium	27.4			P
7440-66-6	Zinc	204		NE	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-39 (21)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1549

Matrix (soil/water): SOIL Lab Sample ID: G1549-13

Level (low/med): MED Date Received: 09/13/2008

% Solids: 92.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7340			P
7440-36-0	Antimony	0.77	B	N	P
7440-38-2	Arsenic	3.8			P
7440-39-3	Barium	37.8			P
7440-41-7	Beryllium	0.46		E	P
7440-43-9	Cadmium	0.44		E	P
7440-70-2	Calcium	11100		*	P
7440-47-3	Chromium	10.8			P
7440-48-4	Cobalt	3.3		E	P
7440-50-8	Copper	150		N	P
7439-89-6	Iron	22400		*	P
7439-92-1	Lead	58.7		E	P
7439-95-4	Magnesium	2000			P
7439-96-5	Manganese	507		E	P
7439-97-6	Mercury	0.47		*	CV
7440-02-0	Nickel	17.4		E	P
7440-09-7	Potassium	854			P
7782-49-2	Selenium	2.6			P
7440-22-4	Silver	0.11	U		P
7440-23-5	Sodium	132			P
7440-28-0	Thallium	0.34	U		P
7440-62-2	Vanadium	16.1			P
7440-66-6	Zinc	167		NE	P

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-41 (12)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1549

Matrix (soil/water): SOIL Lab Sample ID: G1549-14

Level (low/med): MED Date Received: 09/13/2008

% Solids: 94.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1150			P
7440-36-0	Antimony	0.30	B	N	P
7440-38-2	Arsenic	3.6			P
7440-39-3	Barium	7.6	B		P
7440-41-7	Beryllium	0.080	B	E	P
7440-43-9	Cadmium	0.11	B	E	P
7440-70-2	Calcium	1260		*	P
7440-47-3	Chromium	9.7			P
7440-48-4	Cobalt	0.72	B	E	P
7440-50-8	Copper	16.4		N	P
7439-89-6	Iron	7290		*	P
7439-92-1	Lead	6.2		E	P
7439-95-4	Magnesium	113			P
7439-96-5	Manganese	236		E	P
7439-97-6	Mercury	0.0074	B	*	CV
7440-02-0	Nickel	7.2		E	P
7440-09-7	Potassium	106			P
7782-49-2	Selenium	1.3	B		P
7440-22-4	Silver	0.10	U		P
7440-23-5	Sodium	181			P
7440-28-0	Thallium	0.32	U		P
7440-62-2	Vanadium	4.0			P
7440-66-6	Zinc	21.5		NE	P

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-42 (5)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1549

Matrix (soil/water): SOIL Lab Sample ID: G1549-15

Level (low/med): MED Date Received: 09/13/2008

% Solids: 95.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	830			P
7440-36-0	Antimony	0.20	B	N	P
7440-38-2	Arsenic	0.90			P
7440-39-3	Barium	10.5			P
7440-41-7	Beryllium	0.044	B	E	P
7440-43-9	Cadmium	0.15	B	E	P
7440-70-2	Calcium	1270		*	P
7440-47-3	Chromium	4.2			P
7440-48-4	Cobalt	0.45	B	E	P
7440-50-8	Copper	14.5		N	P
7439-89-6	Iron	5130		*	P
7439-92-1	Lead	11.6		E	P
7439-95-4	Magnesium	115			P
7439-96-5	Manganese	68.1		E	P
7439-97-6	Mercury	0.022	B	*	CV
7440-02-0	Nickel	4.6		E	P
7440-09-7	Potassium	92.4			P
7782-49-2	Selenium	0.98	B		P
7440-22-4	Silver	1.5			P
7440-23-5	Sodium	35.5	B		P
7440-28-0	Thallium	0.28	U		P
7440-62-2	Vanadium	2.3			P
7440-66-6	Zinc	19.0		NE	P

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-43-W

Lab Name: Mitkem Laboratories

Contract: 970299

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: MG1550

Matrix (soil/water): WATER

Lab Sample ID: G1541-01

Level (low/med): MED

Date Received: 09/13/2008

% 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	13600			NR
7440-36-0	Antimony	4.6	U		NR
7440-38-2	Arsenic	10.1	B		NR
7440-39-3	Barium	209			NR
7440-41-7	Beryllium	0.69	B		NR
7440-43-9	Cadmium	1.7	B		NR
7440-70-2	Calcium	266000			NR
7440-47-3	Chromium	30.3			NR
7440-48-4	Cobalt	9.4	B		NR
7440-50-8	Copper	145			NR
7439-89-6	Iron	23500			NR
7439-92-1	Lead	322			P
7439-95-4	Magnesium	29200			NR
7439-96-5	Manganese	812			NR
7439-97-6	Mercury	2.2			NR
7440-02-0	Nickel	42.2	B		NR
7440-09-7	Potassium	40700			NR
7782-49-2	Selenium	6.6	U		NR
7440-22-4	Silver	0.59	U		NR
7440-23-5	Sodium	18400			NR
7440-28-0	Thallium	4.2	U		NR
7440-62-2	Vanadium	51.4			NR
7440-66-6	Zinc	461			NR

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-45 (5)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1549

Matrix (soil/water): SOIL Lab Sample ID: G1549-16

Level (low/med): MED Date Received: 09/13/2008

% Solids: 87.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2770			P
7440-36-0	Antimony	0.42	B	N	P
7440-38-2	Arsenic	2.9			P
7440-39-3	Barium	26.2			P
7440-41-7	Beryllium	0.21	B	E	P
7440-43-9	Cadmium	0.43		E	P
7440-70-2	Calcium	20900		*	P
7440-47-3	Chromium	25.7			P
7440-48-4	Cobalt	3.3		E	P
7440-50-8	Copper	54.7		N	P
7439-89-6	Iron	23900		*	P
7439-92-1	Lead	99.7		E	P
7439-95-4	Magnesium	590			P
7439-96-5	Manganese	1120		E	P
7439-97-6	Mercury	0.059		*	CV
7440-02-0	Nickel	30.9		E	P
7440-09-7	Potassium	304			P
7782-49-2	Selenium	2.7			P
7440-22-4	Silver	0.21	B		P
7440-23-5	Sodium	123			P
7440-28-0	Thallium	0.34	U		P
7440-62-2	Vanadium	10.4			P
7440-66-6	Zinc	81.7		NE	P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-47 (4)

Lab Name: Mitkem Laboratories

Contract: 970299

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: MG1549

Matrix (soil/water): SOIL

Lab Sample ID: G1549-17

Level (low/med): MED

Date Received: 09/13/2008

% Solids: 85.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1970			P
7440-36-0	Antimony	0.15	B	N	P
7440-38-2	Arsenic	2.6			P
7440-39-3	Barium	35.6			P
7440-41-7	Beryllium	0.19	B	E	P
7440-43-9	Cadmium	0.56		E	P
7440-70-2	Calcium	5160		*	P
7440-47-3	Chromium	16.9			P
7440-48-4	Cobalt	2.7		E	P
7440-50-8	Copper	45.7		N	P
7439-89-6	Iron	12400		*	P
7439-92-1	Lead	35.6		E	P
7439-95-4	Magnesium	521			P
7439-96-5	Manganese	150		E	P
7439-97-6	Mercury	0.16		*	CV
7440-02-0	Nickel	20.8		E	P
7440-09-7	Potassium	273			P
7782-49-2	Selenium	2.0			P
7440-22-4	Silver	3.7			P
7440-23-5	Sodium	85.8			P
7440-28-0	Thallium	0.36	U		P
7440-62-2	Vanadium	5.3			P
7440-66-6	Zinc	44.1		NE	P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-48 (2)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1549

Matrix (soil/water): SOIL Lab Sample ID: G1549-18

Level (low/med): MED Date Received: 09/13/2008

% Solids: 78.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	17700			P
7440-36-0	Antimony	0.29	B	N	P
7440-38-2	Arsenic	2.3			P
7440-39-3	Barium	50.2			P
7440-41-7	Beryllium	0.78		E	P
7440-43-9	Cadmium	0.59		E	P
7440-70-2	Calcium	5890		*	P
7440-47-3	Chromium	8.7			P
7440-48-4	Cobalt	3.1		E	P
7440-50-8	Copper	8.1		N	P
7439-89-6	Iron	20800		*	P
7439-92-1	Lead	21.0		E	P
7439-95-4	Magnesium	1200			P
7439-96-5	Manganese	123		E	P
7439-97-6	Mercury	0.074		*	CV
7440-02-0	Nickel	8.0		E	P
7440-09-7	Potassium	315			P
7782-49-2	Selenium	2.3			P
7440-22-4	Silver	0.12	U		P
7440-23-5	Sodium	48.4	B		P
7440-28-0	Thallium	0.39	U		P
7440-62-2	Vanadium	18.4			P
7440-66-6	Zinc	174		NE	P

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-TP-49 (15)

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1621

Matrix (soil/water): SOIL Lab Sample ID: G1621-02

Level (low/med): MED Date Received: 09/20/2008

% Solids: 85.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8400			P
7440-36-0	Antimony	0.56	B		P
7440-38-2	Arsenic	4.8			P
7440-39-3	Barium	42.9			P
7440-41-7	Beryllium	0.59			P
7440-43-9	Cadmium	0.42			P
7440-70-2	Calcium	18300			P
7440-47-3	Chromium	8.8			P
7440-48-4	Cobalt	4.2			P
7440-50-8	Copper	26.2			P
7439-89-6	Iron	31200			P
7439-92-1	Lead	47.9			P
7439-95-4	Magnesium	1190			P
7439-96-5	Manganese	249			P
7439-97-6	Mercury	0.12			CV
7440-02-0	Nickel	9.6			P
7440-09-7	Potassium	570			P
7782-49-2	Selenium	2.9			P
7440-22-4	Silver	0.12	U		P
7440-23-5	Sodium	71.2			P
7440-28-0	Thallium	0.40	B		P
7440-62-2	Vanadium	15.3			P
7440-66-6	Zinc	68.1			P

Comments:

TEST PIT SOIL SAMPLE RESULTS 2009-2010

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewalls Island IRM	**Lab Project Number:**	09-4737
		Lab Sample Number:	14363
Client Job Number:	34202		
Field Location:	TP-1 (21')	**Date Sampled:**	12/17/2009
Field ID Number:	N/A	**Date Received:**	12/22/2009
Sample Type:	Soil	**Date Analyzed:**	12/24/2009

Compound	Results in ug / Kg		Compound	Results in ug / Kg
Acetone	59.0	B	1,2-Dichloropropane	ND< 3.76
Benzene	ND< 3.76		cis-1,3-Dichloropropene	ND< 3.76
Bromochloromethane	ND< 9.41		trans-1,3-Dichloropropene	ND< 3.76
Bromodichloromethane	ND< 3.76		Ethylbenzene	ND< 3.76
Bromoform	ND< 9.41		2-Hexanone	ND< 9.41
Bromomethane	ND< 3.76		Isopropylbenzene	ND< 18.8
2-Butanone	ND< 18.8		Methyl acetate	ND< 9.41
Carbon disulfide	ND< 3.76		Methyl tert-butyl Ether	ND< 3.76
Carbon Tetrachloride	ND< 9.41		Methylcyclohexane	ND< 3.76
Chlorobenzene	ND< 3.76		Methylene chloride	ND< 9.41
Chloroethane	ND< 3.76		4-Methyl-2-pentanone	ND< 9.41
Chloroform	ND< 3.76		Styrene	ND< 9.41
Chloromethane	ND< 3.76		1,1,2,2-Tetrachloroethane	ND< 3.76
Cyclohexane	ND< 18.8		Tetrachloroethene	ND< 3.76
Dibromochloromethane	ND< 3.76		Toluene	ND< 3.76
1,2-Dibromo-3-Chloropropane	ND< 18.8		Freon 113	ND< 3.76
1,2-Dibromoethane	ND< 9.41		1,2,3-Trichlorobenzene	ND< 9.41
1,2-Dichlorobenzene	ND< 9.41		1,2,4-Trichlorobenzene	ND< 9.41
1,3-Dichlorobenzene	ND< 9.41		1,1,1-Trichloroethane	ND< 3.76
1,4-Dichlorobenzene	ND< 3.76		1,1,2-Trichloroethane	ND< 3.76
Dichlorodifluoromethane	ND< 3.76		Trichloroethene	ND< 3.76
1,1-Dichloroethane	ND< 3.76		Trichlorofluoromethane	ND< 3.76
1,2-Dichloroethane	ND< 3.76		Vinyl chloride	ND< 3.76
1,1-Dichloroethene	ND< 3.76		m,p-Xylene	ND< 3.76
cis-1,2-Dichloroethene	ND< 3.76		o-Xylene	ND< 3.76
trans-1,2-Dichloroethene	ND< 3.76			

ELAP Number 10958 Method: EPA 8260B Data File: V71435.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
Internal Standards and Surrogate outliers indicate probable matrix interference

Signature:
Bruce Hoogesteger: Technical Director

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094737V1.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewalls Island IRM	**Lab Project Number:**	09-4737
		Lab Sample Number:	14363
Client Job Number:	34202		
Field Location:	TP-1 (21')	**Date Sampled:**	12/17/2009
Field ID Number:	N/A	**Date Received:**	12/22/2009
Sample Type:	Soil	**Date Analyzed:**	12/24/2009

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Hexane	000110-54-3	3.44	14.2	90

ELAP Number 10958 Method: EPA 8260B Data File: V71435.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
Internal Standards and Surrogate outliers indicate probable matrix interference

Signature: _____
Bruce Hoogesteger: Technical Director

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Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site: City of Watertown Sewalls Island IRM
Client Job Number: 34202
Field Location: TP-2 (22')
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 09-4737
Lab Sample Number: 14364
Date Sampled: 12/17/2009
Date Received: 12/22/2009
Date Analyzed: 12/24/2009

Compound	Results in ug / Kg	
Acetone	239	B
Benzene	ND< 4.23	
Bromochloromethane	ND< 10.6	
Bromodichloromethane	ND< 4.23	
Bromoform	ND< 10.6	
Bromomethane	ND< 4.23	
2-Butanone	26.5	
Carbon disulfide	ND< 4.23	
Carbon Tetrachloride	ND< 10.6	
Chlorobenzene	ND< 4.23	
Chloroethane	ND< 4.23	
Chloroform	ND< 4.23	
Chloromethane	ND< 4.23	
Cyclohexane	ND< 21.1	
Dibromochloromethane	ND< 4.23	
1,2-Dibromo-3-Chloropropane	ND< 21.1	
1,2-Dibromoethane	ND< 10.6	
1,2-Dichlorobenzene	ND< 10.6	
1,3-Dichlorobenzene	ND< 10.6	
1,4-Dichlorobenzene	ND< 4.23	
Dichlorodifluoromethane	ND< 4.23	
1,1-Dichloroethane	ND< 4.23	
1,2-Dichloroethane	ND< 4.23	
1,1-Dichloroethene	ND< 4.23	
cis-1,2-Dichloroethene	ND< 4.23	
trans-1,2-Dichloroethene	ND< 4.23	

Compound	Results in ug / Kg
1,2-Dichloropropane	ND< 4.23
cis-1,3-Dichloropropene	ND< 4.23
trans-1,3-Dichloropropene	ND< 4.23
Ethylbenzene	ND< 4.23
2-Hexanone	ND< 10.6
Isopropylbenzene	ND< 21.1
Methyl acetate	ND< 10.6
Methyl tert-butyl Ether	ND< 4.23
Methylcyclohexane	ND< 4.23
Methylene chloride	ND< 10.6
4-Methyl-2-pentanone	ND< 10.6
Styrene	ND< 10.6
1,1,2,2-Tetrachloroethane	ND< 4.23
Tetrachloroethene	ND< 4.23
Toluene	ND< 4.23
Freon 113	ND< 4.23
1,2,3-Trichlorobenzene	ND< 10.6
1,2,4-Trichlorobenzene	ND< 10.6
1,1,1-Trichloroethane	ND< 4.23
1,1,2-Trichloroethane	ND< 4.23
Trichloroethene	ND< 4.23
Trichlorofluoromethane	ND< 4.23
Vinyl chloride	ND< 4.23
m,p-Xylene	ND< 4.23
o-Xylene	ND< 4.23

ELAP Number 10958 Method: EPA 8260B Data File: V71436.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:
Bruce Hoogesteger, Technical Director

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094737V2.XLS

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ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewalls Island IRM	**Lab Project Number:**	09-4737
		Lab Sample Number:	14364
Client Job Number:	34202		
Field Location:	TP-2 (22')	**Date Sampled:**	12/17/2009
Field ID Number:	N/A	**Date Received:**	07/08/1998
Sample Type:	Soil	**Date Analyzed:**	12/24/2009
		Date Reissued:	07/25/1998

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
None Found	N/A	N/A	ND< 4.23	N/A

ELAP Number 10958 Method: EPA 8260B Data File: V71436.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: Bruce Hoogesteger: Technical Director

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094737V2.XLS

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Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewalls Island IRM	**Lab Project Number:**	09-4737
		Lab Sample Number:	14365
Client Job Number:	34202		
Field Location:	TP-4 (22')	**Date Sampled:**	12/17/2009
Field ID Number:	N/A	**Date Received:**	12/22/2009
Sample Type:	Soil	**Date Analyzed:**	12/24/2009

Compound	Results in ug / Kg	Compound	Results in ug / Kg
Acetone	ND< 18.2	1,2-Dichloropropane	ND< 3.65
Benzene	ND< 3.65	cis-1,3-Dichloropropene	ND< 3.65
Bromochloromethane	ND< 9.12	trans-1,3-Dichloropropene	ND< 3.65
Bromodichloromethane	ND< 3.65	Ethylbenzene	ND< 3.65
Bromoform	ND< 9.12	2-Hexanone	ND< 9.12
Bromomethane	ND< 3.65	Isopropylbenzene	ND< 18.2
2-Butanone	ND< 18.2	Methyl acetate	ND< 9.12
Carbon disulfide	ND< 3.65	Methyl tert-butyl Ether	ND< 3.65
Carbon Tetrachloride	ND< 9.12	Methylcyclohexane	ND< 3.65
Chlorobenzene	ND< 3.65	Methylene chloride	ND< 9.12
Chloroethane	ND< 3.65	4-Methyl-2-pentanone	ND< 9.12
Chloroform	ND< 3.65	Styrene	ND< 9.12
Chloromethane	ND< 3.65	1,1,2,2-Tetrachloroethane	ND< 3.65
Cyclohexane	ND< 18.2	Tetrachloroethene	21.9
Dibromochloromethane	ND< 3.65	Toluene	ND< 3.65
1,2-Dibromo-3-Chloropropane	ND< 18.2	Freon 113	ND< 3.65
1,2-Dibromoethane	ND< 9.12	1,2,3-Trichlorobenzene	ND< 9.12
1,2-Dichlorobenzene	ND< 9.12	1,2,4-Trichlorobenzene	ND< 9.12
1,3-Dichlorobenzene	ND< 9.12	1,1,1-Trichloroethane	ND< 3.65
1,4-Dichlorobenzene	ND< 3.65	1,1,2-Trichloroethane	ND< 3.65
Dichlorodifluoromethane	ND< 3.65	Trichloroethene	ND< 3.65
1,1-Dichloroethane	ND< 3.65	Trichlorofluoromethane	ND< 3.65
1,2-Dichloroethane	ND< 3.65	Vinyl chloride	ND< 3.65
1,1-Dichloroethene	ND< 3.65	m,p-Xylene	ND< 3.65
cis-1,2-Dichloroethene	ND< 3.65	o-Xylene	ND< 3.65
trans-1,2-Dichloroethene	ND< 3.65		

ELAP Number 10958 Method: EPA 8260B Data File: V71437.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
Internal Standards and Surrogate outliers indicate probable matrix interference

Signature:
Bruce Hoogesteger: Technical Director

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Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewalls Island IRM	**Lab Project Number:**	09-4737
		Lab Sample Number:	14365
Client Job Number:	34202		
Field Location:	TP-4 (22')	**Date Sampled:**	12/17/2009
Field ID Number:	N/A	**Date Received:**	12/22/2009
Sample Type:	Soil	**Date Analyzed:**	12/24/2009

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Hexane	000110-54-3	3.44	21.9	91

ELAP Number 10958 Method: EPA 8260B Data File: V71437.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
Internal Standards and Surrogate outliers indicate probable matrix interference

Signature: _____
Bruce Hoogesteger: Technical Director

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094737V3.XLS

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Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewalls Island IRM	**Lab Project Number:**	09-4737
		Lab Sample Number:	14366
Client Job Number:	34202		
Field Location:	TP-5 (18')	**Date Sampled:**	12/17/2009
Field ID Number:	N/A	**Date Received:**	12/22/2009
Sample Type:	Soil	**Date Analyzed:**	12/24/2009

Compound	Results in ug / Kg	Compound	Results in ug / Kg
Acetone	ND< 21.4	1,2-Dichloropropane	ND< 4.29
Benzene	ND< 4.29	cis-1,3-Dichloropropene	ND< 4.29
Bromochloromethane	ND< 10.7	trans-1,3-Dichloropropene	ND< 4.29
Bromodichloromethane	ND< 4.29	Ethylbenzene	ND< 4.29
Bromoform	ND< 10.7	2-Hexanone	ND< 10.7
Bromomethane	ND< 4.29	Isopropylbenzene	ND< 21.4
2-Butanone	ND< 21.4	Methyl acetate	ND< 10.7
Carbon disulfide	ND< 4.29	Methyl tert-butyl Ether	ND< 4.29
Carbon Tetrachloride	ND< 10.7	Methylcyclohexane	ND< 4.29
Chlorobenzene	ND< 4.29	Methylene chloride	ND< 10.7
Chloroethane	ND< 4.29	4-Methyl-2-pentanone	ND< 10.7
Chloroform	ND< 4.29	Styrene	ND< 10.7
Chloromethane	ND< 4.29	1,1,2,2-Tetrachloroethane	ND< 4.29
Cyclohexane	ND< 21.4	Tetrachloroethene	ND< 4.29
Dibromochloromethane	ND< 4.29	Toluene	ND< 4.29
1,2-Dibromo-3-Chloropropane	ND< 21.4	Freon 113	ND< 4.29
1,2-Dibromoethane	ND< 10.7	1,2,3-Trichlorobenzene	ND< 10.7
1,2-Dichlorobenzene	ND< 10.7	1,2,4-Trichlorobenzene	ND< 10.7
1,3-Dichlorobenzene	ND< 10.7	1,1,1-Trichloroethane	ND< 4.29
1,4-Dichlorobenzene	ND< 4.29	1,1,2-Trichloroethane	ND< 4.29
Dichlorodifluoromethane	ND< 4.29	Trichloroethene	ND< 4.29
1,1-Dichloroethane	2.81 J	Trichlorofluoromethane	ND< 4.29
1,2-Dichloroethane	ND< 4.29	Vinyl chloride	ND< 4.29
1,1-Dichloroethene	ND< 4.29	m,p-Xylene	ND< 4.29
cis-1,2-Dichloroethene	ND< 4.29	o-Xylene	ND< 4.29
trans-1,2-Dichloroethene	ND< 4.29		

ELAP Number 10958 Method: EPA 8260B Data File: V71438.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
Internal Standard outliers indicate probable matrix interference

Signature: _____
Bruce Hoogesteger, Technical Director

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Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site: City of Watertown
Client Job Number: 34202
Field Location: TP-5 (18')
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 09-4737
Lab Sample Number: 14366
Date Sampled: 12/17/2009
Date Received: 12/22/2009
Date Analyzed: 12/24/2009

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
None Found	N/A	N/A	ND< 4.29	N/A

ELAP Number 10958 Method: EPA 8260B Data File: V71438.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
Internal Standard outliers indicate probable matrix interference

Signature: _____
Bruce Hoogesteger, Technical Director

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094737V4.XLS

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Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewalls Island IRM	**Lab Project Number:**	09-4737
		Lab Sample Number:	14367
Client Job Number:	34202		
Field Location:	TP-6 (30')	**Date Sampled:**	12/18/2009
Field ID Number:	N/A	**Date Received:**	12/22/2009
Sample Type:	Soil	**Date Analyzed:**	12/24/2009

Compound	Results in ug / Kg	
Acetone	372	B
Benzene	ND< 5.22	
Bromochloromethane	ND< 13.0	
Bromodichloromethane	ND< 5.22	
Bromoform	ND< 13.0	
Bromomethane	ND< 5.22	
2-Butanone	33.8	
Carbon disulfide	13.5	
Carbon Tetrachloride	ND< 13.0	
Chlorobenzene	ND< 5.22	
Chloroethane	ND< 5.22	
Chloroform	ND< 5.22	
Chloromethane	ND< 5.22	
Cyclohexane	ND< 26.1	
Dibromochloromethane	ND< 5.22	
1,2-Dibromo-3-Chloropropane	ND< 26.1	
1,2-Dibromoethane	ND< 13.0	
1,2-Dichlorobenzene	ND< 13.0	
1,3-Dichlorobenzene	ND< 13.0	
1,4-Dichlorobenzene	ND< 5.22	
Dichlorodifluoromethane	ND< 5.22	
1,1-Dichloroethane	22.1	
1,2-Dichloroethane	ND< 5.22	
1,1-Dichloroethene	ND< 5.22	
cis-1,2-Dichloroethene	ND< 5.22	
trans-1,2-Dichloroethene	ND< 5.22	

Compound	Results in ug / Kg
1,2-Dichloropropane	ND< 5.22
cis-1,3-Dichloropropene	ND< 5.22
trans-1,3-Dichloropropene	ND< 5.22
Ethylbenzene	ND< 5.22
2-Hexanone	ND< 13.0
Isopropylbenzene	ND< 26.1
Methyl acetate	ND< 13.0
Methyl tert-butyl Ether	ND< 5.22
Methylcyclohexane	ND< 5.22
Methylene chloride	ND< 13.0
4-Methyl-2-pentanone	ND< 13.0
Styrene	ND< 13.0
1,1,2,2-Tetrachloroethane	ND< 5.22
Tetrachloroethene	ND< 5.22
Toluene	ND< 5.22
Freon 113	ND< 5.22
1,2,3-Trichlorobenzene	ND< 13.0
1,2,4-Trichlorobenzene	ND< 13.0
1,1,1-Trichloroethane	ND< 5.22
1,1,2-Trichloroethane	ND< 5.22
Trichloroethene	ND< 5.22
Trichlorofluoromethane	ND< 5.22
Vinyl chloride	ND< 5.22
m,p-Xylene	ND< 5.22
o-Xylene	ND< 5.22

ELAP Number 10958 Method: EPA 8260B Data File: V71439.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
Internal Standards and Surrogate outliers indicate probable matrix interference

Signature:
Bruce Hoogesteger: Technical Director

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094737V5.XLS

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Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewalls Island IRM	**Lab Project Number:**	09-4737
		Lab Sample Number:	14367
Client Job Number:	34202		
Field Location:	TP-6 (30')	**Date Sampled:**	12/18/2009
Field ID Number:	N/A	**Date Received:**	12/22/2009
Sample Type:	Soil	**Date Analyzed:**	12/24/2009

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Hexane	000110-54-3	3.44	17.4	72

ELAP Number 10958 Method: EPA 8260B Data File: V71439.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
Internal Standards and Surrogate outliers indicate probable matrix interference

Signature: _____
Bruce Hoogesteger: Technical Director

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Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewalls Island IRM	**Lab Project Number:**	09-4737
		Lab Sample Number:	14368
Client Job Number:	34202		
Field Location:	TP-9 (20.5')	**Date Sampled:**	12/21/2009
Field ID Number:	N/A	**Date Received:**	12/22/2009
Sample Type:	Soil	**Date Analyzed:**	12/24/2009

Compound	Results in ug / Kg	Compound	Results in ug / Kg
Acetone	ND< 20.9	1,2-Dichloropropane	ND< 4.17
Benzene	ND< 4.17	cis-1,3-Dichloropropene	ND< 4.17
Bromochloromethane	ND< 10.4	trans-1,3-Dichloropropene	ND< 4.17
Bromodichloromethane	ND< 4.17	Ethylbenzene	ND< 4.17
Bromoform	ND< 10.4	2-Hexanone	ND< 10.4
Bromomethane	ND< 4.17	Isopropylbenzene	ND< 20.9
2-Butanone	ND< 20.9	Methyl acetate	ND< 10.4
Carbon disulfide	ND< 4.17	Methyl tert-butyl Ether	ND< 4.17
Carbon Tetrachloride	ND< 10.4	Methylcyclohexane	ND< 4.17
Chlorobenzene	ND< 4.17	Methylene chloride	ND< 10.4
Chloroethane	ND< 4.17	4-Methyl-2-pentanone	ND< 10.4
Chloroform	ND< 4.17	Styrene	ND< 10.4
Chloromethane	ND< 4.17	1,1,2,2-Tetrachloroethane	ND< 4.17
Cyclohexane	ND< 20.9	Tetrachloroethene	32.3
Dibromochloromethane	ND< 4.17	Toluene	ND< 4.17
1,2-Dibromo-3-Chloropropane	ND< 20.9	Freon 113	ND< 4.17
1,2-Dibromoethane	ND< 10.4	1,2,3-Trichlorobenzene	ND< 10.4
1,2-Dichlorobenzene	ND< 10.4	1,2,4-Trichlorobenzene	ND< 10.4
1,3-Dichlorobenzene	ND< 10.4	1,1,1-Trichloroethane	ND< 4.17
1,4-Dichlorobenzene	ND< 4.17	1,1,2-Trichloroethane	ND< 4.17
Dichlorodifluoromethane	ND< 4.17	Trichloroethene	ND< 4.17
1,1-Dichloroethane	ND< 4.17	Trichlorofluoromethane	ND< 4.17
1,2-Dichloroethane	ND< 4.17	Vinyl chloride	ND< 4.17
1,1-Dichloroethene	ND< 4.17	m,p-Xylene	2.70 J
cis-1,2-Dichloroethene	ND< 4.17	o-Xylene	ND< 4.17
trans-1,2-Dichloroethene	ND< 4.17		

ELAP Number 10958 Method: EPA 8260B Data File: V71440.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
Internal Standard outliers indicate probable matrix interference

Signature: _____
Bruce Hoogesteger: Technical Director

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094737V6.XLS

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Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewalls Island IRM	**Lab Project Number:**	09-4737
		Lab Sample Number:	14368
Client Job Number:	34202		
Field Location:	TP-9 (20.5')	**Date Sampled:**	12/21/2009
Field ID Number:	N/A	**Date Received:**	12/22/2009
Sample Type:	Soil	**Date Analyzed:**	12/24/2009

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Hexane	000110-54-3	3.44	14.3	62

ELAP Number 10958 Method: EPA 8260B Data File: V71440.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
Internal Standard outliers indicate probable matrix interference

Signature: _____
Bruce Hoogesteger, Technical Director

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Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site: City of Watertown
Sewalls Island IRM
Client Job Number: 34202
Field Location: TP-11 (20')
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 09-4737
Lab Sample Number: 14369

Date Sampled: 12/21/2009
Date Received: 12/22/2009
Date Analyzed: 12/24/2009

Compound	Results in ug / Kg	
Acetone	64.1	B
Benzene	ND< 3.90	
Bromochloromethane	ND< 9.76	
Bromodichloromethane	ND< 3.90	
Bromoform	ND< 9.76	
Bromomethane	ND< 3.90	
2-Butanone	ND< 19.5	
Carbon disulfide	ND< 3.90	
Carbon Tetrachloride	ND< 9.76	
Chlorobenzene	ND< 3.90	
Chloroethane	ND< 3.90	
Chloroform	ND< 3.90	
Chloromethane	ND< 3.90	
Cyclohexane	ND< 19.5	
Dibromochloromethane	ND< 3.90	
1,2-Dibromo-3-Chloropropane	ND< 19.5	
1,2-Dibromoethane	ND< 9.76	
1,2-Dichlorobenzene	ND< 9.76	
1,3-Dichlorobenzene	ND< 9.76	
1,4-Dichlorobenzene	ND< 3.90	
Dichlorodifluoromethane	ND< 3.90	
1,1-Dichloroethane	ND< 3.90	
1,2-Dichloroethane	ND< 3.90	
1,1-Dichloroethene	ND< 3.90	
cis-1,2-Dichloroethene	ND< 3.90	
trans-1,2-Dichloroethene	ND< 3.90	

Compound	Results in ug / Kg	
1,2-Dichloropropane	ND< 3.90	
cis-1,3-Dichloropropene	ND< 3.90	
trans-1,3-Dichloropropene	ND< 3.90	
Ethylbenzene	2.67	J
2-Hexanone	ND< 9.76	
Isopropylbenzene	ND< 19.5	
Methyl acetate	ND< 9.76	
Methyl tert-butyl Ether	ND< 3.90	
Methylcyclohexane	ND< 3.90	
Methylene chloride	ND< 9.76	
4-Methyl-2-pentanone	ND< 9.76	
Styrene	ND< 9.76	
1,1,2,2-Tetrachloroethane	ND< 3.90	
Tetrachloroethene	ND< 3.90	
Toluene	ND< 3.90	
Freon 113	ND< 3.90	
1,2,3-Trichlorobenzene	ND< 9.76	
1,2,4-Trichlorobenzene	ND< 9.76	
1,1,1-Trichloroethane	ND< 3.90	
1,1,2-Trichloroethane	ND< 3.90	
Trichloroethene	ND< 3.90	
Trichlorofluoromethane	ND< 3.90	
Vinyl chloride	ND< 3.90	
m,p-Xylene	4.63	J
o-Xylene	2.01	J

ELAP Number 10958 Method: EPA 8260B Data File: V71441.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
Internal Standards and Surrogate outliers indicate probable matrix interference

Signature:
Bruce Hoogesteger: Technical Director

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Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewalls Island IRM	**Lab Project Number:**	09-4737
		Lab Sample Number:	14369
Client Job Number:	34202		
Field Location:	TP-11 (20')	**Date Sampled:**	12/21/2009
Field ID Number:	N/A	**Date Received:**	07/08/1998
Sample Type:	Soil	**Date Analyzed:**	12/24/2009

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Hexane	000110-54-3	3.44	16.6	87

ELAP Number 10958 Method: EPA 8260B Data File: V71441.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
Internal Standards and Surrogate outliers indicate probable matrix interference

Signature: _____
Bruce Hoogesteger: Technical Director

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094737V7.XLS

PARADIGM
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Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	09-4803
		Lab Sample Number:	14546
Client Job Number:	34202		
Field Location:	TP-13 (24-25')	**Date Sampled:**	12/22/2009
Field ID Number:	N/A	**Date Received:**	12/28/2009
Sample Type:	Soil	**Date Analyzed:**	01/05/2010

Compound	Results in ug / Kg	Compound	Results in ug / Kg
Acetone	B 45,000	1,2-Dichloropropane	ND< 1,680
Benzene	ND< 1,680	cis-1,3-Dichloropropene	ND< 1,680
Bromochloromethane	ND< 4,200	trans-1,3-Dichloropropene	ND< 1,680
Bromodichloromethane	ND< 1,680	Ethylbenzene	ND< 1,680
Bromoform	ND< 4,200	2-Hexanone	ND< 4,200
Bromomethane	ND< 1,680	Isopropylbenzene	ND< 8,400
2-Butanone	ND< 8,400	Methyl acetate	ND< 4,200
Carbon disulfide	ND< 1,680	Methyl tert-butyl Ether	ND< 1,680
Carbon Tetrachloride	ND< 4,200	Methylcyclohexane	ND< 1,680
Chlorobenzene	ND< 1,680	Methylene chloride	ND< 4,200
Chloroethane	ND< 1,680	4-Methyl-2-pentanone	ND< 4,200
Chloroform	ND< 1,680	Styrene	ND< 4,200
Chloromethane	ND< 1,680	1,1,2,2-Tetrachloroethane	ND< 1,680
Cyclohexane	ND< 8,400	Tetrachloroethene	ND< 1,680
Dibromochloromethane	ND< 1,680	Toluene	ND< 1,680
1,2-Dibromo-3-Chloropropane	ND< 8,400	Freon 113	ND< 1,680
1,2-Dibromoethane	ND< 4,200	1,2,3-Trichlorobenzene	ND< 4,200
1,2-Dichlorobenzene	ND< 4,200	1,2,4-Trichlorobenzene	ND< 4,200
1,3-Dichlorobenzene	ND< 4,200	1,1,1-Trichloroethane	ND< 1,680
1,4-Dichlorobenzene	ND< 1,680	1,1,2-Trichloroethane	ND< 1,680
Dichlorodifluoromethane	ND< 1,680	Trichloroethene	ND< 1,680
1,1-Dichloroethane	ND< 1,680	Trichlorofluoromethane	ND< 1,680
1,2-Dichloroethane	ND< 1,680	Vinyl chloride	ND< 1,680
1,1-Dichloroethene	ND< 1,680	m,p-Xylene	ND< 1,680
cis-1,2-Dichloroethene	ND< 1,680	o-Xylene	ND< 1,680
trans-1,2-Dichloroethene	ND< 1,680		

ELAP Number 10958 Method: EPA 8260B Data File: V71717.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

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Volatile Analysis Report for Soils/Solids/Sludges (Additional STARS Compounds)

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	09-4803
		Lab Sample Number:	14546
Client Job Number:	34202		
Field Location:	TP-13 (24-25')	**Date Sampled:**	12/22/2009
Field ID Number:	N/A	**Date Received:**	12/28/2009
Sample Type:	Soil	**Date Analyzed:**	01/05/2010

Compound	Results in ug / Kg	Compound	Results in ug / Kg
n-Butylbenzene	ND< 8,400	n-Propylbenzene	ND< 1,680
sec-Butylbenzene	ND< 1,680	1,2,4-Trimethylbenzene	5,500
tert-Butylbenzene	ND< 4,200	1,3,5-Trimethylbenzene	1,760
p-Isopropyltoluene	ND< 8,400		
Naphthalene	55,300		

ELAP Number 10958 Method: EPA 8260B Data File: V71717.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

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094803V1.XLS

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Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	09-4803
		Lab Sample Number:	14546
Client Job Number:	34202		
Field Location:	TP-13 (24-25')	**Date Sampled:**	12/22/2009
Field ID Number:	N/A	**Date Received:**	12/28/2009
Sample Type:	Soil	**Date Analyzed:**	01/05/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Unknown Aromatic	N/A	10.87	5,170	N/A
Unknown Aromatic	N/A	11.91	4,790	N/A
Unknown Aromatic	N/A	12.37	8,570	N/A
Unknown Aromatic	N/A	12.44	6,800	N/A
Unknown Aromatic	N/A	12.55	11,200	N/A
Unknown Aromatic	N/A	13.73	5,510	N/A
Unknown Aromatic	N/A	14.13	36,900	N/A
Unknown Aromatic	N/A	14.30	35,900	N/A

ELAP Number 10958 Method: EPA 8260B Data File: V71717.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

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094803V1.XLS

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Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site: City of Watertown Sewall's Island IRM
Client Job Number: 34202
Field Location: TP-14 (25-27')
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 09-4803
Lab Sample Number: 14548

Date Sampled: 12/22/2009
Date Received: 12/28/2009
Date Analyzed: 01/01/2010

Compound	Results in ug / Kg
Acetone	2,560
Benzene	ND< 91.6
Bromochloromethane	ND< 229
Bromodichloromethane	ND< 91.6
Bromoform	ND< 229
Bromomethane	ND< 91.6
2-Butanone	778
Carbon disulfide	141
Carbon Tetrachloride	ND< 229
Chlorobenzene	ND< 91.6
Chloroethane	ND< 91.6
Chloroform	ND< 91.6
Chloromethane	ND< 91.6
Cyclohexane	ND< 458
Dibromochloromethane	ND< 91.6
1,2-Dibromo-3-Chloropropane	ND< 458
1,2-Dibromoethane	ND< 229
1,2-Dichlorobenzene	ND< 229
1,3-Dichlorobenzene	ND< 229
1,4-Dichlorobenzene	ND< 91.6
Dichlorodifluoromethane	ND< 91.6
1,1-Dichloroethane	ND< 91.6
1,2-Dichloroethane	ND< 91.6
1,1-Dichloroethene	ND< 91.6
cis-1,2-Dichloroethene	ND< 91.6
trans-1,2-Dichloroethene	ND< 91.6

Compound	Results in ug / Kg
1,2-Dichloropropane	ND< 91.6
cis-1,3-Dichloropropene	ND< 91.6
trans-1,3-Dichloropropene	ND< 91.6
Ethylbenzene	117
2-Hexanone	ND< 229
Isopropylbenzene	ND< 458
Methyl acetate	ND< 229
Methyl tert-butyl Ether	ND< 91.6
Methylcyclohexane	ND< 91.6
Methylene chloride	ND< 229
4-Methyl-2-pentanone	ND< 229
Styrene	ND< 229
1,1,2,2-Tetrachloroethane	ND< 91.6
Tetrachloroethene	ND< 91.6
Toluene	ND< 91.6
Freon 113	ND< 91.6
1,2,3-Trichlorobenzene	ND< 229
1,2,4-Trichlorobenzene	ND< 229
1,1,1-Trichloroethane	ND< 91.6
1,1,2-Trichloroethane	ND< 91.6
Trichloroethene	ND< 91.6
Trichlorofluoromethane	ND< 91.6
Vinyl chloride	ND< 91.6
m,p-Xylene	ND< 91.6
o-Xylene	J 81.7

ELAP Number 10958 Method: EPA 8260B Data File: V71664.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

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PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges (Additional STARS Compounds)

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	09-4803
		Lab Sample Number:	14548
Client Job Number:	34202		
Field Location:	TP-14 (25-27')	**Date Sampled:**	12/22/2009
Field ID Number:	N/A	**Date Received:**	12/28/2009
Sample Type:	Soil	**Date Analyzed:**	01/01/2010

Compound	Results in ug / Kg	Compound	Results in ug / Kg
n-Butylbenzene	J 195	n-Propylbenzene	102
sec-Butylbenzene	ND< 91.6	1,2,4-Trimethylbenzene	1,040
tert-Butylbenzene	ND< 229	1,3,5-Trimethylbenzene	302
p-Isopropyltoluene	J 226		
Naphthalene	4,910		

ELAP Number 10958 Method: EPA 8260B Data File: V71664.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

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Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	09-4803
		Lab Sample Number:	14548
Client Job Number:	34202		
Field Location:	TP-14 (25-27')	**Date Sampled:**	12/22/2009
Field ID Number:	N/A	**Date Received:**	12/28/2009
Sample Type:	Soil	**Date Analyzed:**	01/01/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Unknown Aromatic	N/A	9.69	1,700	N/A
Unknown Aromatic	N/A	10.87	1,810	N/A
Unknown Alkan	N/A	11.12	776	N/A
Unknown Aromatic	N/A	11.40	1,610	N/A
Unknown Aromatic	N/A	11.60	838	N/A
Unknown Aromatic	N/A	11.67	684	N/A
Unknown Aromatic	N/A	11.85	888	N/A
Unknown Aromatic	N/A	11.91	1,930	N/A
Unknown	N/A	12.20	1,340	N/A
Unknown Aromatic	N/A	12.37	2,270	N/A
Unknown Aromatic	N/A	12.44	949	N/A
Unknown Aromatic	N/A	12.55	2,430	N/A
Unknown Aromatic	N/A	12.77	1,020	N/A
Unknown Aromatic	N/A	13.13	748	N/A
Unknown	N/A	13.22	767	N/A
Unknown Aromatic	N/A	13.51	839	N/A
Unknown Aromatic	N/A	13.61	1,710	N/A
Unknown Aromatic	N/A	13.73	1,740	N/A
Unknown Aromatic	N/A	14.13	2,240	N/A
Unknown Aromatic	N/A	14.31	9,810	N/A

ELAP Number 10958 Method: EPA 8260B Data File: V71664.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

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Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site: City of Watertown
Sewall's Island IRM
Client Job Number: 34202
Field Location: TP-15 (11')
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 09-4803
Lab Sample Number: 14549

Date Sampled: 12/22/2009
Date Received: 12/28/2009
Date Analyzed: 01/01/2010

Compound	Results in ug / Kg
Acetone	ND< 19.9
Benzene	ND< 3.99
Bromochloromethane	ND< 9.97
Bromodichloromethane	ND< 3.99
Bromoform	ND< 9.97
Bromomethane	ND< 3.99
2-Butanone	ND< 19.9
Carbon disulfide	ND< 3.99
Carbon Tetrachloride	ND< 9.97
Chlorobenzene	ND< 3.99
Chloroethane	ND< 3.99
Chloroform	ND< 3.99
Chloromethane	ND< 3.99
Cyclohexane	ND< 19.9
Dibromochloromethane	ND< 3.99
1,2-Dibromo-3-Chloropropane	ND< 19.9
1,2-Dibromoethane	ND< 9.97
1,2-Dichlorobenzene	ND< 9.97
1,3-Dichlorobenzene	ND< 9.97
1,4-Dichlorobenzene	ND< 3.99
Dichlorodifluoromethane	ND< 3.99
1,1-Dichloroethane	ND< 3.99
1,2-Dichloroethane	ND< 3.99
1,1-Dichloroethene	ND< 3.99
cis-1,2-Dichloroethene	ND< 3.99
trans-1,2-Dichloroethene	ND< 3.99

Compound	Results in ug / Kg
1,2-Dichloropropane	ND< 3.99
cis-1,3-Dichloropropene	ND< 3.99
trans-1,3-Dichloropropene	ND< 3.99
Ethylbenzene	ND< 3.99
2-Hexanone	ND< 9.97
Isopropylbenzene	ND< 19.9
Methyl acetate	ND< 9.97
Methyl tert-butyl Ether	ND< 3.99
Methylcyclohexane	ND< 3.99
Methylene chloride	ND< 9.97
4-Methyl-2-pentanone	ND< 9.97
Styrene	ND< 9.97
1,1,2,2-Tetrachloroethane	ND< 3.99
Tetrachloroethene	ND< 3.99
Toluene	ND< 3.99
Freon 113	ND< 3.99
1,2,3-Trichlorobenzene	ND< 9.97
1,2,4-Trichlorobenzene	ND< 9.97
1,1,1-Trichloroethane	ND< 3.99
1,1,2-Trichloroethane	ND< 3.99
Trichloroethene	ND< 3.99
Trichlorofluoromethane	ND< 3.99
Vinyl chloride	ND< 3.99
m,p-Xylene	ND< 3.99
o-Xylene	ND< 3.99

ELAP Number 10958 Method: EPA 8260B Data File: V71665.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
Surrogate and Internal standard outliers indicate probable matrix interference

Signature:
Bruce Hoogesteger: Technical Director

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094803V4.XLS

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Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	09-4803
		Lab Sample Number:	14549
Client Job Number:	34202		
Field Location:	TP-15 (11')	**Date Sampled:**	12/22/2009
Field ID Number:	N/A	**Date Received:**	12/28/2009
Sample Type:	Soil	**Date Analyzed:**	01/01/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Hexane	110-54-3	3.44	48.4	91
Unknown	N/A	9.68	510	N/A
Unknown Aromatic	N/A	11.08	154	N/A
Unknown Aromatic	N/A	11.74	34.1	N/A
Unknown Aromatic	N/A	12.78	183	N/A
Unknown Aromatic	N/A	13.51	50.5	N/A
Unknown Aromatic	N/A	13.61	91.2	N/A
Unknown Aromatic	N/A	13.94	63.0	N/A
Unknown Aromatic	N/A	14.07	29.4	N/A
Unknown Aromatic	N/A	14.30	100	N/A

ELAP Number 10958 Method: EPA 8260B Data File: V71665.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
Surrogate outliers indicate probable matrix interference

Signature:
Bruce Hoogesteger: Technical Director

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094803V4.XLS

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ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site: City of Watertown
Sewall's Island IRM
Client Job Number: 34202
Field Location: TP-16 (17')
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 09-4803
Lab Sample Number: 14550

Date Sampled: 12/23/2009
Date Received: 12/28/2009
Date Analyzed: 01/01/2010
01/05/2010

Compound	Results in ug / Kg
Acetone	901
Benzene	ND< 4.78
Bromochloromethane	ND< 12.0
Bromodichloromethane	ND< 4.78
Bromoform	ND< 12.0
Bromomethane	ND< 4.78
2-Butanone	107
Carbon disulfide	13.6
Carbon Tetrachloride	ND< 12.0
Chlorobenzene	ND< 4.78
Chloroethane	ND< 4.78
Chloroform	ND< 4.78
Chloromethane	ND< 4.78
Cyclohexane	ND< 23.9
Dibromochloromethane	ND< 4.78
1,2-Dibromo-3-Chloropropane	ND< 23.9
1,2-Dibromoethane	ND< 12.0
1,2-Dichlorobenzene	ND< 12.0
1,3-Dichlorobenzene	ND< 12.0
1,4-Dichlorobenzene	ND< 4.78
Dichlorodifluoromethane	ND< 4.78
1,1-Dichloroethane	ND< 4.78
1,2-Dichloroethane	ND< 4.78
1,1-Dichloroethene	ND< 4.78
cis-1,2-Dichloroethene	ND< 4.78
trans-1,2-Dichloroethene	ND< 4.78

Compound	Results in ug / Kg
1,2-Dichloropropane	ND< 4.78
cis-1,3-Dichloropropene	ND< 4.78
trans-1,3-Dichloropropene	ND< 4.78
Ethylbenzene	ND< 4.78
2-Hexanone	ND< 12.0
Isopropylbenzene	ND< 23.9
Methyl acetate	ND< 12.0
Methyl tert-butyl Ether	ND< 4.78
Methylcyclohexane	ND< 4.78
Methylene chloride	ND< 12.0
4-Methyl-2-pentanone	ND< 12.0
Styrene	ND< 12.0
1,1,2,2-Tetrachloroethane	ND< 4.78
Tetrachloroethene	6.77
Toluene	ND< 4.78
Freon 113	ND< 4.78
1,2,3-Trichlorobenzene	ND< 12.0
1,2,4-Trichlorobenzene	ND< 12.0
1,1,1-Trichloroethane	ND< 4.78
1,1,2-Trichloroethane	ND< 4.78
Trichloroethene	ND< 4.78
Trichlorofluoromethane	ND< 4.78
Vinyl chloride	ND< 4.78
m,p-Xylene	ND< 4.78
o-Xylene	ND< 4.78

ELAP Number 10958 Method: EPA 8260B Data File: V71666.D
Data File: V71713.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

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PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	09-4803
		Lab Sample Number:	14550
Client Job Number:	34202		
Field Location:	TP-16 (17')	**Date Sampled:**	12/23/2009
Field ID Number:	N/A	**Date Received:**	12/28/2009
Sample Type:	Soil	**Date Analyzed:**	01/01/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Hexane	110-54-3	3.443	54.9	83
Unknown	N/A	9.67	22.8	N/A
Unknown Alkane	N/A	9.99	26.3	N/A
Unknown Alkane	N/A	10.11	69.0	N/A
Unknown Alkane	N/A	10.28	19.1	N/A
Unknown Alkane	N/A	10.44	41.6	N/A
Unknown Aromatic	N/A	10.48	21.1	N/A
Unknown Alkane	N/A	10.62	22.9	N/A
Unknown Alkane	N/A	10.66	31.1	N/A
Unknown Alkane	N/A	10.76	39.2	N/A
Unknown Aromatic	N/A	10.90	21.6	N/A
Unknown Aromatic	N/A	10.97	51.1	N/A
Unknown Aromatic	N/A	11.13	45.2	N/A
Unknown	N/A	11.18	22.4	N/A
Unknown Aromatic	N/A	12.77	50.7	N/A
Unknown Aromatic	N/A	13.51	45.8	N/A
Unknown Aromatic	N/A	13.60	64.0	N/A
Unknown Aromatic	N/A	13.94	50.3	N/A
Unknown Aromatic	N/A	14.06	32.2	N/A

ELAP Number 10958 Method: EPA 8260B Data File: V71666.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

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094803V5.XLS

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ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site: City of Watertown
Sewall's Island IRM
Client Job Number: 34202
Field Location: TP-18 (22')
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 09-4803
Lab Sample Number: 14551

Date Sampled: 12/23/2009
Date Received: 12/28/2009
Date Analyzed: 01/01/2010

Compound	Results in ug / Kg
Acetone	208
Benzene	ND< 6.03
Bromochloromethane	ND< 15.1
Bromodichloromethane	ND< 6.03
Bromoform	ND< 15.1
Bromomethane	ND< 6.03
2-Butanone	ND< 30.1
Carbon disulfide	ND< 6.03
Carbon Tetrachloride	ND< 15.1
Chlorobenzene	ND< 6.03
Chloroethane	ND< 6.03
Chloroform	14.0
Chloromethane	ND< 6.03
Cyclohexane	ND< 30.1
Dibromochloromethane	ND< 6.03
1,2-Dibromo-3-Chloropropane	ND< 30.1
1,2-Dibromoethane	ND< 15.1
1,2-Dichlorobenzene	ND< 15.1
1,3-Dichlorobenzene	ND< 15.1
1,4-Dichlorobenzene	ND< 6.03
Dichlorodifluoromethane	ND< 6.03
1,1-Dichloroethane	ND< 6.03
1,2-Dichloroethane	ND< 6.03
1,1-Dichloroethene	ND< 6.03
cis-1,2-Dichloroethene	ND< 6.03
trans-1,2-Dichloroethene	ND< 6.03

Compound	Results in ug / Kg
1,2-Dichloropropane	ND< 6.03
cis-1,3-Dichloropropene	ND< 6.03
trans-1,3-Dichloropropene	ND< 6.03
Ethylbenzene	ND< 6.03
2-Hexanone	ND< 15.1
Isopropylbenzene	ND< 30.1
Methyl acetate	ND< 15.1
Methyl tert-butyl Ether	ND< 6.03
Methylcyclohexane	ND< 6.03
Methylene chloride	ND< 15.1
4-Methyl-2-pentanone	ND< 15.1
Styrene	ND< 15.1
1,1,2,2-Tetrachloroethane	ND< 6.03
Tetrachloroethene	ND< 6.03
Toluene	ND< 6.03
Freon 113	ND< 6.03
1,2,3-Trichlorobenzene	ND< 15.1
1,2,4-Trichlorobenzene	ND< 15.1
1,1,1-Trichloroethane	ND< 6.03
1,1,2-Trichloroethane	ND< 6.03
Trichloroethene	ND< 6.03
Trichlorofluoromethane	ND< 6.03
Vinyl chloride	ND< 6.03
m,p-Xylene	ND< 6.03
o-Xylene	ND< 6.03

ELAP Number 10958 Method: EPA 8260B Data File: V71669.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:
Bruce Hoogesteger: Technical Director

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094803V6.XLS

PARADIGM ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	09-4803
		Lab Sample Number:	14551
Client Job Number:	34202		
Field Location:	TP-18 (22')	**Date Sampled:**	12/23/2009
Field ID Number:	N/A	**Date Received:**	12/28/2009
Sample Type:	Soil	**Date Analyzed:**	01/01/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
None Found	N/A	N/A	ND< 6.03	N/A

ELAP Number 10958 Method: EPA 8260B Data File: V71669.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: Bruce Hoogesteger: Technical Director

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094803V8.XLS

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Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	09-4832
		Lab Sample Number:	14618
Client Job Number:	34202		
Field Location:	TP-19 (23')	**Date Sampled:**	12/28/2009
Field ID Number:	N/A	**Date Received:**	12/31/2009
Sample Type:	Soil	**Date Analyzed:**	01/09/2010

Compound	Results in ug / Kg	Compound	Results in ug / Kg
Acetone	164	1,2-Dichloropropane	ND< 4.82
Benzene	ND< 4.82	cis-1,3-Dichloropropene	ND< 4.82
Bromochloromethane	ND< 12.0	trans-1,3-Dichloropropene	ND< 4.82
Bromodichloromethane	ND< 4.82	Ethylbenzene	ND< 4.82
Bromoform	ND< 12.0	2-Hexanone	ND< 12.0
Bromomethane	ND< 4.82	Isopropylbenzene	ND< 24.1
2-Butanone	J 12.1	Methyl acetate	ND< 12.0
Carbon disulfide	13.1	Methyl tert-butyl Ether	ND< 4.82
Carbon Tetrachloride	ND< 12.0	Methylcyclohexane	ND< 4.82
Chlorobenzene	ND< 4.82	Methylene chloride	J 10.5
Chloroethane	ND< 4.82	4-Methyl-2-pentanone	ND< 12.0
Chloroform	ND< 4.82	Styrene	ND< 12.0
Chloromethane	ND< 4.82	1,1,2,2-Tetrachloroethane	ND< 4.82
Cyclohexane	ND< 24.1	Tetrachloroethene	ND< 4.82
Dibromochloromethane	ND< 4.82	Toluene	ND< 4.82
1,2-Dibromo-3-Chloropropane	ND< 24.1	Freon 113	12.8
1,2-Dibromoethane	ND< 12.0	1,2,3-Trichlorobenzene	ND< 12.0
1,2-Dichlorobenzene	ND< 12.0	1,2,4-Trichlorobenzene	ND< 12.0
1,3-Dichlorobenzene	ND< 12.0	1,1,1-Trichloroethane	96.5
1,4-Dichlorobenzene	ND< 4.82	1,1,2-Trichloroethane	ND< 4.82
Dichlorodifluoromethane	ND< 4.82	Trichloroethene	ND< 4.82
1,1-Dichloroethane	ND< 4.82	Trichlorofluoromethane	ND< 4.82
1,2-Dichloroethane	ND< 4.82	Vinyl chloride	ND< 4.82
1,1-Dichloroethene	ND< 4.82	m,p-Xylene	ND< 4.82
cis-1,2-Dichloroethene	ND< 4.82	o-Xylene	ND< 4.82
trans-1,2-Dichloroethene	ND< 4.82		

ELAP Number 10958 Method: EPA 8260B Data File: V71885.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
Internal Standard outliers indicate probable matrix interference

Signature: (for)
Bruce Hoogesteger: Technical Director

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Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	09-4832
		Lab Sample Number:	14618
Client Job Number:	34202		
Field Location:	TP-19 (23')	**Date Sampled:**	12/28/2009
Field ID Number:	N/A	**Date Received:**	12/31/2009
Sample Type:	Soil	**Date Analyzed:**	01/09/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Hexane	000110-54-3	3.438	12.8	90

ELAP Number 10958 Method: EPA 8260B Data File: V71885.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
Internal Standard outliers indicate probable matrix interference

Signature: (for)
Bruce Hoogesteger, Technical Director

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Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site: City of Watertown
Sewall's Island IRM
Client Job Number: 34202
Field Location: TP-22 (30')
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 09-4832
Lab Sample Number: 14619

Date Sampled: 12/29/2009
Date Received: 12/31/2009
Date Analyzed: 01/06/2010

Compound	Results in ug / Kg
Acetone	156
Benzene	ND< 5.94
Bromochloromethane	ND< 14.8
Bromodichloromethane	ND< 5.94
Bromoform	ND< 14.8
Bromomethane	ND< 5.94
2-Butanone	ND< 29.7
Carbon disulfide	ND< 5.94
Carbon Tetrachloride	ND< 14.8
Chlorobenzene	ND< 5.94
Chloroethane	ND< 5.94
Chloroform	J,B 4.10
Chloromethane	ND< 5.94
Cyclohexane	ND< 29.7
Dibromochloromethane	ND< 5.94
1,2-Dibromo-3-Chloropropane	ND< 29.7
1,2-Dibromoethane	ND< 14.8
1,2-Dichlorobenzene	ND< 14.8
1,3-Dichlorobenzene	ND< 14.8
1,4-Dichlorobenzene	ND< 5.94
Dichlorodifluoromethane	ND< 5.94
1,1-Dichloroethane	ND< 5.94
1,2-Dichloroethane	ND< 5.94
1,1-Dichloroethene	ND< 5.94
cis-1,2-Dichloroethene	ND< 5.94
trans-1,2-Dichloroethene	ND< 5.94

Compound	Results in ug / Kg
1,2-Dichloropropane	ND< 5.94
cis-1,3-Dichloropropene	ND< 5.94
trans-1,3-Dichloropropene	ND< 5.94
Ethylbenzene	ND< 5.94
2-Hexanone	ND< 14.8
Isopropylbenzene	ND< 29.7
Methyl acetate	ND< 14.8
Methyl tert-butyl Ether	ND< 5.94
Methylcyclohexane	ND< 5.94
Methylene chloride	ND< 14.8
4-Methyl-2-pentanone	ND< 14.8
Styrene	ND< 14.8
1,1,2,2-Tetrachloroethane	ND< 5.94
Tetrachloroethene	ND< 5.94
Toluene	ND< 5.94
Freon 113	ND< 5.94
1,2,3-Trichlorobenzene	ND< 14.8
1,2,4-Trichlorobenzene	ND< 14.8
1,1,1-Trichloroethane	ND< 5.94
1,1,2-Trichloroethane	ND< 5.94
Trichloroethene	ND< 5.94
Trichlorofluoromethane	ND< 5.94
Vinyl chloride	ND< 5.94
m,p-Xylene	ND< 5.94
o-Xylene	ND< 5.94

ELAP Number 10958 Method: EPA 8260B Data File: V71736.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
Surrogate outliers indicate probable matrix interference

Signature: (for)
Bruce Hoogesteger, Technical Director

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094832V2.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	09-4832
		Lab Sample Number:	14619
Client Job Number:	34202		
Field Location:	TP-22 (30')	**Date Sampled:**	12/29/2009
Field ID Number:	N/A	**Date Received:**	12/31/2009
Sample Type:	Soil	**Date Analyzed:**	01/06/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
None Found	N/A	N/A	ND< 5.94	N/A

ELAP Number 10958 Method: EPA 8260B Data File: V71736.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
Surrogate outliers indicate probable matrix interference

Signature: (for)
Bruce Hoegesteger: Technical Director

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PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	09-4832
		Lab Sample Number:	14622
Client Job Number:	34202		
Field Location:	TP-23 (23')	**Date Sampled:**	12/30/2009
Field ID Number:	N/A	**Date Received:**	12/31/2009
Sample Type:	Soil	**Date Analyzed:**	01/09/2010

Compound	Results in ug / Kg	
Acetone	97.3	
Benzene	ND< 5.13	M
Bromochloromethane	ND< 12.8	
Bromodichloromethane	ND< 5.13	
Bromoform	ND< 12.8	
Bromomethane	ND< 5.13	
2-Butanone	ND< 25.6	
Carbon disulfide	ND< 5.13	
Carbon Tetrachloride	ND< 12.8	
Chlorobenzene	ND< 5.13	M
Chloroethane	ND< 5.13	
Chloroform	ND< 5.13	
Chloromethane	ND< 5.13	
Cyclohexane	ND< 25.6	
Dibromochloromethane	ND< 5.13	
1,2-Dibromo-3-Chloropropane	ND< 25.6	
1,2-Dibromoethane	ND< 12.8	
1,2-Dichlorobenzene	ND< 12.8	
1,3-Dichlorobenzene	ND< 12.8	
1,4-Dichlorobenzene	ND< 5.13	
Dichlorodifluoromethane	ND< 5.13	
1,1-Dichloroethane	J 3.61	
1,2-Dichloroethane	ND< 5.13	
1,1-Dichloroethene	ND< 5.13	M
cis-1,2-Dichloroethene	ND< 5.13	
trans-1,2-Dichloroethene	ND< 5.13	

Compound	Results in ug / Kg	
1,2-Dichloropropane	ND< 5.13	
cis-1,3-Dichloropropene	ND< 5.13	
trans-1,3-Dichloropropene	ND< 5.13	
Ethylbenzene	ND< 5.13	
2-Hexanone	ND< 12.8	
Isopropylbenzene	ND< 25.6	
Methyl acetate	ND< 12.8	
Methyl tert-butyl Ether	ND< 5.13	
Methylcyclohexane	ND< 5.13	
Methylene chloride	ND< 12.8	
4-Methyl-2-pentanone	ND< 12.8	
Styrene	ND< 12.8	
1,1,2,2-Tetrachloroethane	ND< 5.13	
Tetrachloroethene	ND< 5.13	
Toluene	ND< 5.13	M
Freon 113	35.3	
1,2,3-Trichlorobenzene	ND< 12.8	
1,2,4-Trichlorobenzene	ND< 12.8	
1,1,1-Trichloroethane	181	
1,1,2-Trichloroethane	ND< 5.13	
Trichloroethene	ND< 5.13	M
Trichlorofluoromethane	ND< 5.13	
Vinyl chloride	ND< 5.13	
m,p-Xylene	J 2.77	
o-Xylene	ND< 5.13	

ELAP Number 10958 Method: EPA 8260B Data File: V71886.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
Internal Standard outliers indicate probable matrix interference

Signature: (for)
Bruce Hoogesteger: Technical Director

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Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	09-4832
		Lab Sample Number:	14622
Client Job Number:	34202		
Field Location:	TP-23 (23')	**Date Sampled:**	12/30/2009
Field ID Number:	N/A	**Date Received:**	12/31/2009
Sample Type:	Soil	**Date Analyzed:**	01/09/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
None Found	N/A	N/A	ND< 5.13	N/A

ELAP Number 10958 Method: EPA 8260B Data File: V71886.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
Internal Standard outliers indicate probable matrix interference

Signature: (for)
Bruce Hoogesteger, Technical Director

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094832V4.XLS

PARADIGM
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Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	09-4832
		Lab Sample Number:	14623
Client Job Number:	34202		
Field Location:	TP-23 (28.5')	**Date Sampled:**	12/30/2009
Field ID Number:	N/A	**Date Received:**	12/31/2009
Sample Type:	Soil	**Date Analyzed:**	01/06/2010

Compound	Results in ug / Kg	Compound	Results in ug / Kg
Acetone	90.1	1,2-Dichloropropane	ND< 4.89
Benzene	ND< 4.89	cis-1,3-Dichloropropene	ND< 4.89
Bromochloromethane	ND< 12.2	trans-1,3-Dichloropropene	ND< 4.89
Bromodichloromethane	ND< 4.89	Ethylbenzene	ND< 4.89
Bromoform	ND< 12.2	2-Hexanone	ND< 12.2
Bromomethane	ND< 4.89	Isopropylbenzene	ND< 24.4
2-Butanone	ND< 24.4	Methyl acetate	ND< 12.2
Carbon disulfide	ND< 4.89	Methyl tert-butyl Ether	ND< 4.89
Carbon Tetrachloride	ND< 12.2	Methylcyclohexane	ND< 4.89
Chlorobenzene	ND< 4.89	Methylene chloride	ND< 12.2
Chloroethane	ND< 4.89	4-Methyl-2-pentanone	ND< 12.2
Chloroform	J,B 2.97	Styrene	ND< 12.2
Chloromethane	ND< 4.89	1,1,2,2-Tetrachloroethane	ND< 4.89
Cyclohexane	ND< 24.4	Tetrachloroethene	ND< 4.89
Dibromochloromethane	ND< 4.89	Toluene	ND< 4.89
1,2-Dibromo-3-Chloropropane	ND< 24.4	Freon 113	ND< 4.89
1,2-Dibromoethane	ND< 12.2	1,2,3-Trichlorobenzene	ND< 12.2
1,2-Dichlorobenzene	ND< 12.2	1,2,4-Trichlorobenzene	ND< 12.2
1,3-Dichlorobenzene	ND< 12.2	1,1,1-Trichloroethane	ND< 4.89
1,4-Dichlorobenzene	ND< 4.89	1,1,2-Trichloroethane	ND< 4.89
Dichlorodifluoromethane	ND< 4.89	Trichloroethene	ND< 4.89
1,1-Dichloroethane	ND< 4.89	Trichlorofluoromethane	ND< 4.89
1,2-Dichloroethane	ND< 4.89	Vinyl chloride	ND< 4.89
1,1-Dichloroethene	ND< 4.89	m,p-Xylene	ND< 4.89
cis-1,2-Dichloroethene	ND< 4.89	o-Xylene	ND< 4.89
trans-1,2-Dichloroethene	ND< 4.89		

ELAP Number 10958 Method: EPA 8260B Data File: V71741.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: (for)
Bruce Hoogesteger, Technical Director

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094832V5.XLS

PARADIGM
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Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	09-4832
		Lab Sample Number:	14623
Client Job Number:	34202		
Field Location:	TP-23 (28.5')	**Date Sampled:**	12/30/2009
Field ID Number:	N/A	**Date Received:**	12/31/2009
Sample Type:	Soil	**Date Analyzed:**	01/06/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
None Found	N/A	N/A	ND< 4.89	N/A

ELAP Number 10958 Method: EPA 8260B Data File: V71741.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: R. Rapoci (for)
Bruce Hoogesteger: Technical Director

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PARADIGM
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Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	10-0376
Client Job Number:	34202	**Lab Sample Number:**	1993
Field Location:	TP39 (25')	**Date Sampled:**	01/21/2010
Field ID Number:	N/A	**Date Received:**	01/22/2010
Sample Type:	Soil	**Date Analyzed:**	02/02/2010

Compound	Results in ug / Kg
Acetone	ND< 19.5
Benzene	ND< 3.91
Bromochloromethane	ND< 9.76
Bromodichloromethane	ND< 3.91
Bromoform	ND< 9.76
Bromomethane	ND< 3.91
2-Butanone	ND< 19.5
Carbon disulfide	ND< 3.91
Carbon Tetrachloride	ND< 9.76
Chlorobenzene	ND< 3.91
Chloroethane	ND< 3.91
Chloroform	ND< 3.91
Chloromethane	ND< 3.91
Cyclohexane	ND< 19.5
Dibromochloromethane	ND< 3.91
1,2-Dibromo-3-Chloropropane	ND< 19.5
1,2-Dibromoethane	ND< 9.76
1,2-Dichlorobenzene	ND< 9.76
1,3-Dichlorobenzene	ND< 9.76
1,4-Dichlorobenzene	ND< 3.91
Dichlorodifluoromethane	ND< 3.91
1,1-Dichloroethane	ND< 3.91
1,2-Dichloroethane	ND< 3.91
1,1-Dichloroethene	ND< 3.91
cis-1,2-Dichloroethene	ND< 3.91
trans-1,2-Dichloroethene	ND< 3.91

Compound	Results in ug / Kg
1,2-Dichloropropane	ND< 3.91
cis-1,3-Dichloropropene	ND< 3.91
trans-1,3-Dichloropropene	ND< 3.91
Ethylbenzene	ND< 3.91
2-Hexanone	ND< 9.76
Isopropylbenzene	ND< 19.5
Methyl acetate	ND< 9.76
Methyl tert-butyl Ether	ND< 3.91
Methylcyclohexane	ND< 3.91
Methylene chloride	34.0
4-Methyl-2-pentanone	ND< 9.76
Styrene	ND< 9.76
1,1,2,2-Tetrachloroethane	ND< 3.91
Tetrachloroethene	ND< 3.91
Toluene	J 3.37
Freon 113	ND< 3.91
1,2,3-Trichlorobenzene	ND< 9.76
1,2,4-Trichlorobenzene	ND< 9.76
1,1,1-Trichloroethane	ND< 3.91
1,1,2-Trichloroethane	ND< 3.91
Trichloroethene	ND< 3.91
Trichlorofluoromethane	ND< 3.91
Vinyl chloride	ND< 3.91
m,p-Xylene	J 2.44
o-Xylene	ND< 3.91

ELAP Number 10958 Method: EPA 8260B Data File: V72575.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
Internal standard, surrogate, and matrix spike outliers indicate probable matrix interference

Signature: _____
Bruce Hoogesteger: Technical Director

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Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	10-0376
		Lab Sample Number:	1993
Client Job Number:	34202		
Field Location:	TP39 (25')	**Date Sampled:**	01/21/2010
Field ID Number:	N/A	**Date Received:**	01/22/2010
Sample Type:	Soil	**Date Analyzed:**	02/02/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Unknown alkane	N/A	11.12	11.7	N/A
Unknown	N/A	13.42	30.2	N/A

ELAP Number 10958 Method: EPA 8260B Data File: V72575.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
Surrogate outliers indicate probable matrix interference

Signature: _____
Bruce Hoogesteger, Technical Director

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100376V1.XLS

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Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site: City of Watertown Sewalls Island IRM
Client Job Number: 34202
Field Location: TP-1 (21')
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 09-4737
Lab Sample Number: 14363

Date Sampled: 12/17/2009
Date Received: 12/22/2009
Date Analyzed: 01/07/2010

Compound	Results in ug / Kg
Acenaphthene	ND< 300
Acenaphthylene	ND< 300
Acetophenone	ND< 300
Anthracene	ND< 300
Atrazine	ND< 300
Benzaldehyde	ND< 300
Benzo (a) anthracene	ND< 300
Benzo (a) pyrene	ND< 300
Benzo (b) fluoranthene	ND< 300
Benzo (g,h,i) perylene	ND< 300
Benzo (k) fluoranthene	ND< 300
Biphenyl	ND< 300
Bis (2-chloroethyl) ether	ND< 300
Bis (2-chloroethoxy) methane	ND< 300
Bis (2-ethylhexyl) phthalate	ND< 300
Bis (2-chloroisopropyl) ether	ND< 300
4-Bromophenyl phenyl ether	ND< 300
Butylbenzylphthalate	ND< 300
Caprolactam	ND< 300
Carbazole	ND< 300
4-Chloroaniline	ND< 300
4-Chloro-3-methylphenol	ND< 300
2-Chloronaphthalene	ND< 300
2-Chlorophenol	ND< 300
4-Chlorophenyl phenyl ether	ND< 300
Chrysene	ND< 300
Dibenz (a,h) anthracene	ND< 300
Dibenzofuran	ND< 300
3,3'-Dichlorobenzidine	ND< 300
2,4-Dichlorophenol	ND< 300
Diethyl phthalate	ND< 300
2,4-Dimethylphenol	ND< 300
Dimethyl phthalate	ND< 749

Compound	Results in ug / Kg
Di-n-butyl phthalate	ND< 300
4,6-Dinitro-2-methylphenol	ND< 749
2,4-Dinitrophenol	ND< 749
2,4-Dinitrotoluene	ND< 300
2,6-Dinitrotoluene	ND< 300
Di-n-octylphthalate	ND< 300
Fluoranthene	ND< 300
Fluorene	ND< 300
Hexachlorobenzene	ND< 300
Hexachlorobutadiene	ND< 300
Hexachlorocyclopentadiene	ND< 300
Hexachloroethane	ND< 300
Indeno (1,2,3-cd) pyrene	ND< 300
Isophorone	ND< 300
2-Methylnapthalene	ND< 300
2-Methylphenol	ND< 300
3&4-Methylphenol	ND< 300
Naphthalene	ND< 300
2-Nitroaniline	ND< 749
3-Nitroaniline	ND< 749
4-Nitroaniline	ND< 749
Nitrobenzene	ND< 300
2-Nitrophenol	ND< 300
4-Nitrophenol	ND< 749
N-Nitroso-di-n-propylamine	ND< 300
N-Nitrosodiphenylamine	ND< 300
Pentachlorophenol	ND< 749
Phenanthrene	ND< 300
Phenol	ND< 300
Pyrene	ND< 300
2,4,5-Trichlorophenol	ND< 749
2,4,6-Trichlorophenol	ND< 300

ELAP Number 10958 Method: EPA 8270C Data File: S48543.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:
Bruce Hoogesteger: Technical Director

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PARADIGM
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Semi -Volatile Analysis Report for Non-potable Water

Client: Lu Engineers

Client Job Site:	City of Watertown Sewalls Island IRM	**Lab Project Number:**	09-4737
		Lab Sample Number:	14363
Client Job Number:	34202		
Field Location:	TP-1 (21')	**Date Sampled:**	12/17/2009
Field ID Number:	N/A	**Date Received:**	12/22/2009
Sample Type:	Water	**Date Analyzed:**	01/07/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / L	Percent Fit
None Found	N/A	N/A	ND< 10.0	N/A

ELAP Number 10958 Method: EPA 8270C Data File: S48543.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

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Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewalls Island IRM	**Lab Project Number:**	09-4737
		Lab Sample Number:	14364
Client Job Number:	34202		
Field Location:	TP-2 (22')	**Date Sampled:**	12/17/2009
Field ID Number:	N/A	**Date Received:**	12/22/2009
Sample Type:	Soil	**Date Analyzed:**	01/07/2010

Compound	Results in ug / Kg	Compound	Results in ug / Kg
Acenaphthene	ND< 338	Di-n-butyl phthalate	ND< 338
Acenaphthylene	ND< 338	4,6-Dinitro-2-methylphenol	ND< 845
Acetophenone	ND< 338	2,4-Dinitrophenol	ND< 845
Anthracene	ND< 338	2,4-Dinitrotoluene	ND< 338
Atrazine	ND< 338	2,6-Dinitrotoluene	ND< 338
Benzaldehyde	ND< 338	Di-n-octylphthalate	ND< 338
Benzo (a) anthracene	ND< 338	Fluoranthene	ND< 338
Benzo (a) pyrene	ND< 338	Fluorene	ND< 338
Benzo (b) fluoranthene	ND< 338	Hexachlorobenzene	ND< 338
Benzo (g,h,i) perylene	ND< 338	Hexachlorobutadiene	ND< 338
Benzo (k) fluoranthene	ND< 338	Hexachlorocyclopentadiene	ND< 338
Biphenyl	ND< 338	Hexachloroethane	ND< 338
Bis (2-chloroethyl) ether	ND< 338	Indeno (1,2,3-cd) pyrene	ND< 338
Bis (2-chloroethoxy) methane	ND< 338	Isophorone	ND< 338
Bis (2-ethylhexyl) phthalate	ND< 338	2-Methylnapthalene	ND< 338
Bis (2-chloroisopropyl) ether	ND< 338	2-Methylphenol	ND< 338
4-Bromophenyl phenyl ether	ND< 338	3&4-Methylphenol	ND< 338
Butylbenzylphthalate	ND< 338	Naphthalene	ND< 338
Caprolactam	ND< 338	2-Nitroaniline	ND< 845
Carbazole	ND< 338	3-Nitroaniline	ND< 845
4-Chloroaniline	ND< 338	4-Nitroaniline	ND< 845
4-Chloro-3-methylphenol	ND< 338	Nitrobenzene	ND< 338
2-Chloronaphthalene	ND< 338	2-Nitrophenol	ND< 338
2-Chlorophenol	ND< 338	4-Nitrophenol	ND< 845
4-Chlorophenyl phenyl ether	ND< 338	N-Nitroso-di-n-propylamine	ND< 338
Chrysene	ND< 338	N-Nitrosodiphenylamine	ND< 338
Dibenz (a,h) anthracene	ND< 338	Pentachlorophenol	ND< 845
Dibenzofuran	ND< 338	Phenanthrene	ND< 338
3,3'-Dichlorobenzidine	ND< 338	Phenol	ND< 338
2,4-Dichlorophenol	ND< 338	Pyrene	ND< 338
Diethyl phthalate	ND< 338	2,4,5-Trichlorophenol	ND< 845
2,4-Dimethylphenol	ND< 338	2,4,6-Trichlorophenol	ND< 338
Dimethyl phthalate	ND< 845		

ELAP Number 10958 Method: EPA 8270C Data File: S48544.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

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Semi -Volatile Analysis Report for Non-potable Water

Client: Lu Engineers

Client Job Site:	City of Watertown Sewalls Island IRM	**Lab Project Number:**	09-4737
		Lab Sample Number:	14364
Client Job Number:	34202		
Field Location:	TP-2 (22')	**Date Sampled:**	12/17/2009
Field ID Number:	N/A	**Date Received:**	12/22/2009
Sample Type:	Water	**Date Analyzed:**	01/07/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / L	Percent Fit
Sulfur	N/A	15.9	17.2	N/A

ELAP Number 10958 Method: EPA 8270C Data File: S48544.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:
Bruce Hoogesteger: Technical Director

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094737S2.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewalls Island IRM	**Lab Project Number:**	09-4737
		Lab Sample Number:	14365
Client Job Number:	34202		
Field Location:	TP-4 (22')	**Date Sampled:**	12/17/2009
Field ID Number:	N/A	**Date Received:**	12/22/2009
Sample Type:	Soil	**Date Analyzed:**	01/07/2010

Compound	Results in ug / Kg	Compound	Results in ug / Kg
Acenaphthene	ND< 308	Di-n-butyl phthalate	ND< 308
Acenaphthylene	ND< 308	4,6-Dinitro-2-methylphenol	ND< 771
Acetophenone	ND< 308	2,4-Dinitrophenol	ND< 771
Anthracene	202 J	2,4-Dinitrotoluene	ND< 308
Atrazine	ND< 308	2,6-Dinitrotoluene	ND< 308
Benzaldehyde	ND< 308	Di-n-octylphthalate	ND< 308
Benzo (a) anthracene	1,810	Fluoranthene	1,660
Benzo (a) pyrene	3,210	Fluorene	ND< 308
Benzo (b) fluoranthene	3,810	Hexachlorobenzene	ND< 308
Benzo (g,h,i) perylene	3,410	Hexachlorobutadiene	ND< 308
Benzo (k) fluoranthene	2,320	Hexachlorocyclopentadiene	ND< 308
Biphenyl	ND< 308	Hexachloroethane	ND< 308
Bis (2-chloroethyl) ether	ND< 308	Indeno (1,2,3-cd) pyrene	3,180
Bis (2-chloroethoxy) methane	ND< 308	Isophorone	ND< 308
Bis (2-ethylhexyl) phthalate	ND< 308	2-Methylnapthalene	ND< 308
Bis (2-chloroisopropyl) ether	ND< 308	2-Methylphenol	ND< 308
4-Bromophenyl phenyl ether	ND< 308	3&4-Methylphenol	ND< 308
Butylbenzylphthalate	ND< 308	Naphthalene	ND< 308
Caprolactam	ND< 308	2-Nitroaniline	ND< 771
Carbazole	ND< 308	3-Nitroaniline	ND< 771
4-Chloroaniline	ND< 308	4-Nitroaniline	ND< 771
4-Chloro-3-methylphenol	ND< 308	Nitrobenzene	ND< 308
2-Chloronaphthalene	ND< 308	2-Nitrophenol	ND< 308
2-Chlorophenol	ND< 308	4-Nitrophenol	ND< 771
4-Chlorophenyl phenyl ether	ND< 308	N-Nitroso-di-n-propylamine	ND< 308
Chrysene	2,400	N-Nitrosodiphenylamine	ND< 308
Dibenz (a,h) anthracene	1,440	Pentachlorophenol	ND< 771
Dibenzofuran	ND< 308	Phenanthrene	790
3,3'-Dichlorobenzidine	ND< 308	Phenol	ND< 308
2,4-Dichlorophenol	ND< 308	Pyrene	1,820
Diethyl phthalate	ND< 308	2,4,5-Trichlorophenol	ND< 771
2,4-Dimethylphenol	ND< 308	2,4,6-Trichlorophenol	ND< 308
Dimethyl phthalate	ND< 771		

ELAP Number 10958 Method: EPA 8270C Data File: S48545.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

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Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewalls Island IRM	**Lab Project Number:**	09-4737
		Lab Sample Number:	14365
Client Job Number:	34202		
Field Location:	TP-4 (22')	**Date Sampled:**	12/17/2009
Field ID Number:	N/A	**Date Received:**	12/22/2009
Sample Type:	Soil	**Date Analyzed:**	01/07/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Complex Hydrocarbon	N/A	15.08	392	N/A
Complex Hydrocarbon	N/A	16.88	321	N/A
Complex Hydrocarbon	N/A	17.69	336	N/A
Complex Hydrocarbon	N/A	17.92	398	N/A
Complex Hydrocarbon	N/A	18.90	620	N/A
Complex Hydrocarbon	N/A	19.59	1,130	N/A
Complex Hydrocarbon	N/A	19.88	694	N/A
Complex Hydrocarbon	N/A	19.99	364	N/A
Complex Hydrocarbon	N/A	20.06	4,720	N/A
Complex Hydrocarbon	N/A	20.24	1,350	N/A
Complex Hydrocarbon	N/A	20.34	1,670	N/A
Complex Hydrocarbon	N/A	20.47	333	N/A
Complex Hydrocarbon	N/A	20.61	490	N/A
Complex Hydrocarbon	N/A	21.12	1,560	N/A
Complex Hydrocarbon	N/A	21.36	632	N/A
Complex Hydrocarbon	N/A	21.40	1,090	N/A

ELAP Number 10958 Method: EPA 8270C Data File: S48545.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:
Bruce Hoogestraer: Technical Director

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Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site: City of Watertown Sewalls Island IRM
Client Job Number: 34202
Field Location: TP-5 (18')
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 09-4737
Lab Sample Number: 14366

Date Sampled: 12/17/2009
Date Received: 12/22/2009
Date Analyzed: 01/08/2010

Compound	Results in ug / Kg	
Acenaphthene	ND< 363	
Acenaphthylene	ND< 363	
Acetophenone	ND< 363	
Anthracene	ND< 363	
Atrazine	ND< 363	
Benzaldehyde	ND< 363	
Benzo (a) anthracene	188	J
Benzo (a) pyrene	284	J
Benzo (b) fluoranthene	296	J
Benzo (g,h,i) perylene	273	J
Benzo (k) fluoranthene	183	J
Biphenyl	ND< 363	
Bis (2-chloroethyl) ether	ND< 363	
Bis (2-chloroethoxy) methane	ND< 363	
Bis (2-ethylhexyl) phthalate	ND< 363	
Bis (2-chloroisopropyl) ether	ND< 363	
4-Bromophenyl phenyl ether	ND< 363	
Butylbenzylphthalate	ND< 363	
Caprolactam	ND< 363	
Carbazole	ND< 363	
4-Chloroaniline	ND< 363	
4-Chloro-3-methylphenol	ND< 363	
2-Chloronaphthalene	ND< 363	
2-Chlorophenol	ND< 363	
4-Chlorophenyl phenyl ether	ND< 363	
Chrysene	251	J
Dibenz (a,h) anthracene	ND< 363	
Dibenzofuran	ND< 363	
3,3'-Dichlorobenzidine	ND< 363	
2,4-Dichlorophenol	ND< 363	
Diethyl phthalate	ND< 363	
2,4-Dimethylphenol	ND< 363	
Dimethyl phthalate	ND< 908	

Compound	Results in ug / Kg	
Di-n-butyl phthalate	ND< 363	
4,6-Dinitro-2-methylphenol	ND< 908	
2,4-Dinitrophenol	ND< 908	
2,4-Dinitrotoluene	ND< 363	
2,6-Dinitrotoluene	ND< 363	
Di-n-octylphthalate	ND< 363	
Fluoranthene	344	J
Fluorene	ND< 363	
Hexachlorobenzene	ND< 363	
Hexachlorobutadiene	ND< 363	
Hexachlorocyclopentadiene	ND< 363	
Hexachloroethane	ND< 363	
Indeno (1,2,3-cd) pyrene	240	J
Isophorone	ND< 363	
2-Methylnapthalene	ND< 363	
2-Methylphenol	ND< 363	
3&4-Methylphenol	ND< 363	
Naphthalene	ND< 363	
2-Nitroaniline	ND< 908	
3-Nitroaniline	ND< 908	
4-Nitroaniline	ND< 908	
Nitrobenzene	ND< 363	
2-Nitrophenol	ND< 363	
4-Nitrophenol	ND< 908	
N-Nitroso-di-n-propylamine	ND< 363	
N-Nitrosodiphenylamine	ND< 363	
Pentachlorophenol	ND< 908	
Phenanthrene	226	J
Phenol	ND< 363	
Pyrene	363	
2,4,5-Trichlorophenol	ND< 908	
2,4,6-Trichlorophenol	ND< 363	

ELAP Number 10958 Method: EPA 8270C Data File: S48546.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
Surrogate outliers indicate probable matrix interference

Signature:
Bruce Hoogesteger: Technical Director

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Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewalls Island IRM	**Lab Project Number:**	09-4737
		Lab Sample Number:	14366
Client Job Number:	34202		
Field Location:	TP-5 (18')	**Date Sampled:**	12/17/2009
Field ID Number:	N/A	**Date Received:**	12/22/2009
Sample Type:	Soil	**Date Analyzed:**	01/08/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Complex Hydrocarbon	N/A	18.02	1,480	N/A
Complex Hydrocarbon	N/A	19.87	552	N/A

ELAP Number 10958 Method: EPA 8270C Data File: S48546.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
Surrogate outliers indicate probable matrix interference

Signature: _____
Bruce Hoogesteger: Technical Director

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094737S4.XLS

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Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewalls Island IRM	**Lab Project Number:**	09-4737
		Lab Sample Number:	14367
Client Job Number:	34202		
Field Location:	TP-6 (30')	**Date Sampled:**	12/17/2009
Field ID Number:	N/A	**Date Received:**	12/22/2009
Sample Type:	Soil	**Date Analyzed:**	01/08/2010

Compound	Results in ug / Kg		Compound	Results in ug / Kg	
Acenaphthene	ND< 395		Di-n-butyl phthalate	ND< 395	
Acenaphthylene	ND< 395		4,6-Dinitro-2-methylphenol	ND< 988	
Acetophenone	ND< 395		2,4-Dinitrophenol	ND< 988	
Anthracene	ND< 395		2,4-Dinitrotoluene	ND< 395	
Atrazine	ND< 395		2,6-Dinitrotoluene	ND< 395	
Benzaldehyde	ND< 395		Di-n-octylphthalate	ND< 395	
Benzo (a) anthracene	277	J	Fluoranthene	321	J
Benzo (a) pyrene	485		Fluorene	ND< 395	
Benzo (b) fluoranthene	478		Hexachlorobenzene	ND< 395	
Benzo (g,h,i) perylene	442		Hexachlorobutadiene	ND< 395	
Benzo (k) fluoranthene	327	J	Hexachlorocyclopentadiene	ND< 395	
Biphenyl	ND< 395		Hexachloroethane	ND< 395	
Bis (2-chloroethyl) ether	ND< 395		Indeno (1,2,3-cd) pyrene	416	
Bis (2-chloroethoxy) methane	ND< 395		Isophorone	ND< 395	
Bis (2-ethylhexyl) phthalate	ND< 395		2-Methylnapthalene	ND< 395	
Bis (2-chloroisopropyl) ether	ND< 395		2-Methylphenol	ND< 395	
4-Bromophenyl phenyl ether	ND< 395		3&4-Methylphenol	ND< 395	
Butylbenzylphthalate	ND< 395		Naphthalene	ND< 395	
Caprolactam	ND< 395		2-Nitroaniline	ND< 988	
Carbazole	ND< 395		3-Nitroaniline	ND< 988	
4-Chloroaniline	ND< 395		4-Nitroaniline	ND< 988	
4-Chloro-3-methylphenol	ND< 395		Nitrobenzene	ND< 395	
2-Chloronaphthalene	ND< 395		2-Nitrophenol	ND< 395	
2-Chlorophenol	ND< 395		4-Nitrophenol	ND< 988	
4-Chlorophenyl phenyl ether	ND< 395		N-Nitroso-di-n-propylamine	ND< 395	
Chrysene	299	J	N-Nitrosodiphenylamine	ND< 395	
Dibenz (a,h) anthracene	ND< 395		Pentachlorophenol	ND< 988	
Dibenzofuran	ND< 395		Phenanthrene	ND< 395	
3,3'-Dichlorobenzidine	ND< 395		Phenol	ND< 395	
2,4-Dichlorophenol	ND< 395		Pyrene	321	J
Diethyl phthalate	ND< 395		2,4,5-Trichlorophenol	ND< 988	
2,4-Dimethylphenol	ND< 395		2,4,6-Trichlorophenol	ND< 395	
Dimethyl phthalate	ND< 988				

ELAP Number 10958 Method: EPA 8270C Data File: S48547.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:
Bruce Hoogesteger: Technical Director

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Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewalls Island IRM	**Lab Project Number:**	09-4737
		Lab Sample Number:	14367
Client Job Number:	34202		
Field Location:	TP-6 (30')	**Date Sampled:**	12/17/2009
Field ID Number:	N/A	**Date Received:**	12/22/2009
Sample Type:	Soil	**Date Analyzed:**	01/08/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Sulfur	N/A	15.9	1,390	N/A
Complex Hydrocabron	N/A	21.66	482	N/A

ELAP Number 10958 Method: EPA 8270C Data File: S48547.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:
Bruce Hoogesteger, Technical Director

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094737S5.XLS

PARADIGM ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site: City of Watertown Sewalls Island IRM
Client Job Number: 34202
Field Location: TP-9 (20.5')
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 09-4737
Lab Sample Number: 14368

Date Sampled: 12/17/2009
Date Received: 12/22/2009
Date Analyzed: 01/08/2010

Compound	Results in ug / Kg
Acenaphthene	ND< 305
Acenaphthylene	ND< 305
Acetophenone	ND< 305
Anthracene	172 J
Atrazine	ND< 305
Benzaldehyde	ND< 305
Benzo (a) anthracene	931
Benzo (a) pyrene	1,440
Benzo (b) fluoranthene	1,270
Benzo (g,h,i) perylene	1,320
Benzo (k) fluoranthene	998
Biphenyl	ND< 305
Bis (2-chloroethyl) ether	ND< 305
Bis (2-chloroethoxy) methane	ND< 305
Bis (2-ethylhexyl) phthalate	ND< 305
Bis (2-chloroisopropyl) ether	ND< 305
4-Bromophenyl phenyl ether	ND< 305
Butylbenzylphthalate	ND< 305
Caprolactam	ND< 305
Carbazole	ND< 305
4-Chloroaniline	ND< 305
4-Chloro-3-methylphenol	ND< 305
2-Chloronaphthalene	ND< 305
2-Chlorophenol	ND< 305
4-Chlorophenyl phenyl ether	ND< 305
Chrysene	1,010
Dibenz (a,h) anthracene	326
Dibenzofuran	ND< 305
3,3'-Dichlorobenzidine	ND< 305
2,4-Dichlorophenol	ND< 305
Diethyl phthalate	ND< 305
2,4-Dimethylphenol	ND< 305
Dimethyl phthalate	ND< 763

Compound	Results in ug / Kg
Di-n-butyl phthalate	ND< 305
4,6-Dinitro-2-methylphenol	ND< 763
2,4-Dinitrophenol	ND< 763
2,4-Dinitrotoluene	ND< 305
2,6-Dinitrotoluene	ND< 305
Di-n-octylphthalate	ND< 305
Fluoranthene	1,110
Fluorene	ND< 305
Hexachlorobenzene	ND< 305
Hexachlorobutadiene	ND< 305
Hexachlorocyclopentadiene	ND< 305
Hexachloroethane	ND< 305
Indeno (1,2,3-cd) pyrene	1,210
Isophorone	ND< 305
2-Methylnapthalene	ND< 305
2-Methylphenol	ND< 305
3&4-Methylphenol	ND< 305
Naphthalene	ND< 305
2-Nitroaniline	ND< 763
3-Nitroaniline	ND< 763
4-Nitroaniline	ND< 763
Nitrobenzene	ND< 305
2-Nitrophenol	ND< 305
4-Nitrophenol	ND< 763
N-Nitroso-di-n-propylamine	ND< 305
N-Nitrosodiphenylamine	ND< 305
Pentachlorophenol	ND< 763
Phenanthrene	675
Phenol	ND< 305
Pyrene	1,060
2,4,5-Trichlorophenol	ND< 763
2,4,6-Trichlorophenol	ND< 305

ELAP Number 10958 Method: EPA 8270C Data File: S48548.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

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Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewalls Island IRM	**Lab Project Number:**	09-4737
		Lab Sample Number:	14368
Client Job Number:	34202		
Field Location:	TP-9 (20.5')	**Date Sampled:**	12/17/2009
Field ID Number:	N/A	**Date Received:**	12/22/2009
Sample Type:	Soil	**Date Analyzed:**	01/08/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Complex Hydrocarbon	N/A	16.22	308	N/A
Complex Hydrocarbon	N/A	16.53	357	N/A
Complex Hydrocarbon	N/A	16.88	726	N/A
Complex Hydrocarbon	N/A	16.98	332	N/A
Complex Hydrocarbon	N/A	17.69	683	N/A
Complex Hydrocarbon	N/A	17.85	372	N/A
Complex Hydrocarbon	N/A	17.92	512	N/A
Complex Hydrocarbon	N/A	17.97	336	N/A
Complex Hydrocarbon	N/A	18.56	537	N/A
Complex Hydrocarbon	N/A	18.64	872	N/A
Complex Hydrocarbon	N/A	18.90	750	N/A
Complex Hydrocarbon	N/A	19.11	1,180	N/A
Complex Hydrocarbon	N/A	20.06	1,290	N/A
Complex Hydrocarbon	N/A	20.57	7,770	N/A
Complex Hydrocarbon	N/A	21.12	390	N/A
Complex Hydrocarbon	N/A	21.40	442	N/A
Complex Hydrocarbon	N/A	21.66	1,160	N/A

ELAP Number 10958 Method: EPA 8270C Data File: S48548.D

Comments: ND denotes Non Detect
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Signature: _____
Bruce Hoogesteger: Technical Director

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Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site: City of Watertown Sewalls Island IRM
Client Job Number: 34202
Field Location: TP-11 (20')
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 09-4737
Lab Sample Number: 14369

Date Sampled: 12/17/2009
Date Received: 12/22/2009
Date Analyzed: 01/08/2010

Compound	Results in ug / Kg	
Acenaphthene	ND< 312	
Acenaphthylene	ND< 312	
Acetophenone	ND< 312	
Anthracene	ND< 312	
Atrazine	ND< 312	
Benzaldehyde	ND< 312	
Benzo (a) anthracene	320	
Benzo (a) pyrene	408	
Benzo (b) fluoranthene	373	
Benzo (g,h,i) perylene	331	
Benzo (k) fluoranthene	257	J
Biphenyl	ND< 312	
Bis (2-chloroethyl) ether	ND< 312	
Bis (2-chloroethoxy) methane	ND< 312	
Bis (2-ethylhexyl) phthalate	ND< 312	
Bis (2-chloroisopropyl) ether	ND< 312	
4-Bromophenyl phenyl ether	ND< 312	
Butylbenzylphthalate	ND< 312	
Caprolactam	ND< 312	
Carbazole	ND< 312	
4-Chloroaniline	ND< 312	
4-Chloro-3-methylphenol	ND< 312	
2-Chloronaphthalene	ND< 312	
2-Chlorophenol	ND< 312	
4-Chlorophenyl phenyl ether	ND< 312	
Chrysene	346	
Dibenz (a,h) anthracene	ND< 312	
Dibenzofuran	ND< 312	
3,3'-Dichlorobenzidine	ND< 312	
2,4-Dichlorophenol	ND< 312	
Diethyl phthalate	ND< 312	
2,4-Dimethylphenol	ND< 312	
Dimethyl phthalate	ND< 781	

Compound	Results in ug / Kg	
Di-n-butyl phthalate	ND< 312	
4,6-Dinitro-2-methylphenol	ND< 781	
2,4-Dinitrophenol	ND< 781	
2,4-Dinitrotoluene	ND< 312	
2,6-Dinitrotoluene	ND< 312	
Di-n-octylphthalate	ND< 312	
Fluoranthene	571	
Fluorene	ND< 312	
Hexachlorobenzene	ND< 312	
Hexachlorobutadiene	ND< 312	
Hexachlorocyclopentadiene	ND< 312	
Hexachloroethane	ND< 312	
Indeno (1,2,3-cd) pyrene	284	J
Isophorone	ND< 312	
2-Methylnapthalene	ND< 312	
2-Methylphenol	ND< 312	
3&4-Methylphenol	ND< 312	
Naphthalene	ND< 312	
2-Nitroaniline	ND< 781	
3-Nitroaniline	ND< 781	
4-Nitroaniline	ND< 781	
Nitrobenzene	ND< 312	
2-Nitrophenol	ND< 312	
4-Nitrophenol	ND< 781	
N-Nitroso-di-n-propylamine	ND< 312	
N-Nitrosodiphenylamine	ND< 312	
Pentachlorophenol	ND< 781	
Phenanthrene	345	
Phenol	ND< 312	
Pyrene	552	
2,4,5-Trichlorophenol	ND< 781	
2,4,6-Trichlorophenol	ND< 312	

ELAP Number 10958 Method: EPA 8270C Data File: S48549.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:
Bruce Hoogesteger: Technical Director

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Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewalls Island IRM	**Lab Project Number:**	09-4737
		Lab Sample Number:	14369
Client Job Number:	34202		
Field Location:	TP-11 (20')	**Date Sampled:**	12/17/2009
Field ID Number:	N/A	**Date Received:**	12/22/2009
Sample Type:	Soil	**Date Analyzed:**	01/08/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Complex Hydrocarbon	N/A	15.08	312	N/A
Complex Hydrocarbon	N/A	16.87	415	N/A

ELAP Number 10958 Method: EPA 8270C Data File: S48549.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:
Bruce Hoogesteger: Technical Director

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Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	09-4803
		Lab Sample Number:	14546
Client Job Number:	34202		
Field Location:	TP-13 (24-25')	**Date Sampled:**	12/22/2009
Field ID Number:	N/A	**Date Received:**	12/28/2009
Sample Type:	Soil	**Date Analyzed:**	01/12/2010

Compound	Results in ug / Kg	Compound	Results in ug / Kg
Acenaphthene	1,510	2,4-Dinitrotoluene	ND< 519
Acenaphthylene	626	2,6-Dinitrotoluene	ND< 519
Anthracene	1,270	Di-n-octylphthalate	ND< 519
Benzo (a) anthracene	1,010	Fluoranthene	1,950
Benzo (a) pyrene	863	Fluorene	1,270
Benzo (b) fluoranthene	597	Hexachlorobenzene	ND< 519
Benzo (g,h,i) perylene	J 409	Hexachlorobutadiene	ND< 519
Benzo (k) fluoranthene	J 434	Hexachlorocyclopentadiene	ND< 519
Bis (2-chloroethyl) ether	ND< 519	Hexachloroethane	ND< 519
Bis (2-chloroethoxy) methane	ND< 519	Indeno (1,2,3-cd) pyrene	J 274
Bis (2-ethylhexyl) phthalate	ND< 519	Isophorone	ND< 519
4-Bromophenyl phenyl ether	ND< 519	2-Methylnapthalene	2,400
Butylbenzylphthalate	ND< 519	2-Methylphenol	ND< 519
4-Chloroaniline	ND< 519	3&4-Methylphenol	ND< 519
4-Chloro-3-methylphenol	ND< 519	Naphthalene	1,760
2-Chloronaphthalene	ND< 519	2-Nitroaniline	ND< 1,300
2-Chlorophenol	ND< 519	3-Nitroaniline	ND< 1,300
4-Chlorophenyl phenyl ether	ND< 519	4-Nitroaniline	ND< 1,300
Chrysene	980	Nitrobenzene	ND< 519
Dibenz (a,h) anthracene	ND< 519	2-Nitrophenol	ND< 519
Dibenzofuran	J 430	4-Nitrophenol	ND< 1,300
3,3'-Dichlorobenzidine	ND< 519	N-Nitroso-di-n-propylamine	ND< 519
2,4-Dichlorophenol	ND< 519	N-Nitrosodiphenylamine	ND< 519
Diethyl phthalate	ND< 519	Pentachlorophenol	ND< 1,300
2,4-Dimethylphenol	ND< 519	Phenanthrene	5,430
Dimethyl phthalate	ND< 1,300	Phenol	ND< 519
Di-n-butyl phthalate	ND< 519	Pyrene	2,600
4,6-Dinitro-2-methylphenol	ND< 1,300	2,4,5-Trichlorophenol	ND< 1,300
2,4-Dinitrophenol	ND< 1,300	2,4,6-Trichlorophenol	ND< 519

ELAP Number 10958 Method: EPA 8270C Data File: S48677.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

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Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	09-4803
		Lab Sample Number:	14546
Client Job Number:	34202		
Field Location:	TP-13 (24-25')	**Date Sampled:**	12/22/2009
Field ID Number:	N/A	**Date Received:**	12/28/2009
Sample Type:	Soil	**Date Analyzed:**	01/12/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Unknown PAH	N/A	10.43	4,690	94
Unknown PAH	N/A	11.22	1,770	98
Unknown PAH	N/A	11.35	1,920	97
Unknown PAH	N/A	12.36	1,140	98
Unknown Alkane	N/A	13.37	1,560	87
Unknown PAH	N/A	13.56	1,300	97
Dibenzothiophene	000132-65-0	13.91	1,190	97
Dibenzothiophene, 3-methyl	016587-52-3	14.60	1,340	92
Unknown PAH	N/A	14.87	1,890	96
Unknown PAH	N/A	14.91	2,110	96
Unknown PAH	N/A	15.04	2,690	52
Unknown PAH	N/A	15.35	2,080	83
Unknown PAH	N/A	15.64	1,020	87
Octaatomic sulfur	010544-50-0	15.89	1,730	90
Unknown PAH	N/A	16.11	1,500	96
Unknown PAH	N/A	16.86	2,470	96
Unknown PAH	N/A	17.02	1,060	95
Unknown PAH	N/A	17.21	2,220	93
Unknown PAH	N/A	17.90	1,350	55
Unknown PAH	N/A	21.12	1,030	66

ELAP Number 10958 Method: EPA 8270C Data File: S48677.D

Comments: ND denotes Non Detect
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Signature: _____
Bruce Hoogesteger: Technical Director

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Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site: City of Watertown
Sewall's Island IRM
Client Job Number: 34202
Field Location: TP-14 (25-27')
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 09-4803
Lab Sample Number: 14548

Date Sampled: 12/22/2009
Date Received: 12/28/2009
Date Analyzed: 01/12/2010

Compound	Results in ug / Kg
Acenaphthene	3,330
Acenaphthylene	1,770
Anthracene	2,720
Benzo (a) anthracene	1,770
Benzo (a) pyrene	1,750
Benzo (b) fluoranthene	1,170
Benzo (g,h,i) perylene	895
Benzo (k) fluoranthene	795
Bis (2-chloroethyl) ether	ND< 464
Bis (2-chloroethoxy) methane	ND< 464
Bis (2-ethylhexyl) phthalate	ND< 464
4-Bromophenyl phenyl ether	ND< 464
Butylbenzylphthalate	ND< 464
4-Chloroaniline	ND< 464
4-Chloro-3-methylphenol	ND< 464
2-Chloronaphthalene	ND< 464
2-Chlorophenol	ND< 464
4-Chlorophenyl phenyl ether	ND< 464
Chrysene	1,650
Dibenz (a,h) anthracene	ND< 464
Dibenzofuran	811
3,3'-Dichlorobenzidine	ND< 464
2,4-Dichlorophenol	ND< 464
Diethyl phthalate	ND< 464
2,4-Dimethylphenol	ND< 464
Dimethyl phthalate	ND< 1,160
Di-n-butyl phthalate	ND< 464
4,6-Dinitro-2-methylphenol	ND< 1,160
2,4-Dinitrophenol	ND< 1,160

Compound	Results in ug / Kg
2,4-Dinitrotoluene	ND< 464
2,6-Dinitrotoluene	ND< 464
Di-n-octylphthalate	ND< 464
Fluoranthene	3,330
Fluorene	1,930
Hexachlorobenzene	ND< 464
Hexachlorobutadiene	ND< 464
Hexachlorocyclopentadiene	ND< 464
Hexachloroethane	ND< 464
Indeno (1,2,3-cd) pyrene	725
Isophorone	ND< 464
2-Methylnapthalene	2,150
2-Methylphenol	ND< 464
3&4-Methylphenol	ND< 464
Naphthalene	2,210
2-Nitroaniline	ND< 1,160
3-Nitroaniline	ND< 1,160
4-Nitroaniline	ND< 1,160
Nitrobenzene	ND< 464
2-Nitrophenol	ND< 464
4-Nitrophenol	ND< 1,160
N-Nitroso-di-n-propylamine	ND< 464
N-Nitrosodiphenylamine	ND< 464
Pentachlorophenol	ND< 1,160
Phenanthrene	8,770
Phenol	ND< 464
Pyrene	4,600
2,4,5-Trichlorophenol	ND< 1,160
2,4,6-Trichlorophenol	ND< 464

ELAP Number 10958 Method: EPA 8270C Data File: S48679.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:
Bruce Hoogesteger: Technical Director

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Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	09-4803
		Lab Sample Number:	14548
Client Job Number:	34202		
Field Location:	TP-14 (25-27')	**Date Sampled:**	12/22/2009
Field ID Number:	N/A	**Date Received:**	12/28/2009
Sample Type:	Soil	**Date Analyzed:**	01/12/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Unknown PAH	N/A	10.43	9,950	N/A
Unknown PAH	N/A	11.22	3,360	N/A
Unknown PAH	N/A	11.35	3,110	N/A
Unknown Alkane	N/A	13.37	3,240	N/A
Unknown PAH	N/A	13.64	3,450	N/A
3-methyl dibenzothiophene	N/A	14.60	2,350	N/A
Unknown PAH	N/A	14.87	3,400	N/A
Unknown PAH	N/A	14.91	3,900	N/A
Unknown PAH	N/A	15.04	5,190	N/A
Unknown PAH	N/A	15.35	3,060	N/A
Unknown PAH	N/A	15.81	5,210	N/A
Unknown	N/A	15.89	6,290	N/A
Unknown PAH	N/A	16.12	3,670	N/A
Unknown PAH	N/A	16.87	2,860	N/A
Unknown PAH	N/A	16.97	2,170	N/A
Unknown PAH	N/A	17.03	2,920	N/A
Unknown PAH	N/A	17.18	2,570	N/A
Unknown PAH	N/A	17.22	2,820	N/A
Unknown	N/A	17.32	2,840	N/A
Unknown PAH	N/A	18.89	8,570	N/A

ELAP Number 10958 Method: EPA 8270C Data File: S48679.D

Comments: ND denotes Non Detect
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Bruce Hoogesteger: Technical Director

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Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site: City of Watertown Sewall's Island IRM
Client Job Number: 34202
Field Location: TP-15 (11')
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 09-4803
Lab Sample Number: 14549
Date Sampled: 12/22/2009
Date Received: 12/28/2009
Date Analyzed: 01/13/2010

Compound	Results in ug / Kg	Compound	Results in ug / Kg
Acenaphthene	ND< 1,570	2,4-Dinitrotoluene	ND< 1,570
Acenaphthylene	ND< 1,570	2,6-Dinitrotoluene	ND< 1,570
Anthracene	J 1,020	Di-n-octylphthalate	ND< 1,570
Benzo (a) anthracene	5,970	Fluoranthene	6,830
Benzo (a) pyrene	9,740	Fluorene	ND< 1,570
Benzo (b) fluoranthene	7,990	Hexachlorobenzene	ND< 1,570
Benzo (g,h,i) perylene	10,400	Hexachlorobutadiene	ND< 1,570
Benzo (k) fluoranthene	7,900	Hexachlorocyclopentadiene	ND< 1,570
Bis (2-chloroethyl) ether	ND< 1,570	Hexachloroethane	ND< 1,570
Bis (2-chloroethoxy) methane	ND< 1,570	Indeno (1,2,3-cd) pyrene	7,750
Bis (2-ethylhexyl) phthalate	ND< 1,570	Isophorone	ND< 1,570
4-Bromophenyl phenyl ether	ND< 1,570	2-Methylnapthalene	ND< 1,570
Butylbenzylphthalate	ND< 1,570	2-Methylphenol	ND< 1,570
4-Chloroaniline	ND< 1,570	3&4-Methylphenol	ND< 1,570
4-Chloro-3-methylphenol	ND< 1,570	Naphthalene	ND< 1,570
2-Chloronaphthalene	ND< 1,570	2-Nitroaniline	ND< 3,940
2-Chlorophenol	ND< 1,570	3-Nitroaniline	ND< 3,940
4-Chlorophenyl phenyl ether	ND< 1,570	4-Nitroaniline	ND< 3,940
Chrysene	6,830	Nitrobenzene	ND< 1,570
Dibenz (a,h) anthracene	3,470	2-Nitrophenol	ND< 1,570
Dibenzofuran	ND< 1,570	4-Nitrophenol	ND< 3,940
3,3'-Dichlorobenzidine	ND< 1,570	N-Nitroso-di-n-propylamine	ND< 1,570
2,4-Dichlorophenol	ND< 1,570	N-Nitrosodiphenylamine	ND< 1,570
Diethyl phthalate	ND< 1,570	Pentachlorophenol	ND< 3,940
2,4-Dimethylphenol	ND< 1,570	Phenanthrene	3,420
Dimethyl phthalate	ND< 3,940	Phenol	ND< 1,570
Di-n-butyl phthalate	ND< 1,570	Pyrene	6,270
4,6-Dinitro-2-methylphenol	ND< 3,940	2,4,5-Trichlorophenol	ND< 3,940
2,4-Dinitrophenol	ND< 3,940	2,4,6-Trichlorophenol	ND< 1,570

ELAP Number 10958 Method: EPA 8270C Data File: S48718.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:
Bruce Hoogesteger: Technical Director

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Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	09-4803
		Lab Sample Number:	14549
Client Job Number:	34202		
Field Location:	TP-15 (11')	**Date Sampled:**	12/22/2009
Field ID Number:	N/A	**Date Received:**	12/28/2009
Sample Type:	Soil	**Date Analyzed:**	01/13/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Unknown PAH	N/A	16.70	1,910	N/A
Unknown PAH	N/A	16.86	6,980	N/A
Unknown PAH	N/A	16.96	3,060	N/A
Unknown PAH	N/A	17.02	4,560	N/A
Unknown PAH	N/A	17.21	2,630	N/A
Unknown PAH	N/A	17.56	1,920	N/A
Unknown PAH	N/A	17.68	3,390	N/A
Unknown PAH	N/A	17.84	2,710	N/A
Unknown PAH	N/A	17.91	4,910	N/A
Unknown PAH	N/A	18.41	3,630	N/A
Unknown PAH	N/A	18.56	3,000	N/A
Unknown PAH	N/A	18.63	7,650	N/A
Unknown PAH	N/A	18.89	6,370	N/A
Unknown	N/A	19.03	2,590	N/A
Unknown PAH	N/A	19.87	3,930	N/A
Unknown PAH	N/A	20.05	12,000	N/A
Unknown PAH	N/A	20.33	5,670	N/A
Unknown PAH	N/A	21.12	3,750	N/A
Unknown PAH	N/A	21.35	1,930	N/A
Unknown PAH	N/A	21.39	2,750	N/A

ELAP Number 10958 Method: EPA 8270C Data File: S48718.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

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Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site: City of Watertown Sewall's Island IRM
Client Job Number: 34202
Field Location: TP-16 (17')
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 09-4803
Lab Sample Number: 14550
Date Sampled: 12/23/2009
Date Received: 12/28/2009
Date Analyzed: 01/12/2010

Compound	Results in ug / Kg	
Acenaphthene	ND< 359	M
Acenaphthylene	ND< 359	
Anthracene	ND< 359	
Benzo (a) anthracene	J 331	
Benzo (a) pyrene	413	
Benzo (b) fluoranthene	443	
Benzo (g,h,i) perylene	436	
Benzo (k) fluoranthene	J 273	
Bis (2-chloroethyl) ether	ND< 359	
Bis (2-chloroethoxy) methane	ND< 359	
Bis (2-ethylhexyl) phthalate	ND< 359	
4-Bromophenyl phenyl ether	ND< 359	
Butylbenzylphthalate	ND< 359	
4-Chloroaniline	ND< 359	
4-Chloro-3-methylphenol	ND< 359	M
2-Chloronaphthalene	ND< 359	
2-Chlorophenol	ND< 359	M
4-Chlorophenyl phenyl ether	ND< 359	
Chrysene	J 354	
Dibenz (a,h) anthracene	ND< 359	
Dibenzofuran	ND< 359	
3,3'-Dichlorobenzidine	ND< 359	
2,4-Dichlorophenol	ND< 359	M
Diethyl phthalate	ND< 359	
2,4-Dimethylphenol	ND< 359	M
Dimethyl phthalate	ND< 897	
Di-n-butyl phthalate	ND< 359	
4,6-Dinitro-2-methylphenol	ND< 897	
2,4-Dinitrophenol	ND< 897	

Compound	Results in ug / Kg	
2,4-Dinitrotoluene	ND< 359	M
2,6-Dinitrotoluene	ND< 359	
Di-n-octylphthalate	ND< 359	
Fluoranthene	507	
Fluorene	ND< 359	
Hexachlorobenzene	ND< 359	
Hexachlorobutadiene	ND< 359	
Hexachlorocyclopentadiene	ND< 359	
Hexachloroethane	ND< 359	
Indeno (1,2,3-cd) pyrene	J 292	
Isophorone	ND< 359	
2-Methylnapthalene	ND< 359	
2-Methylphenol	ND< 359	
3&4-Methylphenol	ND< 359	
Naphthalene	ND< 359	
2-Nitroaniline	ND< 897	
3-Nitroaniline	ND< 897	
4-Nitroaniline	ND< 897	
Nitrobenzene	ND< 359	
2-Nitrophenol	ND< 359	
4-Nitrophenol	ND< 897	M
N-Nitroso-di-n-propylamine	ND< 359	M
N-Nitrosodiphenylamine	ND< 359	
Pentachlorophenol	ND< 897	
Phenanthrene	J 295	
Phenol	ND< 359	M
Pyrene	424	
2,4,5-Trichlorophenol	ND< 897	
2,4,6-Trichlorophenol	ND< 359	

ELAP Number 10958 Method: EPA 8270C Data File: S48681.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
Surrogate outliers indicate probable matrix interference

Signature: _____
Bruce Hoogesteger: Technical Director

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Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	09-4803
		Lab Sample Number:	14550
Client Job Number:	34202		
Field Location:	TP-16 (17')	**Date Sampled:**	12/23/2009
Field ID Number:	N/A	**Date Received:**	12/28/2009
Sample Type:	Soil	**Date Analyzed:**	01/12/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Unknown Alkane	N/A	7.16	674	N/A
Unknown Alkane	N/A	8.29	508	N/A
Unknown	N/A	13.69	571	N/A
Octaatomic Sulfur	10544-50-0	15.91	1,890	94
Unknown PAH	N/A	16.14	1,140	N/A
Unknown PAH	N/A	19.99	1,430	N/A

ELAP Number 10958 Method: EPA 8270C Data File: S48681.D

Comments: ND denotes Non Detect
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Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site: City of Watertown
Sewall's Island IRM
Client Job Number: 34202
Field Location: TP-18 (22')
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 09-4803
Lab Sample Number: 14551

Date Sampled: 12/23/2009
Date Received: 12/28/2009
Date Analyzed: 01/12/2010

Compound	Results in ug / Kg	Compound	Results in ug / Kg
Acenaphthene	ND< 449	2,4-Dinitrotoluene	ND< 449
Acenaphthylene	ND< 449	2,6-Dinitrotoluene	ND< 449
Anthracene	ND< 449	Di-n-octylphthalate	ND< 449
Benzo (a) anthracene	ND< 449	Fluoranthene	ND< 449
Benzo (a) pyrene	ND< 449	Fluorene	ND< 449
Benzo (b) fluoranthene	ND< 449	Hexachlorobenzene	ND< 449
Benzo (g,h,i) perylene	ND< 449	Hexachlorobutadiene	ND< 449
Benzo (k) fluoranthene	ND< 449	Hexachlorocyclopentadiene	ND< 449
Bis (2-chloroethyl) ether	ND< 449	Hexachloroethane	ND< 449
Bis (2-chloroethoxy) methane	ND< 449	Indeno (1,2,3-cd) pyrene	ND< 449
Bis (2-ethylhexyl) phthalate	ND< 449	Isophorone	ND< 449
4-Bromophenyl phenyl ether	ND< 449	2-Methylnapthalene	J 361
Butylbenzylphthalate	ND< 449	2-Methylphenol	ND< 449
4-Chloroaniline	ND< 449	3&4-Methylphenol	ND< 449
4-Chloro-3-methylphenol	ND< 449	Naphthalene	871
2-Chloronaphthalene	ND< 449	2-Nitroaniline	ND< 1,120
2-Chlorophenol	ND< 449	3-Nitroaniline	ND< 1,120
4-Chlorophenyl phenyl ether	ND< 449	4-Nitroaniline	ND< 1,120
Chrysene	ND< 449	Nitrobenzene	ND< 449
Dibenz (a,h) anthracene	ND< 449	2-Nitrophenol	ND< 449
Dibenzofuran	ND< 449	4-Nitrophenol	ND< 1,120
3,3'-Dichlorobenzidine	ND< 449	N-Nitroso-di-n-propylamine	ND< 449
2,4-Dichlorophenol	ND< 449	N-Nitrosodiphenylamine	ND< 449
Diethyl phthalate	ND< 449	Pentachlorophenol	ND< 1,120
2,4-Dimethylphenol	ND< 449	Phenanthrene	ND< 449
Dimethyl phthalate	ND< 1,120	Phenol	ND< 449
Di-n-butyl phthalate	ND< 449	Pyrene	ND< 449
4,6-Dinitro-2-methylphenol	ND< 1,120	2,4,5-Trichlorophenol	ND< 1,120
2,4-Dinitrophenol	ND< 1,120	2,4,6-Trichlorophenol	ND< 449

ELAP Number 10958 Method: EPA 8270C Data File: S48684.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
Surrogate outliers indicate probable matrix interference

Signature:
Bruce Hoogesteger: Technical Director

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Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	09-4803
		Lab Sample Number:	14551
Client Job Number:	34202		
Field Location:	TP-18 (22')	**Date Sampled:**	12/23/2009
Field ID Number:	N/A	**Date Received:**	12/28/2009
Sample Type:	Soil	**Date Analyzed:**	01/12/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
None Found	N/A	N/A	ND< 449	N/A

ELAP Number 10958 Method: EPA 8270C Data File: S48684.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
Surrogate outliers indicate probable matrix interference

Signature: _____
Bruce Hoogesteger: Technical Director

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PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site: City of Watertown
Sewall's Island IRM
Client Job Number: 34202
Field Location: TP-19 (23')
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 09-4832
Lab Sample Number: 14618
Date Sampled: 12/28/2009
Date Received: 12/31/2009
Date Analyzed: 01/12/2010

Compound	Results in ug / Kg
Acenaphthene	ND< 351
Acenaphthylene	ND< 351
Anthracene	ND< 351
Benzo (a) anthracene	J 234
Benzo (a) pyrene	J 258
Benzo (b) fluoranthene	J 314
Benzo (g,h,i) perylene	J 234
Benzo (k) fluoranthene	J 194
Bis (2-chloroethyl) ether	ND< 351
Bis (2-chloroethoxy) methane	ND< 351
Bis (2-ethylhexyl) phthalate	ND< 351
4-Bromophenyl phenyl ether	ND< 351
Butylbenzylphthalate	ND< 351
4-Chloroaniline	ND< 351
4-Chloro-3-methylphenol	ND< 351
2-Chloronaphthalene	ND< 351
2-Chlorophenol	ND< 351
4-Chlorophenyl phenyl ether	ND< 351
Chrysene	J 266
Dibenz (a,h) anthracene	ND< 351
Dibenzofuran	ND< 351
3,3'-Dichlorobenzidine	ND< 351
2,4-Dichlorophenol	ND< 351
Diethyl phthalate	ND< 351
2,4-Dimethylphenol	ND< 351
Dimethyl phthalate	ND< 878
Di-n-butyl phthalate	ND< 351
4,6-Dinitro-2-methylphenol	ND< 878
2,4-Dinitrophenol	ND< 878

Compound	Results in ug / Kg
2,4-Dinitrotoluene	ND< 351
2,6-Dinitrotoluene	ND< 351
Di-n-octylphthalate	ND< 351
Fluoranthene	358
Fluorene	ND< 351
Hexachlorobenzene	ND< 351
Hexachlorobutadiene	ND< 351
Hexachlorocyclopentadiene	ND< 351
Hexachloroethane	ND< 351
Indeno (1,2,3-cd) pyrene	ND< 351
Isophorone	ND< 351
2-Methylnapthalene	ND< 351
2-Methylphenol	ND< 351
3&4-Methylphenol	ND< 351
Naphthalene	ND< 351
2-Nitroaniline	ND< 878
3-Nitroaniline	ND< 878
4-Nitroaniline	ND< 878
Nitrobenzene	ND< 351
2-Nitrophenol	ND< 351
4-Nitrophenol	ND< 878
N-Nitroso-di-n-propylamine	ND< 351
N-Nitrosodiphenylamine	ND< 351
Pentachlorophenol	ND< 878
Phenanthrene	J 213
Phenol	ND< 351
Pyrene	J 306
2,4,5-Trichlorophenol	ND< 878
2,4,6-Trichlorophenol	ND< 351

ELAP Number 10958 Method: EPA 8270C Data File: S48685.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
Surrogate outliers indicate probable matrix interference

Signature: (for)
Bruce Hoogestager, Technical Director

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094832S1.XLS

PARADIGM
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Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	09-4832
		Lab Sample Number:	14618
Client Job Number:	34202		
Field Location:	TP-19 (23')	**Date Sampled:**	12/28/2009
Field ID Number:	N/A	**Date Received:**	12/31/2009
Sample Type:	Soil	**Date Analyzed:**	01/12/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Unknown	N/A	15.89	1,240	47
Unknown	N/A	16.07	508	70
Unknown	N/A	16.22	1,590	30
Unknown	N/A	17.33	13,200	50
Unknown	N/A	17.70	9,040	78
Unknown Alkane	N/A	18.18	1,400	95
Unknown Alkane	N/A	19.19	15,200	96
Unknown Ester	N/A	19.59	3,130	72

ELAP Number 10958 Method: EPA 8270C Data File: S48685.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
Surrogate outliers indicate probable matrix interference

Signature: (for)
Bruce Hoogesteger: Technical Director

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Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site: City of Watertown
Sewall's Island IRM
Client Job Number: 34202
Field Location: TP-22 (30')
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 09-4832
Lab Sample Number: 14619

Date Sampled: 12/29/2009
Date Received: 12/31/2009
Date Analyzed: 01/12/2010

Compound	Results in ug / Kg	Compound	Results in ug / Kg
Acenaphthene	ND< 441	2,4-Dinitrotoluene	ND< 441
Acenaphthylene	ND< 441	2,6-Dinitrotoluene	ND< 441
Anthracene	ND< 441	Di-n-octylphthalate	ND< 441
Benzo (a) anthracene	ND< 441	Fluoranthene	ND< 441
Benzo (a) pyrene	ND< 441	Fluorene	ND< 441
Benzo (b) fluoranthene	ND< 441	Hexachlorobenzene	ND< 441
Benzo (g,h,i) perylene	ND< 441	Hexachlorobutadiene	ND< 441
Benzo (k) fluoranthene	ND< 441	Hexachlorocyclopentadiene	ND< 441
Bis (2-chloroethyl) ether	ND< 441	Hexachloroethane	ND< 441
Bis (2-chloroethoxy) methane	ND< 441	Indeno (1,2,3-cd) pyrene	ND< 441
Bis (2-ethylhexyl) phthalate	ND< 441	Isophorone	ND< 441
4-Bromophenyl phenyl ether	ND< 441	2-Methylnapthalene	ND< 441
Butylbenzylphthalate	ND< 441	2-Methylphenol	ND< 441
4-Chloroaniline	ND< 441	3&4-Methylphenol	ND< 441
4-Chloro-3-methylphenol	ND< 441	Naphthalene	ND< 441
2-Chloronaphthalene	ND< 441	2-Nitroaniline	ND< 1,100
2-Chlorophenol	ND< 441	3-Nitroaniline	ND< 1,100
4-Chlorophenyl phenyl ether	ND< 441	4-Nitroaniline	ND< 1,100
Chrysene	ND< 441	Nitrobenzene	ND< 441
Dibenz (a,h) anthracene	ND< 441	2-Nitrophenol	ND< 441
Dibenzofuran	ND< 441	4-Nitrophenol	ND< 1,100
3,3'-Dichlorobenzidine	ND< 441	N-Nitroso-di-n-propylamine	ND< 441
2,4-Dichlorophenol	ND< 441	N-Nitrosodiphenylamine	ND< 441
Diethyl phthalate	ND< 441	Pentachlorophenol	ND< 1,100
2,4-Dimethylphenol	ND< 441	Phenanthrene	ND< 441
Dimethyl phthalate	ND< 1,100	Phenol	ND< 441
Di-n-butyl phthalate	ND< 441	Pyrene	ND< 441
4,6-Dinitro-2-methylphenol	ND< 1,100	2,4,5-Trichlorophenol	ND< 1,100
2,4-Dinitrophenol	ND< 1,100	2,4,6-Trichlorophenol	ND< 441

ELAP Number 10958 Method: EPA 8270C Data File: S48686.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: (for)
Bruce Hoogesteger, Technical Director

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PARADIGM
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Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	09-4832
		Lab Sample Number:	14619
Client Job Number:	34202		
Field Location:	TP-22 (30')	**Date Sampled:**	12/29/2009
Field ID Number:	N/A	**Date Received:**	12/31/2009
Sample Type:	Soil	**Date Analyzed:**	01/12/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Cyclic octaatomic sulfur	010544-50-0	15.89	601	95
Unknown	N/A	16.32	3,260	11
Unknown	N/A	18.18	1,760	8

ELAP Number 10958 Method: EPA 8270C Data File: S48686.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: (for)
Bruce Hoogesteger: Technical Director

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Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	09-4832
		Lab Sample Number:	14622
Client Job Number:	34202		
Field Location:	TP-23 (23')	**Date Sampled:**	12/30/2009
Field ID Number:	N/A	**Date Received:**	12/31/2009
Sample Type:	Soil	**Date Analyzed:**	01/13/2010

Compound	Results in ug / Kg	
Acenaphthene	J 2,810	M
Acenaphthylene	ND< 3,810	
Anthracene	J 3,510	
Benzo (a) anthracene	10,300	
Benzo (a) pyrene	11,000	
Benzo (b) fluoranthene	10,000	
Benzo (g,h,i) perylene	7,980	
Benzo (k) fluoranthene	8,090	
Bis (2-chloroethyl) ether	ND< 3,810	
Bis (2-chloroethoxy) methane	ND< 3,810	
Bis (2-ethylhexyl) phthalate	ND< 3,810	
4-Bromophenyl phenyl ether	ND< 3,810	
Butylbenzylphthalate	ND< 3,810	
4-Chloroaniline	ND< 3,810	
4-Chloro-3-methylphenol	ND< 3,810	M
2-Chloronaphthalene	ND< 3,810	
2-Chlorophenol	ND< 3,810	M
4-Chlorophenyl phenyl ether	ND< 3,810	
Chrysene	11,900	
Dibenz (a,h) anthracene	J 3,350	
Dibenzofuran	ND< 3,810	M
3,3'-Dichlorobenzidine	ND< 3,810	
2,4-Dichlorophenol	ND< 3,810	M
Diethyl phthalate	ND< 3,810	
2,4-Dimethylphenol	ND< 3,810	M
Dimethyl phthalate	ND< 9,520	
Di-n-butyl phthalate	ND< 3,810	
4,6-Dinitro-2-methylphenol	ND< 9,520	
2,4-Dinitrophenol	ND< 9,520	

Compound	Results in ug / Kg	
2,4-Dinitrotoluene	ND< 3,810	M
2,6-Dinitrotoluene	ND< 3,810	
Di-n-octylphthalate	ND< 3,810	
Fluoranthene	26,700	M
Fluorene	J 2,400	
Hexachlorobenzene	ND< 3,810	
Hexachlorobutadiene	ND< 3,810	
Hexachlorocyclopentadiene	ND< 3,810	
Hexachloroethane	ND< 3,810	
Indeno (1,2,3-cd) pyrene	5,990	
Isophorone	ND< 3,810	
2-Methylnapthalene	ND< 3,810	
2-Methylphenol	ND< 3,810	
3&4-Methylphenol	ND< 3,810	
Naphthalene	ND< 3,810	
2-Nitroaniline	ND< 9,520	
3-Nitroaniline	ND< 9,520	
4-Nitroaniline	ND< 9,520	
Nitrobenzene	ND< 3,810	
2-Nitrophenol	ND< 3,810	M
4-Nitrophenol	ND< 9,520	M
N-Nitroso-di-n-propylamine	ND< 3,810	M
N-Nitrosodiphenylamine	ND< 3,810	
Pentachlorophenol	ND< 9,520	M
Phenanthrene	25,000	
Phenol	ND< 3,810	M
Pyrene	20,300	M
2,4,5-Trichlorophenol	ND< 9,520	
2,4,6-Trichlorophenol	ND< 3,810	M

ELAP Number 10958 Method: EPA 8270C Data File: S48719.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: (for)
Bruce Hoogesteger: Technical Director

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094832S4.XLS

PARADIGM
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Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site: City of Watertown
Sewall's Island IRM
Client Job Number: 34202
Field Location: TP-23 (23')
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 09-4832
Lab Sample Number: 14622
Date Sampled: 12/30/2009
Date Received: 12/31/2009
Date Analyzed: 01/13/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Unknown PAH	N/A	14.91	3,880	97
Unknown PAH	N/A	15.04	4,520	64
Unknown PAH	N/A	15.37	6,830	98
Unknown	N/A	16.20	4,960	59
Unknown PAH	N/A	16.86	11,100	94
Unknown PAH	N/A	16.97	3,940	93
Unknown PAH	N/A	17.02	8,890	90
Unknown PAH	N/A	17.84	4,350	91
Unknown PAH	N/A	18.00	18,600	60

ELAP Number 10958 Method: EPA 8270C Data File: S48719.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: (for)
Bruce Hoogesteger: Technical Director

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094832S4.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site: City of Watertown
Sewall's Island IRM
Client Job Number: 34202
Field Location: TP-23 (28.5')
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 09-4832
Lab Sample Number: 14623

Date Sampled: 12/30/2009
Date Received: 12/31/2009
Date Analyzed: 01/12/2010

Compound	Results in ug / Kg	Compound	Results in ug / Kg
Acenaphthene	ND< 350	2,4-Dinitrotoluene	ND< 350
Acenaphthylene	ND< 350	2,6-Dinitrotoluene	ND< 350
Anthracene	ND< 350	Di-n-octylphthalate	ND< 350
Benzo (a) anthracene	ND< 350	Fluoranthene	ND< 350
Benzo (a) pyrene	ND< 350	Fluorene	ND< 350
Benzo (b) fluoranthene	ND< 350	Hexachlorobenzene	ND< 350
Benzo (g,h,i) perylene	ND< 350	Hexachlorobutadiene	ND< 350
Benzo (k) fluoranthene	ND< 350	Hexachlorocyclopentadiene	ND< 350
Bis (2-chloroethyl) ether	ND< 350	Hexachloroethane	ND< 350
Bis (2-chloroethoxy) methane	ND< 350	Indeno (1,2,3-cd) pyrene	ND< 350
Bis (2-ethylhexyl) phthalate	ND< 350	Isophorone	ND< 350
4-Bromophenyl phenyl ether	ND< 350	2-Methylnapthalene	ND< 350
Butylbenzylphthalate	ND< 350	2-Methylphenol	ND< 350
4-Chloroaniline	ND< 350	3&4-Methylphenol	ND< 350
4-Chloro-3-methylphenol	ND< 350	Naphthalene	ND< 350
2-Chloronaphthalene	ND< 350	2-Nitroaniline	ND< 875
2-Chlorophenol	ND< 350	3-Nitroaniline	ND< 875
4-Chlorophenyl phenyl ether	ND< 350	4-Nitroaniline	ND< 875
Chrysene	ND< 350	Nitrobenzene	ND< 350
Dibenz (a,h) anthracene	ND< 350	2-Nitrophenol	ND< 350
Dibenzofuran	ND< 350	4-Nitrophenol	ND< 875
3,3'-Dichlorobenzidine	ND< 350	N-Nitroso-di-n-propylamine	ND< 350
2,4-Dichlorophenol	ND< 350	N-Nitrosodiphenylamine	ND< 350
Diethyl phthalate	ND< 350	Pentachlorophenol	ND< 875
2,4-Dimethylphenol	ND< 350	Phenanthrene	ND< 350
Dimethyl phthalate	ND< 875	Phenol	ND< 350
Di-n-butyl phthalate	ND< 350	Pyrene	ND< 350
4,6-Dinitro-2-methylphenol	ND< 875	2,4,5-Trichlorophenol	ND< 875
2,4-Dinitrophenol	ND< 875	2,4,6-Trichlorophenol	ND< 350

ELAP Number 10958 Method: EPA 8270C Data File: S48691.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: (for)
Bruce Hoogesteger, Technical Director

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094832S5.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	09-4832
		Lab Sample Number:	14623
Client Job Number:	34202		
Field Location:	TP-23 (28.5')	**Date Sampled:**	12/30/2009
Field ID Number:	N/A	**Date Received:**	12/31/2009
Sample Type:	Soil	**Date Analyzed:**	01/12/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
None Found	N/A	N/A	ND< 350	N/A

ELAP Number 10958 Method: EPA 8270C Data File: S48691.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: (for)
Bruce Hoogesteger: Technical Director

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094832S5.XLS

PARADIGM ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site: City of Watertown
Sewall's Island IRM
Client Job Number: 34202
Field Location: TP39 (25')
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-0376
Lab Sample Number: 1993

Date Sampled: 01/21/2010
Date Received: 01/22/2010
Date Analyzed: 02/01/2010

Compound	Results in ug / Kg
Acenaphthene	ND< 297
Acenaphthylene	ND< 297
Acetophenone	ND< 297
Anthracene	ND< 297
Atrazine	ND< 297
Benzaldehyde	ND< 297
Benzo (a) anthracene	ND< 297
Benzo (a) pyrene	ND< 297
Benzo (b) fluoranthene	ND< 297
Benzo (g,h,i) perylene	ND< 297
Benzo (k) fluoranthene	ND< 297
Biphenyl	ND< 297
Bis (2-chloroethyl) ether	ND< 297
Bis (2-chloroethoxy) methane	ND< 297
Bis (2-ethylhexyl) phthalate	ND< 297
Bis (2-chloroisopropyl) ether	ND< 297
4-Bromophenyl phenyl ether	ND< 297
Butylbenzylphthalate	ND< 297
Caprolactam	ND< 297
Carbazole	ND< 297
4-Chloroaniline	ND< 297
4-Chloro-3-methylphenol	ND< 297
2-Chloronaphthalene	ND< 297
2-Chlorophenol	ND< 297
4-Chlorophenyl phenyl ether	ND< 297
Chrysene	ND< 297
Dibenz (a,h) anthracene	ND< 297
Dibenzofuran	ND< 297
3,3'-Dichlorobenzidine	ND< 297
2,4-Dichlorophenol	ND< 297
Diethyl phthalate	ND< 297
2,4-Dimethylphenol	ND< 297
Dimethyl phthalate	ND< 743

Compound	Results in ug / Kg
Di-n-butyl phthalate	ND< 297
4,6-Dinitro-2-methylphenol	ND< 743
2,4-Dinitrophenol	ND< 743
2,4-Dinitrotoluene	ND< 297
2,6-Dinitrotoluene	ND< 297
Di-n-octylphthalate	ND< 297
Fluoranthene	ND< 297
Fluorene	ND< 297
Hexachlorobenzene	ND< 297
Hexachlorobutadiene	ND< 297
Hexachlorocyclopentadiene	ND< 297
Hexachloroethane	ND< 297
Indeno (1,2,3-cd) pyrene	ND< 297
Isophorone	ND< 297
2-Methylnapthalene	ND< 297
2-Methylphenol	ND< 297
3&4-Methylphenol	ND< 297
Naphthalene	ND< 297
2-Nitroaniline	ND< 743
3-Nitroaniline	ND< 743
4-Nitroaniline	ND< 743
Nitrobenzene	ND< 297
2-Nitrophenol	ND< 297
4-Nitrophenol	ND< 743
N-Nitroso-di-n-propylamine	ND< 297
N-Nitrosodiphenylamine	ND< 297
Pentachlorophenol	ND< 743
Phenanthrene	ND< 297
Phenol	ND< 297
Pyrene	ND< 297
2,4,5-Trichlorophenol	ND< 743
2,4,6-Trichlorophenol	ND< 297

ELAP Number 10958 Method: EPA 8270C Data File: S49291.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:
Bruce Hoogesteger: Technical Director

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Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	10-0376
		Lab Sample Number:	1993
Client Job Number:	34202		
Field Location:	TP39 (25')	**Date Sampled:**	01/21/2010
Field ID Number:	N/A	**Date Received:**	01/22/2010
Sample Type:	Soil	**Date Analyzed:**	02/01/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
None Found	N/A	N/A	ND< 297	N/A

ELAP Number 10958 Method: EPA 8270C Data File: S49291.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

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100376S1.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Lu Engineers

Client Job Site: City of Watertown
Sewalls Island IRM

Client Job No.: 34202

Field Location: TP-1 (21')
Field ID No.: N/A

Lab Project No.: 09-4737
Lab Sample No.: 14363

Sample Type: Soil

Date Sampled: 12/17/2009
Date Received: 12/22/2009

Laboratory Report for TAL Metals Analysis in Solid

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Aluminum	01/12/2010	SW846 6010	8030
Antimony	01/12/2010	SW846 6010	<4.35
Arsenic	01/12/2010	SW846 6010	8.15
Barium	01/12/2010	SW846 6010	51.9
Beryllium	01/12/2010	SW846 6010	0.675
Cadmium	01/12/2010	SW846 6010	<0.363
Calcium	01/12/2010	SW846 6010	4050
Chromium	01/12/2010	SW846 6010	19.7
Cobalt	01/12/2010	SW846 6010	5.49
Copper	01/12/2010	SW846 6010	107
Iron	01/12/2010	SW846 6010	47600
Lead	01/12/2010	SW846 6010	54.3
Magnesium	01/12/2010	SW846 6010	901
Manganese	01/12/2010	SW846 6010	558
Mercury	01/08/2010	SW846 7471	0.107
Nickel	01/12/2010	SW846 6010	11.5
Potassium	01/12/2010	SW846 6010	741
Selenium	01/12/2010	SW846 6010	<0.363
Silver	01/12/2010	SW846 6010	<0.725
Sodium	01/12/2010	SW846 6010	144
Thallium	01/12/2010	SW846 6010	<0.435
Vanadium	01/12/2010	SW846 6010	30.5
Zinc	01/12/2010	SW846 6010	61.8

ELAP ID No.:10958

Comments:

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Bruce Hoogesteger, Technical Director

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File ID:094737.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Lu Engineers

Client Job Site: City of Watertown
Sewalls Island IRM

Client Job No.: 34202

Field Location: TP-2 (22')

Field ID No.: N/A

Lab Project No.: 09-4737
Lab Sample No.: 14364

Sample Type: Soil

Date Sampled: 12/27/2009
Date Received: 12/22/2009

Laboratory Report for TAL Metals Analysis in Solid

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Aluminum	01/12/2010	SW846 6010	7500
Antimony	01/12/2010	SW846 6010	<5.47
Arsenic	01/12/2010	SW846 6010	2.71
Barium	01/12/2010	SW846 6010	35.3
Beryllium	01/12/2010	SW846 6010	0.515
Cadmium	01/12/2010	SW846 6010	<0.455
Calcium	01/12/2010	SW846 6010	2080
Chromium	01/12/2010	SW846 6010	9.25
Cobalt	01/12/2010	SW846 6010	5.48
Copper	01/12/2010	SW846 6010	10.3
Iron	01/12/2010	SW846 6010	13300
Lead	01/12/2010	SW846 6010	7.62
Magnesium	01/12/2010	SW846 6010	1850
Manganese	01/12/2010	SW846 6010	111
Mercury	01/08/2010	SW846 7471	0.0750
Nickel	01/12/2010	SW846 6010	6.98
Potassium	01/12/2010	SW846 6010	772
Selenium	01/12/2010	SW846 6010	<0.455
Silver	01/12/2010	SW846 6010	<0.912
Sodium	01/12/2010	SW846 6010	<91.2
Thallium	01/12/2010	SW846 6010	<0.547
Vanadium	01/12/2010	SW846 6010	16.2
Zinc	01/12/2010	SW846 6010	55.7

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PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Lu Engineers

Client Job Site: City of Watertown
Sewalls Island IRM

Client Job No.: 34202

Field Location: TP-4 (22')

Field ID No.: N/A

Lab Project No.: 09-4737
Lab Sample No.: 14365

Sample Type: Soil

Date Sampled: 12/17/2009
Date Received: 12/22/2009

Laboratory Report for TAL Metals Analysis in Solid

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Aluminum	01/12/2010	SW846 6010	4790
Antimony	01/12/2010	SW846 6010	<5.48
Arsenic	01/12/2010	SW846 6010	3.77
Barium	01/12/2010	SW846 6010	48.4
Beryllium	01/12/2010	SW846 6010	<0.456
Cadmium	01/12/2010	SW846 6010	<0.456
Calcium	01/12/2010	SW846 6010	4800
Chromium	01/12/2010	SW846 6010	12.4
Cobalt	01/12/2010	SW846 6010	3.06
Copper	01/12/2010	SW846 6010	83.2
Iron	01/12/2010	SW846 6010	12900
Lead	01/12/2010	SW846 6010	188
Magnesium	01/12/2010	SW846 6010	654
Manganese	01/12/2010	SW846 6010	264
Mercury	01/08/2010	SW846 7471	0.0988
Nickel	01/12/2010	SW846 6010	32.0
Potassium	01/12/2010	SW846 6010	481
Selenium	01/12/2010	SW846 6010	<0.456
Silver	01/12/2010	SW846 6010	<0.914
Sodium	01/12/2010	SW846 6010	411
Thallium	01/12/2010	SW846 6010	<0.548
Vanadium	01/12/2010	SW846 6010	10.5
Zinc	01/12/2010	SW846 6010	71.5

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PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Lu Engineers

Client Job Site: City of Watertown
Sewalls Island IRM

Client Job No.: 34202

Field Location: TP-5 (18')

Field ID No.: N/A

Lab Project No.: 09-4737

Lab Sample No.: 14366

Sample Type: Soil

Date Sampled: 12/17/2009

Date Received: 12/22/2009

Laboratory Report for TAL Metals Analysis in Solid

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Aluminum	01/12/2010	SW846 6010	5120
Antimony	01/12/2010	SW846 6010	<5.17
Arsenic	01/12/2010	SW846 6010	4.36
Barium	01/12/2010	SW846 6010	116
Beryllium	01/12/2010	SW846 6010	<0.431
Cadmium	01/12/2010	SW846 6010	<0.431
Calcium	01/12/2010	SW846 6010	22800
Chromium	01/12/2010	SW846 6010	10.4
Cobalt	01/12/2010	SW846 6010	4.18
Copper	01/12/2010	SW846 6010	149
Iron	01/12/2010	SW846 6010	14000
Lead	01/12/2010	SW846 6010	237
Magnesium	01/12/2010	SW846 6010	1870
Manganese	01/12/2010	SW846 6010	135
Mercury	01/08/2010	SW846 7471	0.206
Nickel	01/12/2010	SW846 6010	9.26
Potassium	01/12/2010	SW846 6010	699
Selenium	01/12/2010	SW846 6010	<0.431
Silver	01/12/2010	SW846 6010	<0.862
Sodium	01/12/2010	SW846 6010	114
Thallium	01/12/2010	SW846 6010	<0.517
Vanadium	01/12/2010	SW846 6010	15.8
Zinc	01/12/2010	SW846 6010	154

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PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Lu Engineers

Client Job Site: City of Watertown
Sewalls Island IRM

Client Job No.: 34202

Field Location: TP-6 (30')

Field ID No.: N/A

Lab Project No.: 09-4737
Lab Sample No.: 14367

Sample Type: Soil

Date Sampled: 12/18/2009
Date Received: 12/22/2009

Laboratory Report for TAL Metals Analysis in Solid

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Aluminum	01/12/2010	SW846 6010	4650
Antimony	01/12/2010	SW846 6010	<7.36
Arsenic	01/12/2010	SW846 6010	17.3
Barium	01/12/2010	SW846 6010	145
Beryllium	01/12/2010	SW846 6010	<0.613
Cadmium	01/12/2010	SW846 6010	<0.613
Calcium	01/12/2010	SW846 6010	21700
Chromium	01/12/2010	SW846 6010	12.2
Cobalt	01/12/2010	SW846 6010	4.95
Copper	01/12/2010	SW846 6010	889
Iron	01/12/2010	SW846 6010	15600
Lead	01/12/2010	SW846 6010	131
Magnesium	01/12/2010	SW846 6010	1150
Manganese	01/12/2010	SW846 6010	299
Mercury	01/08/2010	SW846 7471	0.368
Nickel	01/12/2010	SW846 6010	13.4
Potassium	01/12/2010	SW846 6010	577
Selenium	01/12/2010	SW846 6010	2.06
Silver	01/12/2010	SW846 6010	<1.23
Sodium	01/12/2010	SW846 6010	127
Thallium	01/12/2010	SW846 6010	<0.736
Vanadium	01/12/2010	SW846 6010	17.7
Zinc	01/12/2010	SW846 6010	131

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ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Lu Engineers

Client Job Site: City of Watertown
Sewalls Island IRM

Client Job No.: 34202

Field Location: TP-9 (20.5')

Field ID No.: N/A

Lab Project No.: 09-4737
Lab Sample No.: 14368

Sample Type: Soil

Date Sampled: 12/21/2009
Date Received: 12/22/2009

Laboratory Report for TAL Metals Analysis in Solid

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Aluminum	01/12/2010	SW846 6010	6420
Antimony	01/12/2010	SW846 6010	<4.82
Arsenic	01/12/2010	SW846 6010	4.57
Barium	01/12/2010	SW846 6010	47.4
Beryllium	01/12/2010	SW846 6010	<0.403
Cadmium	01/12/2010	SW846 6010	<0.403
Calcium	01/12/2010	SW846 6010	8440
Chromium	01/12/2010	SW846 6010	17.0
Cobalt	01/12/2010	SW846 6010	4.05
Copper	01/12/2010	SW846 6010	229
Iron	01/12/2010	SW846 6010	17900
Lead	01/12/2010	SW846 6010	104
Magnesium	01/12/2010	SW846 6010	1090
Manganese	01/12/2010	SW846 6010	570
Mercury	01/08/2010	SW846 7471	0.0206
Nickel	01/12/2010	SW846 6010	44.8
Potassium	01/12/2010	SW846 6010	660
Selenium	01/12/2010	SW846 6010	<0.403
Silver	01/12/2010	SW846 6010	<0.804
Sodium	01/12/2010	SW846 6010	120
Thallium	01/12/2010	SW846 6010	<0.482
Vanadium	01/12/2010	SW846 6010	25.5
Zinc	01/12/2010	SW846 6010	92.8

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ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Lu Engineers

Client Job Site: City of Watertown
Sewalls Island IRM

Client Job No.: 34202

Field Location: TP-11 (20')

Field ID No.: N/A

Lab Project No.: 09-4737
Lab Sample No.: 14369

Sample Type: Soil

Date Sampled: 12/21/2009
Date Received: 12/22/2009

Laboratory Report for TAL Metals Analysis in Solid

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)	
Aluminum	01/12/2010	SW846 6010	4730	
Antimony	01/12/2010	SW846 6010	<5.02	M
Arsenic	01/12/2010	SW846 6010	2.23	D
Barium	01/12/2010	SW846 6010	33.7	D,M
Beryllium	01/12/2010	SW846 6010	<0.419	
Cadmium	01/12/2010	SW846 6010	0.616	M
Calcium	01/12/2010	SW846 6010	33100	
Chromium	01/12/2010	SW846 6010	10.3	D,M
Cobalt	01/12/2010	SW846 6010	3.81	D,M
Copper	01/12/2010	SW846 6010	2550	D
Iron	01/12/2010	SW846 6010	10600	D
Lead	01/12/2010	SW846 6010	266	D,M
Magnesium	01/12/2010	SW846 6010	1770	M
Manganese	01/12/2010	SW846 6010	318	D,M
Mercury	01/08/2010	SW846 7471	0.661	
Nickel	01/12/2010	SW846 6010	10.8	D,M
Potassium	01/12/2010	SW846 6010	589	
Selenium	01/12/2010	SW846 6010	<0.419	
Silver	01/12/2010	SW846 6010	<0.837	
Sodium	01/12/2010	SW846 6010	145	
Thallium	01/12/2010	SW846 6010	<0.502	M
Vanadium	01/12/2010	SW846 6010	11.6	D,M
Zinc	01/12/2010	SW846 6010	2240	D

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PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Lu Engineers

Client Job Site: City of Watertown
Sewall's Island IRM

Client Job No.: 34202

Field Location: TP-13 (24-25')

Field ID No.: N/A

Lab Project No.: 09-4803

Lab Sample No.: 14546

Sample Type: Soil

Date Sampled: 12/22/2009

Date Received: 12/28/2009

Laboratory Report for TAL Metals Analysis in Solid

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Aluminum	01/13/2010	SW846 6010	5680
Antimony	01/13/2010	SW846 6010	12.3
Arsenic	01/13/2010	SW846 6010	61.9
Barium	01/13/2010	SW846 6010	381
Beryllium	01/13/2010	SW846 6010	0.897
Cadmium	01/13/2010	SW846 6010	2.99
Calcium	01/13/2010	SW846 6010	60400
Chromium	01/13/2010	SW846 6010	82.0
Cobalt	01/13/2010	SW846 6010	8.24
Copper	01/13/2010	SW846 6010	1790
Iron	01/13/2010	SW846 6010	31200
Lead	01/13/2010	SW846 6010	2630
Magnesium	01/13/2010	SW846 6010	3070
Manganese	01/13/2010	SW846 6010	71.9
Mercury	01/05/2010	SW846 7471	7.17
Nickel	01/13/2010	SW846 6010	112
Potassium	01/13/2010	SW846 6010	911
Selenium	01/13/2010	SW846 6010	37.0
Silver	01/13/2010	SW846 6010	25.4
Sodium	01/13/2010	SW846 6010	176
Thallium	01/13/2010	SW846 6010	<0.766
Vanadium	01/13/2010	SW846 6010	16.2
Zinc	01/13/2010	SW846 6010	1730

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PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Lu Engineers

Client Job Site: City of Watertown
Sewall's Island IRM

Client Job No.: 34202

Field Location: TP-14 (25-27')
Field ID No.: N/A

Lab Project No.: 09-4803
Lab Sample No.: 14548

Sample Type: Soil

Date Sampled: 12/22/2009
Date Received: 12/28/2009

Laboratory Report for TAL Metals Analysis in Solid

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Aluminum	01/13/2010	SW846 6010	8740
Antimony	01/13/2010	SW846 6010	<8.22
Arsenic	01/13/2010	SW846 6010	80.1
Barium	01/13/2010	SW846 6010	311
Beryllium	01/13/2010	SW846 6010	<0.684
Cadmium	01/13/2010	SW846 6010	<0.684
Calcium	01/13/2010	SW846 6010	90800
Chromium	01/13/2010	SW846 6010	267
Cobalt	01/13/2010	SW846 6010	10.3
Copper	01/13/2010	SW846 6010	757
Iron	01/13/2010	SW846 6010	63900
Lead	01/13/2010	SW846 6010	2030
Magnesium	01/13/2010	SW846 6010	2670
Manganese	01/13/2010	SW846 6010	454
Mercury	01/05/2010	SW846 7471	2.46
Nickel	01/13/2010	SW846 6010	40.2
Potassium	01/13/2010	SW846 6010	2560
Selenium	01/13/2010	SW846 6010	16.9
Silver	01/13/2010	SW846 6010	24.3
Sodium	01/13/2010	SW846 6010	532
Thallium	01/13/2010	SW846 6010	<0.822
Vanadium	01/13/2010	SW846 6010	21.4
Zinc	01/13/2010	SW846 6010	742

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PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Lu Engineers

Client Job Site: City of Watertown
Sewall's Island IRM

Client Job No.: 34202

Field Location: TP-15 (11')
Field ID No.: N/A

Lab Project No.: 09-4803
Lab Sample No.: 14549

Sample Type: Soil

Date Sampled: 12/22/2009
Date Received: 12/28/2009

Laboratory Report for TAL Metals Analysis in Solid

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Aluminum	01/13/2010	SW846 6010	4130
Antimony	01/13/2010	SW846 6010	<5.58
Arsenic	01/13/2010	SW846 6010	3.23
Barium	01/13/2010	SW846 6010	53.7
Beryllium	01/13/2010	SW846 6010	<0.465
Cadmium	01/13/2010	SW846 6010	<0.465
Calcium	01/13/2010	SW846 6010	1550
Chromium	01/13/2010	SW846 6010	20.3
Cobalt	01/13/2010	SW846 6010	4.13
Copper	01/13/2010	SW846 6010	40.9
Iron	01/13/2010	SW846 6010	13400
Lead	01/13/2010	SW846 6010	130
Magnesium	01/13/2010	SW846 6010	938
Manganese	01/13/2010	SW846 6010	266
Mercury	01/05/2010	SW846 7471	0.254
Nickel	01/13/2010	SW846 6010	22.4
Potassium	01/13/2010	SW846 6010	326
Selenium	01/13/2010	SW846 6010	<0.465
Silver	01/13/2010	SW846 6010	<0.931
Sodium	01/13/2010	SW846 6010	<93.1
Thallium	01/13/2010	SW846 6010	<0.558
Vanadium	01/13/2010	SW846 6010	6.90
Zinc	01/13/2010	SW846 6010	93.6

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PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Lu Engineers

Client Job Site: City of Watertown
Sewall's Island IRM

Client Job No.: 34202

Field Location: TP-16 (17')
Field ID No.: N/A

Lab Project No.: 09-4803
Lab Sample No.: 14550

Sample Type: Soil

Date Sampled: 12/23/2009
Date Received: 12/28/2009

Laboratory Report for TAL Metals Analysis in Solid

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)	
Aluminum	01/13/2010	SW846 6010	2820	D
Antimony	01/13/2010	SW846 6010	<6.05	M
Arsenic	01/13/2010	SW846 6010	9.69	D
Barium	01/13/2010	SW846 6010	182	D,M
Beryllium	01/13/2010	SW846 6010	<0.504	
Cadmium	01/13/2010	SW846 6010	<0.504	M
Calcium	01/13/2010	SW846 6010	15000	
Chromium	01/13/2010	SW846 6010	8.46	
Cobalt	01/13/2010	SW846 6010	3.65	
Copper	01/13/2010	SW846 6010	172	D,M
Iron	01/13/2010	SW846 6010	16200	D
Lead	01/13/2010	SW846 6010	206	D,M
Magnesium	01/13/2010	SW846 6010	1040	D,M
Manganese	01/13/2010	SW846 6010	529	M
Mercury	01/05/2010	SW846 7471	0.132	D,M
Nickel	01/13/2010	SW846 6010	8.86	D
Potassium	01/13/2010	SW846 6010	396	D,M
Selenium	01/13/2010	SW846 6010	1.72	D
Silver	01/13/2010	SW846 6010	<1.01	
Sodium	01/13/2010	SW846 6010	<101	
Thallium	01/13/2010	SW846 6010	<0.605	M
Vanadium	01/13/2010	SW846 6010	8.21	
Zinc	01/13/2010	SW846 6010	184	D

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PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Lu Engineers

Client Job Site: City of Watertown
Sewall's Island IRM

Client Job No.: 34202

Field Location: TP-18 (22')

Field ID No.: N/A

Lab Project No.: 09-4803
Lab Sample No.: 14551

Sample Type: Soil

Date Sampled: 12/23/2009
Date Received: 12/28/2009

Laboratory Report for TAL Metals Analysis in Solid

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Aluminum	01/13/2010	SW846 6010	1740
Antimony	01/13/2010	SW846 6010	<9.24
Arsenic	01/13/2010	SW846 6010	1.88
Barium	01/13/2010	SW846 6010	21.5
Beryllium	01/13/2010	SW846 6010	<0.769
Cadmium	01/13/2010	SW846 6010	<0.769
Calcium	01/13/2010	SW846 6010	821
Chromium	01/13/2010	SW846 6010	6.05
Cobalt	01/13/2010	SW846 6010	3.74
Copper	01/13/2010	SW846 6010	53.2
Iron	01/13/2010	SW846 6010	2260
Lead	01/13/2010	SW846 6010	6.82
Magnesium	01/13/2010	SW846 6010	61.8
Manganese	01/13/2010	SW846 6010	8.58
Mercury	01/05/2010	SW846 7471	0.0169
Nickel	01/13/2010	SW846 6010	8.99
Potassium	01/13/2010	SW846 6010	259
Selenium	01/13/2010	SW846 6010	<0.769
Silver	01/13/2010	SW846 6010	<1.54
Sodium	01/13/2010	SW846 6010	<154
Thallium	01/13/2010	SW846 6010	<0.924
Vanadium	01/13/2010	SW846 6010	8.42
Zinc	01/13/2010	SW846 6010	10.2

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PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Lu Engineers

Client Job Site: City of Watertown
Sewall's Island IRM

Client Job No.: 34202

Field Location: TP-19 (23')
Field ID No.: N/A

Lab Project No.: 09-4832
Lab Sample No.: 14618

Sample Type: Soil

Date Sampled: 12/28/2009
Date Received: 12/31/2009

Laboratory Report for TAL Metals Analysis in Solid

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Aluminum	01/19/2010	SW846 6010	2760
Antimony	01/19/2010	SW846 6010	<7.22
Arsenic	01/19/2010	SW846 6010	2.24
Barium	01/19/2010	SW846 6010	65.5
Beryllium	01/19/2010	SW846 6010	<0.602
Cadmium	01/19/2010	SW846 6010	<0.602
Calcium	01/19/2010	SW846 6010	6170
Chromium	01/19/2010	SW846 6010	5.37
Cobalt	01/19/2010	SW846 6010	3.65
Copper	01/19/2010	SW846 6010	156
Iron	01/19/2010	SW846 6010	4570
Lead	01/19/2010	SW846 6010	58.8
Magnesium	01/19/2010	SW846 6010	405
Manganese	01/19/2010	SW846 6010	51.4
Mercury	01/08/2010	SW846 7471	0.0544
Nickel	01/19/2010	SW846 6010	9.64
Potassium	01/19/2010	SW846 6010	232
Selenium	01/19/2010	SW846 6010	<0.602
Silver	01/19/2010	SW846 6010	<1.20
Sodium	01/19/2010	SW846 6010	<120
Thallium	01/19/2010	SW846 6010	<0.722
Vanadium	01/19/2010	SW846 6010	7.87
Zinc	01/19/2010	SW846 6010	33.7

ELAP ID No.:10958

Comments:

Approved By: Val Miller for:
Bruce Hoogesteger, Technical Director

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File ID:094832.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Lu Engineers

Client Job Site: City of Watertown
Sewall's Island IRM

Client Job No.: 34202

Field Location: TP-22 (30')
Field ID No.: N/A

Lab Project No.: 09-4832
Lab Sample No.: 14619

Sample Type: Soil

Date Sampled: 12/29/2009
Date Received: 12/31/2009

Laboratory Report for TAL Metals Analysis in Solid

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Aluminum	01/19/2010	SW846 6010	3580
Antimony	01/19/2010	SW846 6010	<7.95
Arsenic	01/19/2010	SW846 6010	2.48
Barium	01/19/2010	SW846 6010	35.6
Beryllium	01/19/2010	SW846 6010	<0.662
Cadmium	01/19/2010	SW846 6010	<0.662
Calcium	01/19/2010	SW846 6010	3100
Chromium	01/19/2010	SW846 6010	10.7
Cobalt	01/19/2010	SW846 6010	5.25
Copper	01/19/2010	SW846 6010	70.5
Iron	01/19/2010	SW846 6010	3860
Lead	01/19/2010	SW846 6010	109
Magnesium	01/19/2010	SW846 6010	112
Manganese	01/19/2010	SW846 6010	23.6
Mercury	01/08/2010	SW846 7471	2.72
Nickel	01/19/2010	SW846 6010	11.0
Potassium	01/19/2010	SW846 6010	91.2
Selenium	01/19/2010	SW846 6010	<0.662
Silver	01/19/2010	SW846 6010	<1.32
Sodium	01/19/2010	SW846 6010	<132
Thallium	01/19/2010	SW846 6010	<0.795
Vanadium	01/19/2010	SW846 6010	11.0
Zinc	01/19/2010	SW846 6010	52.6

ELAP ID No.:10958

Comments:

Approved By: Val Miller for
Bruce Hoogesteger, Technical Director

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File ID:094832.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Lu Engineers

Client Job Site: City of Watertown
Sewall's Island IRM

Client Job No.: 34202

Field Location: TP-23 (23')

Field ID No.: N/A

Lab Project No.: 09-4832
Lab Sample No.: 14622

Sample Type: Soil

Date Sampled: 12/30/2009
Date Received: 12/31/2009

Laboratory Report for TAL Metals Analysis in Solid

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)	
Aluminum	01/19/2010	SW846 6010	6490	D
Antimony	01/19/2010	SW846 6010	135	D,M
Arsenic	01/19/2010	SW846 6010	14.4	D
Barium	01/19/2010	SW846 6010	483	D,M
Beryllium	01/19/2010	SW846 6010	<0.580	
Cadmium	01/19/2010	SW846 6010	2.73	D,M
Calcium	01/19/2010	SW846 6010	33100	D
Chromium	01/19/2010	SW846 6010	29.6	D,M
Cobalt	01/19/2010	SW846 6010	5.59	D,M
Copper	01/19/2010	SW846 6010	2550	D,M
Iron	01/19/2010	SW846 6010	37500	D
Lead	01/19/2010	SW846 6010	5040	D
Magnesium	01/19/2010	SW846 6010	2390	D,M
Manganese	01/19/2010	SW846 6010	503	D,M
Mercury	01/08/2010	SW846 7471	9.79	D
Nickel	01/19/2010	SW846 6010	27.3	
Potassium	01/19/2010	SW846 6010	849	D,M
Selenium	01/19/2010	SW846 6010	<0.580	
Silver	01/19/2010	SW846 6010	<1.16	
Sodium	01/19/2010	SW846 6010	<116	
Thallium	01/19/2010	SW846 6010	<0.696	M
Vanadium	01/19/2010	SW846 6010	17.9	
Zinc	01/19/2010	SW846 6010	976	D,M

ELAP ID No.:10958

Comments:

Approved By: Val M Miller for:
Bruce Hoogesteger, Technical Director

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File ID:094832.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Lu Engineers

Client Job Site: City of Watertown
Sewall's Island IRM

Client Job No.: 34202

Field Location: TP-23 (28.5')

Field ID No.: N/A

Lab Project No.: 09-4832
Lab Sample No.: 14623

Sample Type: Soil

Date Sampled: 12/30/2009
Date Received: 12/31/2009

Laboratory Report for TAL Metals Analysis in Solid

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Aluminum	01/19/2010	SW846 6010	9360
Antimony	01/19/2010	SW846 6010	<7.02
Arsenic	01/19/2010	SW846 6010	1.03
Barium	01/19/2010	SW846 6010	36.5
Beryllium	01/19/2010	SW846 6010	0.728
Cadmium	01/19/2010	SW846 6010	<0.585
Calcium	01/19/2010	SW846 6010	2710
Chromium	01/19/2010	SW846 6010	10.8
Cobalt	01/19/2010	SW846 6010	6.29
Copper	01/19/2010	SW846 6010	19.7
Iron	01/19/2010	SW846 6010	17700
Lead	01/19/2010	SW846 6010	21.3
Magnesium	01/19/2010	SW846 6010	2460
Manganese	01/19/2010	SW846 6010	160
Mercury	01/08/2010	SW846 7471	0.0172
Nickel	01/19/2010	SW846 6010	10.0
Potassium	01/19/2010	SW846 6010	1120
Selenium	01/19/2010	SW846 6010	3.25
Silver	01/19/2010	SW846 6010	<1.17
Sodium	01/19/2010	SW846 6010	<117
Thallium	01/19/2010	SW846 6010	<0.702
Vanadium	01/19/2010	SW846 6010	19.0
Zinc	01/19/2010	SW846 6010	76.0

ELAP ID No.:10958

Comments:

Approved By: Carl McNally for
Bruce Hoogesteger, Technical Director

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PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Lu Engineers

Client Job Site: City of Watertown
Sewall's Island IRM

Client Job No.: 34202

Field Location: TP39 (25')

Field ID No.: N/A

Lab Project No.: 10-0376

Lab Sample No.: 1993

Sample Type: Soil

Date Sampled: 01/21/2010

Date Received: 01/22/2010

Laboratory Report for TAL Metals Analysis in Solid

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)	
Aluminum	01/29/2010	SW846 6010	4880	D
Antimony	01/29/2010	SW846 6010	<3.56	M
Arsenic	01/29/2010	SW846 6010	<0.296	
Barium	01/29/2010	SW846 6010	25.9	D
Beryllium	01/29/2010	SW846 6010	0.320	
Cadmium	01/29/2010	SW846 6010	0.674	D,M
Calcium	01/29/2010	SW846 6010	3190	D
Chromium	01/29/2010	SW846 6010	15.0	D
Cobalt	01/29/2010	SW846 6010	3.26	D
Copper	01/29/2010	SW846 6010	291	D,M
Iron	01/29/2010	SW846 6010	15700	D
Lead	01/29/2010	SW846 6010	70.5	D
Magnesium	01/29/2010	SW846 6010	888	D,M
Manganese	01/29/2010	SW846 6010	485	
Mercury	01/29/2010	SW846 7471	0.0186	
Nickel	01/29/2010	SW846 6010	9.89	D
Potassium	01/29/2010	SW846 6010	690	D,M
Selenium	02/05/2010	SW846 6010	0.938	
Silver	01/29/2010	SW846 6010	<0.592	M
Sodium	01/29/2010	SW846 6010	122	D
Thallium	01/29/2010	SW846 6010	<0.356	M
Vanadium	01/29/2010	SW846 6010	16.5	
Zinc	01/29/2010	SW846 6010	74.7	M

ELAP ID No.:10958

Comments:

Approved By: _____
Bruce Hoogesteger, Technical Director

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PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Soils/Solids/Sludges

Client: **Lu Engineers**

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	09-4803
		Lab Sample Number:	14546
Client Job Number:	34202		
Field Location:	TP-13 (24-25')	**Date Sampled:**	12/22/2009
Field ID Number:	N/A	**Date Received:**	12/28/2009
Sample Type:	Soil	**Date Analyzed:**	01/04/2010

PCB Identification	Results in mg / Kg
Aroclor 1016	ND< 0.0517
Aroclor 1221	ND< 0.0517
Aroclor 1232	ND< 0.0517
Aroclor 1242	ND< 0.0517
Aroclor 1248	ND< 0.0517
Aroclor 1254	ND< 0.0517
Aroclor 1260	ND< 0.0517

ELAP Number 10958 Method: EPA 8082

Comments: ND denotes Non Detect
mg / Kg = milligram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

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PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	09-4803
		Lab Sample Number:	14548
Client Job Number:	34202		
Field Location:	TP-14 (25-27')	**Date Sampled:**	12/22/2009
Field ID Number:	N/A	**Date Received:**	12/28/2009
Sample Type:	Soil	**Date Analyzed:**	01/04/2010

PCB Identification	Results in mg / Kg
Aroclor 1016	ND< 0.0463
Aroclor 1221	ND< 0.0463
Aroclor 1232	ND< 0.0463
Aroclor 1242	ND< 0.0463
Aroclor 1248	ND< 0.0463
Aroclor 1254	ND< 0.0463
Aroclor 1260	ND< 0.0463

ELAP Number 10958 Method: EPA 8082

Comments: ND denotes Non Detect
mg / Kg = milligram per Kilogram

Signature:
Bruce Hoogesteger: Technical Director

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PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PHC Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	09-4803
		Lab Sample Number:	14546
Client Job Number:	34202		
Field Location:	TP-13 (24-25')	**Date Sampled:**	12/22/2009
Field ID Number:	N/A	**Date Received:**	12/28/2009
Sample Type:	Soil	**Date Analyzed:**	01/04/2010

PHC Classification	Results in ug / Kg
Medium Weight PHC as: Diesel Fuel	702,000

ELAP Number 10958 Method: NYSDOH 310.13

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
PHC = Petroleum Hydrocarbon

Signature: _____
Bruce Hoogesteger: Technical Director

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PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PHC Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	09-4803
		Lab Sample Number:	14548
Client Job Number:	34202		
Field Location:	TP-14 (25-27')	**Date Sampled:**	12/22/2009
Field ID Number:	N/A	**Date Received:**	12/28/2009
Sample Type:	Soil	**Date Analyzed:**	01/04/2010

PHC Classification	Results in ug / Kg
Medium Weight PHC as:	
Diesel Fuel	305,000

ELAP Number 10958 Method: NYSDOH 310.13

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
PHC = Petroleum Hydrocarbon

Signature: _____
Bruce Hoogesteger: Technical Director

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094803D3.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PHC Analysis Report for Oils

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	09-4832
		Lab Sample Number:	14621
Client Job Number:	34202		
Field Location:	TP-23-DW-1	**Date Sampled:**	12/29/2009
Field ID Number:	N/A	**Date Received:**	12/31/2009
Sample Type:	Oil	**Date Analyzed:**	01/08/2010

PHC Classification	Results in ug / Kg
Kerosene #1	34,000,000
Diesel Fuel #2	21,800,000
Lube Oil	47,300,000

ELAP Number 10958 Method: NYSDOH 310.13

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
PHC = Petroleum Hydrocarbon

Signature: Val M Miller for
Bruce Hoogesteger: Technical Director

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094832P1.XLS

IRM CLOSURE SOIL SAMPLE RESULTS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Lu Engineers

Client Job Site: City of Watertown
Sewall's Island

Client Job No.: 34202

Field Location: SI-PAOCI-TP38-NW
Field ID No.: N/A

Lab Project No.: 10-0206
Lab Sample No.: 1442

Sample Type: Soil

Date Sampled: 01/07/2010
Date Received: 01/08/2010

Laboratory Report for TAL Metals Analysis in Solid

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Aluminum	01/22/2010	SW846 6010	2560
Antimony	01/22/2010	SW846 6010	<6.05
Arsenic	01/22/2010	SW846 6010	<0.504
Barium	01/22/2010	SW846 6010	19.1
Beryllium	01/22/2010	SW846 6010	<0.504
Cadmium	01/22/2010	SW846 6010	<0.504
Calcium	01/22/2010	SW846 6010	9800
Chromium	01/22/2010	SW846 6010	3.71
Cobalt	01/22/2010	SW846 6010	1.86
Copper	01/22/2010	SW846 6010	31.7
Iron	01/22/2010	SW846 6010	9440
Lead	01/22/2010	SW846 6010	26.4
Magnesium	01/22/2010	SW846 6010	881
Manganese	01/22/2010	SW846 6010	148
Mercury	01/19/2010	SW846 7471	0.126
Nickel	01/22/2010	SW846 6010	<4.03
Potassium	01/22/2010	SW846 6010	445
Selenium	01/22/2010	SW846 6010	<0.504
Silver	01/22/2010	SW846 6010	<1.01
Sodium	01/22/2010	SW846 6010	<101
Thallium	01/22/2010	SW846 6010	<0.605
Vanadium	01/22/2010	SW846 6010	9.48
Zinc	01/22/2010	SW846 6010	43.6

ELAP ID No.:10958

Comments:

Approved By: _____
Bruce Hoogesteger, Technical Director

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File ID:100206.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Lu Engineers

Client Job Site: City of Watertown
Sewall's Island

Client Job No.: 34202

Field Location: SI-PAOCi-TP38-NW Dup
Field ID No.: N/A

Lab Project No.: 10-0206
Lab Sample No.: 1443

Sample Type: Soil

Date Sampled: 01/07/2010
Date Received: 01/08/2010

Laboratory Report for TAL Metals Analysis in Solid

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Aluminum	01/22/2010	SW846 6010	2650
Antimony	01/22/2010	SW846 6010	<4.11
Arsenic	01/22/2010	SW846 6010	<0.342
Barium	01/22/2010	SW846 6010	21.0
Beryllium	01/22/2010	SW846 6010	<0.342
Cadmium	01/22/2010	SW846 6010	<0.342
Calcium	01/22/2010	SW846 6010	16400
Chromium	01/22/2010	SW846 6010	3.96
Cobalt	01/22/2010	SW846 6010	2.00
Copper	01/22/2010	SW846 6010	63.8
Iron	01/22/2010	SW846 6010	9580
Lead	01/22/2010	SW846 6010	55.2
Magnesium	01/22/2010	SW846 6010	903
Manganese	01/22/2010	SW846 6010	148
Mercury	01/19/2010	SW846 7471	0.167
Nickel	01/22/2010	SW846 6010	4.20
Potassium	01/22/2010	SW846 6010	449
Selenium	01/22/2010	SW846 6010	<0.342
Silver	01/22/2010	SW846 6010	<0.684
Sodium	01/22/2010	SW846 6010	80.5
Thallium	01/22/2010	SW846 6010	<0.411
Vanadium	01/22/2010	SW846 6010	8.44
Zinc	01/22/2010	SW846 6010	41.3

ELAP ID No.:10958

Comments:

Approved By: _____
Bruce Hoogesteger, Technical Director

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File ID:100206.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Lu Engineers

Client Job Site: City of Watertown
Sewall's Island

Client Job No.: 34202

Field Location: SI-PAOCI-TP38-EW
Field ID No.: N/A

Lab Project No.: 10-0206
Lab Sample No.: 1444

Sample Type: Soil

Date Sampled: 01/07/2010
Date Received: 01/08/2010

Laboratory Report for TAL Metals Analysis in Solid

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)	
Aluminum	01/22/2010	SW846 6010	4650	
Antimony	01/22/2010	SW846 6010	<5.87	M
Arsenic	01/22/2010	SW846 6010	2.91	
Barium	01/22/2010	SW846 6010	47.4	D,M
Beryllium	01/22/2010	SW846 6010	<0.489	
Cadmium	01/22/2010	SW846 6010	0.558	M
Calcium	01/22/2010	SW846 6010	22200	D
Chromium	01/22/2010	SW846 6010	20.9	M
Cobalt	01/22/2010	SW846 6010	4.91	D,M
Copper	01/22/2010	SW846 6010	882	M
Iron	01/22/2010	SW846 6010	19600	D
Lead	01/22/2010	SW846 6010	135	D,M
Magnesium	01/22/2010	SW846 6010	1390	M
Manganese	01/22/2010	SW846 6010	578	D,M
Mercury	01/19/2010	SW846 7471	0.137	D,M
Nickel	01/22/2010	SW846 6010	25.4	D,M
Potassium	01/22/2010	SW846 6010	513	M
Selenium	01/22/2010	SW846 6010	<0.489	
Silver	01/22/2010	SW846 6010	<0.978	M
Sodium	01/22/2010	SW846 6010	131	M
Thallium	01/22/2010	SW846 6010	<0.587	M
Vanadium	01/22/2010	SW846 6010	11.9	M
Zinc	01/22/2010	SW846 6010	244	M

ELAP ID No.:10958

Comments:

Approved By: _____
Bruce Hoogesteger, Technical Director

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File ID:100206.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Lu Engineers

Client Job Site: City of Watertown
Sewall's Island

Client Job No.: 34202

Field Location: SI-PAOCI-TP38-SW
Field ID No.: N/A

Lab Project No.: 10-0206
Lab Sample No.: 1445

Sample Type: Soil

Date Sampled: 01/07/2010
Date Received: 01/08/2010

Laboratory Report for TAL Metals Analysis In Solid

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Aluminum	01/22/2010	SW846 6010	6840
Antimony	01/22/2010	SW846 6010	8.31
Arsenic	01/22/2010	SW846 6010	4.61
Barium	01/22/2010	SW846 6010	32.4
Beryllium	01/22/2010	SW846 6010	<0.541
Cadmium	01/22/2010	SW846 6010	0.999
Calcium	01/22/2010	SW846 6010	38000
Chromium	01/22/2010	SW846 6010	20.0
Cobalt	01/22/2010	SW846 6010	4.72
Copper	01/22/2010	SW846 6010	5310
Iron	01/22/2010	SW846 6010	21900
Lead	01/22/2010	SW846 6010	823
Magnesium	01/22/2010	SW846 6010	2630
Manganese	01/22/2010	SW846 6010	512
Mercury	01/19/2010	SW846 7471	0.160
Nickel	01/22/2010	SW846 6010	25.3
Potassium	01/22/2010	SW846 6010	923
Selenium	01/22/2010	SW846 6010	<0.541
Silver	01/22/2010	SW846 6010	<1.08
Sodium	01/22/2010	SW846 6010	197
Thallium	01/22/2010	SW846 6010	<0.650
Vanadium	01/22/2010	SW846 6010	13.2
Zinc	01/22/2010	SW846 6010	5970

ELAP ID No.:10958

Comments:

Approved By: _____
Bruce Hoogesteger, Technical Director

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File ID:100206.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Lu Engineers

Client Job Site: City of Watertown
Sewall's Island

Client Job No.: 34202

Field Location: SI-PAOCI-TP38-WW
Field ID No.: N/A

Lab Project No.: 10-0206
Lab Sample No.: 1446

Sample Type: Soil

Date Sampled: 01/07/2010
Date Received: 01/08/2010

Laboratory Report for TAL Metals Analysis in Solid

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Aluminum	01/22/2010	SW846 6010	3230
Antimony	01/22/2010	SW846 6010	<3.46
Arsenic	01/22/2010	SW846 6010	14.8
Barium	01/22/2010	SW846 6010	27.5
Beryllium	01/22/2010	SW846 6010	<0.288
Cadmium	01/22/2010	SW846 6010	13.6
Calcium	01/22/2010	SW846 6010	4960
Chromium	01/22/2010	SW846 6010	419
Cobalt	01/22/2010	SW846 6010	29.0
Copper	01/22/2010	SW846 6010	908
Iron	01/22/2010	SW846 6010	393000
Lead	01/22/2010	SW846 6010	140
Magnesium	01/22/2010	SW846 6010	309
Manganese	01/22/2010	SW846 6010	2790
Mercury	01/19/2010	SW846 7471	0.131
Nickel	01/22/2010	SW846 6010	273
Potassium	01/22/2010	SW846 6010	409
Selenium	01/22/2010	SW846 6010	<0.288
Silver	01/22/2010	SW846 6010	<0.577
Sodium	01/22/2010	SW846 6010	114
Thallium	01/22/2010	SW846 6010	<0.346
Vanadium	01/22/2010	SW846 6010	21.3
Zinc	01/22/2010	SW846 6010	251

ELAP ID No.:10958

Comments:

Approved By: _____
Bruce Hoogesteger, Technical Director

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File ID:100206.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Lu Engineers

Client Job Site: City of Watertown
Sewall's Island

Client Job No.: 34202

Field Location: SI-PAOCI-TP38-Floor
Field ID No.: N/A

Lab Project No.: 10-0206
Lab Sample No.: 1447

Sample Type: Soil

Date Sampled: 01/07/2010
Date Received: 01/08/2010

Laboratory Report for TAL Metals Analysis in Solid

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Aluminum	01/22/2010	SW846 6010	3670
Antimony	01/22/2010	SW846 6010	<4.61
Arsenic	01/22/2010	SW846 6010	4.02
Barium	01/22/2010	SW846 6010	42.8
Beryllium	01/22/2010	SW846 6010	<0.384
Cadmium	01/22/2010	SW846 6010	0.487
Calcium	01/22/2010	SW846 6010	29700
Chromium	01/22/2010	SW846 6010	32.9
Cobalt	01/22/2010	SW846 6010	3.19
Copper	01/22/2010	SW846 6010	746
Iron	01/22/2010	SW846 6010	16100
Lead	01/22/2010	SW846 6010	151
Magnesium	01/22/2010	SW846 6010	2450
Manganese	01/22/2010	SW846 6010	310
Mercury	01/19/2010	SW846 7471	0.456
Nickel	01/22/2010	SW846 6010	19.3
Potassium	01/22/2010	SW846 6010	611
Selenium	01/22/2010	SW846 6010	<0.384
Silver	01/22/2010	SW846 6010	<0.769
Sodium	01/22/2010	SW846 6010	109
Thallium	01/22/2010	SW846 6010	<0.461
Vanadium	01/22/2010	SW846 6010	10.8
Zinc	01/22/2010	SW846 6010	256

ELAP ID No.:10958

Comments:

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PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Lu Engineers

Client Job Site: City of Watertown
Sewall's Island

Client Job No.: 34202

Field Location: SI-PAOCI-TP39-Drum Floor
Field ID No.: N/A

Lab Project No.: 10-0206
Lab Sample No.: 1448

Sample Type: Soil

Date Sampled: 01/07/2010
Date Received: 01/08/2010

Laboratory Report for TAL Metals Analysis in Solid

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Aluminum	01/22/2010	SW846 6010	5420
Antimony	01/22/2010	SW846 6010	<6.01
Arsenic	01/22/2010	SW846 6010	<0.502
Barium	01/22/2010	SW846 6010	33.9
Beryllium	01/22/2010	SW846 6010	<0.502
Cadmium	01/22/2010	SW846 6010	<0.502
Calcium	01/22/2010	SW846 6010	102000
Chromium	01/22/2010	SW846 6010	13.4
Cobalt	01/22/2010	SW846 6010	3.31
Copper	01/22/2010	SW846 6010	25.0
Iron	01/22/2010	SW846 6010	11200
Lead	01/22/2010	SW846 6010	39.3
Magnesium	01/22/2010	SW846 6010	4950
Manganese	01/22/2010	SW846 6010	278
Mercury	01/19/2010	SW846 7471	0.0960
Nickel	01/22/2010	SW846 6010	12.5
Potassium	01/22/2010	SW846 6010	985
Selenium	01/22/2010	SW846 6010	<0.502
Silver	01/22/2010	SW846 6010	<1.00
Sodium	01/22/2010	SW846 6010	134
Thallium	01/22/2010	SW846 6010	<0.601
Vanadium	01/22/2010	SW846 6010	9.44
Zinc	01/22/2010	SW846 6010	39.1

ELAP ID No.:10958

Comments:

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File ID:100206.xls

PARADIGM ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site: City of Watertown Sewall's Island IRM
Client Job Number: 34202
Field Location: SI-PAOCI-TP38-NW
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-0206
Lab Sample Number: 1442

Date Sampled: 01/07/2010
Date Received: 01/08/2010
Date Analyzed: 01/20/2010

Compound	Results in ug / Kg
Acenaphthene	ND< 301
Acenaphthylene	J 155
Acetophenone	ND< 301
Anthracene	ND< 301
Atrazine	ND< 301
Benzaldehyde	ND< 301
Benzo (a) anthracene	J 289
Benzo (a) pyrene	354
Benzo (b) fluoranthene	312
Benzo (g,h,i) perylene	322
Benzo (k) fluoranthene	J 297
Biphenyl	ND< 301
Bis (2-chloroethyl) ether	ND< 301
Bis (2-chloroethoxy) methane	ND< 301
Bis (2-ethylhexyl) phthalate	ND< 301
Bis (2-chloroisopropyl) ether	ND< 301
4-Bromophenyl phenyl ether	ND< 301
Butylbenzylphthalate	ND< 301
Caprolactam	ND< 301
Carbazole	ND< 301
4-Chloroaniline	ND< 301
4-Chloro-3-methylphenol	ND< 301
2-Chloronaphthalene	ND< 301
2-Chlorophenol	ND< 301
4-Chlorophenyl phenyl ether	ND< 301
Chrysene	353
Dibenz (a,h) anthracene	ND< 301
Dibenzofuran	ND< 301
3,3'-Dichlorobenzidine	ND< 301
2,4-Dichlorophenol	ND< 301
Diethyl phthalate	ND< 301
2,4-Dimethylphenol	ND< 301
Dimethyl phthalate	ND< 753

Compound	Results in ug / Kg
Di-n-butyl phthalate	ND< 301
4,6-Dinitro-2-methylphenol	ND< 753
2,4-Dinitrophenol	ND< 753
2,4-Dinitrotoluene	ND< 301
2,6-Dinitrotoluene	ND< 301
Di-n-octylphthalate	ND< 301
Fluoranthene	405
Fluorene	ND< 301
Hexachlorobenzene	ND< 301
Hexachlorobutadiene	ND< 301
Hexachlorocyclopentadiene	ND< 301
Hexachloroethane	ND< 301
Indeno (1,2,3-cd) pyrene	J 249
Isophorone	ND< 301
2-Methylnapthalene	ND< 301
2-Methylphenol	ND< 301
3&4-Methylphenol	ND< 301
Naphthalene	ND< 301
2-Nitroaniline	ND< 753
3-Nitroaniline	ND< 753
4-Nitroaniline	ND< 753
Nitrobenzene	ND< 301
2-Nitrophenol	ND< 301
4-Nitrophenol	ND< 753
N-Nitroso-di-n-propylamine	ND< 301
N-Nitrosodiphenylamine	ND< 301
Pentachlorophenol	ND< 753
Phenanthrene	354
Phenol	ND< 301
Pyrene	476
2,4,5-Trichlorophenol	ND< 753
2,4,6-Trichlorophenol	ND< 301

ELAP Number 10958 Method: EPA 8270C Data File: S48988.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:
Bruce Hoogesteger: Technical Director

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PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	10-0206
		Lab Sample Number:	1442
Client Job Number:	34202		
Field Location:	SI-PAOCI-TP38-NW	**Date Sampled:**	01/07/2010
Field ID Number:	N/A	**Date Received:**	01/08/2010
Sample Type:	Soil	**Date Analyzed:**	01/20/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
None Found	N/A	N/A	ND< 301	N/A

ELAP Number 10958 Method: EPA 8270C Data File: S48988.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

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PARADIGM ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site: City of Watertown Sewall's Island IRM
Client Job Number: 34202
Field Location: SI-PAOCI-TP38-NW Dup
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-0206
Lab Sample Number: 1443

Date Sampled: 01/07/2010
Date Received: 01/08/2010
Date Analyzed: 01/20/2010

Compound	Results in ug / Kg
Acenaphthene	ND< 286
Acenaphthylene	ND< 286
Acetophenone	ND< 286
Anthracene	ND< 286
Atrazine	ND< 286
Benzaldehyde	ND< 286
Benzo (a) anthracene	J 221
Benzo (a) pyrene	293
Benzo (b) fluoranthene	J 255
Benzo (g,h,i) perylene	J 278
Benzo (k) fluoranthene	J 242
Biphenyl	ND< 286
Bis (2-chloroethyl) ether	ND< 286
Bis (2-chloroethoxy) methane	ND< 286
Bis (2-ethylhexyl) phthalate	ND< 286
Bis (2-chloroisopropyl) ether	ND< 286
4-Bromophenyl phenyl ether	ND< 286
Butylbenzylphthalate	ND< 286
Caprolactam	ND< 286
Carbazole	ND< 286
4-Chloroaniline	ND< 286
4-Chloro-3-methylphenol	ND< 286
2-Chloronaphthalene	ND< 286
2-Chlorophenol	ND< 286
4-Chlorophenyl phenyl ether	ND< 286
Chrysene	J 238
Dibenz (a,h) anthracene	ND< 286
Dibenzofuran	ND< 286
3,3'-Dichlorobenzidine	ND< 286
2,4-Dichlorophenol	ND< 286
Diethyl phthalate	ND< 286
2,4-Dimethylphenol	ND< 286
Dimethyl phthalate	ND< 714

Compound	Results in ug / Kg
Di-n-butyl phthalate	ND< 286
4,6-Dinitro-2-methylphenol	ND< 714
2,4-Dinitrophenol	ND< 714
2,4-Dinitrotoluene	ND< 286
2,6-Dinitrotoluene	ND< 286
Di-n-octylphthalate	ND< 286
Fluoranthene	J 256
Fluorene	ND< 286
Hexachlorobenzene	ND< 286
Hexachlorobutadiene	ND< 286
Hexachlorocyclopentadiene	ND< 286
Hexachloroethane	ND< 286
Indeno (1,2,3-cd) pyrene	J 190
Isophorone	ND< 286
2-Methylnapthalene	ND< 286
2-Methylphenol	ND< 286
3&4-Methylphenol	ND< 286
Naphthalene	ND< 286
2-Nitroaniline	ND< 714
3-Nitroaniline	ND< 714
4-Nitroaniline	ND< 714
Nitrobenzene	ND< 286
2-Nitrophenol	ND< 286
4-Nitrophenol	ND< 714
N-Nitroso-di-n-propylamine	ND< 286
N-Nitrosodiphenylamine	ND< 286
Pentachlorophenol	ND< 714
Phenanthrene	ND< 286
Phenol	ND< 286
Pyrene	J 272
2,4,5-Trichlorophenol	ND< 714
2,4,6-Trichlorophenol	ND< 286

ELAP Number 10958 Method: EPA 8270C Data File: S48989.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: Bruce Hoogesteger: Technical Director

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PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	10-0206
Client Job Number:	34202	**Lab Sample Number:**	1443
Field Location:	SI-PAOCI-TP38-NW Dup	**Date Sampled:**	01/07/2010
Field ID Number:	N/A	**Date Received:**	01/08/2010
Sample Type:	Soil	**Date Analyzed:**	01/20/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
None Found	N/A	N/A	ND< 335	N/A

ELAP Number 10958 Method: EPA 8270C Data File: S48989.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

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PARADIGM ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site: City of Watertown Sewall's Island IRM
Client Job Number: 34202
Field Location: SI-PAOCI-TP38-EW
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-0206
Lab Sample Number: 1444

Date Sampled: 01/07/2010
Date Received: 01/08/2010
Date Analyzed: 01/20/2010

Compound	Results in ug / Kg
Acenaphthene	ND< 322
Acenaphthylene	ND< 322
Acetophenone	ND< 322
Anthracene	J 194
Atrazine	ND< 322
Benzaldehyde	ND< 322
Benzo (a) anthracene	1,380
Benzo (a) pyrene	1,850
Benzo (b) fluoranthene	1,610
Benzo (g,h,i) perylene	1,370
Benzo (k) fluoranthene	1,320
Biphenyl	ND< 322
Bis (2-chloroethyl) ether	ND< 322
Bis (2-chloroethoxy) methane	ND< 322
Bis (2-ethylhexyl) phthalate	ND< 322
Bis (2-chloroisopropyl) ether	ND< 322
4-Bromophenyl phenyl ether	ND< 322
Butylbenzylphthalate	ND< 322
Caprolactam	ND< 322
Carbazole	ND< 322
4-Chloroaniline	ND< 322
4-Chloro-3-methylphenol	ND< 322
2-Chloronaphthalene	ND< 322
2-Chlorophenol	ND< 322
4-Chlorophenyl phenyl ether	ND< 322
Chrysene	1,790
Dibenz (a,h) anthracene	596
Dibenzofuran	ND< 322
3,3'-Dichlorobenzidine	ND< 322
2,4-Dichlorophenol	ND< 322
Diethyl phthalate	ND< 322
2,4-Dimethylphenol	ND< 322
Dimethyl phthalate	ND< 805

Compound	Results in ug / Kg
Di-n-butyl phthalate	ND< 322
4,6-Dinitro-2-methylphenol	ND< 805
2,4-Dinitrophenol	ND< 805
2,4-Dinitrotoluene	ND< 322
2,6-Dinitrotoluene	ND< 322
Di-n-octylphthalate	ND< 322
Fluoranthene	1,410
Fluorene	ND< 322
Hexachlorobenzene	ND< 322
Hexachlorobutadiene	ND< 322
Hexachlorocyclopentadiene	ND< 322
Hexachloroethane	ND< 322
Indeno (1,2,3-cd) pyrene	1,090
Isophorone	ND< 322
2-Methylnapthalene	ND< 322
2-Methylphenol	ND< 322
3&4-Methylphenol	ND< 322
Naphthalene	ND< 322
2-Nitroaniline	ND< 805
3-Nitroaniline	ND< 805
4-Nitroaniline	ND< 805
Nitrobenzene	ND< 322
2-Nitrophenol	ND< 322
4-Nitrophenol	ND< 805
N-Nitroso-di-n-propylamine	ND< 322
N-Nitrosodiphenylamine	ND< 322
Pentachlorophenol	ND< 805
Phenanthrene	515
Phenol	ND< 322
Pyrene	M 1,340
2,4,5-Trichlorophenol	ND< 805
2,4,6-Trichlorophenol	ND< 322

ELAP Number 10958 Method: EPA 8270C Data File: S48990.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: Bruce Hoogesteger: Technical Director

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PARADIGM ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	10-0206
Client Job Number:	34202	**Lab Sample Number:**	1444
Field Location:	SI-PAOCI-TP38-EW	**Date Sampled:**	01/07/2010
Field ID Number:	N/A	**Date Received:**	01/08/2010
Sample Type:	Soil	**Date Analyzed:**	01/20/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Unknown PAH	N/A	15.79	332	N/A
Unknown	N/A	16.18	350	N/A
Unknown	N/A	16.55	962	N/A
Unknown PAH	N/A	16.86	1,400	N/A
11H-Benzo[b]fluorene	243-17-4	16.96	728	87
Unknown PAH	N/A	17.01	1,160	N/A
Alkyl pyrene	N/A	17.15	698	N/A
o-terphenyl	84-15-1	17.79	749	70
Benzo[b]naphtho thiophene	N/A	17.83	1,480	N/A
Unknown	N/A	18.40	1,150	N/A
Benzo carbazole	N/A	18.62	810	N/A
Unknown PAH	N/A	18.88	5,320	N/A

ELAP Number 10958 Method: EPA 8270C Data File: S48990.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

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PARADIGM ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site: City of Watertown Sewall's Island IRM
Client Job Number: 34202
Field Location: SI-PAOCI-TP38-SW
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-0206
Lab Sample Number: 1445

Date Sampled: 01/07/2010
Date Received: 01/08/2010
Date Analyzed: 01/21/2010

Compound	Results in ug / Kg
Acenaphthene	599
Acenaphthylene	ND< 344
Acetophenone	ND< 344
Anthracene	1,050
Atrazine	ND< 344
Benzaldehyde	ND< 344
Benzo (a) anthracene	5,150
Benzo (a) pyrene	4,490
Benzo (b) fluoranthene	6,510
Benzo (g,h,i) perylene	5,400
Benzo (k) fluoranthene	4,510
Biphenyl	ND< 344
Bis (2-chloroethyl) ether	ND< 344
Bis (2-chloroethoxy) methane	ND< 344
Bis (2-ethylhexyl) phthalate	ND< 344
Bis (2-chloroisopropyl) ether	ND< 344
4-Bromophenyl phenyl ether	ND< 344
Butylbenzylphthalate	ND< 344
Caprolactam	ND< 344
Carbazole	J 341
4-Chloroaniline	ND< 344
4-Chloro-3-methylphenol	ND< 344
2-Chloronaphthalene	ND< 344
2-Chlorophenol	ND< 344
4-Chlorophenyl phenyl ether	ND< 344
Chrysene	5,280
Dibenz (a,h) anthracene	1,520
Dibenzofuran	J 278
3,3'-Dichlorobenzidine	ND< 344
2,4-Dichlorophenol	ND< 344
Diethyl phthalate	ND< 344
2,4-Dimethylphenol	ND< 344
Dimethyl phthalate	ND< 860

Compound	Results in ug / Kg
Di-n-butyl phthalate	ND< 344
4,6-Dinitro-2-methylphenol	ND< 860
2,4-Dinitrophenol	ND< 860
2,4-Dinitrotoluene	ND< 344
2,6-Dinitrotoluene	ND< 344
Di-n-octylphthalate	ND< 344
Fluoranthene	5,630
Fluorene	401
Hexachlorobenzene	ND< 344
Hexachlorobutadiene	ND< 344
Hexachlorocyclopentadiene	ND< 344
Hexachloroethane	ND< 344
Indeno (1,2,3-cd) pyrene	3,910
Isophorone	ND< 344
2-Methylnapthalene	J 189
2-Methylphenol	ND< 344
3&4-Methylphenol	ND< 344
Naphthalene	492
2-Nitroaniline	ND< 860
3-Nitroaniline	ND< 860
4-Nitroaniline	ND< 860
Nitrobenzene	ND< 344
2-Nitrophenol	ND< 344
4-Nitrophenol	ND< 860
N-Nitroso-di-n-propylamine	ND< 344
N-Nitrosodiphenylamine	ND< 344
Pentachlorophenol	ND< 860
Phenanthrene	3,280
Phenol	ND< 344
Pyrene	5,170
2,4,5-Trichlorophenol	ND< 860
2,4,6-Trichlorophenol	ND< 344

ELAP Number 10958 Method: EPA 8270C Data File: S48993.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: Bruce Hoogesteger: Technical Director

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ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	10-0206
		Lab Sample Number:	1445
Client Job Number:	34202		
Field Location:	SI-PAOCI-TP38-SW	**Date Sampled:**	01/07/2010
Field ID Number:	N/A	**Date Received:**	01/08/2010
Sample Type:	Soil	**Date Analyzed:**	01/21/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Unknown PAH	N/A	14.86	370	N/A
Alkyl anthracene	N/A	14.90	594	N/A
Unknown PAH	N/A	14.96	378	N/A
Unknown	N/A	15.03	868	N/A
Unknown PAH	N/A	16.86	629	N/A
Methyl pyrene	N/A	17.02	386	N/A
Benzo carbazole	N/A	18.63	400	N/A
Unknown PAH	N/A	18.89	380	N/A
Unknown	N/A	19.10	376	N/A
Unknown PAH	N/A	19.87	3,450	N/A
Unknown PAH	N/A	20.38	6,610	N/A
Unknown PAH	N/A	21.12	2,410	N/A
Unknown PAH	N/A	21.36	1,700	N/A
Unknown PAH	N/A	21.40	1,870	N/A

ELAP Number 10958 Method: EPA 8270C Data File: S48993.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

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100206S4.XLS

PARADIGM ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site: City of Watertown Sewall's Island IRM
Client Job Number: 34202
Field Location: SI-PAOCI-TP38-WW
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-0206
Lab Sample Number: 1446

Date Sampled: 01/07/2010
Date Received: 01/08/2010
Date Analyzed: 01/22/2010

Compound	Results in ug / Kg
Acenaphthene	ND< 1,520
Acenaphthylene	ND< 1,520
Acetophenone	ND< 1,520
Anthracene	1,910
Atrazine	ND< 1,520
Benzaldehyde	ND< 1,520
Benzo (a) anthracene	4,770
Benzo (a) pyrene	3,850
Benzo (b) fluoranthene	3,940
Benzo (g,h,i) perylene	2,480
Benzo (k) fluoranthene	3,640
Biphenyl	ND< 1,520
Bis (2-chloroethyl) ether	ND< 1,520
Bis (2-chloroethoxy) methane	ND< 1,520
Bis (2-ethylhexyl) phthalate	ND< 1,520
Bis (2-chloroisopropyl) ether	ND< 1,520
4-Bromophenyl phenyl ether	ND< 1,520
Butylbenzylphthalate	ND< 1,520
Caprolactam	ND< 1,520
Carbazole	ND< 1,520
4-Chloroaniline	ND< 1,520
4-Chloro-3-methylphenol	ND< 1,520
2-Chloronaphthalene	ND< 1,520
2-Chlorophenol	ND< 1,520
4-Chlorophenyl phenyl ether	ND< 1,520
Chrysene	5,080
Dibenz (a,h) anthracene	J 887
Dibenzofuran	ND< 1,520
3,3'-Dichlorobenzidine	ND< 1,520
2,4-Dichlorophenol	ND< 1,520
Diethyl phthalate	ND< 1,520
2,4-Dimethylphenol	ND< 1,520
Dimethyl phthalate	ND< 3,800

Compound	Results in ug / Kg
Di-n-butyl phthalate	ND< 1,520
4,6-Dinitro-2-methylphenol	ND< 3,800
2,4-Dinitrophenol	ND< 3,800
2,4-Dinitrotoluene	ND< 1,520
2,6-Dinitrotoluene	ND< 1,520
Di-n-octylphthalate	ND< 1,520
Fluoranthene	12,700
Fluorene	ND< 1,520
Hexachlorobenzene	ND< 1,520
Hexachlorobutadiene	ND< 1,520
Hexachlorocyclopentadiene	ND< 1,520
Hexachloroethane	ND< 1,520
Indeno (1,2,3-cd) pyrene	1,770
Isophorone	ND< 1,520
2-Methylnapthalene	ND< 1,520
2-Methylphenol	ND< 1,520
3&4-Methylphenol	ND< 1,520
Naphthalene	ND< 1,520
2-Nitroaniline	ND< 3,800
3-Nitroaniline	ND< 3,800
4-Nitroaniline	ND< 3,800
Nitrobenzene	ND< 1,520
2-Nitrophenol	ND< 1,520
4-Nitrophenol	ND< 3,800
N-Nitroso-di-n-propylamine	ND< 1,520
N-Nitrosodiphenylamine	ND< 1,520
Pentachlorophenol	ND< 3,800
Phenanthrene	8,330
Phenol	ND< 1,520
Pyrene	10,100
2,4,5-Trichlorophenol	ND< 3,800
2,4,6-Trichlorophenol	ND< 1,520

ELAP Number 10958 Method: EPA 8270C Data File: S49051.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: Bruce Hoogesteger: Technical Director

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PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	10-0206
		Lab Sample Number:	1446
Client Job Number:	34202		
Field Location:	SI-PAOCI-TP38-WW	**Date Sampled:**	01/07/2010
Field ID Number:	N/A	**Date Received:**	01/08/2010
Sample Type:	Soil	**Date Analyzed:**	01/22/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Unknown	N/A	15.02	1,670	N/A
Unknown PAH	N/A	16.18	1,850	N/A
Unknown PAH	N/A	16.85	5,960	N/A
Unknown PAH	N/A	16.95	2,440	N/A
n-methyl pyrene	N/A	17.01	4,930	N/A
n-methyl pyrene	N/A	17.19	3,660	N/A
Benzo[b]naphtho thiophene	N/A	17.83	3,400	N/A
Unknown	N/A	17.89	3,770	N/A
Unknown	N/A	18.40	3,150	N/A
Unknown carbazole	N/A	18.54	1,750	N/A
Unknown carbazole	N/A	18.62	1,970	N/A
Unknown PAH	N/A	18.87	3,030	N/A
Unknown	N/A	19.09	2,290	N/A
Unknown PAH	N/A	20.04	2,320	N/A

ELAP Number 10958 Method: EPA 8270C Data File: S49051.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogestraer: Technical Director

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PARADIGM ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site: City of Watertown
Sewall's Island IRM
Client Job Number: 34202
Field Location: SI-PAOCI-TP38-Floor
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-0206
Lab Sample Number: 1447

Date Sampled: 01/07/2010
Date Received: 01/08/2010
Date Analyzed: 01/21/2010

Compound	Results in ug / Kg
Acenaphthene	J 217
Acenaphthylene	J 299
Acetophenone	ND< 300
Anthracene	714
Atrazine	ND< 300
Benzaldehyde	ND< 300
Benzo (a) anthracene	1,670
Benzo (a) pyrene	1,610
Benzo (b) fluoranthene	1,710
Benzo (g,h,i) perylene	1,220
Benzo (k) fluoranthene	1,090
Biphenyl	ND< 300
Bis (2-chloroethyl) ether	ND< 300
Bis (2-chloroethoxy) methane	ND< 300
Bis (2-ethylhexyl) phthalate	ND< 300
Bis (2-chloroisopropyl) ether	ND< 300
4-Bromophenyl phenyl ether	ND< 300
Butylbenzylphthalate	ND< 300
Caprolactam	ND< 300
Carbazole	J 173
4-Chloroaniline	ND< 300
4-Chloro-3-methylphenol	ND< 300
2-Chloronaphthalene	ND< 300
2-Chlorophenol	ND< 300
4-Chlorophenyl phenyl ether	ND< 300
Chrysene	1,770
Dibenz (a,h) anthracene	458
Dibenzofuran	J 158
3,3'-Dichlorobenzidine	ND< 300
2,4-Dichlorophenol	ND< 300
Diethyl phthalate	ND< 300
2,4-Dimethylphenol	ND< 300
Dimethyl phthalate	ND< 750

Compound	Results in ug / Kg
Di-n-butyl phthalate	ND< 300
4,6-Dinitro-2-methylphenol	ND< 750
2,4-Dinitrophenol	ND< 750
2,4-Dinitrotoluene	ND< 300
2,6-Dinitrotoluene	ND< 300
Di-n-octylphthalate	ND< 300
Fluoranthene	3,210
Fluorene	J 218
Hexachlorobenzene	ND< 300
Hexachlorobutadiene	ND< 300
Hexachlorocyclopentadiene	ND< 300
Hexachloroethane	ND< 300
Indeno (1,2,3-cd) pyrene	846
Isophorone	ND< 300
2-Methylnapthalene	ND< 300
2-Methylphenol	ND< 300
3&4-Methylphenol	ND< 300
Naphthalene	J 190
2-Nitroaniline	ND< 750
3-Nitroaniline	ND< 750
4-Nitroaniline	ND< 750
Nitrobenzene	ND< 300
2-Nitrophenol	ND< 300
4-Nitrophenol	ND< 750
N-Nitroso-di-n-propylamine	ND< 300
N-Nitrosodiphenylamine	ND< 300
Pentachlorophenol	ND< 750
Phenanthrene	2,260
Phenol	ND< 300
Pyrene	2,760
2,4,5-Trichlorophenol	ND< 750
2,4,6-Trichlorophenol	ND< 300

ELAP Number 10958 Method: EPA 8270C Data File: S48995.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

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PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	10-0206
		Lab Sample Number:	1447
Client Job Number:	34202		
Field Location:	SI-PAOCI-TP38-Floor	**Date Sampled:**	01/07/2010
Field ID Number:	N/A	**Date Received:**	01/08/2010
Sample Type:	Soil	**Date Analyzed:**	01/21/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Unknown	N/A	14.39	306	N/A
Unknown PAH	N/A	14.86	390	N/A
Unknown PAH	N/A	14.90	491	N/A
Unknown PAH	N/A	15.03	600	N/A
Unknown PAH	N/A	15.80	675	N/A
Unknown PAH	N/A	13.61	298	N/A
Unknown PAH	N/A	20.05	1,370	N/A

ELAP Number 10958 Method: EPA 8270C Data File: S48995.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

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Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site: City of Watertown, Sewall's Island IRM
Client Job Number: 34202
Field Location: SI-PAOC-TP39-Drum Floor
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-0206
Lab Sample Number: 1448
Date Sampled: 01/07/2010
Date Received: 01/08/2010
Date Analyzed: 01/20/2010

Compound	Results in ug / Kg
Acenaphthene	ND< 328
Acenaphthylene	ND< 328
Acetophenone	ND< 328
Anthracene	ND< 328
Atrazine	ND< 328
Benzaldehyde	ND< 328
Benzo (a) anthracene	690
Benzo (a) pyrene	711
Benzo (b) fluoranthene	530
Benzo (g,h,i) perylene	431
Benzo (k) fluoranthene	J 222
Biphenyl	ND< 328
Bis (2-chloroethyl) ether	ND< 328
Bis (2-chloroethoxy) methane	ND< 328
Bis (2-ethylhexyl) phthalate	ND< 328
Bis (2-chloroisopropyl) ether	ND< 328
4-Bromophenyl phenyl ether	ND< 328
Butylbenzylphthalate	ND< 328
Caprolactam	ND< 328
Carbazole	ND< 328
4-Chloroaniline	ND< 328
4-Chloro-3-methylphenol	ND< 328
2-Chloronaphthalene	ND< 328
2-Chlorophenol	ND< 328
4-Chlorophenyl phenyl ether	ND< 328
Chrysene	1,740
Dibenz (a,h) anthracene	ND< 328
Dibenzofuran	ND< 328
3,3'-Dichlorobenzidine	ND< 328
2,4-Dichlorophenol	ND< 328
Diethyl phthalate	ND< 328
2,4-Dimethylphenol	ND< 328
Dimethyl phthalate	ND< 821

Compound	Results in ug / Kg
Di-n-butyl phthalate	ND< 328
4,6-Dinitro-2-methylphenol	ND< 821
2,4-Dinitrophenol	ND< 821
2,4-Dinitrotoluene	ND< 328
2,6-Dinitrotoluene	ND< 328
Di-n-octylphthalate	ND< 328
Fluoranthene	J 247
Fluorene	ND< 328
Hexachlorobenzene	ND< 328
Hexachlorobutadiene	ND< 328
Hexachlorocyclopentadiene	ND< 328
Hexachloroethane	ND< 328
Indeno (1,2,3-cd) pyrene	359
Isophorone	ND< 328
2-Methylnapthalene	ND< 328
2-Methylphenol	ND< 328
3&4-Methylphenol	ND< 328
Naphthalene	ND< 328
2-Nitroaniline	ND< 821
3-Nitroaniline	ND< 821
4-Nitroaniline	ND< 821
Nitrobenzene	ND< 328
2-Nitrophenol	ND< 328
4-Nitrophenol	ND< 821
N-Nitroso-di-n-propylamine	ND< 328
N-Nitrosodiphenylamine	ND< 328
Pentachlorophenol	ND< 821
Phenanthrene	ND< 328
Phenol	ND< 328
Pyrene	J 293
2,4,5-Trichlorophenol	ND< 821
2,4,6-Trichlorophenol	ND< 328

ELAP Number 10958 Method: EPA 8270C Data File: S48996.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: Bruce Hoogesteger: Technical Director

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Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	10-0206
		Lab Sample Number:	1448
Client Job Number:	34202		
Field Location:	SI-PAOC-TP39-Drum Floor	**Date Sampled:**	01/07/2010
Field ID Number:	N/A	**Date Received:**	01/08/2010
Sample Type:	Soil	**Date Analyzed:**	01/20/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
n-methyl pyrene	N/A	17.02	805	N/A
n-methyl pyrene	N/A	17.16	553	N/A
Unknown	N/A	17.69	512	N/A
Unknown	N/A	17.8	665	N/A
Benzo[b]naphtho thiophene	N/A	17.84	1,860	N/A
o-terphenyl	84-15-1	17.89	734	94
Unknown	N/A	17.98	837	N/A
Benzo[b]naphtho thiophene	N/A	18.40	710	N/A
Unknown	N/A	18.45	954	N/A
Benzo[b]naphtho thiophene	N/A	18.52	5,280	N/A
Unknown	N/A	18.68	2,900	N/A
Unknown PAH	N/A	18.80	2,430	N/A
Unknown PAH	N/A	18.89	9,500	N/A
Unknown PAH	N/A	18.95	3,990	N/A
Unknown PAH	N/A	19.02	3,030	N/A
Unknown PAH	N/A	19.09	1,200	N/A
Unknown	N/A	19.16	1,040	N/A
Unknown PAH	N/A	19.43	362	N/A
Unknown PAH	N/A	19.59	827	N/A
Unknown PAH	N/A	20.05	564	N/A

ELAP Number 10958 Method: EPA 8270C Data File: S48996.D

Comments: ND denotes Non Detect
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Signature: _____
Bruce Hoogesteger: Technical Director

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Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site: City of Watertown Sewall's Island IRM
Client Job Number: 34202
Field Location: SI-PAOC1-TP38-NW
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-0206
Lab Sample Number: 1442

Date Sampled: 01/07/2010
Date Received: 01/08/2010
Date Analyzed: 01/09/2010

Compound	Results in ug / Kg
Acetone	ND< 20.6
Benzene	ND< 4.12
Bromochloromethane	ND< 10.3
Bromodichloromethane	ND< 4.12
Bromoform	ND< 10.3
Bromomethane	ND< 4.12
2-Butanone	ND< 20.6
Carbon disulfide	ND< 4.12
Carbon Tetrachloride	ND< 10.3
Chlorobenzene	ND< 4.12
Chloroethane	ND< 4.12
Chloroform	ND< 4.12
Chloromethane	ND< 4.12
Cyclohexane	ND< 20.6
Dibromochloromethane	ND< 4.12
1,2-Dibromo-3-Chloropropane	ND< 20.6
1,2-Dibromoethane	ND< 10.3
1,2-Dichlorobenzene	ND< 10.3
1,3-Dichlorobenzene	ND< 10.3
1,4-Dichlorobenzene	ND< 4.12
Dichlorodifluoromethane	ND< 4.12
1,1-Dichloroethane	J 3.71
1,2-Dichloroethane	ND< 4.12
1,1-Dichloroethene	ND< 4.12
cis-1,2-Dichloroethene	ND< 4.12
trans-1,2-Dichloroethene	ND< 4.12

Compound	Results in ug / Kg
1,2-Dichloropropane	ND< 4.12
cis-1,3-Dichloropropene	ND< 4.12
trans-1,3-Dichloropropene	ND< 4.12
Ethylbenzene	7.14
2-Hexanone	ND< 10.3
Isopropylbenzene	ND< 20.6
Methyl acetate	ND< 10.3
Methyl tert-butyl Ether	ND< 4.12
Methylcyclohexane	ND< 4.12
Methylene chloride	ND< 10.3
4-Methyl-2-pentanone	ND< 10.3
Styrene	ND< 10.3
1,1,2,2-Tetrachloroethane	ND< 4.12
Tetrachloroethene	ND< 4.12
Toluene	7.31
Freon 113	ND< 4.12
1,2,3-Trichlorobenzene	ND< 10.3
1,2,4-Trichlorobenzene	ND< 10.3
1,1,1-Trichloroethane	51.8
1,1,2-Trichloroethane	ND< 4.12
Trichloroethene	ND< 4.12
Trichlorofluoromethane	ND< 4.12
Vinyl chloride	ND< 4.12
m,p-Xylene	15.9
o-Xylene	7.25

ELAP Number 10958 Method: EPA 8260B Data File: V71892.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
Surrogate outliers indicate probable matrix interference

Signature:
Bruce Hoogesteger, Technical Director

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ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	10-0206
		Lab Sample Number:	1442
Client Job Number:	34202		
Field Location:	SI-PAOC1-TP38-NW	**Date Sampled:**	01/07/2010
Field ID Number:	N/A	**Date Received:**	01/08/2010
Sample Type:	Soil	**Date Analyzed:**	01/09/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Octane	000111-65-9	6.73	13.4	95

ELAP Number 10958 Method: EPA 8260B Data File: V71892.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
Surrogate outliers indicate probable matrix interference

Signature:
Bruce Hoogesteger, Technical Director

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PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	10-0206
		Lab Sample Number:	1443
Client Job Number:	34202		
Field Location:	SI-PAOC1-TP38-NW Dup	**Date Sampled:**	01/07/2010
Field ID Number:	N/A	**Date Received:**	01/08/2010
Sample Type:	Soil	**Date Analyzed:**	01/09/2010

Compound	Results in ug / Kg
Acetone	ND< 21.1
Benzene	ND< 4.23
Bromochloromethane	ND< 10.6
Bromodichloromethane	ND< 4.23
Bromoform	ND< 10.6
Bromomethane	ND< 4.23
2-Butanone	ND< 21.1
Carbon disulfide	ND< 4.23
Carbon Tetrachloride	ND< 10.6
Chlorobenzene	ND< 4.23
Chloroethane	ND< 4.23
Chloroform	ND< 4.23
Chloromethane	ND< 4.23
Cyclohexane	ND< 21.1
Dibromochloromethane	ND< 4.23
1,2-Dibromo-3-Chloropropane	ND< 21.1
1,2-Dibromoethane	ND< 10.6
1,2-Dichlorobenzene	ND< 10.6
1,3-Dichlorobenzene	ND< 10.6
1,4-Dichlorobenzene	ND< 4.23
Dichlorodifluoromethane	ND< 4.23
1,1-Dichloroethane	J 2.37
1,2-Dichloroethane	ND< 4.23
1,1-Dichloroethene	ND< 4.23
cis-1,2-Dichloroethene	ND< 4.23
trans-1,2-Dichloroethene	ND< 4.23

Compound	Results in ug / Kg
1,2-Dichloropropane	ND< 4.23
cis-1,3-Dichloropropene	ND< 4.23
trans-1,3-Dichloropropene	ND< 4.23
Ethylbenzene	4.60
2-Hexanone	ND< 10.6
Isopropylbenzene	ND< 21.1
Methyl acetate	ND< 10.6
Methyl tert-butyl Ether	ND< 4.23
Methylcyclohexane	ND< 4.23
Methylene chloride	ND< 10.6
4-Methyl-2-pentanone	ND< 10.6
Styrene	ND< 10.6
1,1,2,2-Tetrachloroethane	ND< 4.23
Tetrachloroethene	ND< 4.23
Toluene	4.86
Freon 113	ND< 4.23
1,2,3-Trichlorobenzene	ND< 10.6
1,2,4-Trichlorobenzene	ND< 10.6
1,1,1-Trichloroethane	50.0
1,1,2-Trichloroethane	ND< 4.23
Trichloroethene	ND< 4.23
Trichlorofluoromethane	ND< 4.23
Vinyl chloride	ND< 4.23
m,p-Xylene	10.5
o-Xylene	4.85

ELAP Number 10958 Method: EPA 8260B Data File: V71893.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
Surrogate outliers indicate probable matrix interference

Signature:
Bruce Hoogesteger, Technical Director

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PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	10-0206
		Lab Sample Number:	1443
Client Job Number:	34202		
Field Location:	SI-PAOC1-TP38-NW Dup	**Date Sampled:**	01/07/2010
Field ID Number:	N/A	**Date Received:**	01/08/2010
Sample Type:	Soil	**Date Analyzed:**	01/09/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
None Found	N/A	N/A	ND< 4.23	N/A

ELAP Number 10958 Method: EPA 8260B Data File: V71893.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
Surrogate outliers indicate probable matrix interference

Signature:
Bruce Hoogesteger: Technical Director

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100206V2.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site: City of Watertown
Sewall's Island IRM
Client Job Number: 34202
Field Location: SI-PAOC1-TP38-EW
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-0206
Lab Sample Number: 1444

Date Sampled: 01/07/2010
Date Received: 01/08/2010
Date Analyzed: 01/09/2010

Compound	Results in ug / Kg
Acetone	ND< 183
Benzene	ND< 36.6 M
Bromochloromethane	ND< 91.5
Bromodichloromethane	ND< 36.6
Bromoform	ND< 91.5
Bromomethane	ND< 36.6
2-Butanone	ND< 183
Carbon disulfide	ND< 36.6
Carbon Tetrachloride	ND< 91.5
Chlorobenzene	ND< 36.6 M
Chloroethane	ND< 36.6
Chloroform	ND< 36.6
Chloromethane	ND< 36.6
Cyclohexane	ND< 183
Dibromochloromethane	ND< 36.6
1,2-Dibromo-3-Chloropropane	ND< 183
1,2-Dibromoethane	ND< 91.5
1,2-Dichlorobenzene	ND< 91.5
1,3-Dichlorobenzene	ND< 91.5
1,4-Dichlorobenzene	ND< 36.6
Dichlorodifluoromethane	ND< 36.6
1,1-Dichloroethane	J 26.8
1,2-Dichloroethane	ND< 36.6
1,1-Dichloroethene	ND< 36.6 M
cis-1,2-Dichloroethene	ND< 36.6
trans-1,2-Dichloroethene	ND< 36.6

Compound	Results in ug / Kg
1,2-Dichloropropane	ND< 36.6
cis-1,3-Dichloropropene	ND< 36.6
trans-1,3-Dichloropropene	ND< 36.6
Ethylbenzene	40.6
2-Hexanone	ND< 91.5
Isopropylbenzene	ND< 183
Methyl acetate	ND< 91.5
Methyl tert-butyl Ether	ND< 36.6
Methylcyclohexane	ND< 36.6
Methylene chloride	ND< 91.5
4-Methyl-2-pentanone	ND< 91.5
Styrene	ND< 91.5
1,1,2,2-Tetrachloroethane	ND< 36.6
Tetrachloroethene	ND< 36.6
Toluene	45.8 M
Freon 113	J 19.2
1,2,3-Trichlorobenzene	ND< 91.5
1,2,4-Trichlorobenzene	ND< 91.5
1,1,1-Trichloroethane	1,500
1,1,2-Trichloroethane	ND< 36.6
Trichloroethene	ND< 36.6 M
Trichlorofluoromethane	ND< 36.6
Vinyl chloride	ND< 36.6
m,p-Xylene	99.4
o-Xylene	46.8

ELAP Number 10958 Method: EPA 8260B Data File: V71894.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:
Bruce Hoogesteger, Technical Director

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100206V3.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: **Lu Engineers**

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	10-0206
		Lab Sample Number:	1444
Client Job Number:	34202		
Field Location:	SI-PAOC1-TP38-EW	**Date Sampled:**	01/07/2010
Field ID Number:	N/A	**Date Received:**	01/08/2010
Sample Type:	Soil	**Date Analyzed:**	01/09/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Octane	000111-65-9	6.73	93.1	94

ELAP Number 10958 Method: EPA 8260B Data File: V71894.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:
Bruce Hoogesteger: Technical Director

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100206V3.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	10-0206
Client Job Number:	34202	**Lab Sample Number:**	1445
Field Location:	SI-PAOC1-TP38-SW	**Date Sampled:**	01/07/2010
Field ID Number:	N/A	**Date Received:**	01/08/2010
Sample Type:	Soil	**Date Analyzed:**	01/09/2010

Compound	Results in ug / Kg	Compound	Results in ug / Kg
Acetone	ND< 59.9	1,2-Dichloropropane	ND< 12.0
Benzene	ND< 12.0	cis-1,3-Dichloropropene	ND< 12.0
Bromochloromethane	ND< 30.0	trans-1,3-Dichloropropene	ND< 12.0
Bromodichloromethane	ND< 12.0	Ethylbenzene	ND< 12.0
Bromoform	ND< 30.0	2-Hexanone	ND< 30.0
Bromomethane	ND< 12.0	Isopropylbenzene	ND< 59.9
2-Butanone	ND< 59.9	Methyl acetate	ND< 30.0
Carbon disulfide	ND< 12.0	Methyl tert-butyl Ether	ND< 12.0
Carbon Tetrachloride	ND< 30.0	Methylcyclohexane	ND< 12.0
Chlorobenzene	ND< 12.0	Methylene chloride	ND< 30.0
Chloroethane	ND< 12.0	4-Methyl-2-pentanone	ND< 30.0
Chloroform	ND< 12.0	Styrene	ND< 30.0
Chloromethane	ND< 12.0	1,1,2,2-Tetrachloroethane	ND< 12.0
Cyclohexane	ND< 59.9	Tetrachloroethene	ND< 12.0
Dibromochloromethane	ND< 12.0	Toluene	ND< 12.0
1,2-Dibromo-3-Chloropropane	ND< 59.9	Freon 113	16.2
1,2-Dibromoethane	ND< 30.0	1,2,3-Trichlorobenzene	ND< 30.0
1,2-Dichlorobenzene	ND< 30.0	1,2,4-Trichlorobenzene	ND< 30.0
1,3-Dichlorobenzene	ND< 30.0	1,1,1-Trichloroethane	413
1,4-Dichlorobenzene	ND< 12.0	1,1,2-Trichloroethane	ND< 12.0
Dichlorodifluoromethane	ND< 12.0	Trichloroethene	ND< 12.0
1,1-Dichloroethane	ND< 12.0	Trichlorofluoromethane	ND< 12.0
1,2-Dichloroethane	ND< 12.0	Vinyl chloride	ND< 12.0
1,1-Dichloroethene	ND< 12.0	m,p-Xylene	J 7.65
cis-1,2-Dichloroethene	ND< 12.0	o-Xylene	ND< 12.0
trans-1,2-Dichloroethene	ND< 12.0		

ELAP Number 10958 Method: EPA 8260B Data File: V71897.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

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100206V4.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	10-0206
Client Job Number:	34202	**Lab Sample Number:**	1445
Field Location:	SI-PAOC1-TP38-SW	**Date Sampled:**	01/07/2010
Field ID Number:	N/A	**Date Received:**	01/08/2010
Sample Type:	Soil	**Date Analyzed:**	01/09/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
None Found	N/A	N/A	ND< 12.0	N/A

ELAP Number 10958 Method: EPA 8260B Data File: V71897.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

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PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	10-0206
		Lab Sample Number:	1446
Client Job Number:	34202		
Field Location:	SI-PAOC1-TP38-WW	**Date Sampled:**	01/07/2010
Field ID Number:	N/A	**Date Received:**	01/08/2010
Sample Type:	Soil	**Date Analyzed:**	01/09/2010

Compound	Results in ug / Kg	Compound	Results in ug / Kg
Acetone	ND< 49.0	1,2-Dichloropropane	ND< 9.79
Benzene	ND< 9.79	cis-1,3-Dichloropropene	ND< 9.79
Bromochloromethane	ND< 24.5	trans-1,3-Dichloropropene	ND< 9.79
Bromodichloromethane	ND< 9.79	Ethylbenzene	ND< 9.79
Bromoform	ND< 24.5	2-Hexanone	ND< 24.5
Bromomethane	ND< 9.79	Isopropylbenzene	ND< 49.0
2-Butanone	ND< 49.0	Methyl acetate	ND< 24.5
Carbon disulfide	ND< 9.79	Methyl tert-butyl Ether	ND< 9.79
Carbon Tetrachloride	ND< 24.5	Methylcyclohexane	ND< 9.79
Chlorobenzene	ND< 9.79	Methylene chloride	ND< 24.5
Chloroethane	ND< 9.79	4-Methyl-2-pentanone	ND< 24.5
Chloroform	ND< 9.79	Styrene	ND< 24.5
Chloromethane	ND< 9.79	1,1,2,2-Tetrachloroethane	ND< 9.79
Cyclohexane	ND< 49.0	Tetrachloroethene	ND< 9.79
Dibromochloromethane	ND< 9.79	Toluene	ND< 9.79
1,2-Dibromo-3-Chloropropane	ND< 49.0	Freon 113	10.9
1,2-Dibromoethane	ND< 24.5	1,2,3-Trichlorobenzene	ND< 24.5
1,2-Dichlorobenzene	ND< 24.5	1,2,4-Trichlorobenzene	ND< 24.5
1,3-Dichlorobenzene	ND< 24.5	1,1,1-Trichloroethane	245
1,4-Dichlorobenzene	ND< 9.79	1,1,2-Trichloroethane	ND< 9.79
Dichlorodifluoromethane	ND< 9.79	Trichloroethene	ND< 9.79
1,1-Dichloroethane	ND< 9.79	Trichlorofluoromethane	ND< 9.79
1,2-Dichloroethane	ND< 9.79	Vinyl chloride	ND< 9.79
1,1-Dichloroethene	ND< 9.79	m,p-Xylene	ND< 9.79
cis-1,2-Dichloroethene	ND< 9.79	o-Xylene	ND< 9.79
trans-1,2-Dichloroethene	ND< 9.79		

ELAP Number 10958 Method: EPA 8260B Data File: V71898.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

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100206V5.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	10-0206
Client Job Number:	34202	**Lab Sample Number:**	1446
Field Location:	SI-PAOC1-TP38-WW	**Date Sampled:**	01/07/2010
Field ID Number:	N/A	**Date Received:**	01/08/2010
Sample Type:	Soil	**Date Analyzed:**	01/09/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
None Found	N/A	N/A	ND< 9.79	N/A

ELAP Number 10958 Method: EPA 8260B Data File: V71898.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

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100206V5.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site: City of Watertown
Sewall's Island IRM
Client Job Number: 34202
Field Location: SI-PAOC1-TP38-Floor
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-0206
Lab Sample Number: 1447

Date Sampled: 01/07/2010
Date Received: 01/08/2010
Date Analyzed: 01/09/2010

Compound	Results in ug / Kg
Acetone	ND< 20.4
Benzene	ND< 4.07
Bromochloromethane	ND< 10.2
Bromodichloromethane	ND< 4.07
Bromoform	ND< 10.2
Bromomethane	ND< 4.07
2-Butanone	ND< 20.4
Carbon disulfide	ND< 4.07
Carbon Tetrachloride	ND< 10.2
Chlorobenzene	ND< 4.07
Chloroethane	ND< 4.07
Chloroform	ND< 4.07
Chloromethane	ND< 4.07
Cyclohexane	ND< 20.4
Dibromochloromethane	ND< 4.07
1,2-Dibromo-3-Chloropropane	ND< 20.4
1,2-Dibromoethane	ND< 10.2
1,2-Dichlorobenzene	ND< 10.2
1,3-Dichlorobenzene	ND< 10.2
1,4-Dichlorobenzene	ND< 4.07
Dichlorodifluoromethane	ND< 4.07
1,1-Dichloroethane	8.22
1,2-Dichloroethane	ND< 4.07
1,1-Dichloroethene	ND< 4.07
cis-1,2-Dichloroethene	ND< 4.07
trans-1,2-Dichloroethene	ND< 4.07

Compound	Results in ug / Kg
1,2-Dichloropropane	ND< 4.07
cis-1,3-Dichloropropene	ND< 4.07
trans-1,3-Dichloropropene	ND< 4.07
Ethylbenzene	4.34
2-Hexanone	ND< 10.2
Isopropylbenzene	ND< 20.4
Methyl acetate	ND< 10.2
Methyl tert-butyl Ether	ND< 4.07
Methylcyclohexane	4.68
Methylene chloride	ND< 10.2
4-Methyl-2-pentanone	ND< 10.2
Styrene	ND< 10.2
1,1,2,2-Tetrachloroethane	ND< 4.07
Tetrachloroethene	ND< 4.07
Toluene	6.07
Freon 113	J 2.29
1,2,3-Trichlorobenzene	ND< 10.2
1,2,4-Trichlorobenzene	ND< 10.2
1,1,1-Trichloroethane	374
1,1,2-Trichloroethane	ND< 4.07
Trichloroethene	ND< 4.07
Trichlorofluoromethane	ND< 4.07
Vinyl chloride	ND< 4.07
m,p-Xylene	8.68
o-Xylene	J 3.84

ELAP Number 10958 Method: EPA 8260B Data File: V71899.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:
Bruce Hoogesteger: Technical Director

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100206V6.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	10-0206
		Lab Sample Number:	1447
Client Job Number:	34202		
Field Location:	SI-PAOC1-TP38-Floor	**Date Sampled:**	01/07/2010
Field ID Number:	N/A	**Date Received:**	01/08/2010
Sample Type:	Soil	**Date Analyzed:**	01/09/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Unknown alkane	N/A	6.16	11.3	N/A
Unknown alkane	N/A	6.31	13.2	N/A
Octane	000111-65-9	6.73	34.8	95
Unknown alkane	N/A	6.87	13.3	N/A
Unknown alkane	N/A	7.46	18.0	N/A
Unknown alkane	N/A	7.77	18.5	N/A

ELAP Number 10958 Method: EPA 8260B Data File: V71899.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:
Bruce Hoogesteger: Technical Director

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PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	10-0206
		Lab Sample Number:	1448
Client Job Number:	34202		
Field Location:	SI-PAOC1-TP39-Drum Floor	**Date Sampled:**	01/07/2010
Field ID Number:	N/A	**Date Received:**	01/08/2010
Sample Type:	Soil	**Date Analyzed:**	01/09/2010

Compound	Results in ug / Kg
Acetone	ND< 45.1
Benzene	ND< 9.02
Bromochloromethane	ND< 22.5
Bromodichloromethane	ND< 9.02
Bromoform	ND< 22.5
Bromomethane	ND< 9.02
2-Butanone	ND< 45.1
Carbon disulfide	ND< 9.02
Carbon Tetrachloride	ND< 22.5
Chlorobenzene	ND< 9.02
Chloroethane	ND< 9.02
Chloroform	ND< 9.02
Chloromethane	ND< 9.02
Cyclohexane	ND< 45.1
Dibromochloromethane	ND< 9.02
1,2-Dibromo-3-Chloropropane	ND< 45.1
1,2-Dibromoethane	ND< 22.5
1,2-Dichlorobenzene	ND< 22.5
1,3-Dichlorobenzene	ND< 22.5
1,4-Dichlorobenzene	ND< 9.02
Dichlorodifluoromethane	ND< 9.02
1,1-Dichloroethane	ND< 9.02
1,2-Dichloroethane	ND< 9.02
1,1-Dichloroethene	ND< 9.02
cis-1,2-Dichloroethene	ND< 9.02
trans-1,2-Dichloroethene	ND< 9.02

Compound	Results in ug / Kg
1,2-Dichloropropane	ND< 9.02
cis-1,3-Dichloropropene	ND< 9.02
trans-1,3-Dichloropropene	ND< 9.02
Ethylbenzene	ND< 9.02
2-Hexanone	ND< 22.5
Isopropylbenzene	ND< 45.1
Methyl acetate	ND< 22.5
Methyl tert-butyl Ether	ND< 9.02
Methylcyclohexane	ND< 9.02
Methylene chloride	ND< 22.5
4-Methyl-2-pentanone	ND< 22.5
Styrene	ND< 22.5
1,1,2,2-Tetrachloroethane	ND< 9.02
Tetrachloroethene	ND< 9.02
Toluene	ND< 9.02
Freon 113	18.0
1,2,3-Trichlorobenzene	ND< 22.5
1,2,4-Trichlorobenzene	ND< 22.5
1,1,1-Trichloroethane	196
1,1,2-Trichloroethane	ND< 9.02
Trichloroethene	ND< 9.02
Trichlorofluoromethane	ND< 9.02
Vinyl chloride	ND< 9.02
m,p-Xylene	ND< 9.02
o-Xylene	ND< 9.02

ELAP Number 10958 Method: EPA 8260B Data File: V71900.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

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100206V7.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	10-0206
		Lab Sample Number:	1448
Client Job Number:	34202		
Field Location:	SI-PAOC1-TP39-Drum Floor	**Date Sampled:**	01/07/2010
Field ID Number:	N/A	**Date Received:**	01/08/2010
Sample Type:	Soil	**Date Analyzed:**	01/09/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
None Found	N/A	N/A	ND< 9.02	N/A

ELAP Number 10958 Method: EPA 8260B Data File: V71900.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

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100206V7.XLS

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

PARADIGM

CHAIN OF CUSTODY

REPORT TO:
COMPANY: Lu Engineers
ADDRESS: 2230 Penfield Rd
CITY: Penfield STATE: NY ZIP: 14526
PHONE: 377-1450 FAX: 377-1266
ATTN: Eric Detweiler

INVOICE TO:
COMPANY: Same
ADDRESS:
CITY: STATE: ZIP:
PHONE: FAX:
ATTN: *Please call w/ preliminary results

LAB PROJECT #: 10-0206
CLIENT PROJECT #: 34202

TURNAROUND TIME (WORKING DAYS): VOA - 1 day tat per ED 1/4/10 allelse 10 day tat
STD: 1 2 3 5 OTHER: X
Quotation # ASP pkg 15 day tat

PROJECT NAME/SITE NAME: City of Watertown SEWALL'S ISLAND IRM

COMMENTS: Please email results to edetweiler@luengineers.com

REQUESTED ANALYSIS

585 278-8202

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER OF CONTAINERS	TCL VOCs 8260	TCL SVOCs 8270	TAL Metals							REMARKS	PARADIGM LAB SAMPLE NUMBER
1 1/7/10	11:00	X		SI-PAOC1-TP38-NW	SOIL	1	X	X	X							*ASP CAT B	1442
2 1/7/10	11:02	X		SI-PAOC1-TP38-NW Dup		1	X	X	X								1443
3 1/7/10	11:05	X		SI-PAOC1-TP38-EW		1	X	X	X								1444
4 1/7/10	11:05	X		SI-PAOC1-TP38-EW MS		1	X	X	X								1444 MS
5 1/7/10	11:05	X		SI-PAOC1-TP38-EW MSD		1	X	X	X								1444 MSD
6 1/7/10	11:10	X		SI-PAOC1-TP38-SW		1	X	X	X								1445
7 1/7/10	11:15	X		SI-PAOC1-TP38-WW		1	X	X	X								1446
8 1/7/10	11:20	X		SI-PAOC1-TP38-Floor		1	X	X	X								1447
9 1/7/10	1:30	X		SI-PAOC1-TP39-Drum Floor		1	X	X	X								1448
10																	

LAB USE ONLY BELOW THIS LINE

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter		NELAC Compliance	
Container Type:		Y [X]	N [ ]
Preservation:	N/A	Y [ ]	N [ ]
Holding Time:		Y [X]	N [ ]
Temperature:	5°C iced = from temp blank	Y [X]	N [ ]

Comments:

Eric Detweiler 1/7/10
Sampled By Date/Time

Eric Detweiler 1/8/10 1:35
Relinquished By Date/Time

Received By Date/Time 1/8/10 1335

Elizabeth A. Honch 1/8/10 1435
Received @ Lab By Date/Time

Total Cost:

P.I.F.

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 Office: (585) 647-2530 Fax: (585) 647-3311

LAB REPORT FOR METALS ANALYSIS IN SOLID

Client: Lu Engineers

Client Job Site: City of Watertown
Sewall's Island IRM

Client Job No.: 34202

Lab Project No.: 09-4664

Sample Type: Soil
Method: EPA 7471

Date Sampled: 12/15/2009
Date Received: 12/16/2009
Date Analyzed: 12/17/2009

Lab Sample No.	Field ID No.	Field Location	Mercury Results (mg/kg)
14124	N/A	SI-PAOC3-WW-ASH	<0.0093
12125	N/A	SI-PAOC3-NW1-A	0.283
14126	N/A	SI-PAOC3-NW1Dup-A	0.188
14127	N/A	SI-PAOC3-NW2-A	0.0321
14128	N/A	SI-PAOC3-EW-A	0.980
14129	N/A	SI-PAOC3-SW1-A	0.0730 D,M
14130	N/A	SI-PAOC3-SW2-A	0.0741
14131	N/A	SI-PAOC3-WW-A	0.421

ELAP ID No.:10958

Comments:

Approved By: Val McMillan for:
Bruce Hoogesteger, Technical Director

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

PARADIGM ENVIRONMENTAL SERVICES INC

CHAIN OF CUSTODY

REPORT TO:
COMPANY: Lu Engineers
ADDRESS: 2230 Penfield Rd
CITY: Penfield STATE: NY ZIP: 14526
PHONE: 377-1450 FAX:
ATTN: ERIC DETWEILER

INVOICE TO:
COMPANY: Same
ADDRESS:
CITY: STATE: ZIP:
PHONE: FAX:
ATTN:

LAB PROJECT #: 09-4664
CLIENT PROJECT #: 34202
TURNAROUND TIME: (WORKING DAYS) 24 hr TAT if possible
STD: [X] 1 [ ] 2 [ ] 3 [ ] 5 OTHER [ ]
Quotation #

PROJECT NAME/SITE NAME: City of Watertown Sewall's Island IRM

COMMENTS: email results to edetweiler@luengineers.com

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	TOTAL MERCURY	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	12/15/09	14:50		X	SI-PAOC3-WW-ASH	SOIL	1	X	All SAMPLES ARE	1 4 1 2 4
2	↓	15:00		X	SI-PAOC3-NW1-A	↓	1	X	ASP CAT B	1 4 1 2 5
3	↓	15:00		X	SI-PAOC3-NW1 Dup-A	↓	1	X		1 4 1 2 6
4	↓	15:03		X	SI-PAOC3-NW2-A	↓	1	X	Samples rec'd w/	1 4 1 2 7
5	↓	15:07		X	SI-PAOC3-EW-A	↓	1	X	Custody seals intact. EAH 12/16	1 4 1 2 8
6	↓	15:13		X	SI-PAOC3-SW1-A ~~MS/MSD~~	↓	2	X		1 4 1 2 9
7	↓	15:10		X	SI-PAOC3-SW2-A EAH 12/16	↓	1	X	MS, MSD for SW1A	1 4 1 3 0
8	↓	15:15		X	SI-PAOC3-WW-A	↓	1	X	rewritten on 2 separate lines,	1 4 1 3 1
9	↓	15:13		X	SI-PAOC3-SW1-A MS	SOIL	1	X	so each would	1 4 1 2 9 MS
10	↓	15:13		X	SI-PAOC3-SW1-A MSD	↓	↓	X	have its own sample #.	1 4 1 2 9 MSD

EAH 12/16

LAB USE ONLY BELOW THIS LINE

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter		NELAC Compliance	
Container Type:		Y [X]	N [ ]
Comments:			
Preservation:	N/A	Y [ ]	N [ ]
Comments:			
Holding Time:		Y [X]	N [ ]
Comments:			
Temperature:		Y [X]	N [ ]
Comments:	6°C iced = from temp blank		

Sampled By: ERIC DETWEILER Date/Time: 12/15/09

Relinquished By: [signature] Date/Time: 12/15/09 18:00

Received By: Date/Time:

Received @ Lab By: Elizabeth A. Honch Date/Time: 12/16/09 1050

Total Cost:

P.I.F.

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 Office: (585) 647-2530 Fax: (585) 647-3311

LAB REPORT FOR METALS ANALYSIS IN SOLID

Client: Lu Engineers

Client Job Site: City of Watertown
Sewall's Island IRM

Client Job No.: 34202

Lab Project No.: 10-0325

Sample Type: Soil
Method: EPA 7471

Date Sampled: 01/19/2010
Date Received: 01/20/2010
Date Analyzed: 01/22/2010

Lab Sample No.	Field ID No.	Field Location	Mercury Results (mg/kg)
1849	N/A	SI-PAOC3-EW-B	0.0858 D,M

ELAP ID No.:10958

Comments:

Approved By: _____
Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

File ID:100325.xls

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

PARADIGM

CHAIN OF CUSTODY

REPORT TO:
COMPANY: Lu Engineers
ADDRESS: 2230 Penfield Rd
CITY: Penfield STATE: NY ZIP: 14526
PHONE: 377-1450 FAX: 377-1266
ATTN: Eric Detweiler
COMMENTS: email results to edetweiler@luengineers.com

INVOICE TO:
COMPANY: Same
ADDRESS:
CITY: STATE: ZIP:
PHONE: FAX:
ATTN:

LAB PROJECT #: 10-0325
CLIENT PROJECT #: 34202

TURNAROUND TIME: (WORKING DAYS) Rush TAT
STD: 1 [X] 2 3 5 OTHER

PROJECT NAME/SITE NAME: City of Watertown Sewall's Island IRM

Quotation # 2 days for data. 10 days for package. per V. Miller 1/20 EAH 1/20

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	TOTAL MERCURY									REMARKS	PARADIGM LAB SAMPLE NUMBER
1	1/19/10	3:45	X		SI-PAOC3-EW-B	SOIL	2	X									ASP Cat B	1849
2																		
3																		
4																		
5																		
6																		
7																		
8																	Cooler rec'd at lab w/custody seals intact. EAH 1/20	
9																		
10																		

LAB USE ONLY BELOW THIS LINE

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter		NELAC Compliance	
Container Type:	Comments:	Y [X]	N [ ]
Preservation:	Comments: N/A	Y [ ]	N [ ]
Holding Time:	Comments:	Y [X]	N [ ]
Temperature:	Comments: 2°C iced = from temp blank	Y [X]	N [ ]

Sampled By: ERIC DETWEILER Date/Time: 1/19/10 3:45

Relinquished By: [signature] Date/Time: 1/19/10 4:30

Received By: Elizabeth A. Honch Date/Time: 1/20/10 1040

Received @ Lab By

Total Cost:

P.I.F.

GROUNDWATER SAMPLE RESULTS

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW1-01

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: G2271-01A

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V1K2421.D

Level: (TRACE/LOW/MED) LOW

Date Received: 12/05/2008

% Moisture: not dec.

Date Analyzed: 12/08/2008

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	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
74-88-4	Iodomethane	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
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	1.6	J
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	5.0	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW1-01

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: G2271-01A

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V1K2421.D

Level: (TRACE/LOW/MED) LOW

Date Received: 12/05/2008

% Moisture: not dec.

Date Analyzed: 12/08/2008

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
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
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-MW1-01

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG2271
Matrix: (SOIL/SED/WATER) WATER
Lab Sample ID: G2271-01A
Sample wt/vol: 5.00 (g/mL) ML
Lab File ID: V1K2421.D
Level: (TRACE or LOW/MED) LOW
Date Received: 12/05/2008
% Moisture: not dec.
Date Analyzed: 12/08/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L
Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW2S-01

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: G2271-02A

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V1K2422.D

Level: (TRACE/LOW/MED) LOW

Date Received: 12/05/2008

% Moisture: not dec.

Date Analyzed: 12/08/2008

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	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
74-88-4	Iodomethane	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
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	5.0	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW2S-01

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: G2271-02A

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V1K2422.D

Level: (TRACE/LOW/MED) LOW

Date Received: 12/05/2008

% Moisture: not dec.

Date Analyzed: 12/08/2008

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
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
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	11	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	13	
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	21	
135-98-8	sec-Butylbenzene	5.2	
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.1	
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
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	22	

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-MW2S-01

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG2271
Matrix: (SOIL/SED/WATER) WATER
Lab Sample ID: G2271-02A
Sample wt/vol: 5.00 (g/mL) ML
Lab File ID: V1K2422.D
Level: (TRACE or LOW/MED) LOW
Date Received: 12/05/2008
% Moisture: not dec.
Date Analyzed: 12/08/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L
Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	496-11-7	Indane	12.727	57	NJ
02	934-80-5	Benzene, 4-ethyl-1,2-dimethy	13.279	54	NJ
03	7525-62-4	Benzene, 1-ethenyl-3-ethyl-	13.387	41	NJ
04	95-93-2	Benzene, 1,2,4,5-tetramethyl	13.722	44	NJ
05	824-90-8	1-Phenyl-1-butene	14.225	120	NJ
06		Unknown-01	14.648	33	J
07	6682-71-9	1H-Indene, 2,3-dihydro-4,7-d	15.515	50	NJ
08	90-12-0	Naphthalene, 1-methyl-	16.077	79	NJ
09	91-57-6	Naphthalene, 2-methyl-	16.264	170	NJ
10	581-42-0	Naphthalene, 2,6-dimethyl-	17.161	46	NJ
11	575-37-1	Naphthalene, 1,7-dimethyl-	17.328	47	NJ
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW2D-01

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: G2271-04A

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V1K2424.D

Level: (TRACE/LOW/MED) LOW

Date Received: 12/05/2008

% Moisture: not dec.

Date Analyzed: 12/08/2008

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	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
74-88-4	Iodomethane	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
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	5.0	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW2D-01

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: G2271-04A

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V1K2424.D

Level: (TRACE/LOW/MED) LOW

Date Received: 12/05/2008

% Moisture: not dec.

Date Analyzed: 12/08/2008

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
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
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-MW2D-01

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG2271
Matrix: (SOIL/SED/WATER) WATER
Lab Sample ID: G2271-04A
Sample wt/vol: 5.00 (g/mL) ML
Lab File ID: V1K2424.D
Level: (TRACE or LOW/MED) LOW
Date Received: 12/05/2008
% Moisture: not dec.
Date Analyzed: 12/08/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L
Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW3-01

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: G2271-05A

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V1K2425.D

Level: (TRACE/LOW/MED) LOW

Date Received: 12/05/2008

% Moisture: not dec.

Date Analyzed: 12/08/2008

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	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
74-88-4	Iodomethane	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
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	6.3	
71-55-6	1,1,1-Trichloroethane	2.7	J
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	5.0	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW3-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G2271-05A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1K2425.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/05/2008

% Moisture: not dec. Date Analyzed: 12/08/2008

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
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
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-MW3-01

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG2271
Matrix: (SOIL/SED/WATER) WATER
Lab Sample ID: G2271-05A
Sample wt/vol: 5.00 (g/mL) ML
Lab File ID: V1K2425.D
Level: (TRACE or LOW/MED) LOW
Date Received: 12/05/2008
% Moisture: not dec.
Date Analyzed: 12/08/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L
Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW4-01

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: G2271-06A

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V1K2458.D

Level: (TRACE/LOW/MED) LOW

Date Received: 12/05/2008

% Moisture: not dec.

Date Analyzed: 12/09/2008

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	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
74-88-4	Iodomethane	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
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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	2.9	J
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW4-01

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: G2271-06A

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V1K2458.D

Level: (TRACE/LOW/MED) LOW

Date Received: 12/05/2008

% Moisture: not dec.

Date Analyzed: 12/09/2008

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
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
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	1.9	J
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	1.9	J
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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-MW4-01

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG2271
Matrix: (SOIL/SED/WATER) WATER
Lab Sample ID: G2271-06A
Sample wt/vol: 5.00 (g/mL) ML
Lab File ID: V1K2458.D
Level: (TRACE or LOW/MED) LOW
Date Received: 12/05/2008
% Moisture: not dec.
Date Analyzed: 12/09/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L
Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW5-01

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: G2271-07A

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V1K2486.D

Level: (TRACE/LOW/MED) LOW

Date Received: 12/05/2008

% Moisture: not dec.

Date Analyzed: 12/09/2008

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	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
74-88-4	Iodomethane	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
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	5.0	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW5-01

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: G2271-07A

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V1K2486.D

Level: (TRACE/LOW/MED) LOW

Date Received: 12/05/2008

% Moisture: not dec.

Date Analyzed: 12/09/2008

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
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
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-MW5-01

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG2271
Matrix: (SOIL/SED/WATER) WATER
Lab Sample ID: G2271-07A
Sample wt/vol: 5.00 (g/mL) ML
Lab File ID: V1K2486.D
Level: (TRACE or LOW/MED) LOW
Date Received: 12/05/2008
% Moisture: not dec.
Date Analyzed: 12/09/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L
Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	4516-69-2	Cyclopentane, 1,1,3-trimethy	6.475	9.0	NJ
02	4850-28-6	Cyclopentane, 1,2,4-trimethy	6.810	13	NJ
03		Unknown-01	8.081	6.6	J
	E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW6-01

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: G2271-08A

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V1K2417.D

Level: (TRACE/LOW/MED) LOW

Date Received: 12/05/2008

% Moisture: not dec.

Date Analyzed: 12/08/2008

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	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
74-88-4	Iodomethane	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
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	5.0	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW6-01

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: G2271-08A

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V1K2417.D

Level: (TRACE/LOW/MED) LOW

Date Received: 12/05/2008

% Moisture: not dec.

Date Analyzed: 12/08/2008

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
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
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-MW6-01

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG2271
Matrix: (SOIL/SED/WATER) WATER
Lab Sample ID: G2271-08A
Sample wt/vol: 5.00 (g/mL) ML
Lab File ID: V1K2417.D
Level: (TRACE or LOW/MED) LOW
Date Received: 12/05/2008
% Moisture: not dec.
Date Analyzed: 12/08/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L
Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW7-01

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: G2271-09A

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V1K2460.D

Level: (TRACE/LOW/MED) LOW

Date Received: 12/05/2008

% Moisture: not dec.

Date Analyzed: 12/09/2008

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	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	78	
74-88-4	Iodomethane	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
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	6.7	
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	8.3	
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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	190	
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW7-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G2271-09A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1K2460.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/05/2008

% Moisture: not dec. Date Analyzed: 12/09/2008

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
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
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	1.6	J
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	1.6	J
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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-MW7-01

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG2271
Matrix: (SOIL/SED/WATER) WATER
Lab Sample ID: G2271-09A
Sample wt/vol: 5.00 (g/mL) ML
Lab File ID: V1K2460.D
Level: (TRACE or LOW/MED) LOW
Date Received: 12/05/2008
% Moisture: not dec.
Date Analyzed: 12/09/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L
Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW8-01

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: G2271-10A

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V1K2461.D

Level: (TRACE/LOW/MED) LOW

Date Received: 12/05/2008

% Moisture: not dec.

Date Analyzed: 12/09/2008

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	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
74-88-4	Iodomethane	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
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	2.6	J
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	5.0	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW8-01

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.:

Mod. Ref No.:

SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: G2271-10A

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V1K2461.D

Level: (TRACE/LOW/MED) LOW

Date Received: 12/05/2008

% Moisture: not dec.

Date Analyzed: 12/09/2008

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
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
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

SW846

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-MW8-01

Lab Name: MITKEM LABORATORIES
Contract:
Lab Code: MITKEM
Case No.:
Mod. Ref No.:
SDG No.: MG2271
Matrix: (SOIL/SED/WATER) WATER
Lab Sample ID: G2271-10A
Sample wt/vol: 5.00 (g/mL) ML
Lab File ID: V1K2461.D
Level: (TRACE or LOW/MED) LOW
Date Received: 12/05/2008
% Moisture: not dec.
Date Analyzed: 12/09/2008
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L
Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW1-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G2271-01B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3F4730.D

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 12/05/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/09/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/19/2008

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
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	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
120-82-1	1,2,4-Trichlorobenzene	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

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW1-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G2271-01B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3F4730.D

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 12/05/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/09/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
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

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-MW1-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G2271-01B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3F4730.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 12/05/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/09/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	9.264	4.7	J
02	143-07-7	Dodecanoic acid	9.841	8.5	BNJ
03		Unknown-02	12.929	8.7	J
04		Unknown-03	14.323	8.8	J
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW2S-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G2271-02B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3F4731.D

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 12/05/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/09/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/19/2008

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
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	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
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	16	
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	87	
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	7.4	J
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5.5	J
121-14-2	2,4-Dinitrotoluene	10	U

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW2S-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G2271-02B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3F4731.D

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 12/05/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/09/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	
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	5.7	J
120-12-7	Anthracene	10	U
86-74-8	Carbazole	1.4	J
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

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-MW2S-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G2271-02B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3F4731.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 12/05/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/09/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	933-98-2	Benzene, 1-ethyl-2,3-dimethy	4.533	40	NJ
02	824-90-8	1-Phenyl-1-butene	5.222	25	NJ
03	95-93-2	Benzene, 1,2,4,5-tetramethyl	5.243	20	NJ
04	56253-64-6	Benzene, (2-methyl-1-butenyl	5.740	18	NJ
05		Unknown-01	6.451	43	J
06	90-12-0	Naphthalene, 1-methyl-	7.135	140	NJ
07		Unknown-02	7.813	24	J
08	1127-76-0	Naphthalene, 1-ethyl-	8.107	44	NJ
09		Unknown-03	8.251	60	J
10	581-40-8	Naphthalene, 2,3-dimethyl-	8.422	140	NJ
11	575-43-9	Naphthalene, 1,6-dimethyl-	8.470	51	NJ
12	581-40-8	Naphthalene, 2,3-dimethyl-	8.657	39	NJ
13	575-37-1	Naphthalene, 1,7-dimethyl-	8.828	52	NJ
14		Unknown-04	9.389	34	J
15	2245-38-7	Naphthalene, 1,6,7-trimethyl	9.571	29	NJ
16	2245-38-7	Naphthalene, 1,6,7-trimethyl	9.635	32	NJ
17	2245-38-7	Naphthalene, 1,6,7-trimethyl	9.758	35	NJ
18	143-07-7	Dodecanoic acid	9.886	23	BNJ
19		Unknown-05	10.148	38	J
20	1921-70-6	Pentadecane, 2,6,10,14-tetra	10.757	29	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW2D-01

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM Case No.:

Mod. Ref No.: SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: G2271-04B

Sample wt/vol: 500 (g/mL) ML

Lab File ID: S3F4733.D

Level: (LOW/MED) LOW

Extraction: (Type) CONT

% Moisture: Decanted: (Y/N)

Date Received: 12/05/2008

Concentrated Extract Volume: 500 (uL)

Date Extracted: 12/09/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00

Date Analyzed: 12/19/2008

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
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	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
120-82-1	1,2,4-Trichlorobenzene	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

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW2D-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G2271-04B

Sample wt/vol: 500 (g/mL) ML Lab File ID: S3F4733.D

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 12/05/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/09/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
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	4.1	J
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

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-MW2D-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G2271-04B

Sample wt/vol: 500 (g/mL) ML Lab File ID: S3F4733.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 12/05/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/09/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	2440-60-0	O-Methylisourea	5.362	9.4	NJ
02		Unknown-01	5.442	4.8	J
03		Unknown-02	5.672	5.5	J
04	105-60-2	Caprolactam	6.527	250	NJ
05		Unknown-03	7.109	6.2	J
06	96-76-4	Phenol, 2,4-bis(1,1-dimethyl	9.358	5.2	NJ
07	143-07-7	Dodecanoic acid	9.865	43	BNJ
08		Unknown-04	10.763	5.9	J
09		Unknown-05	10.806	5.7	J
10		Unknown-06	10.854	5.0	J
11		Unknown-07	11.009	4.4	J
12		Unknown-08	11.046	4.2	J
13	5776-79-4	1,8-Diazacyclotetradecane-2,	12.985	5.3	NJ
14		Unknown-09	13.578	44	J
15		Unknown-10	14.107	28	J
16		Unknown-11	14.331	26	J
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW3-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G2271-05B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3F4734.D

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 12/05/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/09/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/19/2008

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
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	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
120-82-1	1,2,4-Trichlorobenzene	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

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW3-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G2271-05B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3F4734.D

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 12/05/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/09/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
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

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-MW3-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G2271-05B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3F4734.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 12/05/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/09/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	5469-16-9	2(3H)-Furanone, dihydro-4-hy	5.305	4.5	NJ
02	105-60-2	Caprolactam	6.475	110	NJ
03	143-07-7	Dodecanoic acid	9.846	18	BNJ
04	5776-79-4	1,8-Diazacyclotetradecane-2,	12.982	11	NJ
05	24468-13-1	dl-2-Ethylhexyl chloroformat	13.580	10	NJ
06		Unknown-01	13.692	4.6	J
07		Unknown-02	13.788	4.6	J
08		Unknown-03	14.103	6.6	J
09		Unknown-04	14.328	12	J
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW4-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G2271-06B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3F4735.D

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 12/05/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/09/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/19/2008

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
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	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
120-82-1	1,2,4-Trichlorobenzene	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

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW4-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G2271-06B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3F4735.D

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 12/05/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/09/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
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

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-MW4-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G2271-06B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3F4735.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 12/05/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/09/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	105-60-2	Caprolactam	6.488	130	NJ
02	143-07-7	Dodecanoic acid	9.848	18	BNJ
03	5776-79-4	1,8-Diazacyclotetradecane-2,	12.995	7.3	NJ
04		Unknown-01	13.577	6.7	J
05	24468-13-1	dl-2-Ethylhexyl chloroformat	14.100	4.4	NJ
06	112-84-5	13-Docosenamide, (Z)-	14.330	9.8	BNJ
07		Unknown-02	16.227	4.4	J
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW5-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G2271-07B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3F4736.D

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 12/05/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/09/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/19/2008

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
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	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
120-82-1	1,2,4-Trichlorobenzene	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

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW5-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G2271-07B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3F4736.D

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 12/05/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/09/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
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

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-MW5-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G2271-07B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3F4736.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 12/05/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/09/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	143-07-7	Dodecanoic acid	9.857	32	BNJ
02	5617-32-3	Heptaethylene glycol	12.261	5.9	NJ
03	5617-32-3	Heptaethylene glycol	13.158	6.5	NJ
04	000163-64-0	1,4,7,10,13,16-Hexaoxanonade	13.928	8.0	NJ
05		Unknown-01	14.328	11	J
06		Unknown-02	14.633	6.6	J
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW6-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G2271-08B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3F4737.D

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 12/05/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/09/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/19/2008

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
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	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
120-82-1	1,2,4-Trichlorobenzene	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

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW6-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G2271-08B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3F4737.D

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 12/05/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/09/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
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

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-MW6-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G2271-08B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3F4737.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 12/05/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/09/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	3.967	6.4	J
02	105-60-2	Caprolactam	6.461	81	NJ
03	143-07-7	Dodecanoic acid	9.843	11	BNJ
04		Unknown-02	12.979	5.9	J
05	24468-13-1	dl-2-Ethylhexyl chloroformat	13.577	9.4	NJ
06		Unknown-03	14.101	6.4	J
07	10436-09-6	trans-13-Docosenamide	14.325	36	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW7-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G2271-09B

Sample wt/vol: 500 (g/mL) ML Lab File ID: S3F4747.D

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 12/05/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/09/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
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	2.7	J
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

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SI-MW7-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G2271-09B

Sample wt/vol: 500 (g/mL) ML Lab File ID: S3F4747.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 12/05/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/09/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	5.204	6.3	J
02	54446-78-5	Ethanol, 1-(2-butoxyethoxy)-	5.509	20	NJ
03		Unknown-02	7.245	14	J
04		Unknown-03	9.131	12	J
05	143-07-7	Dodecanoic acid	9.820	46	BNJ
06		Unknown-04	10.424	5.4	J
07		Unknown-05	10.760	5.9	J
08		Unknown-06	10.808	5.8	J
09	4792-15-8	Pentaethylene glycol	11.075	14	NJ
10	82304-66-3	7,9-Di-tert-butyl-1-oxaspiro	11.663	6.0	NJ
11	2615-15-8	Hexagol	12.224	35	NJ
12	83410-52-0	1,4,7,10,13,16,19-Heptaoxa-2	12.961	4.6	NJ
13	2615-15-8	Hexagol	13.121	23	NJ
14	000163-64-0	1,4,7,10,13,16-Hexaoxanonade	13.891	44	NJ
15		Unknown-07	14.281	24	J
16	2615-15-8	Hexagol	14.585	58	NJ
17	000163-64-0	1,4,7,10,13,16-Hexaoxanonade	15.280	37	NJ
18	2615-15-8	Hexagol	16.188	7.6	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW8-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G2271-10B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3F4746.D

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 12/05/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/09/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/19/2008

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
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	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
120-82-1	1,2,4-Trichlorobenzene	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

SW846

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW8-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G2271-10B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3F4746.D

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 12/05/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/09/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
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

SW846

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SI-MW8-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G2271-10B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3F4746.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 12/05/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/09/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	3.134	4.9	J
02		Unknown-02	5.201	7.6	J
03		Unknown-03	5.254	4.4	J
04		Unknown-04	6.707	5.5	J
05	80-53-5	Cyclohexanemethanol, 4-hydro	7.007	4.4	NJ
06	96-76-4	Phenol, 2,4-bis(1,1-dimethyl	9.288	11	NJ
07	143-07-7	Dodecanoic acid	9.811	39	BNJ
08		Unknown-05	10.714	4.6	J
09		Unknown-06	10.757	5.1	J
10		Unknown-07	10.805	4.3	J
11		Unknown-08	10.965	4.4	J
12		Unknown-09	14.283	28	J
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW1-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G2271-01B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E1H3624F.D/E1H3624R.D

% Moisture: Decanted: (Y/N) Date Received: 12/05/2008

Extraction: (Type) SEPF Date Extracted: 12/08/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/16/2008

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

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW2S-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G2271-02B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E1H3625F.D/E1H3625R.D

% Moisture: Decanted: (Y/N) Date Received: 12/05/2008

Extraction: (Type) SEPF Date Extracted: 12/08/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/16/2008

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

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW2D-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G2271-04B

Sample wt/vol: 500 (g/mL) ML Lab File ID: E1H3627F.D/E1H3627R.D

% Moisture: Decanted: (Y/N) Date Received: 12/05/2008

Extraction: (Type) SEPF Date Extracted: 12/08/2008

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/16/2008

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

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW3-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G2271-05B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E1H3628F.D/E1H3628R.D

% Moisture: Decanted: (Y/N) Date Received: 12/05/2008

Extraction: (Type) SEPF Date Extracted: 12/08/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/16/2008

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

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW4-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G2271-06B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E1H3629F.D/E1H3629R.D

% Moisture: Decanted: (Y/N) Date Received: 12/05/2008

Extraction: (Type) SEPF Date Extracted: 12/08/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/16/2008

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

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW5-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G2271-07B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E1H3630F.D/E1H3630R.D

% Moisture: Decanted: (Y/N) Date Received: 12/05/2008

Extraction: (Type) SEPF Date Extracted: 12/08/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/16/2008

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

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW6-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G2271-08B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E1H3631F.D/E1H3631R.D

% Moisture: Decanted: (Y/N) Date Received: 12/05/2008

Extraction: (Type) SEPF Date Extracted: 12/08/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/16/2008

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

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW7-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G2271-09B

Sample wt/vol: 150 (g/mL) ML Lab File ID: E1H3639F.D/E1H3639R.D

% Moisture: Decanted: (Y/N) Date Received: 12/05/2008

Extraction: (Type) SEPF Date Extracted: 12/08/2008

Concentrated Extract Volume: 1200 (uL) Date Analyzed: 12/16/2008

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	0.80	U
11104-28-2	Aroclor-1221	0.80	U
11141-16-5	Aroclor-1232	0.80	U
53469-21-9	Aroclor-1242	0.80	U
12672-29-6	Aroclor-1248	0.80	U
11097-69-1	Aroclor-1254	0.80	U
11096-82-5	Aroclor-1260	0.80	U

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SI-MW8-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG2271

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G2271-10B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E1H3640F.D/E1H3640R.D

% Moisture: Decanted: (Y/N) Date Received: 12/05/2008

Extraction: (Type) SEPF Date Extracted: 12/08/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/16/2008

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

SW846

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-MW1-01

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG2271

Matrix (soil/water): WATER Lab Sample ID: G2271-01

Level (low/med): MED Date Received: 12/05/2008

% 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	56.0	U		P
7440-36-0	Antimony	4.6	U		P
7440-38-2	Arsenic	5.3	U		P
7440-39-3	Barium	68.0	B		P
7440-41-7	Beryllium	0.13	U		P
7440-43-9	Cadmium	0.14	U		P
7440-70-2	Calcium	184000			P
7440-47-3	Chromium	1.1	U		P
7440-48-4	Cobalt	1.5	B		P
7440-50-8	Copper	12.5	B		P
7439-89-6	Iron	61.0	U		P
7439-92-1	Lead	2.2	U		P
7439-95-4	Magnesium	14500			P
7439-96-5	Manganese	7.6	B		P
7439-97-6	Mercury	0.016	U		CV
7440-02-0	Nickel	2.6	B		P
7440-09-7	Potassium	1200			P
7782-49-2	Selenium	6.6	U		P
7440-22-4	Silver	0.59	U		P
7440-23-5	Sodium	12500			P
7440-28-0	Thallium	4.2	U		P
7440-62-2	Vanadium	0.96	U		P
7440-66-6	Zinc	13.7	B		P

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-MW2D-01

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG2271

Matrix (soil/water): WATER Lab Sample ID: G2271-04

Level (low/med): MED Date Received: 12/05/2008

% 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	56.0	U		P
7440-36-0	Antimony	4.6	U		P
7440-38-2	Arsenic	5.3	U		P
7440-39-3	Barium	202			P
7440-41-7	Beryllium	0.13	U		P
7440-43-9	Cadmium	0.14	U		P
7440-70-2	Calcium	104000			P
7440-47-3	Chromium	1.1	U		P
7440-48-4	Cobalt	1.2	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	6800			P
7439-92-1	Lead	2.2	U		P
7439-95-4	Magnesium	17400			P
7439-96-5	Manganese	174			P
7439-97-6	Mercury	0.016	U		CV
7440-02-0	Nickel	1.5	U		P
7440-09-7	Potassium	6420			P
7782-49-2	Selenium	6.6	U		P
7440-22-4	Silver	0.59	U		P
7440-23-5	Sodium	33500			P
7440-28-0	Thallium	4.2	U		P
7440-62-2	Vanadium	1.1	B		P
7440-66-6	Zinc	12.8	B		P

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-MW2S-01

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG2271

Matrix (soil/water): WATER Lab Sample ID: G2271-02

Level (low/med): MED Date Received: 12/05/2008

% 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	5260			P
7440-36-0	Antimony	4.6	U		P
7440-38-2	Arsenic	5.3	U		P
7440-39-3	Barium	143	B		P
7440-41-7	Beryllium	0.39	B		P
7440-43-9	Cadmium	0.14	U		P
7440-70-2	Calcium	229000			P
7440-47-3	Chromium	7.3	B		P
7440-48-4	Cobalt	4.5	B		P
7440-50-8	Copper	36.0			P
7439-89-6	Iron	14300			P
7439-92-1	Lead	22.3			P
7439-95-4	Magnesium	17900			P
7439-96-5	Manganese	347			P
7439-97-6	Mercury	0.12	B		CV
7440-02-0	Nickel	6.2	B		P
7440-09-7	Potassium	16500			P
7782-49-2	Selenium	6.6	U		P
7440-22-4	Silver	0.59	U		P
7440-23-5	Sodium	17300			P
7440-28-0	Thallium	4.2	U		P
7440-62-2	Vanadium	8.2	B		P
7440-66-6	Zinc	57.4			P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-MW3-01

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG2271

Matrix (soil/water): WATER Lab Sample ID: G2271-05

Level (low/med): MED Date Received: 12/05/2008

% 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	56.0	U		P
7440-36-0	Antimony	4.6	U		P
7440-38-2	Arsenic	5.3	U		P
7440-39-3	Barium	67.7	B		P
7440-41-7	Beryllium	0.13	U		P
7440-43-9	Cadmium	0.14	U		P
7440-70-2	Calcium	134000			P
7440-47-3	Chromium	1.1	U		P
7440-48-4	Cobalt	1.2	U		P
7440-50-8	Copper	137			P
7439-89-6	Iron	198	B		P
7439-92-1	Lead	2.2	U		P
7439-95-4	Magnesium	11800			P
7439-96-5	Manganese	37.8	B		P
7439-97-6	Mercury	0.016	U		CV
7440-02-0	Nickel	2.9	B		P
7440-09-7	Potassium	4950			P
7782-49-2	Selenium	6.6	U		P
7440-22-4	Silver	0.59	U		P
7440-23-5	Sodium	16700			P
7440-28-0	Thallium	4.2	U		P
7440-62-2	Vanadium	0.96	U		P
7440-66-6	Zinc	196			P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-MW4-01

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG2271

Matrix (soil/water): WATER Lab Sample ID: G2271-06

Level (low/med): MED Date Received: 12/05/2008

% 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	613			P
7440-36-0	Antimony	4.6	U		P
7440-38-2	Arsenic	5.3	U		P
7440-39-3	Barium	95.9	B		P
7440-41-7	Beryllium	0.13	U		P
7440-43-9	Cadmium	0.14	U		P
7440-70-2	Calcium	146000			P
7440-47-3	Chromium	1.6	B		P
7440-48-4	Cobalt	3.4	B		P
7440-50-8	Copper	18.1	B		P
7439-89-6	Iron	5300			P
7439-92-1	Lead	9.7	B		P
7439-95-4	Magnesium	18000			P
7439-96-5	Manganese	277			P
7439-97-6	Mercury	0.016	U		CV
7440-02-0	Nickel	2.7	B		P
7440-09-7	Potassium	6900			P
7782-49-2	Selenium	6.6	U		P
7440-22-4	Silver	0.59	U		P
7440-23-5	Sodium	58100			P
7440-28-0	Thallium	4.2	U		P
7440-62-2	Vanadium	1.8	B		P
7440-66-6	Zinc	25.9	B		P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-MW5-01

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG2271

Matrix (soil/water): WATER Lab Sample ID: G2271-07

Level (low/med): MED Date Received: 12/05/2008

% 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	124	B		P
7440-36-0	Antimony	4.6	U		P
7440-38-2	Arsenic	5.3	U		P
7440-39-3	Barium	36.2	B		P
7440-41-7	Beryllium	0.13	U		P
7440-43-9	Cadmium	0.14	U		P
7440-70-2	Calcium	152000			P
7440-47-3	Chromium	1.7	B		P
7440-48-4	Cobalt	1.3	B		P
7440-50-8	Copper	5.8	B		P
7439-89-6	Iron	948			P
7439-92-1	Lead	2.2	U		P
7439-95-4	Magnesium	7220			P
7439-96-5	Manganese	76.3			P
7439-97-6	Mercury	0.016	U		CV
7440-02-0	Nickel	1.5	U		P
7440-09-7	Potassium	5580			P
7782-49-2	Selenium	6.6	U		P
7440-22-4	Silver	0.59	U		P
7440-23-5	Sodium	35700			P
7440-28-0	Thallium	4.2	U		P
7440-62-2	Vanadium	0.96	U		P
7440-66-6	Zinc	22.2	B		P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-MW6-01

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG2271

Matrix (soil/water): WATER Lab Sample ID: G2271-08

Level (low/med): MED Date Received: 12/05/2008

% 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	56.0	U		P
7440-36-0	Antimony	4.6	U		P
7440-38-2	Arsenic	5.3	U		P
7440-39-3	Barium	156	B		P
7440-41-7	Beryllium	0.13	U		P
7440-43-9	Cadmium	0.14	U		P
7440-70-2	Calcium	86400			P
7440-47-3	Chromium	1.1	U		P
7440-48-4	Cobalt	1.2	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	119	B		P
7439-92-1	Lead	2.2	U		P
7439-95-4	Magnesium	8430			P
7439-96-5	Manganese	9.6	B		P
7439-97-6	Mercury	0.016	U		CV
7440-02-0	Nickel	1.6	B		P
7440-09-7	Potassium	3800			P
7782-49-2	Selenium	6.6	U		P
7440-22-4	Silver	0.59	U		P
7440-23-5	Sodium	5490			P
7440-28-0	Thallium	4.2	U		P
7440-62-2	Vanadium	0.96	U		P
7440-66-6	Zinc	26.0	B		P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-MW7-01

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG2271

Matrix (soil/water): WATER Lab Sample ID: G2271-09

Level (low/med): MED Date Received: 12/05/2008

% 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	4060			P
7440-36-0	Antimony	4.7	B		P
7440-38-2	Arsenic	6.5	B		P
7440-39-3	Barium	29.8	B		P
7440-41-7	Beryllium	0.13	U		P
7440-43-9	Cadmium	0.14	U		P
7440-70-2	Calcium	32300			P
7440-47-3	Chromium	13.3	B		P
7440-48-4	Cobalt	2.6	B		P
7440-50-8	Copper	48.0			P
7439-89-6	Iron	685			P
7439-92-1	Lead	2.3	B		P
7439-95-4	Magnesium	406	B		P
7439-96-5	Manganese	8.2	B		P
7439-97-6	Mercury	0.086	B		CV
7440-02-0	Nickel	19.3	B		P
7440-09-7	Potassium	24400			P
7782-49-2	Selenium	6.8	B		P
7440-22-4	Silver	0.59	U		P
7440-23-5	Sodium	322000			P
7440-28-0	Thallium	4.2	U		P
7440-62-2	Vanadium	43.2	B		P
7440-66-6	Zinc	23.6	B		P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SI-MW8-01

Lab Name: Mitkem Laboratories Contract: 970299

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG2271

Matrix (soil/water): WATER Lab Sample ID: G2271-10

Level (low/med): MED Date Received: 12/05/2008

% 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	262			P
7440-36-0	Antimony	4.6	U		P
7440-38-2	Arsenic	5.3	U		P
7440-39-3	Barium	115	B		P
7440-41-7	Beryllium	0.13	U		P
7440-43-9	Cadmium	0.14	U		P
7440-70-2	Calcium	399000			P
7440-47-3	Chromium	4.9	B		P
7440-48-4	Cobalt	2.9	B		P
7440-50-8	Copper	14.9	B		P
7439-89-6	Iron	733			P
7439-92-1	Lead	2.2	U		P
7439-95-4	Magnesium	34400			P
7439-96-5	Manganese	68.1			P
7439-97-6	Mercury	0.016	U		CV
7440-02-0	Nickel	2.4	B		P
7440-09-7	Potassium	18000			P
7782-49-2	Selenium	6.6	U		P
7440-22-4	Silver	0.59	U		P
7440-23-5	Sodium	202000			P
7440-28-0	Thallium	4.2	U		P
7440-62-2	Vanadium	1.7	B		P
7440-66-6	Zinc	26.0	B		P

Comments:

FORM I - IN SW846

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: Lu Engineers

Client Job Site: City of Watertown
Sewall's Island IRM
Client Job Number: 34202
Field Location: TP-14-GW
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 09-4803
Lab Sample Number: 14552

Date Sampled: 12/22/2009
Date Received: 12/28/2009
Date Analyzed: 12/30/2009

Compound	Results in ug / L
Acetone	J 68.5
Benzene	ND< 7.00
Bromochloromethane	ND< 50.0
Bromodichloromethane	ND< 20.0
Bromoform	ND< 50.0
Bromomethane	ND< 20.0
2-Butanone	ND< 100
Carbon disulfide	ND< 50.0
Carbon Tetrachloride	ND< 20.0
Chlorobenzene	ND< 20.0
Chloroethane	ND< 20.0
Chloroform	ND< 20.0
Chloromethane	ND< 20.0
Cyclohexane	ND< 100
Dibromochloromethane	ND< 20.0
1,2-Dibromo-3-Chloropropane	ND< 100
1,2-Dibromoethane	ND< 20.0
1,2-Dichlorobenzene	ND< 20.0
1,3-Dichlorobenzene	ND< 20.0
1,4-Dichlorobenzene	ND< 20.0
Dichlorodifluoromethane	ND< 50.0
1,1-Dichloroethane	ND< 20.0
1,2-Dichloroethane	ND< 20.0
1,1-Dichloroethene	ND< 20.0
cis-1,2-Dichloroethene	ND< 20.0
trans-1,2-Dichloroethene	ND< 20.0

Compound	Results in ug / L
1,2-Dichloropropane	ND< 20.0
cis-1,3-Dichloropropene	ND< 20.0
trans-1,3-Dichloropropene	ND< 20.0
Ethylbenzene	ND< 20.0
2-Hexanone	ND< 50.0
Isopropylbenzene	ND< 50.0
Methyl acetate	ND< 20.0
Methyl tert-butyl Ether	ND< 20.0
Methylcyclohexane	ND< 20.0
Methylene chloride	ND< 50.0
4-Methyl-2-pentanone	ND< 50.0
Styrene	ND< 50.0
1,1,2,2-Tetrachloroethane	ND< 20.0
Tetrachloroethene	ND< 20.0
Toluene	ND< 20.0
Freon 113	ND< 20.0
1,2,3-Trichlorobenzene	ND< 50.0
1,2,4-Trichlorobenzene	ND< 50.0
1,1,1-Trichloroethane	ND< 20.0
1,1,2-Trichloroethane	ND< 20.0
Trichloroethene	ND< 20.0
Trichlorofluoromethane	ND< 20.0
Vinyl chloride	ND< 20.0
m,p-Xylene	ND< 20.0
o-Xylene	ND< 20.0

ELAP Number 10958 Method: EPA 8260B Data File: V71550.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:
Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water (Additional STARS Compounds)

Client: **Lu Engineers**

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	09-4803
		Lab Sample Number:	14552
Client Job Number:	34202		
Field Location:	TP-14-GW	**Date Sampled:**	12/22/2009
Field ID Number:	N/A	**Date Received:**	12/28/2009
Sample Type:	Water	**Date Analyzed:**	12/30/2009

Compound	Results in ug / L	Compound	Results in ug / L
n-Butylbenzene	ND< 50.0	n-Propylbenzene	ND< 20.0
sec-Butylbenzene	ND< 50.0	1,2,4-Trimethylbenzene	J 18.0
tert-Butylbenzene	ND< 50.0	1,3,5-Trimethylbenzene	ND< 50.0
p-Isopropyltoluene	ND< 50.0		
Naphthalene	228		

ELAP Number 10958 Method: EPA 8260B Data File: V71550.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

094803V7.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: **Lu Engineers**

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	09-4803
		Lab Sample Number:	14552
Client Job Number:	34202		
Field Location:	TP-14-GW	**Date Sampled:**	12/22/2009
Field ID Number:	N/A	**Date Received:**	12/28/2009
Sample Type:	Water	**Date Analyzed:**	12/30/2009

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / L	Percent Fit
Unknown Aromatic	N/A	12.553	59.9	N/A
Unknown Aromatic	N/A	14.13	69.6	N/A
Unknown Aromatic	N/A	14.30	286	N/A

ELAP Number 10958 Method: EPA 8260B Data File: V71550.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:
Bruce Hoogesteger: Technical Director

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094803V7.XLS

PARADIGM ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi -Volatile Analysis Report for Non-potable Water

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	09-4803
		Lab Sample Number:	14552
Client Job Number:	34202		
Field Location:	TP-14-GW	**Date Sampled:**	12/22/2009
Field ID Number:	N/A	**Date Received:**	12/28/2009
Sample Type:	Water	**Date Analyzed:**	01/08/2010

Compound	Results in ug / L	Compound	Results in ug / L
Acenaphthene	170	2,4-Dinitrotoluene	ND< 25.0
Acenaphthylene	84.4	2,6-Dinitrotoluene	ND< 25.0
Anthracene	140	Di-n-octylphthalate	ND< 25.0
Benzo (a) anthracene	99.6	Fluoranthene	193
Benzo (a) pyrene	84.7	Fluorene	120
Benzo (b) fluoranthene	48.1	Hexachlorobenzene	ND< 25.0
Benzo (g,h,i) perylene	36.0	Hexachlorobutadiene	ND< 25.0
Benzo (k) fluoranthene	40.7	Hexachlorocyclopentadiene	ND< 25.0
Bis (2-chloroethyl) ether	ND< 25.0	Hexachloroethane	ND< 25.0
Bis (2-chloroethoxy) methane	ND< 25.0	Indeno (1,2,3-cd) pyrene	J 24.8
Bis (2-ethylhexyl) phthalate	ND< 25.0	Isophorone	ND< 25.0
4-Bromophenyl phenyl ether	ND< 25.0	2-Methylnapthalene	99.8
Butylbenzylphthalate	ND< 25.0	2-Methylphenol	ND< 25.0
4-Chloroaniline	ND< 25.0	3&4-Methylphenol	ND< 25.0
4-Chloro-3-methylphenol	ND< 25.0	Naphthalene	165
2-Chloronaphthalene	ND< 25.0	2-Nitroaniline	ND< 62.5
2-Chlorophenol	ND< 25.0	3-Nitroaniline	ND< 62.5
4-Chlorophenyl phenyl ether	ND< 25.0	4-Nitroaniline	ND< 62.5
Chrysene	88.9	Nitrobenzene	ND< 25.0
Dibenz (a,h) anthracene	ND< 25.0	2-Nitrophenol	ND< 25.0
Dibenzofuran	40.5	4-Nitrophenol	ND< 62.5
3,3'-Dichlorobenzidine	ND< 25.0	N-Nitroso-di-n-propylamine	ND< 25.0
2,4-Dichlorophenol	ND< 25.0	N-Nitrosodiphenylamine	ND< 25.0
Diethyl phthalate	ND< 25.0	Pentachlorophenol	ND< 62.5
2,4-Dimethylphenol	ND< 25.0	Phenanthrene	451
Dimethyl phthalate	ND< 62.5	Phenol	ND< 25.0
Di-n-butyl phthalate	ND< 25.0	Pyrene	266
4,6-Dinitro-2-methylphenol	ND< 62.5	2,4,5-Trichlorophenol	ND< 62.5
2,4-Dinitrophenol	ND< 62.5	2,4,6-Trichlorophenol	ND< 25.0

ELAP Number 10958 Method: EPA 8270C Data File: S48586.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

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PARADIGM ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	09-4803
		Lab Sample Number:	14552
Client Job Number:	34202		
Field Location:	TP-14-GW	**Date Sampled:**	12/22/2009
Field ID Number:	N/A	**Date Received:**	12/28/2009
Sample Type:	Soil	**Date Analyzed:**	01/08/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Unknown PAH	N/A	10.43	7,120	N/A
Unknown PAH	N/A	11.22	2,770	N/A
Unknown PAH	N/A	11.35	2,810	N/A
Unknown PAH	N/A	12.36	1,910	N/A
Unknown Alkane	N/A	13.37	3,150	N/A
Unknown PAH	N/A	13.55	2,710	N/A
Unknown PAH	N/A	13.63	5,070	N/A
Dibenzothiophene	132-65-95	13.91	1,780	N/A
Unknown PAH	N/A	14.60	2,660	N/A
Unknown PAH	N/A	14.87	2,960	N/A
Unknown PAH	N/A	14.91	3,390	N/A
Unknown PAH	N/A	15.04	4,530	N/A
Unknown PAH	N/A	15.34	4,450	N/A
Unknown PAH	N/A	15.64	1,680	N/A
Unknown PAH	N/A	15.76	2,750	N/A
Unknown PAH	N/A	15.80	2,260	N/A
Unknown PAH	N/A	16.11	2,810	N/A
Unknown PAH	N/A	16.86	4,530	N/A
Unknown PAH	N/A	17.84	2,470	N/A
Unknown PAH	N/A	19.09	7,010	N/A

ELAP Number 10958 Method: EPA 8270C Data File: S48586.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger / Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Non-potable Water

Client: **Lu Engineers**

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	09-4803
		Lab Sample Number:	14552
Client Job Number:	34202		
Field Location:	TP-14-GW	**Date Sampled:**	12/22/2009
Field ID Number:	N/A	**Date Received:**	12/28/2009
Sample Type:	Water	**Date Analyzed:**	01/03/2010

PCB Identification	Results in ug / L
Aroclor 1016	ND< 5.00
Aroclor 1221	ND< 5.00
Aroclor 1232	ND< 5.00
Aroclor 1242	ND< 5.00
Aroclor 1248	ND< 5.00
Aroclor 1254	ND< 5.00
Aroclor 1260	ND< 5.00

ELAP Number 10958 Method: EPA 8082

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Lu Engineers

Client Job Site: City of Watertown
Sewall's Island IRM

Client Job No.: 34202

Field Location: TP-14-GW
Field ID No.: N/A

Lab Project No.: 09-4803
Lab Sample No.: 14552

Sample Type: Ground Water

Date Sampled: 12/22/2009
Date Received: 12/28/2009

Laboratory Report for TAL Metals Analysis in Water

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Aluminum	01/13/2010	SW846 6010	1230
Antimony	01/13/2010	SW846 6010	<1.20
Arsenic	01/13/2010	SW846 6010	5.97
Barium	01/13/2010	SW846 6010	19.6
Beryllium	01/13/2010	SW846 6010	<0.100
Cadmium	01/13/2010	SW846 6010	<0.100
Calcium	01/13/2010	SW846 6010	2470
Chromium	01/13/2010	SW846 6010	5.35
Cobalt	01/13/2010	SW846 6010	0.898
Copper	01/13/2010	SW846 6010	92.2
Iron	01/13/2010	SW846 6010	4460
Lead	01/13/2010	SW846 6010	254
Magnesium	01/13/2010	SW846 6010	249
Manganese	01/13/2010	SW846 6010	52.6
Mercury	01/05/2010	SW846 7470	0.682
Nickel	01/13/2010	SW846 6010	3.36
Potassium	01/13/2010	SW846 6010	202
Selenium	01/13/2010	SW846 6010	1.20
Silver	01/13/2010	SW846 6010	1.02
Sodium	01/13/2010	SW846 6010	60.9
Thallium	01/13/2010	SW846 6010	<1.20
Vanadium	01/13/2010	SW846 6010	3.10
Zinc	01/13/2010	SW846 6010	74.7

ELAP ID No.:10958

Comments: The laboratory control spike and spike duplicate was outside QC limits for Hg. The laboratory control spike percent difference was outside QC limits for: Al,Ba,Co,Cr,Cu,Mg,Mn,Ni, and V.

Approved By: _____
Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional sample information, including compliance with sample condition requirements upon receipt.

File ID:094803water.xls

PARADIGM ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PHC Analysis Report for Non-potable Water

Client: Lu Engineers

Client Job Site:	City of Watertown Sewall's Island IRM	**Lab Project Number:**	09-4803
		Lab Sample Number:	14552
Client Job Number:	34202		
Field Location:	TP-14-GW	**Date Sampled:**	12/22/2009
Field ID Number:	N/A	**Date Received:**	12/28/2009
Sample Type:	Water	**Date Analyzed:**	01/04/2010

PHC Classification	Results in ug / L
Medium Weight PHC as: Diesel Fuel	12,100

ELAP Number 10958 Method: NYSDOH 310.13

Comments: ND denotes Non Detect
ug / L = microgram per Liter
PHC = Petroleum Hydrocarbon

Signature: _____
Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

094803D4.XLS

Appendix D
Disposal Documentation

Riccelli Enterprises, Inc.

PO Box 6418
Syracuse, NY 13217
(315)433-5115 FAX#(315)433-1920

RECEIVED
JAN 30 2010
By

INVOICE NUMBER	120865
INVOICE DATE	Jan-22-2010
CUST	OPTSYR
P.O.#:	
JOB#:	1451788

OP-TECH ENVIRONMENTAL SERVICES
1 ADLER DRIVE
C/o Accounts Payable
East Syracuse, NY 13057

SLUE0005
THR

Charge for Trucking: CONTAMINATED SOIL

Deliver To: RODMAN (RODMAN,NY)
Pickup From: PEARL STREET, WATERTOWN (WATERTOWN,NY)

Delivery Date	Order #		Bill Qty
2010-01-19	G243494A	Freight (U.S. Ton)	31.03 TON
2010-01-19	G243499A	Freight (U.S. Ton)	33.68 TON
2010-01-19	G243500A	Freight (U.S. Ton)	35.52 TON
2010-01-19	G243502A	Freight (U.S. Ton)	37.6 TON
2010-01-19	G243508A	Freight (U.S. Ton)	31.24 TON
2010-01-19	G243513A	Freight (U.S. Ton)	38.29 TON
2010-01-19	G243517A	Freight (U.S. Ton)	39.24 TON
2010-01-19	G243519A	Freight (U.S. Ton)	38.25 TON
2010-01-19	G243522A	Freight (U.S. Ton)	39.09 TON
2010-01-19	G243524A	Freight (U.S. Ton)	30.05 TON
2010-01-19	G243535A	Freight (U.S. Ton)	34.45 TON
2010-01-19	G243541A	Freight (U.S. Ton)	34.65 TON
2010-01-19	G243543A	Freight (U.S. Ton)	36.47 TON
2010-01-20	G243580A	Freight (U.S. Ton)	32.02 TON
2010-01-20	G243584A	Freight (U.S. Ton)	33.75 TON

SEND REMITTANCE TO:
Riccelli Enterprises, Inc.
PO Box 6418
Syracuse, NY 13217

Terms are 30 Days from Date of Invoice. Annual interest rate is 18% plus legal fees. As security for the value of this sale the seller has the right to file a lien upon property improved to the extent of the value of such materials/services.NYS Law

CUSTOMER COPY

Riccelli Enterprises, Inc.

PO Box 6418
Syracuse, NY 13217
(315)433-5115 FAX#(315)433-1920

INVOICE NUMBER	120865
INVOICE DATE	Jan-22-2010
CUST	OPTSYR
P.O.#:	
JOB#:	1451788

OP-TECH ENVIRONMENTAL SERVICES
1 ADLER DRIVE
C/o Accounts Payable
East Syracuse, NY 13057

Charge for Trucking: CONTAMINATED SOIL

Delivery Date	Order #		Bill Qty
Deliver To: RODMAN (RODMAN,NY)			
Pickup From: PEARL STREET, WATERTOWN (WATERTOWN,NY)			
2010-01-20	G243598A	Freight (U.S. Ton)	45.32 TON

SEND REMITTANCE TO:
Riccelli Enterprises, Inc.
PO Box 6418
Syracuse, NY 13217

Terms are 30 Days from Date of Invoice. Annual interest rate is 18% plus legal fees. As security for the value of this sale the seller has the right to file a lien upon property improved to the extent of the value of such materials/services.NYS Law

CUSTOMER COPY

Development Authority of the North Country
Solid Waste Management Facility
23400 NYS Route 177
Rodman, New York 13682
Tel:(315)232-3236 Ext.210 Fax:(315)232-2696

145788

.l Acct: OPTEENVI Haul Acct: RICEENTE Tran#:243598
:ompany: OP-TECH Environmental Ser Company: Riccelli Enterprises, Inc.
1 Adler Drive

East Syracuse NY 13057

	---In---	---Out--
Date	01/20/10	01/20/10
Time	11:16	11:44

	Lbs	Tons
Gross	133840	66.92
Tare	43200	21.60
NET	90640	45.32

ıicle#: 4549 License#:AU51419
ıtainer#: License#:
terial = 600 - Contaminated
unty = 10 - Jefferson
ste Class = 2008 - #10-02 SEWALLS ISLAND/WATN/PO#SLUE0005-002
scription =

iver: Weighmaster: Valerie Deon
ALE HOURS OF OPERATION: MONDAY THRU FRIDAY 7:15 AM- 3:00 PM

ATTENTION SHIPPERS! FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. _____

Carrier No. 7A-402

Page 1 of 1 Riccelli Trucking (Name of carrier) (SCAC) 16 Date 1/20/10

Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO:
Consignee: Development Authority of the North Country
Street: Solid Waste Management Facility
City: Rodman State: NY Zip Code: 13682

FROM:
Shipper: City of Watertown/ Seawall's Island
Street: 400 Pearl Street
City: Watertown State: NY Zip Code
24 hr. Emergency Contact Tel. No. 800-225-6750

Route

Vehicle Number 600

No. of Units Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
1 DT		Non-RCRA Non-DOT Regulated Solids (~~Petroleum~~ Mercury Contaminated Soil)	Est. 34	T		
		SWFM Project ID # 10-02				
		PO # SLUE0005-002				

PLACARDS TENDERED: YES ☐ NO ☐

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____."
Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

_____ Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: $

C.O.D. FEE: PREPAID ☐ COLLECT ☐ $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

_____ (Signature of Consignor)

TOTAL CHARGES $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked ☐ Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER City of Watertown/ Seawall's Island
PER Scott Detrick / LuEngineers

CARRIER Riccelli Trucking
PER _____
DATE 1/20/10

1

Permanent post-office address of shipper.

STYLE CF360-4 © 2003 LABELMASTER® (800) 621-5808 www.labelmaster.com

Development Authority of the North Country
Solid Waste Management Facility
23400 NYS Route 177
Rodman, New York 13682
Tel:(315)232-3236 Ext.210 Fax:(315)232-2696

ll Acct: OPTEENVI
Haul Acct: RICEENTE
Tran#:243580
Company: OP-TECH Environmental Ser
Company: Riccelli Enterprises, Inc.
1 Adler Drive
East Syracuse NY 13057

	---In---	---Out--
Date	01/20/10	01/20/10
Time	09:11	09:31

		Lbs	Tons
Gross		107320	53.66
Tare		43280	21.64
NET		64040	32.02

nicle#: 4549 License#:AU51419
ntainer#: License#:
terial = 600 - Contaminated
unty = 10 - Jefferson
ste Class = 2008 - #10-02 SEWALLS ISLAND/WATN/PO#SLUE0005-002
scription =

.ver: Weighmaster: Betsy Busler #220105
ALE HOURS OF OPERATION: MONDAY THRU FRIDAY 7:15 AM- 3:00 PM

ATTENTION SHIPPERS!
This Shipping Order

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

Must be legibly filled in, in ink indelible Pencil, or in Carbon, and retained by the agent

Shipper No. _____

Carrier No. 7A-402

Page 1 of 1

Riccelli Trucking
(Name of carrier) (SCAC)

Date 1/20/10

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

TO:
Consignee: Development Authority of the North Country
Street: Solid Waste Management Facility
City: Rodman State: NY Zip Code: 13682

FROM:
Shipper: City of Watertown/ Seawall's Island
Street: 400 Pearl Street
City: Watertown State: NY Zip Code
24 hr. Emergency Contact Tel. No. 800-225-6750

Route

Vehicle Number 600

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
1 -DT		Non-RCRA, Non-DOT Regulated Solids (~~Petroleum~~ Mercury Contaminated Soil)	Est 34	T		
		SWFM Project ID #: 10-02				
		PO #SLUK0005-002				

PLACARDS TENDERED: YES NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____."
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

_____ Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: $

C.O.D. FEE: PREPAID COLLECT $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

_____ (Signature of Consignor)

TOTAL CHARGES $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked ☐ Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER City of Watertown/ Seawall's Island
PER Eric Detrul / Lu Engineers

CARRIER Riccelli Trucking
PER [signature]
DATE 1/20/10

2

Permanent post-office address of shipper.

-STYLE CF360-4 © 2003 LABELMASTER® (800) 621-5808 www.labelmaster.com

Development Authority of the North Country
Solid Waste Management Facility
23400 NYS Route 177
Rodman, New York 13682
Tel:(315)232-3236 Ext.210 Fax:(315)232-2696

Bill Acct: OPTEENVI
Company: OP-TECH Environmental Ser
1 Adler Drive

East Syracuse NY 13057

Haul Acct: RICEENTE
Company: Riccelli Enterprises, Inc.

Tran#:243584

	---In---	---Out--
Date	01/20/10	01/20/10
Time	09:25	09:58

Vehicle#: 4550 License#:1464C5
Container#: License#:
Material = 600 - Contaminated
County = 10 - Jefferson
Waste Class = 2008 - #10-02 SEWALLS ISLAND/WATN/PO#SLUE0005-002
Description =

	Lbs	Tons
Gross	107820	53.91
Tare	40320	20.16
NET	67500	33.75

Driver: Weighmaster: Betsy Busler #220105
SCALE HOURS OF OPERATION: MONDAY THRU FRIDAY 7:15 AM- 3:00 PM

Aaron Muchsey

ATTENTION SHIPPERS!
This Shipping Order

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.
be legibly filled in, in Ink indelible Pencil, or in
on, and retained by the agent

Shipper No. _____

Carrier No. 7A-402

Page 1 of 1

Riccelli Trucking
(Name of carrier) (SCAC)

Date 1/20/10

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

TO:
Consignee: Development Authority of the North Country
Street: Solid Waste Management Facility
City: Rodman State: NY Zip Code: 13682

FROM:
Shipper: City of Watertown/ Seawall's Island
Street: 400 Pearl Street
City: Watertown State: NY Zip Code:
24 hr. Emergency Contact Tel. No.: 800-225-6750

Route

Vehicle Number: 500

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
1 -DT		Non-RCRA, Non-DOT Regulated Solids (~~Petroleum~~ ED Meany Contaminated Soil)	Est. 34	T		
		SWFM Project ID #: 10-02				
		PO #SLUE0005-002				

PLACARDS TENDERED: YES NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____."
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

_____ Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: $

C.O.D. FEE: PREPAID COLLECT $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

TOTAL CHARGES $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked ☐ Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER: City of Watertown/ Seawall's Island
PER: Eric Detwiler / Lu Engineers

CARRIER: Riccelli Trucking
PER: Aaron Murbey
DATE: 1-20-10

2

Permanent post-office address of shipper.

STYLE CF360-4 © 2003 LABELMASTER® (800) 621-5808 www.labelmaster.com

Development Authority of the North Country
Solid Waste Management Facility
23400 NYS Route 177
Rodman, New York 13682
Tel:(315)232-3236 Ext.210 Fax:(315)232-2696

157

ll Acct: OPTEENVI
Company: OP-TECH Environmental Ser
1 Adler Drive

East Syracuse NY 13057

Haul Acct: RICEENTE
Company: Riccelli Enterprises, Inc.

Tran#:243508

	---In---	---Out--
Date	01/19/10	01/19/10
Time	09:29	10:36

	Lbs	Tons
Gross	105460	52.73
Tare	42980	21.49
NET	62480	31.24

hicle#: 4551 License#:AR96317
ntainer#: License#:
terial = 600 - Contaminated
unty = 10 - Jefferson
ste Class = 2008 - #10-02 SEWALLS ISLAND/WATN/PO#SLUE0005-002
scription =

ver: Weighmaster: Betsy Busler #220105
ALE HOURS OF OPERATION: MONDAY THRU FRIDAY 7:15 AM- 3:00 PM

ATTENTION SHIPPERS! FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

This Shipping Order *Must be legibly filled in; in Ink indelible Pencil, or in Carbon, and retained by the agent*

Shipper No. _____

Carrier No. 7A-402

Page 1 of 1 Riccelli Trucking (Name of carrier) (SCAC) Date 1/19/10

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

TO:
Consignee: Development Authority of the North Country
Street: Solid Waste Management Facility
City: Rodman State: NY Zip Code: 13682

FROM: Shipper: City of Watertown/ Seawall's Island
Street: 400 Pearl Street
City: Watertown State: NY Zip Code
24 hr. Emergency Contact Tel. No. 800-225-6750

Route

Vehicle Number: 157

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
DT		Non-RCRA, Non-DOT Regulated Solids (~~Petroleum~~ Mercury Contaminated Soil)	Est 32	T		
		SWFM Project ID #: 10-02				
		PO #SLUE0005-002				

PLACARDS TENDERED: YES NO

PERMIT

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____"
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

_____ Signature

C.O.D. TO:
ADDRESS

COD Amt: $

C.O.D. FEE: PREPAID COLLECT $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

_____ (Signature of Consignor)

TOTAL CHARGES $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked ☐ Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER City of Watertown/ Seawall's Island
PER Sean Detrick / Lu Engineers

CARRIER Riccelli Trucking
PER [signature]
DATE 1/19/10

2

STYLE CF360-4 © 2003 LABELMASTER® (800) 621-5808 www.labelmaster.com

Development Authority of the North Country
Solid Waste Management Facility
23400 NYS Route 177
Rodman, New York 13682
Tel:(315)232-3236 Ext.210 Fax:(315)232-2696

157

l Acct: OPTEENVI
ompany: OP-TECH Environmental Ser
1 Adler Drive

East Syracuse NY 13057

Haul Acct: RICEENTE
Company: Riccelli Enterprises, Inc.

Tran#:243524

	---In---	---Out--
Date	01/19/10	01/19/10
Time	12:04	12:22

icle#: 4551 License#:AR96317
ainer#: License#:
erial = 600 - Contaminated
ty = 10 - Jefferson
e Class = 2008 - #10-02 SEWALLS ISLAND/WATN/PO#SLUE0005-002
ription =

	Lbs	Tons
Gross	103060	51.53
Tare	42960	21.48
NET	60100	30.05

er: Weighmaster: Betsy Busler #220105
E HOURS OF OPERATION: MONDAY THRU FRIDAY 7:15 AM- 3:00 PM

ATTENTION SHIPPERS!
This Shipping Order

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.
Must be legibly filled in, in ink indelible Pencil, or in Carbon, and retained by the agent

Shipper No.
Carrier No. 7A-402
Date 1/19/10

Page 1 of 1

Riccelli Trucking
(Name of carrier) (SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

TO:
Consignee: Development Authority of the North Country
Street: Solid Waste Management Facility
City: Rodman State: NY Zip Code: 13682

FROM:
Shipper: City of Watertown/ Seawall's Island
Street: 400 Pearl Street
City: Watertown State: NY Zip Code:
24 hr. Emergency Contact Tel. No.: 800-225-6750

Route
Vehicle Number: 157

No. of Units & Container Type	HM	BASIC DESCRIPTION: Proper Shipping Name, Hazard Class UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
1 DT		Non-RCRA, Non-DOT Regulated Solids (~~Petroleum~~ Mercury Contaminated Soil)	Est.	T		
		SWFM Project ID #: 10-02				
		PO #SLUE0005-002				

PLACARDS TENDERED: YES NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____."
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

_____ Signature

REMIT C.O.D. TO ADDRESS $

COD Amt: $

C.O.D. FEE: PREPAID COLLECT $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

TOTAL CHARGES $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked ☐ Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER: City of Watertown/ Seawall's Island
PER: Sin Defuler / Lu Engineers

CARRIER: Riccelli Trucking
PER: [signature]
DATE: 1/19/10

2

Permanent post-office address of shipper.

STYLE CF360-4 © 2003 LABELMASTER® (800) 621-5808 www.labelmaster.com

Development Authority of the North Country
Solid Waste Management Facility
23400 NYS Route 177
Rodman, New York 13682
Tel:(315)232-3236 Ext.210 Fax:(315)232-2696

500

ill Acct: OPTEENVI Haul Acct: RICEENTE Tran#:243541
Company: OP-TECH Environmental Ser Company: Riccelli Enterprises, Inc.
1 Adler Drive
East Syracuse NY 13057

	---In---	---Out--
Date	01/19/10	01/19/10
Time	13:08	13:25

	Lbs	Tons
Gross	109500	54.75
Tare	40200	20.10
NET	69300	34.65

hicle#: 4550 License#:1464C5
ntainer#: License#:
terial = 600 - Contaminated
unty = 10 - Jefferson
ste Class = 2008 - #10-02 SEWALLS ISLAND/WATN/PO#SLUE0005-002
scription =

iver: Weighmaster: Betsy Busler #220105
ALE HOURS OF OPERATION: MONDAY THRU FRIDAY 7:15 AM- 3:00 PM

Aaron McKay

ATTENTION SHIPPERS!
This Shipping Order

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT. 500

Must be legibly filled in, in Ink Indelible Pencil, or in Carbon, and retained by the agent

12

Shipper No.

Carrier No. 7A-402

Page 1 of 1

Riccelli Trucking
(Name of carrier) (SCAC)

Date 1/19/10

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

TO:
Consignee: Development Authority of the North Country
Street: Solid Waste Management Facility
City: Rodman State: NY Zip Code: 13682

FROM:
Shipper: City of Watertown/ Seawall's Island
Street: 400 Pead Street
City: Watertown State: NY Zip Code:
24 hr. Emergency Contact Tel. No.: 800-225-6750

Route

Vehicle Number 500

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
1 -DT		Non-RCRA, Non-DOT Regulated Solids (~~Petroleum~~ Mercury Contaminated Soil)	Est 34	T		
		SWFM Project ID #: 10-02				
		PO #SLUE0005-002				

PLACARDS TENDERED: YES NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____."
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
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I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

_____ Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: $

C.O.D. FEE: PREPAID COLLECT $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

TOTAL CHARGES $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked. ☐ Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry, to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER City of Watertown/ Seawall's Island
PER Sin Datul / Lu Engineers

CARRIER Riccelli Trucking
PER Aaron Mulbey
DATE

2

Permanent post-office address of shipper.

STYLE CF360-4 © 2003 LABELMASTER® (800) 621-5808 www.labelmaster.com

Development Authority of the North Country
Solid Waste Management Facility
23400 NYS Route 177
Rodman, New York 13682
Tel:(315)232-3236 Ext.210 Fax:(315)232-2696

52

Bill Acct: OPTEENVI
Company: OP-TECH Environmental Ser
1 Adler Drive

East Syracuse NY 13057

Haul Acct: RICEENTE
Company: Riccelli Enterprises, Inc.

Tran#:243517

	---In---	---Out--
Date	01/19/10	01/19/10
Time	11:12	11:28

Vehicle#: 4550 License#:1464C5
Container#: License#:
Material = 600 - Contaminated
County = 10 - Jefferson
Waste Class = 2008 - #10-02 SEWALLS ISLAND/WATN/PO#SLUE0005-002
Description =

	Lbs	Tons
Gross	119100	59.55
Tare	40620	20.31
NET	78480	39.24

Driver: Weighmaster: Jan Oatman Lic#220044
SCALE HOURS OF OPERATION: MONDAY THRU FRIDAY 7:15 AM- 3:00 PM

Aaron Muckey

ATTENTION SHIPPERS!
This Shipping Order

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT

Must be legibly filled in, in Ink Indelible Pencil, or in Carbon, and retained by the agent

Shipper No. _____

Carrier No. 7A-402

Page 1 of 1

Riccelli Trucking
(Name of carrier) (SCAC)

Date 1/19/10

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

TO:
Consignee: Development Authority of the North Country
Street: Solid Waste Management Facility
City: Rodman State: NY Zip Code: 13682

FROM: Shipper: City of Watertown/ Seawall's Island
Street: 400 Pearl Street
City: Watertown State: NY Zip Code:
24 hr. Emergency Contact Tel. No.: 800-225-6750

Route

Vehicle Number: 500

No. of Units & Container Type	HM	BASIC DESCRIPTION: Proper Shipping Name, Hazard Class UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
1 -DT		Non-RCRA, Non-DOT Regulated Solids (~~Petroleum~~ (4) Mercury Contaminated Soil)	Est. 32	T		
		SWFM Project ID #: 10-02				
		PO #SLUE0005-002				

PLACARDS TENDERED: YES NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____"
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
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I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

_____ Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: $

C.O.D. FEE: PREPAID COLLECT $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

_____ (Signature of Consignor)

TOTAL CHARGES $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked ☐ Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER: City of Watertown/ Seawall's Island
PER: Eric Detail / Lu Engineers

CARRIER: Riccelli Trucking
PER: Aaron Muckey
DATE:

2

Permanent post-office address of shipper.

STYLE CF360-4 ©2003 LABELMASTER® (800) 621-5808 www.labelmaster.com

Development Authority of the North Country
Solid Waste Management Facility
23400 NYS Route 177
Rodman, New York 13682
Tel:(315)232-3236 Ext.210 Fax:(315)232-2696

500

Tran#:243500

ll Acct: OPTEENVI
Haul Acct: RICEENTE
Company: OP-TECH Environmental Ser
Company: Riccelli Enterprises, Inc.
1 Adler Drive

East Syracuse NY 13057

	---In---	---Out--
Date	01/19/10	01/19/10
Time	09:19	09:47

	Lbs	Tons
Gross	111360	55.68
Tare	40320	20.16
NET	71040	35.52

hicle#: 4550 License#:1464C5
ntainer#: License#:
aterial = 600 - Contaminated
ounty = 10 - Jefferson
aste Class = 2008 - #10-02 SEWALLS ISLAND/WATN/PO#SLUE0005-002
escription =

river: Weighmaster: Betsy Busler #220105
CALE HOURS OF OPERATION: MONDAY THRU FRIDAY 7:15 AM- 3:00 PM

Aaron Mackey

ATTENTION SHIPPERS!
This Shipping Order

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.
Must be legibly filled in, in ink indelible Pencil, or in Carbon, and retained by the agent

Shipper No. 50

Carrier No. 7A-402

Page 1 of 1

Riccelli Trucking
(Name of carrier) (SCAC)

Date 1/19/10

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

TO:
Consignee: Development Authority of the North Country
Street: Solid Waste Management Facility
City: Rodman State: NY Zip Code: 13682

FROM:
Shipper: City of Watertown/ Seawall's Island
Street: 400 Pearl Street
City: Watertown State: NY Zip Code:
24 hr. Emergency Contact Tel. No. 800-225-6750

Route

Vehicle Number 500

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
DT		Non-RCRA, Non-DOT Regulated Solids (~~Petroleum~~ Mercury Contaminated Soil)	Est. 36	T		
		SWFM Project ID #: 10-02				
		PO # SLUE0005-002				

PLACARDS TENDERED: YES NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____."
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
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I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

_____ Signature

REMIT C.O.D. TO ADDRESS

COD Amt: $

C.O.D. FEE: PREPAID COLLECT $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

Betsy
(Signature of Consignor)

TOTAL CHARGES $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked ☐ Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER City of Watertown/ Seawall's Island
PER Eric Detrel / Lu Engineers

CARRIER Riccelli Trucking
PER Aaron Muckey
DATE 1-19-10

2

Permanent post-office address of shipper.

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Development Authority of the North Country
Solid Waste Management Facility
23400 NYS Route 177
Rodman, New York 13682
Tel:(315)232-3236 Ext.210 Fax:(315)232-2696

600

ll Acct: OPTEENVI Haul Acct: RICEENTE Tran#:243499
Company: OP-TECH Environmental Ser Company: Riccelli Enterprises, Inc.
1 Adler Drive

East Syracuse NY 13057

	---In---	---Out--
Date	01/19/10	01/19/10
Time	09:13	09:39

	Lbs	Tons
Gross	110680	55.34
Tare	43320	21.66
NET	67360	33.68

hicle#: 4549 License#:AU51419
ntainer#: License#:
terial = 600 - Contaminated
unty = 10 - Jefferson
ste Class = 2008 - #10-02 SEWALLS ISLAND/WATN/PO#SLUE0005-002
scription =

iver: Weighmaster: Betsy Busler #220105
ALE HOURS OF OPERATION: MONDAY THRU FRIDAY 7:15 AM- 3:00 PM

ATTENTION SHIPPERS!
This Shipping Order

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.
Must be legibly filled in, in Ink indelible Pencil, or in Carbon, and retained by the agent

Shipper No. 60
Carrier No. 7A-402

Page 1 of 1

Riccelli Trucking
(Name of carrier) (SCAC)

Date 1/19/10

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

TO:
Consignee: Development Authority of the North Country
Street: Solid Waste Management Facility
City: Rodman State: NY Zip Code: 13682

FROM:
Shipper: City of Watertown/ Seawall's Island
Street: 400 Pearl Street
City: Watertown State: NY Zip Code:
24 hr. Emergency Contact Tel. No.: 800-225-6750

Route

Vehicle Number 600-319

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
DT		Non-RCRA, Non-DOT Regulated Solids (~~Petroleum~~ Mercury Contaminated Soil)	Est 34	T		
		SWFM Project ID # 10-02				
		PO # SLUE0005-002				

PLACARDS TENDERED: YES NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____."
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
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I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

_____ Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

_____ (Signature of Consignor)

C.O.D. FEE: PREPAID COLLECT $

TOTAL CHARGES $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked
☐ Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER: City of Watertown/ Seawall's Island
PER: Sean Detmer / Lu Engineers

CARRIER: Riccelli Trucking
PER: [signature]
DATE: 1/19/10

2

Permanent post-office address of shipper.

STYLE CF360-4 © 2003 LABELMASTER® (800) 621-5808 www.labelmaster.com

Development Authority of the North Country
Solid Waste Management Facility
23400 NYS Route 177
Rodman, New York 13682
Tel:(315)232-3236 Ext.210 Fax:(315)232-2696

600

ll Acct: OPTEENVI
Company: OP-TECH Environmental Ser
1 Adler Drive

East Syracuse NY 13057

Haul Acct: RICEENTE
Company: Riccelli Enterprises, Inc.

Tran#:243522

	---In---	--Out--
Date	01/19/10	01/19/10
Time	11:41	12:08

icle#: 4549 License#:AU51419
tainer#: License#:
erial = 600 - Contaminated
nty = 10 - Jefferson
te Class = 2008 - #10-02 SEWALLS ISLAND/WATN/PO#SLUE0005-002
cription =

	Lbs	Tons
Gross	121620	60.81
Tare	43440	21.72
NET	78180	39.09

ver: Weighmaster: Betsy Busler #220105
E HOURS OF OPERATION: MONDAY THRU FRIDAY 7:15 AM- 3:00 PM

ATTENTION SHIPPERS!
This Shipping Order

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.
Must be legibly filled in, in ink indelible Pencil, or in Carbon, and retained by the agent

Shipper No. 6 (8)
Carrier No. 7A-402

Page 1 of 1

Riccelli Trucking
(Name of carrier) (SCAC)

Date 1/19/10

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

TO:
Consignee: Development Authority of the North Country
Street: Solid Waste Management Facility
City: Rodman State: NY Zip Code: 13682

FROM:
Shipper: City of Watertown/ Seawall's Island
Street: 400 Pearl Street
City: Watertown State: NY Zip Code:
24 hr. Emergency Contact Tel. No. 800-225-6750

Route

Vehicle Number 600

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
1 DT		Non-RCRA, Non-DOT Regulated Solids (Petroleum, Mercury Contaminated Soil)	Est 35	T		
		SWFM Project ID # 10-02				
		PO # SLUE0005-002				

PLACARDS TENDERED: YES NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____."
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

_____ Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: $

C.O.D. FEE: PREPAID COLLECT $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

TOTAL CHARGES $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked ☐ Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER City of Watertown/ Seawall's Island
PER Eric Dotiel / Ln Engineers

CARRIER Riccelli Trucking
PER [signature]
DATE 1/19/10

2

Permanent post-office address of shipper.

STYLE CF360-4 © 2003 LABELMASTER® (800) 621-5808 www.labelmaster.com

Development Authority of the North Country
Solid Waste Management Facility
23400 NYS Route 177
Rodman, New York 13682
Tel:(315)232-3236 Ext.210 Fax:(315)232-2696

607

ll Acct: OPTEENVI Haul Acct: RICEENTE Tran#:243502
Company: OP-TECH Environmental Ser Company: Riccelli Enterprises, Inc.
1 Adler Drive

East Syracuse NY 13057

	---In---	---Out--
Date	01/19/10	01/19/10
Time	09:36	09:55

	Lbs	Tons
Gross	116980	58.49
Tare	41780	20.89
NET	75200	37.60

hicle#: 4552 License#:AU59418
ntainer#: License#:
terial = 600 - Contaminated
unty = 10 - Jefferson
ste Class = 2008 - #10-02 SEWALLS ISLAND/WATN/PO#SLUE0005-002
scription =

iver: Weighmaster: Betsy Busler #220105
ALE HOURS OF OPERATION: MONDAY THRU FRIDAY 7:15 AM- 3:00 PM

(

604

ATTENTION SHIPPERS!
This Shipping Order

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

Must be legibly filled in, In Ink indelible Pencil, or in Carbon, and retained by the agent

Shipper No. _____

Carrier No. 7A-402

Page 1 of 1

Riccelli Trucking
(Name of carrier) (SCAC)

Date 1/19/10

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

TO:
Consignee: Development Authority of the North Country
Street: Solid Waste Management Facility
City: Rodman State: NY Zip Code: 13682

FROM:
Shipper: City of Watertown/ Seawall's Island
Street: 400 Pead Street
City: Watertown State: NY Zip Code
24 hr. Emergency Contact Tel. No. 800-225-6750

Route

Vehicle Number 607

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
DT		Non-RCRA, Non-DOT Regulated Solids (~~Petroleum~~ Mercury Contaminated Soil)	Est. 37 ton	T		
		SWFM Project ID #: 10-02				
		PO #SLUE0005-002				

PLACARDS TENDERED: YES NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____."
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

_____ Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: $

C.O.D. FEE: PREPAID COLLECT $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

_____ (Signature of Consignor)

TOTAL CHARGES $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked ☐ Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER City of Watertown/ Seawall's Island
PER Sue Detul / Lu Engineers

CARRIER Riccelli Trucking
PER [signature]
DATE 1/19/10

2

Permanent post-office address of shipper.

STYLE CF360-4 © 2003 LABELMASTER® (800) 621-5808 www.labelmaster.com

Development Authority of the North Country
Solid Waste Management Facility
23400 NYS Route 177
Rodman, New York 13682
Tel:(315)232-3236 Ext.210 Fax:(315)232-2696

207

Bill Acct: OPTEENVI
Company: OP-TECH Environmental Ser
1 Adler Drive

East Syracuse NY 13057

Haul Acct: RICEENTE
Company: Riccelli Enterprises, Inc.

Tran#:243519

	---In---	---Out--
Date	01/19/10	01/19/10
Time	11:19	11:33

Vehicle#: 4552 License#:AU59418
Container#: License#:
Material = 600 - Contaminated
County = 10 - Jefferson
Waste Class = 2008 - #10-02 SEWALLS ISLAND/WATN/PO#SLUE0005-002
Description =

	Lbs	Tons
Gross	118240	59.12
Tare	41740	20.87
NET	76500	38.25

Driver: Weighmaster: Jan Oatman Lic#220044
SCALE HOURS OF OPERATION: MONDAY THRU FRIDAY 7:15 AM- 3:00 PM

ATTENTION SHIPPERS!
This Shipping Order

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.
Must be legibly filled in, in Ink Indelible Pencil, or in Carbon, and retained by the agent

Shipper No. _____

Carrier No. 7A-402

Page 1 of 1

Riccelli Trucking
(Name of carrier) (SCAC)

Date 1/19/10

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

TO:
Consignee: Development Authority of the North Country
Street: Solid Waste Management Facility
City: Rodman State: NY Zip Code: 13682

FROM:
Shipper: City of Watertown/ Seawall's Island
Street: 400 Pearl Street
City: Watertown State: NY Zip Code
24 hr. Emergency Contact Tel. No.: 800-225-6750

Route

Vehicle Number: 607

No. of Units & Container Type	HM	BASIC DESCRIPTION: Proper Shipping Name, Hazard Class, UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
1 DT		Non-RCRA, Non-DOT Regulated Solids (~~Petroleum~~ Mercury Contaminated Soil)	Est 32	T		
		SWFM Project ID # 10-02				
		PO # SLUE0005-002				

PLACARDS TENDERED: YES NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____."
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

_____ Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: $

C.O.D. FEE: PREPAID COLLECT $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

_____ (Signature of Consignor)

TOTAL CHARGES $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked ☐ Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER: City of Watertown/ Seawall's Island
PER: Eric Detlinl / Lu Engineers

CARRIER: Riccelli Trucking
PER: [signature]
DATE: 1/19/10

2

Permanent post-office address of shipper.

STYLE CF360-4 © 2003 LABELMASTER® (800) 621-5808 www.labelmaster.com

Development Authority of the North Country
Solid Waste Management Facility
23400 NYS Route 177
Rodman, New York 13682
Tel:(315)232-3236 Ext.210 Fax:(315)232-2696

607

ill Acct: OPTEENVI Haul Acct: RICEENTE Tran#:243543
Company: OP-TECH Environmental Ser Company: Riccelli Enterprises, Inc.
1 Adler Drive

East Syracuse NY 13057

	---In---	---Out--
Date	01/19/10	01/19/10
Time	13:17	13:32

			Lbs	Tons
ehicle#:	4552	License#:AU59418	Gross 114600	57.30
ontainer#:		License#:	Tare 41660	20.83
aterial	= 600 - Contaminated		NET 72940	36.47
ounty	= 10 - Jefferson			
aste Class	= 2008 - #10-02 SEWALLS ISLAND/WATN/PO#SLUE0005-002			
escription	=			

river: Weighmaster: Betsy Busler #220105
CALE HOURS OF OPERATION: MONDAY THRU FRIDAY 7:15 AM- 3:00 PM

ATTENTION SHIPPERS!
This Shipping Order

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.
Must be legibly filled in, in Ink indelible Pencil, or in Carbon, and retained by the agent

Shipper No. 607

Carrier No. 7A-402

Page 1 of 1

Riccelli Trucking
(Name of carrier) (SCAC)

Date 1/19/10

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

TO:
Consignee: Development Authority of the North Country
Street: Solid Waste Management Facility
City: Rodman State: NY Zip Code: 13682

FROM:
Shipper: City of Watertown/ Seawall's Island
Street: 400 Pearl Street
City: Watertown State: NY Zip Code:
24 hr. Emergency Contact Tel. No. 800-225-6750

Route

Vehicle Number 607

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
1 -DT		Non-RCRA, Non-DOT Regulated Solids (~~Petroleum~~ Mercury Contaminated Soil)	Est 35	T		
		SWFM Project ID #. 10-02				
		PO # SLUE0005-002				

PLACARDS TENDERED: YES NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____."
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

_____ Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: $

C.O.D. FEE PREPAID COLLECT $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

_____ (Signature of Consignor)

TOTAL CHARGES $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked ☐ Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER City of Watertown/ Seawall's Island
PER Eric Detmer / Lu Engineers

CARRIER Riccelli Trucking
PER [signature]
DATE 1/19/10

2

Permanent post-office address of shipper.

STYLE CF360-4 © 2003 LABELMASTER® (800) 621-5808 www.labelmaster.com

Development Authority of the North Country
Solid Waste Management Facility
23400 NYS Route 177
Rodman, New York 13682
Tel:(315)232-3236 Ext.210 Fax:(315)232-2696

624

.ll Acct: OPTEENVI
Haul Acct: RICEENTE
Tran#:243513
Company: OP-TECH Environmental Ser
Company: Riccelli Enterprises, Inc.
1 Adler Drive
East Syracuse NY 13057

	---In---	---Out--
Date	01/19/10	01/19/10
Time	10:56	11:14

hicle#: 4548 License#:1465C5
ntainer#: License#:
terial = 600 - Contaminated
unty = 10 - Jefferson
ste Class = 2008 - #10-02 SEWALLS ISLAND/WATN/PO#SLUE0005-002
scription =

	Lbs	Tons
Gross	118260	59.13
Tare	41680	20.84
NET	76580	38.29

iver: Weighmaster: Jan Oatman Lic#220044
ALE HOURS OF OPERATION: MONDAY THRU FRIDAY 7:15 AM- 3:00 PM

ATTENTION SHIPPERS!
This Shipping Order

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

Must be legibly filled in, in Ink Indelible Pencil, or in Carbon, and retained by the agent

624

Shipper No. _____

Carrier No. 7A-402

Page 1 of 1 Riccelli Trucking (Name of carrier) (SCAC)

Date 1/19/10

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

TO:
Consignee: Development Authority of the North Country
Street: Solid Waste Management Facility
City: Rodman State: NY Zip Code: 13682

FROM:
Shipper: City of Watertown/ Seawall's Island
Street: 400 Pearl Street
City: Watertown State: NY Zip Code
24 hr. Emergency Contact Tel. No. 800-225-6750

Route

Vehicle Number 624

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
1 -DT		Non-RCRA, Non-DOT Regulated Solids (~~Petroleum~~ Mercury Contaminated Soil)	Est 35	T		
		SWFM Project ID #: 10-03				
		PO #SLUE0005-002				

PLACARDS TENDERED: YES NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____."
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

_____ Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: $

C.O.D. FEE: PREPAID COLLECT $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

_____ (Signature of Consignor)

TOTAL CHARGES $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked ☐ Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER City of Watertown/ Seawall's Island
PER Eric Detwiler / Lu Engineers

CARRIER Riccelli Trucking
PER _____
DATE 1-19-10

2

Permanent post-office address of shipper.

STYLE CF360-4 © 2003 LABELMASTER® (800) 621-5808 www.labelmaster.com

Development Authority of the North Country
Solid Waste Management Facility
23400 NYS Route 177
Rodman, New York 13682
Tel:(315)232-3236 Ext.210 Fax:(315)232-2696

624

Bill Acct: OPTEENVI Haul Acct: RICEENTE Tran#:243535
Company: OP-TECH Environmental Ser Company: Riccelli Enterprises, Inc.
1 Adler Drive

East Syracuse NY 13057

	---In---	---Out--
Date	01/19/10	01/19/10
Time	12:48	13:06

	Lbs	Tons
Gross	110460	55.23
Tare	41560	20.78
NET	68900	34.45

Vehicle#: 4548 License#:1465C5
Container#: License#:
Material = 600 - Contaminated
County = 10 - Jefferson
Waste Class = 2008 - #10-02 SEWALLS ISLAND/WATN/PO#SLUE0005-002
Description =

Driver: Weighmaster: Betsy Busler #220105
SCALE HOURS OF OPERATION: MONDAY THRU FRIDAY 7:15 AM- 3:00 PM

Joseph Levey

ATTENTION SHIPPERS!
This Shipping Order

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.
Must be legibly filled in, in Ink indelible Pencil, or in Carbon, and retained by the agent

Shipper No. 624
Carrier No. 7A-402

Page 1 of 1 — Riccelli Trucking (Name of carrier) (SCAC) — Date 1/19/10

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

TO:
Consignee: Development Authority of the North Country
Street: Solid Waste Management Facility
City: Rodman State: NY Zip Code: 13682

FROM:
Shipper: City of Watertown/ Seawall's Island
Street: 400 Pearl Street
City: Watertown State: NY Zip Code:
24 hr. Emergency Contact Tel. No.: 800-225-6750

Route:
Vehicle Number: 624

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
1 -DT		Non-RCRA, Non-DOT Regulated Solids (~~Petroleum~~ Mercury Contaminated Soil)	Est 34	T		
		SWFM Project ID # 10-02				
		PO # SLUE0005-002				

PLACARDS TENDERED: YES NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____."
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

_____ Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: $

C.O.D. FEE: PREPAID COLLECT $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

_____ (Signature of Consignor)

TOTAL CHARGES $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked ☐ Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER: City of Watertown/ Seawall's Island
PER: Eric Detwel / Lu Engineers

CARRIER: Riccelli Trucking
PER: Joseph Ray
DATE: 1-19-10

2

Permanent post-office address of shipper.

STYLE CF360-4 © 2003 LABELMASTER® (800) 621-5808 www.labelmaster.com

Development Authority of the North Country
Solid Waste Management Facility
23400 NYS Route 177
Rodman, New York 13682
Tel:(315)232-3236 Ext.210 Fax:(315)232-2696

145788
624

ill Acct: OPTEENVI Haul Acct: RICEENTE Tran#:243494
Company: OP-TECH Environmental Ser Company: Riccelli Enterprises, Inc.
1 Adler Drive

East Syracuse NY 13057

	---In---	---Out--
Date	01/19/10	01/19/10
Time	08:59	09:17

		Lbs	Tons
Gross		103820	51.91
Tare		41760	20.88
NET		62060	31.03

ehicle#: 4548 License#:1465C5
ontainer#: License#:
aterial = 600 - Contaminated
ounty = 10 - Jefferson
'aste Class = 2008 - #10-02 SEWALLS ISLAND/WATN/PO#SLUE0005-002
)escription =

)river: Weighmaster: Betsy Busler #220105
:CALE HOURS OF OPERATION: MONDAY THRU FRIDAY 7:15 AM- 3:00 PM

ATTENTION SHIPPERS!
This Shipping Order

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.
Must be legibly filled in, in Ink Indelible Pencil, or in Carbon, and retained by the agent

Shipper No. 6
Carrier No. 7A-402

Page 1 of 1

Riccelli Trucking
(Name of carrier) (SCAC)

Date 1/19/10

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

TO:
Consignee: Development Authority of the North Country
Street: Solid Waste Management Facility
City: Rodman State: NY Zip Code: 13682

FROM:
Shipper: City of Watertown/ Seawall's Island
Street: 400 Pearl Street
City: Watertown State: NY Zip Code:
24 hr. Emergency Contact Tel. No.: 800-225-6750

Route

Vehicle Number 624

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
1 DT		Non-RCRA, Non-DOT Regulated Solids (~~Petroleum~~ Mercury Contaminated Soil)	Est 36	T		
		SWFM Project ID # 10-02				
		PO # SLUE0005-002				

PLACARDS TENDERED: YES NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____"
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable International and national governmental regulations.

_____ Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: $

C.O.D. FEE: PREPAID COLLECT $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

TOTAL CHARGES $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked ☐ Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER City of Watertown/ Seawall's Island
PER [signature] / Lu Engineers

CARRIER Riccelli Trucking
PER [signature]
DATE 1-19-10

2

Permanent post-office address of shipper

STYLE CF360-4 © 2003 LABELMASTER® (800) 621-5808 www.labelmaster.com

NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A

Manifest Document No.: 11-0353

2. Page 1 of 1

3. Generator's Name and Mailing Address: City of Watertown, Planning & Zoning Dept., 245 Washington St., 3rd Floor, Watertown, NY 13601

400 Pearl Street

Watertown, NY 13601

4. Generator's Phone ( )

5. Transporter 1 Company Name: Paragon Environmental Construction, Inc.

6. US EPA ID Number: NYR 000119289

A. State Transporter's ID: 431775RNY

B. Transporter 1 Phone: (315) 699-0840

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address: Industrial Oil Tank Service, 120 Dry Road, Oriskany, NY 13424

10. US EPA ID Number: NYR 000005298

E. State Facility's ID

F. Facility's Phone: (315) 736-6080

GENERATOR

11. WASTE DESCRIPTION	Containers No.	Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non-RCRA Non-DOT Regulated Liquids	1	TT	825	G
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above: A) Petroleum Impacted Water

H. Handling Codes for Wastes Listed Above: A) R

15. Special Handling Instructions and Additional Information: Emergency Contact: Paragon Environmental Construction, Inc. @ 315-699-0840

NON-HAZARDOUS WASTE

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Wendell Pierce — Signature: Wendell Pierce Eng — Date: Month 12 Day 16 Year 11

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Bruce Reynolds — Signature: Bruce Reynolds — Date: Month 12 Day 16 Year 11

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name — Signature — Date: Month Day Year

CF14 © 2002 LABELMASTER® (800) 621-5808 www.labelmaster.com

PRINTED ON RECYCLED PAPER USING SOYBEAN INK

PRINTED WITH SOY INK

Waste Drum Disposal Documentation

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: NYR000177832
2. Page 1 of 1
3. Emergency Response Phone: 315-785-7730
4. Manifest Tracking Number: 006758482 JJK

5. Generator's Name and Mailing Address
City of Watertown - Seawall's Island Site
245 Washington Street, Suite 304, Municipal Bldg. Dept. Plann
Watertown NY 13601
Att: Kenneth Mix
Generator's Phone: 315 785-7730

Generator's Site Address (if different than mailing address)
City of Watertown - Seawall's Island Site
400 Pearl Street
Watertown NY 13601

6. Transporter 1 Company Name: Clean Harbors Environmental Services, Inc.
U.S. EPA ID Number: MAD039322250

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

8. Designated Facility Name and Site Address
Clean Harbors El Dorado, LLC
309 American Circle
El Dorado AR 71730
Facility's Phone: 870 863-7173
U.S. EPA ID Number: ARD069748192

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. RQ UN1993, WASTE Flammable Liquids, n.o.s. (Gasoline) 3, PGII (D001, D031) EPA# D040	003	DM	165	G	D001 D031	D008 D039	D029 B
X	2. RQ UN1993, WASTE Flammable Liquids, n.o.s. (Gasoline) 3, PGII (D001, D031) EPA# D040	002	DF	110	G	D001 D031	D008 D039	D029 B
X	3. RQ NA3082, Hazardous Waste, Liquid, n.o.s. (Trichloroethylene) 9, PGIII (D040)	002	DF	110	G	D040	B	
X	4. ~~RQ NA3082, Hazardous Waste, Liquid, n.o.s. (Trichloroethylene) 9, PGIII (D040)~~ GA		~~DM~~		~~G~~	~~D040~~ GA	~~B~~	

14. Special Handling Instructions and Additional Information
1. CH569542, 85Gal., ERG# 128
2. CH569542, 85Gal., ERG# 128
3. CH569412, 85Gal., ERG# 171
4. ~~CH569412, 85Gal., ERG# 171~~

Sales Order# 724594551 Plate# 1835967 ME

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: Gregory L. Andrus
Signature:
Month 9 Day 11 Year 12

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

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Walt St. Pierre
Signature:
Month 9 Day 11 Year 12
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.

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

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

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

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Land Disposal Restriction Notification Form

Facility Site Address
Clean Harbors El Dorado, LLC
309 American Circle
El Dorado AR 71730
EPA ID ARD069748192

State Manifest Number: 006758482JJK
Federal Manifest Number:

Generator Mail Address
City of Watertown - Seawall's Island Site
245 Washington Street, Suite 304 Municipal Bldg.
Watertown NY 13601
EPA ID NYR000177832

Generator Site Address
City of Watertown - Seawall's Island Site
400 Pearl Street
Watertown NY 13601

Manifest Line No.: 1 **Certification:** General Certificate

Treatability Group	
.WW	NWW
	X

Profile Name: Gasoline& Oil c/w Solvents
Profile Number: CH569542 **Approval Code:** CH569542 **Approval Status:**

A. F001 - F005 Solvent Restrictions

This restricted waste category is banned from land disposal under 40 CFR 268.30 and is subject to one or more treatment standards under 40 CFR Subpart D.

EPA Code	Hazardous Constituent	CAS	WW Standard	NWW Standard

B. Other Regulated Waste Notification

This section includes all wastes restricted from land disposal not included in other sections. If any treatment standards reference 40 CFR 268.48, then all underlying hazardous constituents are listed in Section D.

EPA Code	Hazardous Constituent	Waste Description and Treatment/ Regulatory Subcategory	CAS	WW Standard	NWW Standard

C. D001 - D043

If any treatment standards reference 40 CFR 268.48, then all underlying hazardous constituents are listed in Section D.

(c) 2007 Terralink Systems, Inc.

Land Disposal Restriction Notification Form

Facility Site Address
Clean Harbors El Dorado, LLC
309 American Circle
El Dorado AR 71730
EPA ID ARD069748192

State Manifest Number: 006758482JJK
Federal Manifest Number:

Generator Mail Address
City of Watertown - Seawall's Island Site
245 Washington Street, Suite 304 Municipal Bldg.
Watertown NY 13601
EPA ID NYR000177832

Generator Site Address
City of Watertown - Seawall's Island Site
400 Pearl Street
Watertown NY 13601

EPA Code	Hazardous Constituent	Waste Description and Treatment/ Regulatory Subcategory	CAS	WW Standard	NWW Standard
D001	NA	High TOC Ignitable Characteristic Liquids Subcategory based on 40 CFR 261.21(a)(1) - Greater than or equal to 10% total organic carbon. (Note: This subcategory consists of nonwastewaters only.)		NA	RORGS; CMBST; OR POLYM
D008	Lead	Wastes that exhibit, or are expected to exhibit, the characteristic of toxicity for lead based on the toxicity characteristic leaching procedure (TCLP) in SW846.	7439-92-1	0.69 and meet §268.48 standards	0.75 mg/l TCLP and meet §268.48 standards
D029	1,1-Dichloroethylene	Wastes that are TC for 1,1-Dichloroethylene based on the TCLP in SW846 Method 1311.	75-35-4	0.025 and meet §268.48 standards	6.0 and meet §268.48 standards
D031	Heptachlor	Wastes that are TC for Heptachlor based on the TCLP in SW846 Method 1311.	76-44-8	0.0012 and meet §268.48 standards	0.066 and meet §268.48 standards
D039	Tetrachloroethylene	Wastes that are TC for Tetrachloroethylene based on the TCLP in SW846 Method 1311.	127-18-4	0.056 and meet §268.48 standards	6.0 and meet §268.48 standards
D040	Trichloroethylene	Wastes that are TC for Trichloroethylene based on the TCLP in SW846 Method 1311.	79-01-6	0.054 and meet §268.48 standards	6.0 and meet §268.48 standards

D. Underlying Hazardous Constituents

This section contains the list of all constituents listed in 40 CFR 268.48, Table UTS - Universal Treatment Standards, except vanadium and zinc, which can reasonably be expected to be present at the point of generation of the hazardous waste, at a concentration above the constituent-specific UTS treatment standard.

Hazardous Constituent	WW Standard	NWW Standard
1,1,1-Trichloroethane	0.054	6.0
Heptachlor epoxide	0.016	0.066
Xylenes-mixed isomers (sum of o-, m-, and p-xylene conc	0.32	30

E. Non-Hazardous / Non-Restricted Waste

There are no EPA waste codes that are not subject to land disposal restrictions as specified in 40 CFR Subpart D or applicable prohibitions in 40 CFR 268.32 or RCRA.

I hereby notify that this shipment contains waste restricted under 40 CFR 268, Land Disposal Restrictions. I hereby certify that all information submitted in this and all attached documents is complete, contains true and accurate descriptions and is representative of the waste material, and that all relevant information regarding known or suspected hazards in the possession of the generator has been disclosed.

(c) 2007 Terralink Systems, Inc.

Land Disposal Restriction Notification Form

Facility Site Address

Clean Harbors El Dorado, LLC
309 American Circle
El Dorado AR 71730
EPA ID ARD069748192

State Manifest Number: 006758482JJK
Federal Manifest Number:

Generator Mail Address

City of Watertown - Seawall's Island Site
245 Washington Street, Suite 304 Municipal Bldg.
Watertown NY 13601
EPA ID NYR000177832

Generator Site Address

City of Watertown - Seawall's Island Site
400 Pearl Street
Watertown NY 13601

Signature _____

Date 9/11/12

(c) 2007 Terralink Systems, Inc.

Land Disposal Restriction Notification Form

Facility Site Address
Clean Harbors El Dorado, LLC
309 American Circle
El Dorado AR 71730
EPA ID ARD069748192

State Manifest Number: 006758482JJK
Federal Manifest Number:

Generator Mail Address
City of Watertown - Seawall's Island Site
245 Washington Street, Suite 304 Municipal Bldg.
Watertown NY 13601
EPA ID NYR000177832

Generator Site Address
City of Watertown - Seawall's Island Site
400 Pearl Street
Watertown NY 13601

Manifest Line No.: 2 **Certification:** General Certificate

Treatability Group	
WW	NWW
	X

Profile Name: Gasoline& Oil c/w Solvents
Profile Number: CH569542 **Approval Code:** CH569542 **Approval Status:**

A. F001 - F005 Solvent Restrictions

This restricted waste category is banned from land disposal under 40 CFR 268.30 and is subject to one or more treatment standards under 40 CFR Subpart D.

EPA Code	Hazardous Constituent	CAS	WW Standard	NWW Standard

B. Other Regulated Waste Notification

This section includes all wastes restricted from land disposal not included in other sections. If any treatment standards reference 40 CFR 268.48, then all underlying hazardous constituents are listed In Section D.

EPA Code	Hazardous Constituent	Waste Description and Treatment/ Regulatory Subcategory	CAS	WW Standard	NWW Standard

C. D001 - D043

If any treatment standards reference 40 CFR 268.48, then all underlying hazardous constituents are listed in Section D.

(c) 2007 Terralink Systems, Inc.

Land Disposal Restriction Notification Form

Facility Site Address

Clean Harbors El Dorado, LLC
309 American Circle
El Dorado AR 71730
EPA ID ARD069748192

State Manifest Number: 006758482JJK
Federal Manifest Number:

Generator Mail Address

City of Watertown - Seawall's Island Site
245 Washington Street, Suite 304 Municipal Bldg.
Watertown NY 13601
EPA ID NYR000177832

Generator Site Address

City of Watertown - Seawall's Island Site
400 Pearl Street
Watertown NY 13601

EPA Code	Hazardous Constituent	Waste Description and Treatment/ Regulatory Subcategory	CAS	WW Standard	NWW Standard
D001	NA	High TOC Ignitable Characteristic Liquids Subcategory based on 40 CFR 261.21(a)(1) - Greater than or equal to 10% total organic carbon. (Note: This subcategory consists of nonwastewaters only.)		NA	RORGS; CMBST; OR POLYM
D008	Lead	Wastes that exhibit, or are expected to exhibit, the characteristic of toxicity for lead based on the toxicity characteristic leaching procedure (TCLP) in SW846.	7439-92-1	0.69 and meet §268.48 standards	0.75 mg/l TCLP and meet §268.48 standards
D029	1,1-Dichloroethylene	Wastes that are TC for 1,1-Dichloroethylene based on the TCLP in SW846 Method 1311.	75-35-4	0.025 and meet §268.48 standards	6.0 and meet §268.48 standards
D031	Heptachlor	Wastes that are TC for Heptachlor based on the TCLP in SW846 Method 1311.	76-44-8	0.0012 and meet §268.48 standards	0.066 and meet §268.48 standards
D039	Tetrachloroethylene	Wastes that are TC for Tetrachloroethylene based on the TCLP in SW846 Method 1311.	127-18-4	0.056 and meet §268.48 standards	6.0 and meet §268.48 standards
D040	Trichloroethylene	Wastes that are TC for Trichloroethylene based on the TCLP in SW846 Method 1311.	79-01-6	0.054 and meet §268.48 standards	6.0 and meet §268.48 standards

D. Underlying Hazardous Constituents

This section contains the list of all constituents listed in 40 CFR 268.48, Table UTS - Universal Treatment Standards, except vanadium and zinc, which can reasonably be expected to be present at the point of generation of the hazardous waste, at a concentration above the constituent-specific UTS treatment standard.

Hazardous Constituent	WW Standard	NWW Standard
1,1,1-Trichloroethane	0.054	6.0
Heptachlor epoxide	0.016	0.066
Xylenes-mixed isomers (sum of o-, m-, and p-xylene conc	0.32	30

E. Non-Hazardous / Non-Restricted Waste

There are no EPA waste codes that are not subject to land disposal restrictions as specified in 40 CFR Subpart D or applicable prohibitions in 40 CFR 268.32 or RCRA.

I hereby notify that this shipment contains waste restricted under 40 CFR 268, Land Disposal Restrictions. I hereby certify that all information submitted in this and all attached documents is complete, contains true and accurate descriptions and is representative of the waste material, and that all relevant information regarding known or suspected hazards in the possession of the generator has been disclosed.

(c) 2007 Terralink Systems, Inc.

Land Disposal Restriction Notification Form

Facility Site Address

Clean Harbors El Dorado, LLC
309 American Circle
El Dorado AR 71730
EPA ID ARD069748192

State Manifest Number: 006758482JJK
Federal Manifest Number:

Generator Mail Address

City of Watertown - Seawall's Island Site
245 Washington Street, Suite 304 Municipal Bldg.
Watertown NY 13601
EPA ID NYR000177832

Generator Site Address

City of Watertown - Seawall's Island Site
400 Pearl Street
Watertown NY 13601

Signature _____ Date 9/11/12

(c) 2007 Terralink Systems, Inc.

Land Disposal Restriction Notification Form

Facility Site Address
Clean Harbors El Dorado, LLC
309 American Circle
El Dorado AR 71730
EPA ID ARD069748192

State Manifest Number: 006758482JJK
Federal Manifest Number:

Generator Mail Address
City of Watertown - Seawall's Island Site
245 Washington Street, Suite 304 Municipal Bldg.
Watertown NY 13601
EPA ID NYR000177832

Generator Site Address
City of Watertown - Seawall's Island Site
400 Pearl Street
Watertown NY 13601

Manifest Line No.: 3 **Certification:** General Certificate

Treatability Group	
WW	NWW
	X

Profile Name: Waste Oil c/w Solvents
Profile Number: CH569412 **Approval Code:** CH569412 **Approval Status:**

A. F001 - F005 Solvent Restrictions

This restricted waste category is banned from land disposal under 40 CFR 268.30 and is subject to one or more treatment standards under 40 CFR Subpart D.

EPA Code	Hazardous Constituent	CAS	WW Standard	NWW Standard

B. Other Regulated Waste Notification

This section includes all wastes restricted from land disposal not included in other sections. If any treatment standards reference 40 CFR 268.48, then all underlying hazardous constituents are listed in Section D.

EPA Code	Hazardous Constituent	Waste Description and Treatment/ Regulatory Subcategory	CAS	WW Standard	NWW Standard

C. D001 - D043

If any treatment standards reference 40 CFR 268.48, then all underlying hazardous constituents are listed in Section D.

EPA Code	Hazardous Constituent	Waste Description and Treatment/ Regulatory Subcategory	CAS	WW Standard	NWW Standard
D040	Trichloroethylene	Wastes that are TC for Trichloroethylene based on the TCLP in SW846 Method 1311.	79-01-6	0.054 and meet §268.48 standards	6.0 and meet §268.48 standards

D. Underlying Hazardous Constituents

This section contains the list of all constituents listed in 40 CFR 268.48, Table UTS - Universal Treatment Standards, except vanadium and zinc, which can reasonably be expected to be present at the point of generation of the hazardous waste, at a concentration above the constituent-specific UTS treatment standard.

Hazardous Constituent	WW Standard	NWW Standard
1,1,1-Trichloroethane	0.054	6.0

E. Non-Hazardous / Non-Restricted Waste

There are no EPA waste codes that are not subject to land disposal restrictions as specified in 40 CFR Subpart D or applicable prohibitions in 40 CFR 268.32 or RCRA.

I hereby notify that this shipment contains waste restricted under 40 CFR 268, Land Disposal Restrictions. I hereby certify that all information submitted in this and all attached documents is complete, contains true and accurate descriptions and is representative of the waste material, and that all relevant information regarding known or suspected hazards in the possession of the generator has been disclosed.

Signature _____ Date 9/11/12

(c) 2007 Terralink Systems, Inc.

Appendix E
Community Air Monitoring Data

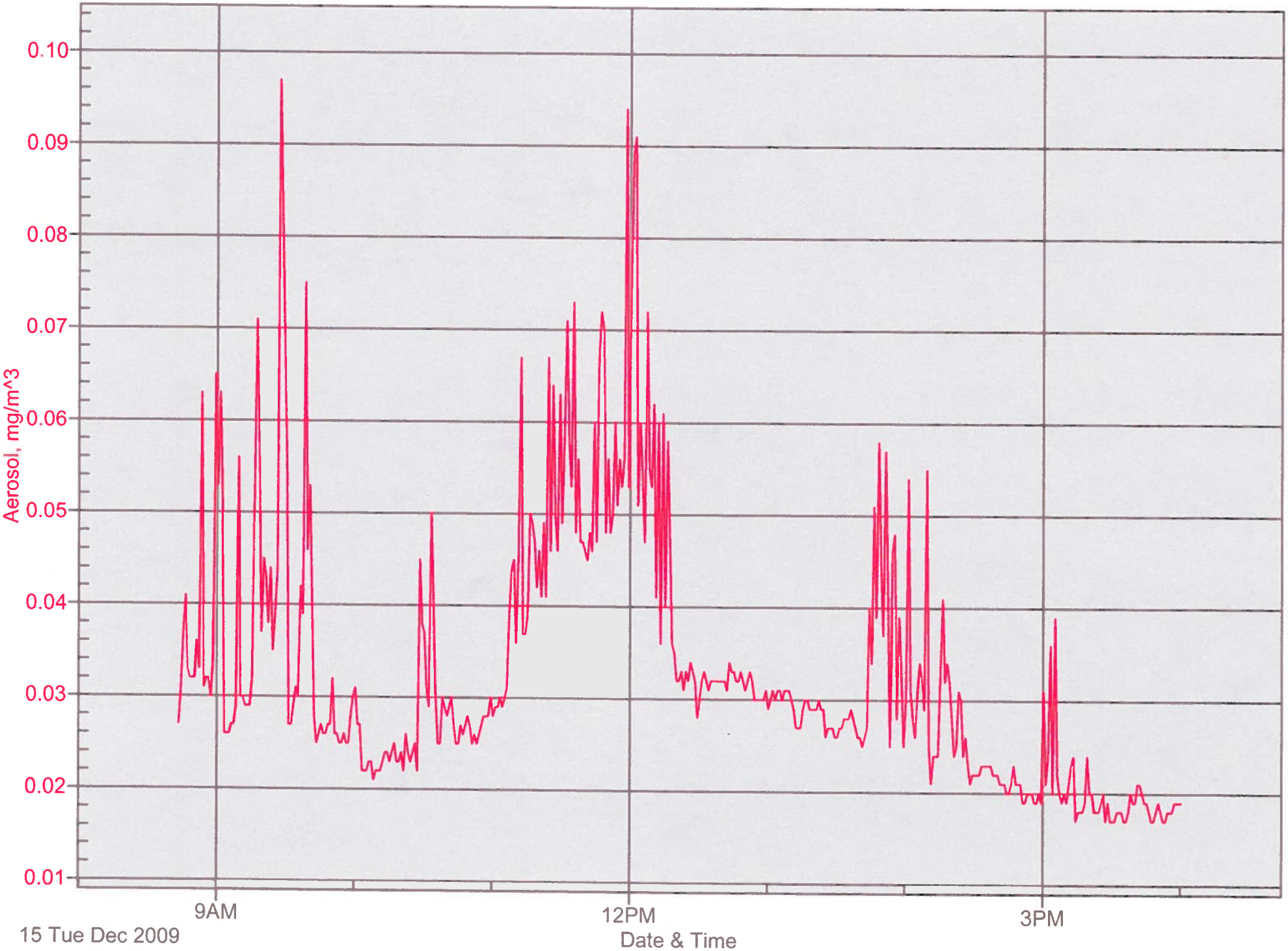
Test 001

Instrument		Data Properties	
Model	Dust Trak	Start Date	12/15/2009
Meter S/N	22704	Start Time	08:42:19
		Stop Date	12/15/2009
		Stop Time	16:00:19
		Total Time	0:07:18:00
		Logging Interval	60 seconds

Statistics	
	Aerosol
Ave	0.033 mg/m^3
Max	0.097 mg/m^3
Max Date	12/15/2009
Max Time	09:27:19
Min	0.017 mg/m^3
Min Date	12/15/2009
Min Time	15:14:19
TWA (8 hr)	0.030
TWA Start Date	12/15/2009
TWA Start Time	08:42:19
TWA End Time	16:00:19

Sewall's Island Site - IRM

PAOC3 Excavation



Test 001

Instrument		Data Properties	
Model	Dust Trak	Start Date	12/15/2009
Meter S/N	22704	Start Time	08:42:19
		Stop Date	12/15/2009
		Stop Time	16:00:19
		Total Time	0:07:18:00
		Logging Interval	60 seconds

Test Data			
Sample	Date	Time	Aerosol mg/m^3
1	12/15/2009	08:43:19	0.027
2	12/15/2009	08:44:19	0.031
3	12/15/2009	08:45:19	0.037
4	12/15/2009	08:46:19	0.041
5	12/15/2009	08:47:19	0.033
6	12/15/2009	08:48:19	0.032
7	12/15/2009	08:49:19	0.032
8	12/15/2009	08:50:19	0.032
9	12/15/2009	08:51:19	0.036
10	12/15/2009	08:52:19	0.033
11	12/15/2009	08:53:19	0.063
12	12/15/2009	08:54:19	0.031
13	12/15/2009	08:55:19	0.032
14	12/15/2009	08:56:19	0.032
15	12/15/2009	08:57:19	0.030
16	12/15/2009	08:58:19	0.034
17	12/15/2009	08:59:19	0.065
18	12/15/2009	09:00:19	0.053
19	12/15/2009	09:01:19	0.063
20	12/15/2009	09:02:19	0.051
21	12/15/2009	09:03:19	0.026
22	12/15/2009	09:04:19	0.026
23	12/15/2009	09:05:19	0.026
24	12/15/2009	09:06:19	0.027
25	12/15/2009	09:07:19	0.027
26	12/15/2009	09:08:19	0.029
27	12/15/2009	09:09:19	0.056
28	12/15/2009	09:10:19	0.030
29	12/15/2009	09:11:19	0.030
30	12/15/2009	09:12:19	0.029
31	12/15/2009	09:13:19	0.029
32	12/15/2009	09:14:19	0.029
33	12/15/2009	09:15:19	0.032
34	12/15/2009	09:16:19	0.054
35	12/15/2009	09:17:19	0.071
36	12/15/2009	09:18:19	0.057
37	12/15/2009	09:19:19	0.037
38	12/15/2009	09:20:19	0.045
39	12/15/2009	09:21:19	0.043
40	12/15/2009	09:22:19	0.038
41	12/15/2009	09:23:19	0.044
42	12/15/2009	09:24:19	0.035
43	12/15/2009	09:25:19	0.039

Test Data			
Sample	Date	Time	Aerosol mg/m^3
44	12/15/2009	09:26:19	0.044
45	12/15/2009	09:27:19	0.097
46	12/15/2009	09:28:19	0.083
47	12/15/2009	09:29:19	0.070
48	12/15/2009	09:30:19	0.056
49	12/15/2009	09:31:19	0.027
50	12/15/2009	09:32:19	0.027
51	12/15/2009	09:33:19	0.029
52	12/15/2009	09:34:19	0.031
53	12/15/2009	09:35:19	0.030
54	12/15/2009	09:36:19	0.042
55	12/15/2009	09:37:19	0.039
56	12/15/2009	09:38:19	0.075
57	12/15/2009	09:39:19	0.046
58	12/15/2009	09:40:19	0.053
59	12/15/2009	09:41:19	0.040
60	12/15/2009	09:42:19	0.028
61	12/15/2009	09:43:19	0.025
62	12/15/2009	09:44:19	0.026
63	12/15/2009	09:45:19	0.027
64	12/15/2009	09:46:19	0.026
65	12/15/2009	09:47:19	0.026
66	12/15/2009	09:48:19	0.027
67	12/15/2009	09:49:19	0.027
68	12/15/2009	09:50:19	0.032
69	12/15/2009	09:51:19	0.026
70	12/15/2009	09:52:19	0.026
71	12/15/2009	09:53:19	0.025
72	12/15/2009	09:54:19	0.025
73	12/15/2009	09:55:19	0.026
74	12/15/2009	09:56:19	0.025
75	12/15/2009	09:57:19	0.025
76	12/15/2009	09:58:19	0.028
77	12/15/2009	09:59:19	0.030
78	12/15/2009	10:00:19	0.031
79	12/15/2009	10:01:19	0.027
80	12/15/2009	10:02:19	0.027
81	12/15/2009	10:03:19	0.022
82	12/15/2009	10:04:19	0.022
83	12/15/2009	10:05:19	0.022
84	12/15/2009	10:06:19	0.023
85	12/15/2009	10:07:19	0.023
86	12/15/2009	10:08:19	0.021
87	12/15/2009	10:09:19	0.022
88	12/15/2009	10:10:19	0.022
89	12/15/2009	10:11:19	0.022
90	12/15/2009	10:12:19	0.023
91	12/15/2009	10:13:19	0.024
92	12/15/2009	10:14:19	0.024
93	12/15/2009	10:15:19	0.023
94	12/15/2009	10:16:19	0.024
95	12/15/2009	10:17:19	0.025
96	12/15/2009	10:18:19	0.023
97	12/15/2009	10:19:19	0.023
98	12/15/2009	10:20:19	0.024

Test Data			
Sample	Date	Time	Aerosol mg/m^3
99	12/15/2009	10:21:19	0.022
100	12/15/2009	10:22:19	0.026
101	12/15/2009	10:23:19	0.024
102	12/15/2009	10:24:19	0.023
103	12/15/2009	10:25:19	0.024
104	12/15/2009	10:26:19	0.025
105	12/15/2009	10:27:19	0.022
106	12/15/2009	10:28:19	0.045
107	12/15/2009	10:29:19	0.038
108	12/15/2009	10:30:19	0.037
109	12/15/2009	10:31:19	0.031
110	12/15/2009	10:32:19	0.029
111	12/15/2009	10:33:19	0.050
112	12/15/2009	10:34:19	0.040
113	12/15/2009	10:35:19	0.030
114	12/15/2009	10:36:19	0.025
115	12/15/2009	10:37:19	0.025
116	12/15/2009	10:38:19	0.030
117	12/15/2009	10:39:19	0.029
118	12/15/2009	10:40:19	0.028
119	12/15/2009	10:41:19	0.029
120	12/15/2009	10:42:19	0.030
121	12/15/2009	10:43:19	0.027
122	12/15/2009	10:44:19	0.025
123	12/15/2009	10:45:19	0.025
124	12/15/2009	10:46:19	0.027
125	12/15/2009	10:47:19	0.026
126	12/15/2009	10:48:19	0.027
127	12/15/2009	10:49:19	0.028
128	12/15/2009	10:50:19	0.027
129	12/15/2009	10:51:19	0.025
130	12/15/2009	10:52:19	0.026
131	12/15/2009	10:53:19	0.025
132	12/15/2009	10:54:19	0.026
133	12/15/2009	10:55:19	0.027
134	12/15/2009	10:56:19	0.028
135	12/15/2009	10:57:19	0.028
136	12/15/2009	10:58:19	0.028
137	12/15/2009	10:59:19	0.030
138	12/15/2009	11:00:19	0.028
139	12/15/2009	11:01:19	0.029
140	12/15/2009	11:02:19	0.029
141	12/15/2009	11:03:19	0.030
142	12/15/2009	11:04:19	0.029
143	12/15/2009	11:05:19	0.030
144	12/15/2009	11:06:19	0.031
145	12/15/2009	11:07:19	0.039
146	12/15/2009	11:08:19	0.044
147	12/15/2009	11:09:19	0.045
148	12/15/2009	11:10:19	0.036
149	12/15/2009	11:11:19	0.046
150	12/15/2009	11:12:19	0.067
151	12/15/2009	11:13:19	0.037
152	12/15/2009	11:14:19	0.037
153	12/15/2009	11:15:19	0.039

Test Data			
Sample	Date	Time	Aerosol mg/m^3
154	12/15/2009	11:16:19	0.050
155	12/15/2009	11:17:19	0.049
156	12/15/2009	11:18:19	0.047
157	12/15/2009	11:19:19	0.042
158	12/15/2009	11:20:19	0.046
159	12/15/2009	11:21:19	0.041
160	12/15/2009	11:22:19	0.049
161	12/15/2009	11:23:19	0.041
162	12/15/2009	11:24:19	0.067
163	12/15/2009	11:25:19	0.046
164	12/15/2009	11:26:19	0.064
165	12/15/2009	11:27:19	0.050
166	12/15/2009	11:28:19	0.046
167	12/15/2009	11:29:19	0.063
168	12/15/2009	11:30:19	0.049
169	12/15/2009	11:31:19	0.059
170	12/15/2009	11:32:19	0.071
171	12/15/2009	11:33:19	0.058
172	12/15/2009	11:34:19	0.053
173	12/15/2009	11:35:19	0.073
174	12/15/2009	11:36:19	0.048
175	12/15/2009	11:37:19	0.056
176	12/15/2009	11:38:19	0.047
177	12/15/2009	11:39:19	0.047
178	12/15/2009	11:40:19	0.046
179	12/15/2009	11:41:19	0.045
180	12/15/2009	11:42:19	0.048
181	12/15/2009	11:43:19	0.046
182	12/15/2009	11:44:19	0.060
183	12/15/2009	11:45:19	0.047
184	12/15/2009	11:46:19	0.067
185	12/15/2009	11:47:19	0.072
186	12/15/2009	11:48:19	0.070
187	12/15/2009	11:49:19	0.048
188	12/15/2009	11:50:19	0.056
189	12/15/2009	11:51:19	0.048
190	12/15/2009	11:52:19	0.050
191	12/15/2009	11:53:19	0.060
192	12/15/2009	11:54:19	0.051
193	12/15/2009	11:55:19	0.056
194	12/15/2009	11:56:19	0.053
195	12/15/2009	11:57:19	0.056
196	12/15/2009	11:58:19	0.094
197	12/15/2009	11:59:19	0.053
198	12/15/2009	12:00:19	0.074
199	12/15/2009	12:01:19	0.089
200	12/15/2009	12:02:19	0.091
201	12/15/2009	12:03:19	0.051
202	12/15/2009	12:04:19	0.060
203	12/15/2009	12:05:19	0.054
204	12/15/2009	12:06:19	0.047
205	12/15/2009	12:07:19	0.072
206	12/15/2009	12:08:19	0.055
207	12/15/2009	12:09:19	0.053
208	12/15/2009	12:10:19	0.062

Test Data			
Sample	Date	Time	Aerosol mg/m^3
209	12/15/2009	12:11:19	0.041
210	12/15/2009	12:12:19	0.060
211	12/15/2009	12:13:19	0.036
212	12/15/2009	12:14:19	0.061
213	12/15/2009	12:15:19	0.040
214	12/15/2009	12:16:19	0.058
215	12/15/2009	12:17:19	0.047
216	12/15/2009	12:18:19	0.036
217	12/15/2009	12:19:19	0.035
218	12/15/2009	12:20:19	0.032
219	12/15/2009	12:21:19	0.032
220	12/15/2009	12:22:19	0.033
221	12/15/2009	12:23:19	0.031
222	12/15/2009	12:24:19	0.033
223	12/15/2009	12:25:19	0.032
224	12/15/2009	12:26:19	0.034
225	12/15/2009	12:27:19	0.033
226	12/15/2009	12:28:19	0.032
227	12/15/2009	12:29:19	0.028
228	12/15/2009	12:30:19	0.030
229	12/15/2009	12:31:19	0.032
230	12/15/2009	12:32:19	0.033
231	12/15/2009	12:33:19	0.032
232	12/15/2009	12:34:19	0.031
233	12/15/2009	12:35:19	0.032
234	12/15/2009	12:36:19	0.032
235	12/15/2009	12:37:19	0.032
236	12/15/2009	12:38:19	0.032
237	12/15/2009	12:39:19	0.032
238	12/15/2009	12:40:19	0.032
239	12/15/2009	12:41:19	0.032
240	12/15/2009	12:42:19	0.031
241	12/15/2009	12:43:19	0.034
242	12/15/2009	12:44:19	0.033
243	12/15/2009	12:45:19	0.033
244	12/15/2009	12:46:19	0.032
245	12/15/2009	12:47:19	0.032
246	12/15/2009	12:48:19	0.033
247	12/15/2009	12:49:19	0.032
248	12/15/2009	12:50:19	0.031
249	12/15/2009	12:51:19	0.032
250	12/15/2009	12:52:19	0.033
251	12/15/2009	12:53:19	0.032
252	12/15/2009	12:54:19	0.030
253	12/15/2009	12:55:19	0.030
254	12/15/2009	12:56:19	0.030
255	12/15/2009	12:57:19	0.030
256	12/15/2009	12:58:19	0.030
257	12/15/2009	12:59:19	0.031
258	12/15/2009	13:00:19	0.029
259	12/15/2009	13:01:19	0.030
260	12/15/2009	13:02:19	0.031
261	12/15/2009	13:03:19	0.030
262	12/15/2009	13:04:19	0.031
263	12/15/2009	13:05:19	0.031

Test Data			
Sample	Date	Time	Aerosol mg/m^3
264	12/15/2009	13:06:19	0.030
265	12/15/2009	13:07:19	0.031
266	12/15/2009	13:08:19	0.031
267	12/15/2009	13:09:19	0.031
268	12/15/2009	13:10:19	0.030
269	12/15/2009	13:11:19	0.029
270	12/15/2009	13:12:19	0.027
271	12/15/2009	13:13:19	0.027
272	12/15/2009	13:14:19	0.027
273	12/15/2009	13:15:19	0.029
274	12/15/2009	13:16:19	0.030
275	12/15/2009	13:17:19	0.030
276	12/15/2009	13:18:19	0.029
277	12/15/2009	13:19:19	0.029
278	12/15/2009	13:20:19	0.029
279	12/15/2009	13:21:19	0.029
280	12/15/2009	13:22:19	0.030
281	12/15/2009	13:23:19	0.029
282	12/15/2009	13:24:19	0.029
283	12/15/2009	13:25:19	0.026
284	12/15/2009	13:26:19	0.027
285	12/15/2009	13:27:19	0.027
286	12/15/2009	13:28:19	0.027
287	12/15/2009	13:29:19	0.026
288	12/15/2009	13:30:19	0.026
289	12/15/2009	13:31:19	0.027
290	12/15/2009	13:32:19	0.027
291	12/15/2009	13:33:19	0.028
292	12/15/2009	13:34:19	0.028
293	12/15/2009	13:35:19	0.028
294	12/15/2009	13:36:19	0.029
295	12/15/2009	13:37:19	0.028
296	12/15/2009	13:38:19	0.027
297	12/15/2009	13:39:19	0.026
298	12/15/2009	13:40:19	0.026
299	12/15/2009	13:41:19	0.025
300	12/15/2009	13:42:19	0.026
301	12/15/2009	13:43:19	0.027
302	12/15/2009	13:44:19	0.040
303	12/15/2009	13:45:19	0.034
304	12/15/2009	13:46:19	0.051
305	12/15/2009	13:47:19	0.039
306	12/15/2009	13:48:19	0.058
307	12/15/2009	13:49:19	0.045
308	12/15/2009	13:50:19	0.037
309	12/15/2009	13:51:19	0.057
310	12/15/2009	13:52:19	0.042
311	12/15/2009	13:53:19	0.025
312	12/15/2009	13:54:19	0.046
313	12/15/2009	13:55:19	0.048
314	12/15/2009	13:56:19	0.028
315	12/15/2009	13:57:19	0.039
316	12/15/2009	13:58:19	0.033
317	12/15/2009	13:59:19	0.025
318	12/15/2009	14:00:19	0.030

Test Data			
Sample	Date	Time	Aerosol mg/m^3
319	12/15/2009	14:01:19	0.054
320	12/15/2009	14:02:19	0.031
321	12/15/2009	14:03:19	0.028
322	12/15/2009	14:04:19	0.026
323	12/15/2009	14:05:19	0.031
324	12/15/2009	14:06:19	0.034
325	12/15/2009	14:07:19	0.032
326	12/15/2009	14:08:19	0.029
327	12/15/2009	14:09:19	0.055
328	12/15/2009	14:10:19	0.025
329	12/15/2009	14:11:19	0.021
330	12/15/2009	14:12:19	0.024
331	12/15/2009	14:13:19	0.024
332	12/15/2009	14:14:19	0.024
333	12/15/2009	14:15:19	0.033
334	12/15/2009	14:16:19	0.041
335	12/15/2009	14:17:19	0.032
336	12/15/2009	14:18:19	0.034
337	12/15/2009	14:19:19	0.032
338	12/15/2009	14:20:19	0.028
339	12/15/2009	14:21:19	0.024
340	12/15/2009	14:22:19	0.025
341	12/15/2009	14:23:19	0.031
342	12/15/2009	14:24:19	0.030
343	12/15/2009	14:25:19	0.024
344	12/15/2009	14:26:19	0.026
345	12/15/2009	14:27:19	0.023
346	12/15/2009	14:28:19	0.021
347	12/15/2009	14:29:19	0.022
348	12/15/2009	14:30:19	0.022
349	12/15/2009	14:31:19	0.022
350	12/15/2009	14:32:19	0.022
351	12/15/2009	14:33:19	0.023
352	12/15/2009	14:34:19	0.023
353	12/15/2009	14:35:19	0.023
354	12/15/2009	14:36:19	0.023
355	12/15/2009	14:37:19	0.023
356	12/15/2009	14:38:19	0.022
357	12/15/2009	14:39:19	0.022
358	12/15/2009	14:40:19	0.022
359	12/15/2009	14:41:19	0.021
360	12/15/2009	14:42:19	0.021
361	12/15/2009	14:43:19	0.021
362	12/15/2009	14:44:19	0.020
363	12/15/2009	14:45:19	0.020
364	12/15/2009	14:46:19	0.021
365	12/15/2009	14:47:19	0.023
366	12/15/2009	14:48:19	0.021
367	12/15/2009	14:49:19	0.021
368	12/15/2009	14:50:19	0.021
369	12/15/2009	14:51:19	0.019
370	12/15/2009	14:52:19	0.019
371	12/15/2009	14:53:19	0.020
372	12/15/2009	14:54:19	0.020
373	12/15/2009	14:55:19	0.020

Test Data			
Sample	Date	Time	Aerosol mg/m^3
374	12/15/2009	14:56:19	0.019
375	12/15/2009	14:57:19	0.019
376	12/15/2009	14:58:19	0.020
377	12/15/2009	14:59:19	0.019
378	12/15/2009	15:00:19	0.031
379	12/15/2009	15:01:19	0.021
380	12/15/2009	15:02:19	0.024
381	12/15/2009	15:03:19	0.036
382	12/15/2009	15:04:19	0.020
383	12/15/2009	15:05:19	0.039
384	12/15/2009	15:06:19	0.022
385	12/15/2009	15:07:19	0.020
386	12/15/2009	15:08:19	0.019
387	12/15/2009	15:09:19	0.020
388	12/15/2009	15:10:19	0.019
389	12/15/2009	15:11:19	0.021
390	12/15/2009	15:12:19	0.023
391	12/15/2009	15:13:19	0.024
392	12/15/2009	15:14:19	0.017
393	12/15/2009	15:15:19	0.018
394	12/15/2009	15:16:19	0.018
395	12/15/2009	15:17:19	0.018
396	12/15/2009	15:18:19	0.019
397	12/15/2009	15:19:19	0.024
398	12/15/2009	15:20:19	0.020
399	12/15/2009	15:21:19	0.020
400	12/15/2009	15:22:19	0.018
401	12/15/2009	15:23:19	0.018
402	12/15/2009	15:24:19	0.018
403	12/15/2009	15:25:19	0.019
404	12/15/2009	15:26:19	0.020
405	12/15/2009	15:27:19	0.017
406	12/15/2009	15:28:19	0.019
407	12/15/2009	15:29:19	0.017
408	12/15/2009	15:30:19	0.017
409	12/15/2009	15:31:19	0.017
410	12/15/2009	15:32:19	0.018
411	12/15/2009	15:33:19	0.018
412	12/15/2009	15:34:19	0.018
413	12/15/2009	15:35:19	0.017
414	12/15/2009	15:36:19	0.017
415	12/15/2009	15:37:19	0.018
416	12/15/2009	15:38:19	0.020
417	12/15/2009	15:39:19	0.019
418	12/15/2009	15:40:19	0.019
419	12/15/2009	15:41:19	0.021
420	12/15/2009	15:42:19	0.021
421	12/15/2009	15:43:19	0.020
422	12/15/2009	15:44:19	0.019
423	12/15/2009	15:45:19	0.019
424	12/15/2009	15:46:19	0.018
425	12/15/2009	15:47:19	0.017
426	12/15/2009	15:48:19	0.017
427	12/15/2009	15:49:19	0.018
428	12/15/2009	15:50:19	0.019

Test Data			
Sample	Date	Time	Aerosol mg/m^3
429	12/15/2009	15:51:19	0.018
430	12/15/2009	15:52:19	0.017
431	12/15/2009	15:53:19	0.017
432	12/15/2009	15:54:19	0.018
433	12/15/2009	15:55:19	0.018
434	12/15/2009	15:56:19	0.018
435	12/15/2009	15:57:19	0.019
436	12/15/2009	15:58:19	0.019
437	12/15/2009	15:59:19	0.019
438	12/15/2009	16:00:19	0.019

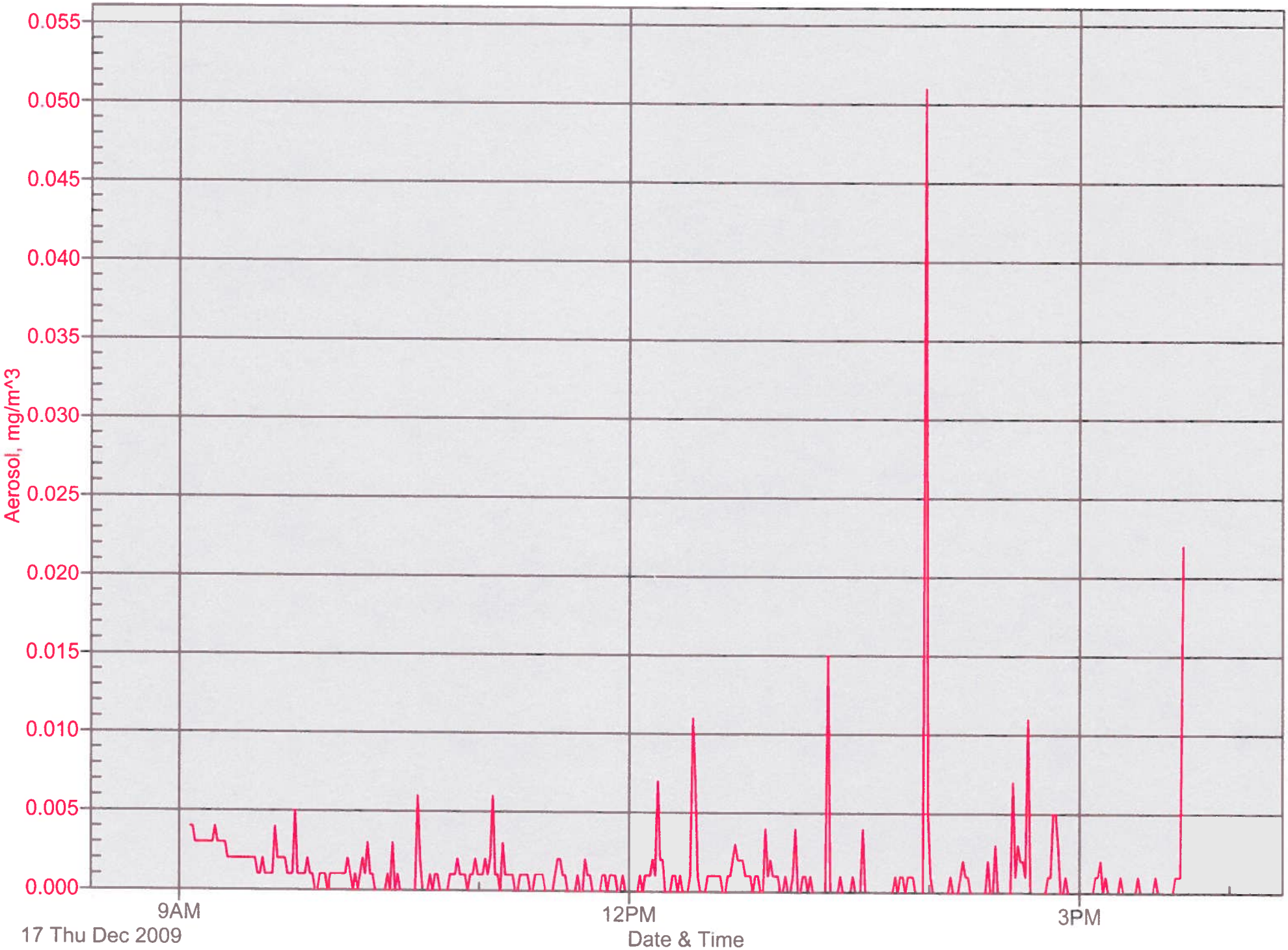
Test 002

Instrument		Data Properties	
Model	Dust Trak	Start Date	12/17/2009
Meter S/N	85202030	Start Time	09:03:25
		Stop Date	12/17/2009
		Stop Time	15:41:25
		Total Time	0:06:38:00
		Logging Interval	60 seconds

Statistics	
	Aerosol
Ave	0.001 mg/m^3
Max	0.051 mg/m^3
Max Date	12/17/2009
Max Time	13:58:25
Min	0.000 mg/m^3
Min Date	12/17/2009
Min Time	09:54:25
TWA (8 hr)	0.001
TWA Start Date	12/17/2009
TWA Start Time	09:03:25
TWA End Time	15:41:25

Sewall's Island Site - IRM

PAOC1 Test Pits



Test 002

Instrument		Data Properties	
Model	Dust Trak	Start Date	12/17/2009
Meter S/N	85202030	Start Time	09:03:25
		Stop Date	12/17/2009
		Stop Time	15:41:25
		Total Time	0:06:38:00
		Logging Interval	60 seconds

Test Data

Sample	Date	Time	Aerosol mg/m^3
1	12/17/2009	09:04:25	0.004
2	12/17/2009	09:05:25	0.004
3	12/17/2009	09:06:25	0.003
4	12/17/2009	09:07:25	0.003
5	12/17/2009	09:08:25	0.003
6	12/17/2009	09:09:25	0.003
7	12/17/2009	09:10:25	0.003
8	12/17/2009	09:11:25	0.003
9	12/17/2009	09:12:25	0.003
10	12/17/2009	09:13:25	0.003
11	12/17/2009	09:14:25	0.004
12	12/17/2009	09:15:25	0.003
13	12/17/2009	09:16:25	0.003
14	12/17/2009	09:17:25	0.003
15	12/17/2009	09:18:25	0.003
16	12/17/2009	09:19:25	0.002
17	12/17/2009	09:20:25	0.002
18	12/17/2009	09:21:25	0.002
19	12/17/2009	09:22:25	0.002
20	12/17/2009	09:23:25	0.002
21	12/17/2009	09:24:25	0.002
22	12/17/2009	09:25:25	0.002
23	12/17/2009	09:26:25	0.002
24	12/17/2009	09:27:25	0.002
25	12/17/2009	09:28:25	0.002
26	12/17/2009	09:29:25	0.002
27	12/17/2009	09:30:25	0.002
28	12/17/2009	09:31:25	0.001
29	12/17/2009	09:32:25	0.001
30	12/17/2009	09:33:25	0.002
31	12/17/2009	09:34:25	0.001
32	12/17/2009	09:35:25	0.001
33	12/17/2009	09:36:25	0.001
34	12/17/2009	09:37:25	0.001
35	12/17/2009	09:38:25	0.004
36	12/17/2009	09:39:25	0.002
37	12/17/2009	09:40:25	0.002
38	12/17/2009	09:41:25	0.002
39	12/17/2009	09:42:25	0.002
40	12/17/2009	09:43:25	0.001
41	12/17/2009	09:44:25	0.001
42	12/17/2009	09:45:25	0.001
43	12/17/2009	09:46:25	0.005

Test Data			
Sample	Date	Time	Aerosol mg/m^3
44	12/17/2009	09:47:25	0.001
45	12/17/2009	09:48:25	0.001
46	12/17/2009	09:49:25	0.001
47	12/17/2009	09:50:25	0.001
48	12/17/2009	09:51:25	0.002
49	12/17/2009	09:52:25	0.001
50	12/17/2009	09:53:25	0.001
51	12/17/2009	09:54:25	0.000
52	12/17/2009	09:55:25	0.000
53	12/17/2009	09:56:25	0.001
54	12/17/2009	09:57:25	0.001
55	12/17/2009	09:58:25	0.001
56	12/17/2009	09:59:25	0.000
57	12/17/2009	10:00:25	0.001
58	12/17/2009	10:01:25	0.001
59	12/17/2009	10:02:25	0.001
60	12/17/2009	10:03:25	0.001
61	12/17/2009	10:04:25	0.001
62	12/17/2009	10:05:25	0.001
63	12/17/2009	10:06:25	0.001
64	12/17/2009	10:07:25	0.002
65	12/17/2009	10:08:25	0.001
66	12/17/2009	10:09:25	0.000
67	12/17/2009	10:10:25	0.001
68	12/17/2009	10:11:25	0.000
69	12/17/2009	10:12:25	0.001
70	12/17/2009	10:13:25	0.002
71	12/17/2009	10:14:25	0.001
72	12/17/2009	10:15:25	0.003
73	12/17/2009	10:16:25	0.001
74	12/17/2009	10:17:25	0.001
75	12/17/2009	10:18:25	0.000
76	12/17/2009	10:19:25	0.000
77	12/17/2009	10:20:25	0.000
78	12/17/2009	10:21:25	0.000
79	12/17/2009	10:22:25	0.000
80	12/17/2009	10:23:25	0.001
81	12/17/2009	10:24:25	0.000
82	12/17/2009	10:25:25	0.003
83	12/17/2009	10:26:25	0.000
84	12/17/2009	10:27:25	0.001
85	12/17/2009	10:28:25	0.000
86	12/17/2009	10:29:25	0.000
87	12/17/2009	10:30:25	0.000
88	12/17/2009	10:31:25	0.000
89	12/17/2009	10:32:25	0.000
90	12/17/2009	10:33:25	0.000
91	12/17/2009	10:34:25	0.000
92	12/17/2009	10:35:25	0.006
93	12/17/2009	10:36:25	0.002
94	12/17/2009	10:37:25	0.000
95	12/17/2009	10:38:25	0.000
96	12/17/2009	10:39:25	0.000
97	12/17/2009	10:40:25	0.001
98	12/17/2009	10:41:25	0.000

Test Data			
Sample	Date	Time	Aerosol mg/m^3
99	12/17/2009	10:42:25	0.001
100	12/17/2009	10:43:25	0.001
101	12/17/2009	10:44:25	0.000
102	12/17/2009	10:45:25	0.000
103	12/17/2009	10:46:25	0.000
104	12/17/2009	10:47:25	0.000
105	12/17/2009	10:48:25	0.001
106	12/17/2009	10:49:25	0.001
107	12/17/2009	10:50:25	0.001
108	12/17/2009	10:51:25	0.002
109	12/17/2009	10:52:25	0.001
110	12/17/2009	10:53:25	0.001
111	12/17/2009	10:54:25	0.001
112	12/17/2009	10:55:25	0.000
113	12/17/2009	10:56:25	0.001
114	12/17/2009	10:57:25	0.001
115	12/17/2009	10:58:25	0.002
116	12/17/2009	10:59:25	0.001
117	12/17/2009	11:00:25	0.001
118	12/17/2009	11:01:25	0.001
119	12/17/2009	11:02:25	0.002
120	12/17/2009	11:03:25	0.001
121	12/17/2009	11:04:25	0.002
122	12/17/2009	11:05:25	0.006
123	12/17/2009	11:06:25	0.001
124	12/17/2009	11:07:25	0.001
125	12/17/2009	11:08:25	0.000
126	12/17/2009	11:09:25	0.003
127	12/17/2009	11:10:25	0.001
128	12/17/2009	11:11:25	0.001
129	12/17/2009	11:12:25	0.001
130	12/17/2009	11:13:25	0.001
131	12/17/2009	11:14:25	0.000
132	12/17/2009	11:15:25	0.000
133	12/17/2009	11:16:25	0.001
134	12/17/2009	11:17:25	0.001
135	12/17/2009	11:18:25	0.001
136	12/17/2009	11:19:25	0.001
137	12/17/2009	11:20:25	0.000
138	12/17/2009	11:21:25	0.000
139	12/17/2009	11:22:25	0.001
140	12/17/2009	11:23:25	0.001
141	12/17/2009	11:24:25	0.001
142	12/17/2009	11:25:25	0.001
143	12/17/2009	11:26:25	0.000
144	12/17/2009	11:27:25	0.000
145	12/17/2009	11:28:25	0.000
146	12/17/2009	11:29:25	0.000
147	12/17/2009	11:30:25	0.001
148	12/17/2009	11:31:25	0.002
149	12/17/2009	11:32:25	0.002
150	12/17/2009	11:33:25	0.001
151	12/17/2009	11:34:25	0.001
152	12/17/2009	11:35:25	0.000
153	12/17/2009	11:36:25	0.000

Test Data			
Sample	Date	Time	Aerosol mg/m^3
154	12/17/2009	11:37:25	0.000
155	12/17/2009	11:38:25	0.000
156	12/17/2009	11:39:25	0.001
157	12/17/2009	11:40:25	0.000
158	12/17/2009	11:41:25	0.000
159	12/17/2009	11:42:25	0.002
160	12/17/2009	11:43:25	0.001
161	12/17/2009	11:44:25	0.001
162	12/17/2009	11:45:25	0.000
163	12/17/2009	11:46:25	0.000
164	12/17/2009	11:47:25	0.000
165	12/17/2009	11:48:25	0.000
166	12/17/2009	11:49:25	0.001
167	12/17/2009	11:50:25	0.001
168	12/17/2009	11:51:25	0.000
169	12/17/2009	11:52:25	0.001
170	12/17/2009	11:53:25	0.001
171	12/17/2009	11:54:25	0.001
172	12/17/2009	11:55:25	0.000
173	12/17/2009	11:56:25	0.000
174	12/17/2009	11:57:25	0.001
175	12/17/2009	11:58:25	0.000
176	12/17/2009	11:59:25	0.000
177	12/17/2009	12:00:25	0.000
178	12/17/2009	12:01:25	0.000
179	12/17/2009	12:02:25	0.000
180	12/17/2009	12:03:25	0.000
181	12/17/2009	12:04:25	0.001
182	12/17/2009	12:05:25	0.000
183	12/17/2009	12:06:25	0.001
184	12/17/2009	12:07:25	0.001
185	12/17/2009	12:08:25	0.001
186	12/17/2009	12:09:25	0.002
187	12/17/2009	12:10:25	0.001
188	12/17/2009	12:11:25	0.007
189	12/17/2009	12:12:25	0.002
190	12/17/2009	12:13:25	0.002
191	12/17/2009	12:14:25	0.000
192	12/17/2009	12:15:25	0.000
193	12/17/2009	12:16:25	0.000
194	12/17/2009	12:17:25	0.001
195	12/17/2009	12:18:25	0.001
196	12/17/2009	12:19:25	0.000
197	12/17/2009	12:20:25	0.001
198	12/17/2009	12:21:25	0.000
199	12/17/2009	12:22:25	0.000
200	12/17/2009	12:23:25	0.000
201	12/17/2009	12:24:25	0.001
202	12/17/2009	12:25:25	0.011
203	12/17/2009	12:26:25	0.007
204	12/17/2009	12:27:25	0.001
205	12/17/2009	12:28:25	0.000
206	12/17/2009	12:29:25	0.000
207	12/17/2009	12:30:25	0.000
208	12/17/2009	12:31:25	0.001

Test Data			
Sample	Date	Time	Aerosol mg/m^3
209	12/17/2009	12:32:25	0.001
210	12/17/2009	12:33:25	0.001
211	12/17/2009	12:34:25	0.001
212	12/17/2009	12:35:25	0.001
213	12/17/2009	12:36:25	0.001
214	12/17/2009	12:37:25	0.000
215	12/17/2009	12:38:25	0.000
216	12/17/2009	12:39:25	0.001
217	12/17/2009	12:40:25	0.001
218	12/17/2009	12:41:25	0.002
219	12/17/2009	12:42:25	0.003
220	12/17/2009	12:43:25	0.002
221	12/17/2009	12:44:25	0.002
222	12/17/2009	12:45:25	0.002
223	12/17/2009	12:46:25	0.001
224	12/17/2009	12:47:25	0.001
225	12/17/2009	12:48:25	0.001
226	12/17/2009	12:49:25	0.000
227	12/17/2009	12:50:25	0.001
228	12/17/2009	12:51:25	0.001
229	12/17/2009	12:52:25	0.000
230	12/17/2009	12:53:25	0.000
231	12/17/2009	12:54:25	0.004
232	12/17/2009	12:55:25	0.001
233	12/17/2009	12:56:25	0.002
234	12/17/2009	12:57:25	0.001
235	12/17/2009	12:58:25	0.001
236	12/17/2009	12:59:25	0.001
237	12/17/2009	13:00:25	0.000
238	12/17/2009	13:01:25	0.000
239	12/17/2009	13:02:25	0.001
240	12/17/2009	13:03:25	0.000
241	12/17/2009	13:04:25	0.000
242	12/17/2009	13:05:25	0.001
243	12/17/2009	13:06:25	0.004
244	12/17/2009	13:07:25	0.000
245	12/17/2009	13:08:25	0.000
246	12/17/2009	13:09:25	0.001
247	12/17/2009	13:10:25	0.001
248	12/17/2009	13:11:25	0.000
249	12/17/2009	13:12:25	0.001
250	12/17/2009	13:13:25	0.000
251	12/17/2009	13:14:25	0.000
252	12/17/2009	13:15:25	0.000
253	12/17/2009	13:16:25	0.000
254	12/17/2009	13:17:25	0.000
255	12/17/2009	13:18:25	0.000
256	12/17/2009	13:19:25	0.015
257	12/17/2009	13:20:25	0.000
258	12/17/2009	13:21:25	0.000
259	12/17/2009	13:22:25	0.000
260	12/17/2009	13:23:25	0.000
261	12/17/2009	13:24:25	0.001
262	12/17/2009	13:25:25	0.000
263	12/17/2009	13:26:25	0.000

Test Data			
Sample	Date	Time	Aerosol mg/m^3
264	12/17/2009	13:27:25	0.000
265	12/17/2009	13:28:25	0.000
266	12/17/2009	13:29:25	0.001
267	12/17/2009	13:30:25	0.000
268	12/17/2009	13:31:25	0.000
269	12/17/2009	13:32:25	0.000
270	12/17/2009	13:33:25	0.004
271	12/17/2009	13:34:25	0.000
272	12/17/2009	13:35:25	0.000
273	12/17/2009	13:36:25	0.000
274	12/17/2009	13:37:25	0.000
275	12/17/2009	13:38:25	0.000
276	12/17/2009	13:39:25	0.000
277	12/17/2009	13:40:25	0.000
278	12/17/2009	13:41:25	0.000
279	12/17/2009	13:42:25	0.000
280	12/17/2009	13:43:25	0.000
281	12/17/2009	13:44:25	0.000
282	12/17/2009	13:45:25	0.000
283	12/17/2009	13:46:25	0.001
284	12/17/2009	13:47:25	0.000
285	12/17/2009	13:48:25	0.001
286	12/17/2009	13:49:25	0.001
287	12/17/2009	13:50:25	0.000
288	12/17/2009	13:51:25	0.001
289	12/17/2009	13:52:25	0.001
290	12/17/2009	13:53:25	0.001
291	12/17/2009	13:54:25	0.000
292	12/17/2009	13:55:25	0.000
293	12/17/2009	13:56:25	0.000
294	12/17/2009	13:57:25	0.000
295	12/17/2009	13:58:25	0.051
296	12/17/2009	13:59:25	0.005
297	12/17/2009	14:00:25	0.001
298	12/17/2009	14:01:25	0.000
299	12/17/2009	14:02:25	0.000
300	12/17/2009	14:03:25	0.000
301	12/17/2009	14:04:25	0.000
302	12/17/2009	14:05:25	0.000
303	12/17/2009	14:06:25	0.000
304	12/17/2009	14:07:25	0.000
305	12/17/2009	14:08:25	0.001
306	12/17/2009	14:09:25	0.000
307	12/17/2009	14:10:25	0.000
308	12/17/2009	14:11:25	0.000
309	12/17/2009	14:12:25	0.001
310	12/17/2009	14:13:25	0.002
311	12/17/2009	14:14:25	0.001
312	12/17/2009	14:15:25	0.001
313	12/17/2009	14:16:25	0.000
314	12/17/2009	14:17:25	0.000
315	12/17/2009	14:18:25	0.000
316	12/17/2009	14:19:25	0.000
317	12/17/2009	14:20:25	0.000
318	12/17/2009	14:21:25	0.000

Test Data			
Sample	Date	Time	Aerosol mg/m^3
319	12/17/2009	14:22:25	0.000
320	12/17/2009	14:23:25	0.002
321	12/17/2009	14:24:25	0.000
322	12/17/2009	14:25:25	0.000
323	12/17/2009	14:26:25	0.003
324	12/17/2009	14:27:25	0.000
325	12/17/2009	14:28:25	0.000
326	12/17/2009	14:29:25	0.000
327	12/17/2009	14:30:25	0.000
328	12/17/2009	14:31:25	0.000
329	12/17/2009	14:32:25	0.000
330	12/17/2009	14:33:25	0.007
331	12/17/2009	14:34:25	0.001
332	12/17/2009	14:35:25	0.003
333	12/17/2009	14:36:25	0.002
334	12/17/2009	14:37:25	0.002
335	12/17/2009	14:38:25	0.001
336	12/17/2009	14:39:25	0.011
337	12/17/2009	14:40:25	0.000
338	12/17/2009	14:41:25	0.000
339	12/17/2009	14:42:25	0.000
340	12/17/2009	14:43:25	0.000
341	12/17/2009	14:44:25	0.000
342	12/17/2009	14:45:25	0.000
343	12/17/2009	14:46:25	0.000
344	12/17/2009	14:47:25	0.001
345	12/17/2009	14:48:25	0.001
346	12/17/2009	14:49:25	0.005
347	12/17/2009	14:50:25	0.005
348	12/17/2009	14:51:25	0.003
349	12/17/2009	14:52:25	0.000
350	12/17/2009	14:53:25	0.000
351	12/17/2009	14:54:25	0.001
352	12/17/2009	14:55:25	0.000
353	12/17/2009	14:56:25	0.000
354	12/17/2009	14:57:25	0.000
355	12/17/2009	14:58:25	0.000
356	12/17/2009	14:59:25	0.000
357	12/17/2009	15:00:25	0.000
358	12/17/2009	15:01:25	0.000
359	12/17/2009	15:02:25	0.000
360	12/17/2009	15:03:25	0.000
361	12/17/2009	15:04:25	0.000
362	12/17/2009	15:05:25	0.000
363	12/17/2009	15:06:25	0.001
364	12/17/2009	15:07:25	0.001
365	12/17/2009	15:08:25	0.002
366	12/17/2009	15:09:25	0.000
367	12/17/2009	15:10:25	0.001
368	12/17/2009	15:11:25	0.000
369	12/17/2009	15:12:25	0.000
370	12/17/2009	15:13:25	0.000
371	12/17/2009	15:14:25	0.000
372	12/17/2009	15:15:25	0.000
373	12/17/2009	15:16:25	0.001

Test Data			
Sample	Date	Time	Aerosol mg/m^3
374	12/17/2009	15:17:25	0.000
375	12/17/2009	15:18:25	0.000
376	12/17/2009	15:19:25	0.000
377	12/17/2009	15:20:25	0.000
378	12/17/2009	15:21:25	0.000
379	12/17/2009	15:22:25	0.000
380	12/17/2009	15:23:25	0.001
381	12/17/2009	15:24:25	0.000
382	12/17/2009	15:25:25	0.000
383	12/17/2009	15:26:25	0.000
384	12/17/2009	15:27:25	0.000
385	12/17/2009	15:28:25	0.000
386	12/17/2009	15:29:25	0.000
387	12/17/2009	15:30:25	0.001
388	12/17/2009	15:31:25	0.000
389	12/17/2009	15:32:25	0.000
390	12/17/2009	15:33:25	0.000
391	12/17/2009	15:34:25	0.000
392	12/17/2009	15:35:25	0.000
393	12/17/2009	15:36:25	0.000
394	12/17/2009	15:37:25	0.000
395	12/17/2009	15:38:25	0.001
396	12/17/2009	15:39:25	0.001
397	12/17/2009	15:40:25	0.001
398	12/17/2009	15:41:25	0.022

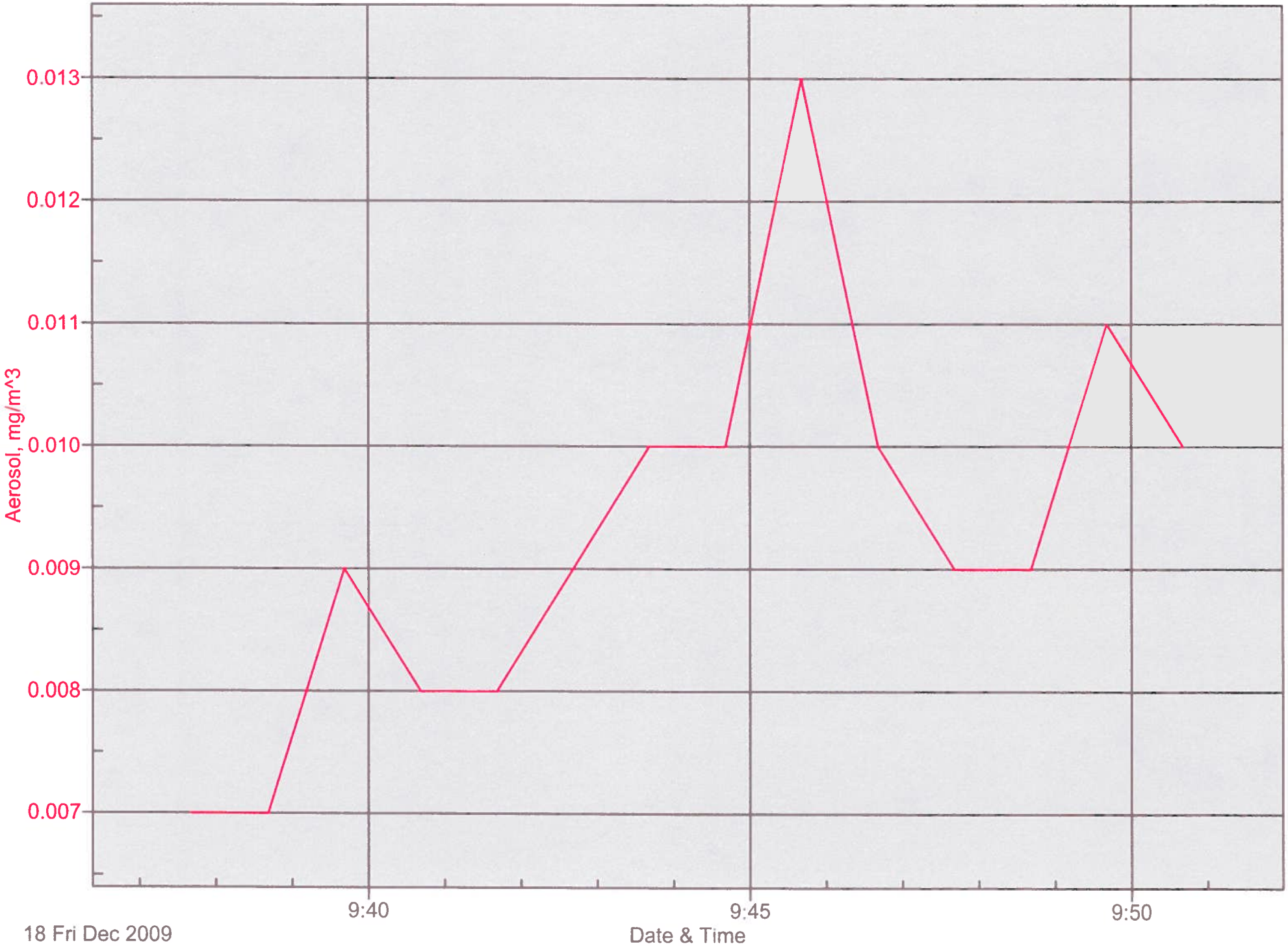
Test 003

Instrument		Data Properties	
Model	Dust Trak	Start Date	12/18/2009
Meter S/N	85202030	Start Time	09:36:41
		Stop Date	12/18/2009
		Stop Time	09:50:41
		Total Time	0:00:14:00
		Logging Interval	60 seconds

Statistics	
	Aerosol
Ave	0.009 mg/m^3
Max	0.013 mg/m^3
Max Date	12/18/2009
Max Time	09:45:41
Min	0.007 mg/m^3
Min Date	12/18/2009
Min Time	09:37:41
TWA (8 hr)	N/A
TWA Start Date	12/18/2009
TWA Start Time	09:36:41
TWA End Time	09:50:41

Sewall's Island Site

PAOC1 Test Pits



Test 003

Instrument		Data Properties	
Model	Dust Trak	Start Date	12/18/2009
Meter S/N	85202030	Start Time	09:36:41
		Stop Date	12/18/2009
		Stop Time	09:50:41
		Total Time	0:00:14:00
		Logging Interval	60 seconds

Test Data			
Sample	Date	Time	Aerosol mg/m^3
1	12/18/2009	09:37:41	0.007
2	12/18/2009	09:38:41	0.007
3	12/18/2009	09:39:41	0.009
4	12/18/2009	09:40:41	0.008
5	12/18/2009	09:41:41	0.008
6	12/18/2009	09:42:41	0.009
7	12/18/2009	09:43:41	0.010
8	12/18/2009	09:44:41	0.010
9	12/18/2009	09:45:41	0.013
10	12/18/2009	09:46:41	0.010
11	12/18/2009	09:47:41	0.009
12	12/18/2009	09:48:41	0.009
13	12/18/2009	09:49:41	0.011
14	12/18/2009	09:50:41	0.010

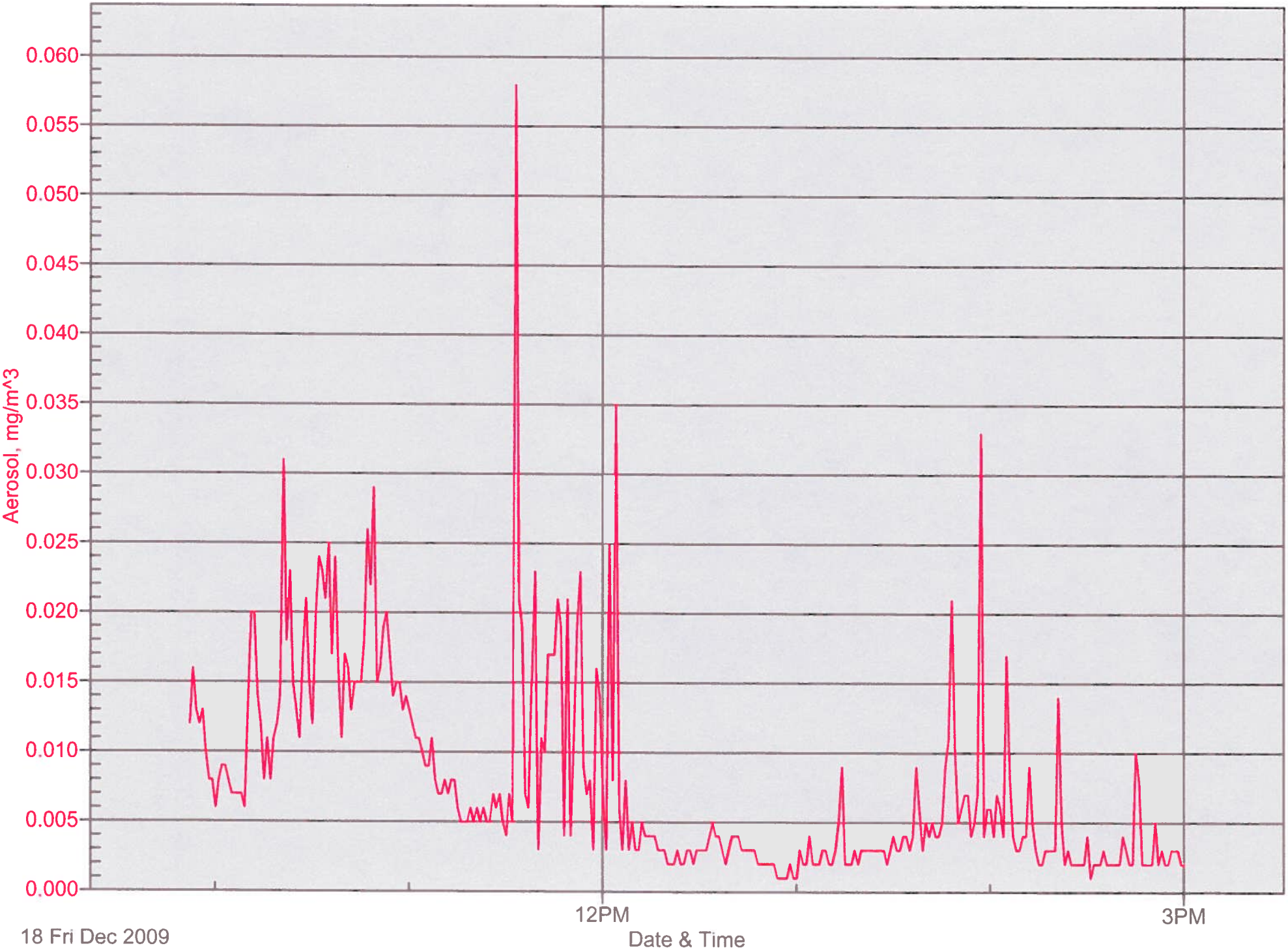
Test 004

Instrument		Data Properties	
Model	Dust Trak	Start Date	12/18/2009
Meter S/N	85202030	Start Time	09:51:08
		Stop Date	12/18/2009
		Stop Time	15:00:08
		Total Time	0:05:09:00
		Logging Interval	60 seconds

Statistics	
	Aerosol
Ave	0.008 mg/m^3
Max	0.058 mg/m^3
Max Date	12/18/2009
Max Time	11:33:08
Min	0.001 mg/m^3
Min Date	12/18/2009
Min Time	12:54:08
TWA (8 hr)	0.005
TWA Start Date	12/18/2009
TWA Start Time	09:51:08
TWA End Time	15:00:08

Sewall's Island Site - IRM

PAOC1 Test Pits



Test 004

Instrument		Data Properties	
Model	Dust Trak	Start Date	12/18/2009
Meter S/N	85202030	Start Time	09:51:08
		Stop Date	12/18/2009
		Stop Time	15:00:08
		Total Time	0:05:09:00
		Logging Interval	60 seconds

Test Data			
Sample	Date	Time	Aerosol mg/m^3
1	12/18/2009	09:52:08	0.012
2	12/18/2009	09:53:08	0.016
3	12/18/2009	09:54:08	0.013
4	12/18/2009	09:55:08	0.012
5	12/18/2009	09:56:08	0.013
6	12/18/2009	09:57:08	0.010
7	12/18/2009	09:58:08	0.008
8	12/18/2009	09:59:08	0.008
9	12/18/2009	10:00:08	0.006
10	12/18/2009	10:01:08	0.008
11	12/18/2009	10:02:08	0.009
12	12/18/2009	10:03:08	0.009
13	12/18/2009	10:04:08	0.008
14	12/18/2009	10:05:08	0.007
15	12/18/2009	10:06:08	0.007
16	12/18/2009	10:07:08	0.007
17	12/18/2009	10:08:08	0.007
18	12/18/2009	10:09:08	0.006
19	12/18/2009	10:10:08	0.013
20	12/18/2009	10:11:08	0.020
21	12/18/2009	10:12:08	0.020
22	12/18/2009	10:13:08	0.014
23	12/18/2009	10:14:08	0.012
24	12/18/2009	10:15:08	0.008
25	12/18/2009	10:16:08	0.011
26	12/18/2009	10:17:08	0.008
27	12/18/2009	10:18:08	0.011
28	12/18/2009	10:19:08	0.012
29	12/18/2009	10:20:08	0.014
30	12/18/2009	10:21:08	0.031
31	12/18/2009	10:22:08	0.018
32	12/18/2009	10:23:08	0.023
33	12/18/2009	10:24:08	0.015
34	12/18/2009	10:25:08	0.013
35	12/18/2009	10:26:08	0.011
36	12/18/2009	10:27:08	0.017
37	12/18/2009	10:28:08	0.021
38	12/18/2009	10:29:08	0.015
39	12/18/2009	10:30:08	0.012
40	12/18/2009	10:31:08	0.020
41	12/18/2009	10:32:08	0.024
42	12/18/2009	10:33:08	0.023
43	12/18/2009	10:34:08	0.021

Test Data			
Sample	Date	Time	Aerosol mg/m^3
44	12/18/2009	10:35:08	0.025
45	12/18/2009	10:36:08	0.017
46	12/18/2009	10:37:08	0.024
47	12/18/2009	10:38:08	0.016
48	12/18/2009	10:39:08	0.011
49	12/18/2009	10:40:08	0.017
50	12/18/2009	10:41:08	0.016
51	12/18/2009	10:42:08	0.013
52	12/18/2009	10:43:08	0.015
53	12/18/2009	10:44:08	0.015
54	12/18/2009	10:45:08	0.015
55	12/18/2009	10:46:08	0.018
56	12/18/2009	10:47:08	0.026
57	12/18/2009	10:48:08	0.022
58	12/18/2009	10:49:08	0.029
59	12/18/2009	10:50:08	0.015
60	12/18/2009	10:51:08	0.016
61	12/18/2009	10:52:08	0.019
62	12/18/2009	10:53:08	0.020
63	12/18/2009	10:54:08	0.017
64	12/18/2009	10:55:08	0.014
65	12/18/2009	10:56:08	0.015
66	12/18/2009	10:57:08	0.015
67	12/18/2009	10:58:08	0.013
68	12/18/2009	10:59:08	0.014
69	12/18/2009	11:00:08	0.013
70	12/18/2009	11:01:08	0.012
71	12/18/2009	11:02:08	0.011
72	12/18/2009	11:03:08	0.011
73	12/18/2009	11:04:08	0.010
74	12/18/2009	11:05:08	0.009
75	12/18/2009	11:06:08	0.009
76	12/18/2009	11:07:08	0.011
77	12/18/2009	11:08:08	0.008
78	12/18/2009	11:09:08	0.007
79	12/18/2009	11:10:08	0.007
80	12/18/2009	11:11:08	0.008
81	12/18/2009	11:12:08	0.007
82	12/18/2009	11:13:08	0.008
83	12/18/2009	11:14:08	0.008
84	12/18/2009	11:15:08	0.006
85	12/18/2009	11:16:08	0.005
86	12/18/2009	11:17:08	0.005
87	12/18/2009	11:18:08	0.005
88	12/18/2009	11:19:08	0.006
89	12/18/2009	11:20:08	0.005
90	12/18/2009	11:21:08	0.006
91	12/18/2009	11:22:08	0.005
92	12/18/2009	11:23:08	0.006
93	12/18/2009	11:24:08	0.005
94	12/18/2009	11:25:08	0.005
95	12/18/2009	11:26:08	0.007
96	12/18/2009	11:27:08	0.006
97	12/18/2009	11:28:08	0.007
98	12/18/2009	11:29:08	0.005

Test Data			
Sample	Date	Time	Aerosol mg/m^3
99	12/18/2009	11:30:08	0.004
100	12/18/2009	11:31:08	0.007
101	12/18/2009	11:32:08	0.005
102	12/18/2009	11:33:08	0.058
103	12/18/2009	11:34:08	0.021
104	12/18/2009	11:35:08	0.019
105	12/18/2009	11:36:08	0.007
106	12/18/2009	11:37:08	0.006
107	12/18/2009	11:38:08	0.015
108	12/18/2009	11:39:08	0.023
109	12/18/2009	11:40:08	0.003
110	12/18/2009	11:41:08	0.011
111	12/18/2009	11:42:08	0.010
112	12/18/2009	11:43:08	0.017
113	12/18/2009	11:44:08	0.017
114	12/18/2009	11:45:08	0.017
115	12/18/2009	11:46:08	0.021
116	12/18/2009	11:47:08	0.019
117	12/18/2009	11:48:08	0.004
118	12/18/2009	11:49:08	0.021
119	12/18/2009	11:50:08	0.004
120	12/18/2009	11:51:08	0.011
121	12/18/2009	11:52:08	0.019
122	12/18/2009	11:53:08	0.023
123	12/18/2009	11:54:08	0.009
124	12/18/2009	11:55:08	0.007
125	12/18/2009	11:56:08	0.008
126	12/18/2009	11:57:08	0.003
127	12/18/2009	11:58:08	0.016
128	12/18/2009	11:59:08	0.014
129	12/18/2009	12:00:08	0.007
130	12/18/2009	12:01:08	0.003
131	12/18/2009	12:02:08	0.025
132	12/18/2009	12:03:08	0.008
133	12/18/2009	12:04:08	0.035
134	12/18/2009	12:05:08	0.006
135	12/18/2009	12:06:08	0.003
136	12/18/2009	12:07:08	0.008
137	12/18/2009	12:08:08	0.003
138	12/18/2009	12:09:08	0.005
139	12/18/2009	12:10:08	0.003
140	12/18/2009	12:11:08	0.003
141	12/18/2009	12:12:08	0.005
142	12/18/2009	12:13:08	0.004
143	12/18/2009	12:14:08	0.004
144	12/18/2009	12:15:08	0.004
145	12/18/2009	12:16:08	0.004
146	12/18/2009	12:17:08	0.003
147	12/18/2009	12:18:08	0.003
148	12/18/2009	12:19:08	0.003
149	12/18/2009	12:20:08	0.002
150	12/18/2009	12:21:08	0.002
151	12/18/2009	12:22:08	0.002
152	12/18/2009	12:23:08	0.003
153	12/18/2009	12:24:08	0.002

Test Data			
Sample	Date	Time	Aerosol mg/m^3
154	12/18/2009	12:25:08	0.002
155	12/18/2009	12:26:08	0.003
156	12/18/2009	12:27:08	0.003
157	12/18/2009	12:28:08	0.002
158	12/18/2009	12:29:08	0.003
159	12/18/2009	12:30:08	0.003
160	12/18/2009	12:31:08	0.003
161	12/18/2009	12:32:08	0.003
162	12/18/2009	12:33:08	0.004
163	12/18/2009	12:34:08	0.005
164	12/18/2009	12:35:08	0.004
165	12/18/2009	12:36:08	0.004
166	12/18/2009	12:37:08	0.003
167	12/18/2009	12:38:08	0.002
168	12/18/2009	12:39:08	0.003
169	12/18/2009	12:40:08	0.004
170	12/18/2009	12:41:08	0.004
171	12/18/2009	12:42:08	0.004
172	12/18/2009	12:43:08	0.003
173	12/18/2009	12:44:08	0.003
174	12/18/2009	12:45:08	0.003
175	12/18/2009	12:46:08	0.003
176	12/18/2009	12:47:08	0.003
177	12/18/2009	12:48:08	0.002
178	12/18/2009	12:49:08	0.002
179	12/18/2009	12:50:08	0.002
180	12/18/2009	12:51:08	0.002
181	12/18/2009	12:52:08	0.002
182	12/18/2009	12:53:08	0.002
183	12/18/2009	12:54:08	0.001
184	12/18/2009	12:55:08	0.001
185	12/18/2009	12:56:08	0.001
186	12/18/2009	12:57:08	0.001
187	12/18/2009	12:58:08	0.002
188	12/18/2009	12:59:08	0.001
189	12/18/2009	13:00:08	0.001
190	12/18/2009	13:01:08	0.003
191	12/18/2009	13:02:08	0.002
192	12/18/2009	13:03:08	0.002
193	12/18/2009	13:04:08	0.004
194	12/18/2009	13:05:08	0.002
195	12/18/2009	13:06:08	0.002
196	12/18/2009	13:07:08	0.002
197	12/18/2009	13:08:08	0.003
198	12/18/2009	13:09:08	0.003
199	12/18/2009	13:10:08	0.002
200	12/18/2009	13:11:08	0.002
201	12/18/2009	13:12:08	0.003
202	12/18/2009	13:13:08	0.005
203	12/18/2009	13:14:08	0.009
204	12/18/2009	13:15:08	0.002
205	12/18/2009	13:16:08	0.002
206	12/18/2009	13:17:08	0.002
207	12/18/2009	13:18:08	0.003
208	12/18/2009	13:19:08	0.002

Test Data			
Sample	Date	Time	Aerosol mg/m^3
209	12/18/2009	13:20:08	0.003
210	12/18/2009	13:21:08	0.003
211	12/18/2009	13:22:08	0.003
212	12/18/2009	13:23:08	0.003
213	12/18/2009	13:24:08	0.003
214	12/18/2009	13:25:08	0.003
215	12/18/2009	13:26:08	0.003
216	12/18/2009	13:27:08	0.003
217	12/18/2009	13:28:08	0.002
218	12/18/2009	13:29:08	0.003
219	12/18/2009	13:30:08	0.004
220	12/18/2009	13:31:08	0.003
221	12/18/2009	13:32:08	0.003
222	12/18/2009	13:33:08	0.004
223	12/18/2009	13:34:08	0.004
224	12/18/2009	13:35:08	0.003
225	12/18/2009	13:36:08	0.004
226	12/18/2009	13:37:08	0.009
227	12/18/2009	13:38:08	0.006
228	12/18/2009	13:39:08	0.003
229	12/18/2009	13:40:08	0.005
230	12/18/2009	13:41:08	0.004
231	12/18/2009	13:42:08	0.005
232	12/18/2009	13:43:08	0.004
233	12/18/2009	13:44:08	0.004
234	12/18/2009	13:45:08	0.005
235	12/18/2009	13:46:08	0.009
236	12/18/2009	13:47:08	0.011
237	12/18/2009	13:48:08	0.021
238	12/18/2009	13:49:08	0.010
239	12/18/2009	13:50:08	0.005
240	12/18/2009	13:51:08	0.006
241	12/18/2009	13:52:08	0.007
242	12/18/2009	13:53:08	0.007
243	12/18/2009	13:54:08	0.004
244	12/18/2009	13:55:08	0.005
245	12/18/2009	13:56:08	0.007
246	12/18/2009	13:57:08	0.033
247	12/18/2009	13:58:08	0.004
248	12/18/2009	13:59:08	0.006
249	12/18/2009	14:00:08	0.006
250	12/18/2009	14:01:08	0.004
251	12/18/2009	14:02:08	0.007
252	12/18/2009	14:03:08	0.006
253	12/18/2009	14:04:08	0.004
254	12/18/2009	14:05:08	0.017
255	12/18/2009	14:06:08	0.008
256	12/18/2009	14:07:08	0.004
257	12/18/2009	14:08:08	0.003
258	12/18/2009	14:09:08	0.003
259	12/18/2009	14:10:08	0.004
260	12/18/2009	14:11:08	0.004
261	12/18/2009	14:12:08	0.009
262	12/18/2009	14:13:08	0.005
263	12/18/2009	14:14:08	0.003

Test Data			
Sample	Date	Time	Aerosol mg/m^3
264	12/18/2009	14:15:08	0.002
265	12/18/2009	14:16:08	0.002
266	12/18/2009	14:17:08	0.003
267	12/18/2009	14:18:08	0.003
268	12/18/2009	14:19:08	0.003
269	12/18/2009	14:20:08	0.003
270	12/18/2009	14:21:08	0.014
271	12/18/2009	14:22:08	0.005
272	12/18/2009	14:23:08	0.002
273	12/18/2009	14:24:08	0.003
274	12/18/2009	14:25:08	0.002
275	12/18/2009	14:26:08	0.002
276	12/18/2009	14:27:08	0.002
277	12/18/2009	14:28:08	0.002
278	12/18/2009	14:29:08	0.002
279	12/18/2009	14:30:08	0.004
280	12/18/2009	14:31:08	0.001
281	12/18/2009	14:32:08	0.002
282	12/18/2009	14:33:08	0.002
283	12/18/2009	14:34:08	0.002
284	12/18/2009	14:35:08	0.003
285	12/18/2009	14:36:08	0.002
286	12/18/2009	14:37:08	0.002
287	12/18/2009	14:38:08	0.002
288	12/18/2009	14:39:08	0.002
289	12/18/2009	14:40:08	0.002
290	12/18/2009	14:41:08	0.004
291	12/18/2009	14:42:08	0.003
292	12/18/2009	14:43:08	0.002
293	12/18/2009	14:44:08	0.002
294	12/18/2009	14:45:08	0.010
295	12/18/2009	14:46:08	0.008
296	12/18/2009	14:47:08	0.002
297	12/18/2009	14:48:08	0.002
298	12/18/2009	14:49:08	0.002
299	12/18/2009	14:50:08	0.002
300	12/18/2009	14:51:08	0.005
301	12/18/2009	14:52:08	0.002
302	12/18/2009	14:53:08	0.003
303	12/18/2009	14:54:08	0.002
304	12/18/2009	14:55:08	0.002
305	12/18/2009	14:56:08	0.003
306	12/18/2009	14:57:08	0.003
307	12/18/2009	14:58:08	0.003
308	12/18/2009	14:59:08	0.002
309	12/18/2009	15:00:08	0.002

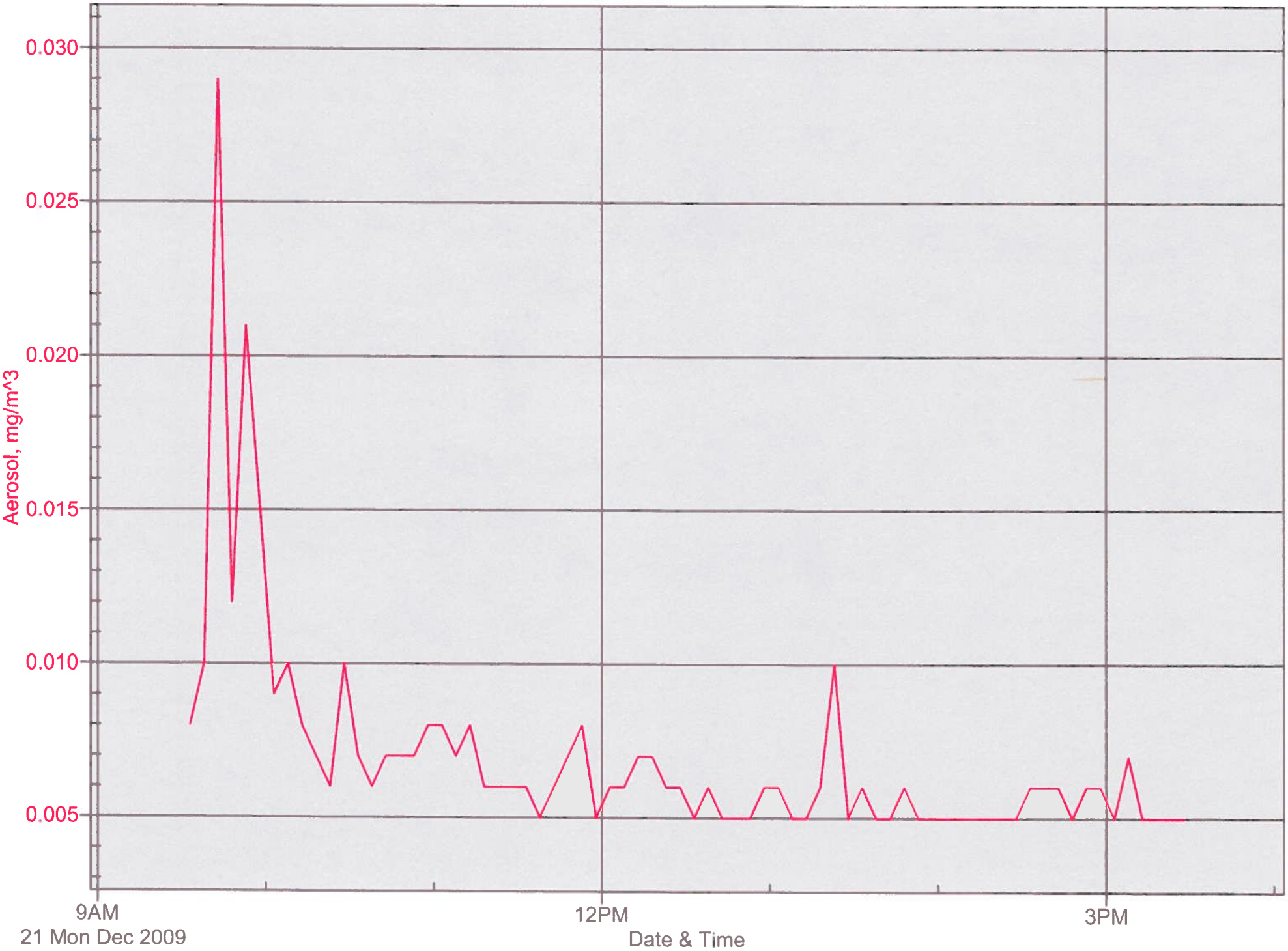
Test 003

Instrument		Data Properties	
Model	Dust Trak	Start Date	12/21/2009
Meter S/N	22704	Start Time	09:27:56
		Stop Date	12/21/2009
		Stop Time	15:27:56
		Total Time	0:06:00:00
		Logging Interval	300 seconds

Statistics	
	Aerosol
Ave	0.007 mg/m^3
Max	0.029 mg/m^3
Max Date	12/21/2009
Max Time	09:42:56
Min	0.005 mg/m^3
Min Date	12/21/2009
Min Time	11:37:56
TWA (8 hr)	0.005
TWA Start Date	12/21/2009
TWA Start Time	09:27:56
TWA End Time	15:27:56

Sewall's Island Site - IRM

PAOC1 Test Pits



Test 003

Instrument		Data Properties	
Model	Dust Trak	Start Date	12/21/2009
Meter S/N	22704	Start Time	09:27:56
		Stop Date	12/21/2009
		Stop Time	15:27:56
		Total Time	0:06:00:00
		Logging Interval	300 seconds

Test Data			
Sample	Date	Time	Aerosol mg/m^3
1	12/21/2009	09:32:56	0.008
2	12/21/2009	09:37:56	0.010
3	12/21/2009	09:42:56	0.029
4	12/21/2009	09:47:56	0.012
5	12/21/2009	09:52:56	0.021
6	12/21/2009	09:57:56	0.015
7	12/21/2009	10:02:56	0.009
8	12/21/2009	10:07:56	0.010
9	12/21/2009	10:12:56	0.008
10	12/21/2009	10:17:56	0.007
11	12/21/2009	10:22:56	0.006
12	12/21/2009	10:27:56	0.010
13	12/21/2009	10:32:56	0.007
14	12/21/2009	10:37:56	0.006
15	12/21/2009	10:42:56	0.007
16	12/21/2009	10:47:56	0.007
17	12/21/2009	10:52:56	0.007
18	12/21/2009	10:57:56	0.008
19	12/21/2009	11:02:56	0.008
20	12/21/2009	11:07:56	0.007
21	12/21/2009	11:12:56	0.008
22	12/21/2009	11:17:56	0.006
23	12/21/2009	11:22:56	0.006
24	12/21/2009	11:27:56	0.006
25	12/21/2009	11:32:56	0.006
26	12/21/2009	11:37:56	0.005
27	12/21/2009	11:42:56	0.006
28	12/21/2009	11:47:56	0.007
29	12/21/2009	11:52:56	0.008
30	12/21/2009	11:57:56	0.005
31	12/21/2009	12:02:56	0.006
32	12/21/2009	12:07:56	0.006
33	12/21/2009	12:12:56	0.007
34	12/21/2009	12:17:56	0.007
35	12/21/2009	12:22:56	0.006
36	12/21/2009	12:27:56	0.006
37	12/21/2009	12:32:56	0.005
38	12/21/2009	12:37:56	0.006
39	12/21/2009	12:42:56	0.005
40	12/21/2009	12:47:56	0.005
41	12/21/2009	12:52:56	0.005
42	12/21/2009	12:57:56	0.006
43	12/21/2009	13:02:56	0.006

Test Data			
Sample	Date	Time	Aerosol mg/m^3
44	12/21/2009	13:07:56	0.005
45	12/21/2009	13:12:56	0.005
46	12/21/2009	13:17:56	0.006
47	12/21/2009	13:22:56	0.010
48	12/21/2009	13:27:56	0.005
49	12/21/2009	13:32:56	0.006
50	12/21/2009	13:37:56	0.005
51	12/21/2009	13:42:56	0.005
52	12/21/2009	13:47:56	0.006
53	12/21/2009	13:52:56	0.005
54	12/21/2009	13:57:56	0.005
55	12/21/2009	14:02:56	0.005
56	12/21/2009	14:07:56	0.005
57	12/21/2009	14:12:56	0.005
58	12/21/2009	14:17:56	0.005
59	12/21/2009	14:22:56	0.005
60	12/21/2009	14:27:56	0.005
61	12/21/2009	14:32:56	0.006
62	12/21/2009	14:37:56	0.006
63	12/21/2009	14:42:56	0.006
64	12/21/2009	14:47:56	0.005
65	12/21/2009	14:52:56	0.006
66	12/21/2009	14:57:56	0.006
67	12/21/2009	15:02:56	0.005
68	12/21/2009	15:07:56	0.007
69	12/21/2009	15:12:56	0.005
70	12/21/2009	15:17:56	0.005
71	12/21/2009	15:22:56	0.005
72	12/21/2009	15:27:56	0.005

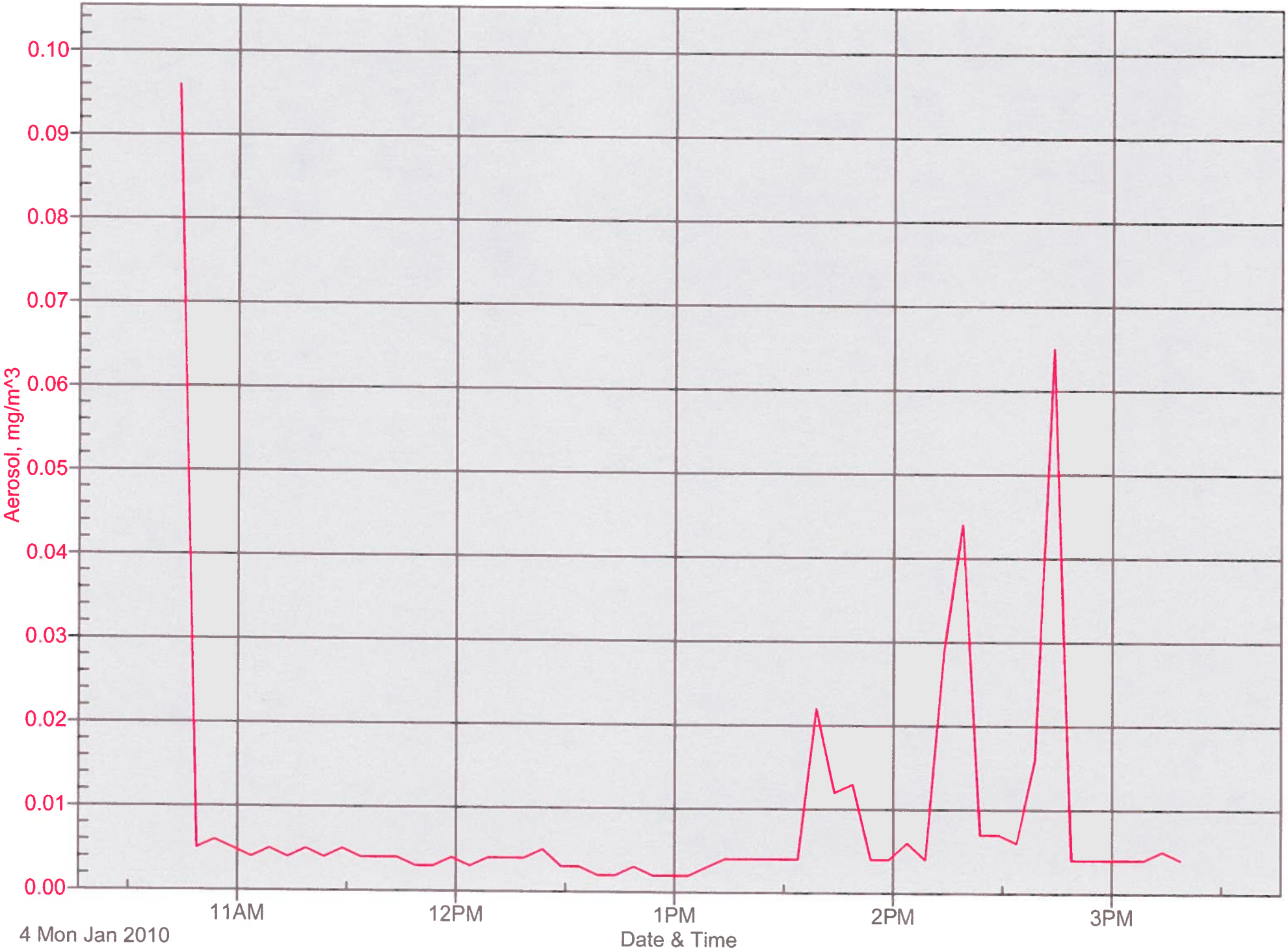
Test 004

Instrument		Data Properties	
Model	Dust Trak	Start Date	01/04/2010
Meter S/N	22704	Start Time	10:38:48
		Stop Date	01/04/2010
		Stop Time	15:18:48
		Total Time	0:04:40:00
		Logging Interval	300 seconds

Statistics	
	Aerosol
Ave	0.009 mg/m^3
Max	0.096 mg/m^3
Max Date	01/04/2010
Max Time	10:43:48
Min	0.002 mg/m^3
Min Date	01/04/2010
Min Time	12:38:48
TWA (8 hr)	0.005
TWA Start Date	01/04/2010
TWA Start Time	10:38:48
TWA End Time	15:18:48

Sewall's Island Site - IRM

PAOC1 Test Pits



Test 004

Instrument		Data Properties	
Model	Dust Trak	Start Date	01/04/2010
Meter S/N	22704	Start Time	10:38:48
		Stop Date	01/04/2010
		Stop Time	15:18:48
		Total Time	0:04:40:00
		Logging Interval	300 seconds

Test Data

Sample	Date	Time	Aerosol mg/m^3
1	01/04/2010	10:43:48	0.096
2	01/04/2010	10:48:48	0.005
3	01/04/2010	10:53:48	0.006
4	01/04/2010	10:58:48	0.005
5	01/04/2010	11:03:48	0.004
6	01/04/2010	11:08:48	0.005
7	01/04/2010	11:13:48	0.004
8	01/04/2010	11:18:48	0.005
9	01/04/2010	11:23:48	0.004
10	01/04/2010	11:28:48	0.005
11	01/04/2010	11:33:48	0.004
12	01/04/2010	11:38:48	0.004
13	01/04/2010	11:43:48	0.004
14	01/04/2010	11:48:48	0.003
15	01/04/2010	11:53:48	0.003
16	01/04/2010	11:58:48	0.004
17	01/04/2010	12:03:48	0.003
18	01/04/2010	12:08:48	0.004
19	01/04/2010	12:13:48	0.004
20	01/04/2010	12:18:48	0.004
21	01/04/2010	12:23:48	0.005
22	01/04/2010	12:28:48	0.003
23	01/04/2010	12:33:48	0.003
24	01/04/2010	12:38:48	0.002
25	01/04/2010	12:43:48	0.002
26	01/04/2010	12:48:48	0.003
27	01/04/2010	12:53:48	0.002
28	01/04/2010	12:58:48	0.002
29	01/04/2010	13:03:48	0.002
30	01/04/2010	13:08:48	0.003
31	01/04/2010	13:13:48	0.004
32	01/04/2010	13:18:48	0.004
33	01/04/2010	13:23:48	0.004
34	01/04/2010	13:28:48	0.004
35	01/04/2010	13:33:48	0.004
36	01/04/2010	13:38:48	0.022
37	01/04/2010	13:43:48	0.012
38	01/04/2010	13:48:48	0.013
39	01/04/2010	13:53:48	0.004
40	01/04/2010	13:58:48	0.004
41	01/04/2010	14:03:48	0.006
42	01/04/2010	14:08:48	0.004
43	01/04/2010	14:13:48	0.029

Test Data			
Sample	Date	Time	Aerosol mg/m^3
44	01/04/2010	14:18:48	0.044
45	01/04/2010	14:23:48	0.007
46	01/04/2010	14:28:48	0.007
47	01/04/2010	14:33:48	0.006
48	01/04/2010	14:38:48	0.016
49	01/04/2010	14:43:48	0.065
50	01/04/2010	14:48:48	0.004
51	01/04/2010	14:53:48	0.004
52	01/04/2010	14:58:48	0.004
53	01/04/2010	15:03:48	0.004
54	01/04/2010	15:08:48	0.004
55	01/04/2010	15:13:48	0.005
56	01/04/2010	15:18:48	0.004

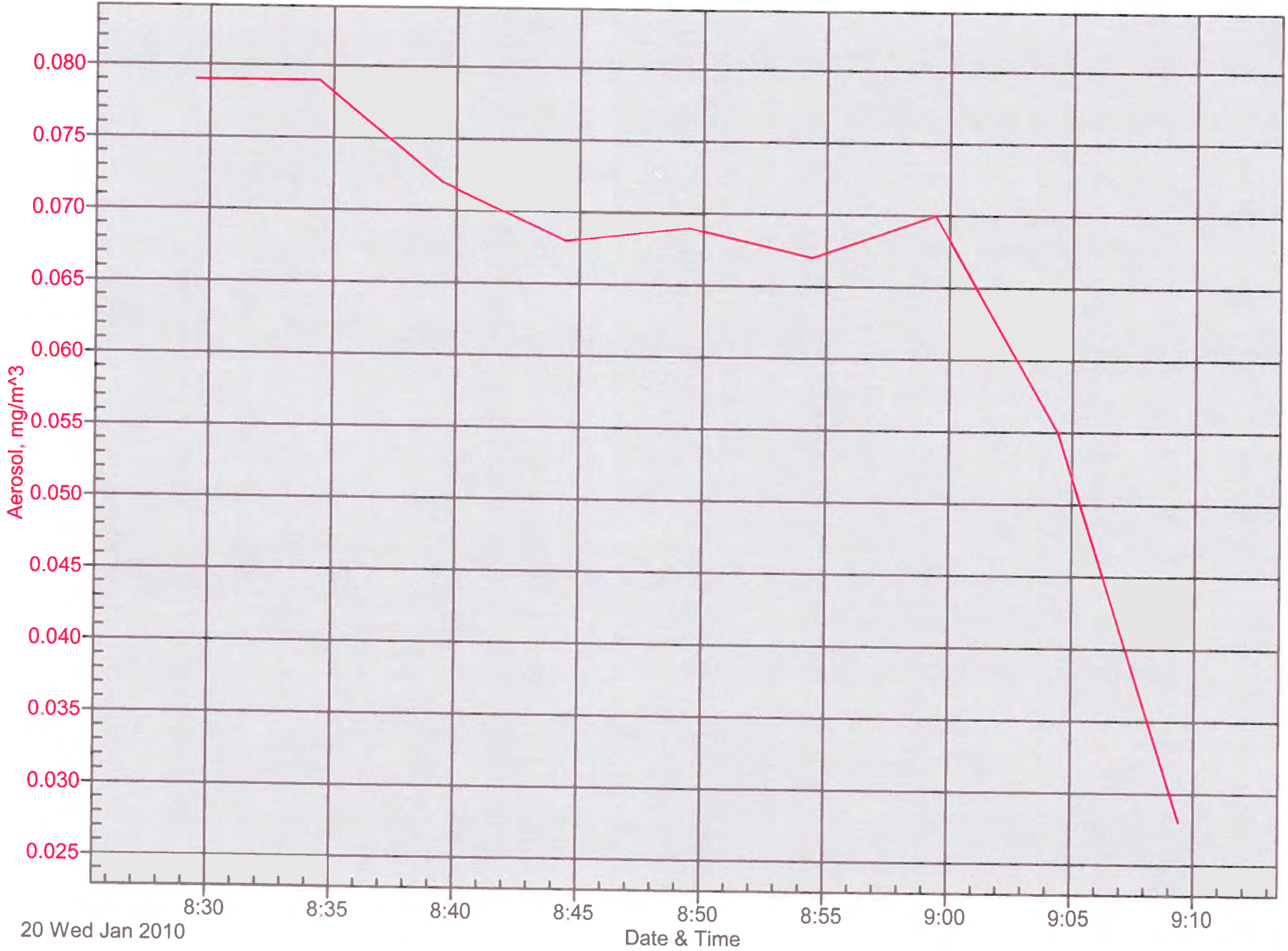
Test 005

Instrument		Data Properties	
Model	Dust Trak	Start Date	01/20/2010
Meter S/N	22704	Start Time	08:24:25
		Stop Date	01/20/2010
		Stop Time	09:09:25
		Total Time	0:00:45:00
		Logging Interval	300 seconds

Statistics	
	Aerosol
Ave	0.065 mg/m^3
Max	0.079 mg/m^3
Max Date	01/20/2010
Max Time	08:29:25
Min	0.028 mg/m^3
Min Date	01/20/2010
Min Time	09:09:25
TWA (8 hr)	0.006
TWA Start Date	01/20/2010
TWA Start Time	08:24:25
TWA End Time	09:09:25

Sewall's Island Site - IRM

PAOC3 Load Out



Test 005

Instrument		Data Properties	
Model	Dust Trak	Start Date	01/20/2010
Meter S/N	22704	Start Time	08:24:25
		Stop Date	01/20/2010
		Stop Time	09:09:25
		Total Time	0:00:45:00
		Logging Interval	300 seconds

Test Data			
Sample	Date	Time	Aerosol mg/m^3
1	01/20/2010	08:29:25	0.079
2	01/20/2010	08:34:25	0.079
3	01/20/2010	08:39:25	0.072
4	01/20/2010	08:44:25	0.068
5	01/20/2010	08:49:25	0.069
6	01/20/2010	08:54:25	0.067
7	01/20/2010	08:59:25	0.070
8	01/20/2010	09:04:25	0.055
9	01/20/2010	09:09:25	0.028

Test 001

Instrument		Data Properties	
Model	Dust Trak	Start Date	07/19/2011
Meter S/N	85202283	Start Time	09:11:43
		Stop Date	07/19/2011
		Stop Time	15:45:43
		Total Time	0:06:34:00
		Logging Interval	60 seconds

Statistics	
	Aerosol
Ave	0.019 mg/m^3
Max	0.040 mg/m^3
Max Date	07/19/2011
Max Time	10:41:43
Min	0.008 mg/m^3
Min Date	07/19/2011
Min Time	14:01:43
TWA (8 hr)	0.016
TWA Start Date	07/19/2011
TWA Start Time	09:11:43
TWA End Time	15:45:43

Test 001

Instrument		Data Properties	
Model	Dust Trak	Start Date	07/19/2011
Meter S/N	85202283	Start Time	09:11:43
		Stop Date	07/19/2011
		Stop Time	15:45:43
		Total Time	0:06:34:00
		Logging Interval	60 seconds

Test Data			
Sample	Date	Time	Aerosol mg/m^3
1	07/19/2011	09:12:43	0.034
2	07/19/2011	09:13:43	0.035
3	07/19/2011	09:14:43	0.035
4	07/19/2011	09:15:43	0.035
5	07/19/2011	09:16:43	0.033
6	07/19/2011	09:17:43	0.034
7	07/19/2011	09:18:43	0.033
8	07/19/2011	09:19:43	0.034
9	07/19/2011	09:20:43	0.034
10	07/19/2011	09:21:43	0.033
11	07/19/2011	09:22:43	0.034
12	07/19/2011	09:23:43	0.033
13	07/19/2011	09:24:43	0.033
14	07/19/2011	09:25:43	0.033
15	07/19/2011	09:26:43	0.033
16	07/19/2011	09:27:43	0.033
17	07/19/2011	09:28:43	0.034
18	07/19/2011	09:29:43	0.033
19	07/19/2011	09:30:43	0.036
20	07/19/2011	09:31:43	0.033
21	07/19/2011	09:32:43	0.036
22	07/19/2011	09:33:43	0.035
23	07/19/2011	09:34:43	0.035
24	07/19/2011	09:35:43	0.033
25	07/19/2011	09:36:43	0.032
26	07/19/2011	09:37:43	0.033
27	07/19/2011	09:38:43	0.033
28	07/19/2011	09:39:43	0.033
29	07/19/2011	09:40:43	0.032
30	07/19/2011	09:41:43	0.037
31	07/19/2011	09:42:43	0.034
32	07/19/2011	09:43:43	0.033
33	07/19/2011	09:44:43	0.032
34	07/19/2011	09:45:43	0.033
35	07/19/2011	09:46:43	0.034
36	07/19/2011	09:47:43	0.033
37	07/19/2011	09:48:43	0.034
38	07/19/2011	09:49:43	0.032
39	07/19/2011	09:50:43	0.032
40	07/19/2011	09:51:43	0.033
41	07/19/2011	09:52:43	0.033
42	07/19/2011	09:53:43	0.032
43	07/19/2011	09:54:43	0.033

Test Data			
Sample	Date	Time	Aerosol mg/m^3
44	07/19/2011	09:55:43	0.032
45	07/19/2011	09:56:43	0.032
46	07/19/2011	09:57:43	0.032
47	07/19/2011	09:58:43	0.032
48	07/19/2011	09:59:43	0.032
49	07/19/2011	10:00:43	0.034
50	07/19/2011	10:01:43	0.033
51	07/19/2011	10:02:43	0.033
52	07/19/2011	10:03:43	0.031
53	07/19/2011	10:04:43	0.033
54	07/19/2011	10:05:43	0.032
55	07/19/2011	10:06:43	0.034
56	07/19/2011	10:07:43	0.033
57	07/19/2011	10:08:43	0.033
58	07/19/2011	10:09:43	0.033
59	07/19/2011	10:10:43	0.035
60	07/19/2011	10:11:43	0.033
61	07/19/2011	10:12:43	0.034
62	07/19/2011	10:13:43	0.034
63	07/19/2011	10:14:43	0.033
64	07/19/2011	10:15:43	0.034
65	07/19/2011	10:16:43	0.032
66	07/19/2011	10:17:43	0.032
67	07/19/2011	10:18:43	0.033
68	07/19/2011	10:19:43	0.034
69	07/19/2011	10:20:43	0.035
70	07/19/2011	10:21:43	0.032
71	07/19/2011	10:22:43	0.033
72	07/19/2011	10:23:43	0.031
73	07/19/2011	10:24:43	0.032
74	07/19/2011	10:25:43	0.031
75	07/19/2011	10:26:43	0.032
76	07/19/2011	10:27:43	0.031
77	07/19/2011	10:28:43	0.032
78	07/19/2011	10:29:43	0.032
79	07/19/2011	10:30:43	0.030
80	07/19/2011	10:31:43	0.030
81	07/19/2011	10:32:43	0.030
82	07/19/2011	10:33:43	0.030
83	07/19/2011	10:34:43	0.030
84	07/19/2011	10:35:43	0.030
85	07/19/2011	10:36:43	0.029
86	07/19/2011	10:37:43	0.029
87	07/19/2011	10:38:43	0.029
88	07/19/2011	10:39:43	0.029
89	07/19/2011	10:40:43	0.030
90	07/19/2011	10:41:43	0.040
91	07/19/2011	10:42:43	0.033
92	07/19/2011	10:43:43	0.031
93	07/19/2011	10:44:43	0.030
94	07/19/2011	10:45:43	0.030
95	07/19/2011	10:46:43	0.030
96	07/19/2011	10:47:43	0.029
97	07/19/2011	10:48:43	0.029
98	07/19/2011	10:49:43	0.028

Test Data			
Sample	Date	Time	Aerosol mg/m^3
99	07/19/2011	10:50:43	0.028
100	07/19/2011	10:51:43	0.030
101	07/19/2011	10:52:43	0.035
102	07/19/2011	10:53:43	0.030
103	07/19/2011	10:54:43	0.029
104	07/19/2011	10:55:43	0.029
105	07/19/2011	10:56:43	0.029
106	07/19/2011	10:57:43	0.029
107	07/19/2011	10:58:43	0.028
108	07/19/2011	10:59:43	0.028
109	07/19/2011	11:00:43	0.029
110	07/19/2011	11:01:43	0.029
111	07/19/2011	11:02:43	0.028
112	07/19/2011	11:03:43	0.028
113	07/19/2011	11:04:43	0.028
114	07/19/2011	11:05:43	0.028
115	07/19/2011	11:06:43	0.029
116	07/19/2011	11:07:43	0.027
117	07/19/2011	11:08:43	0.029
118	07/19/2011	11:09:43	0.027
119	07/19/2011	11:10:43	0.026
120	07/19/2011	11:11:43	0.027
121	07/19/2011	11:12:43	0.026
122	07/19/2011	11:13:43	0.024
123	07/19/2011	11:14:43	0.025
124	07/19/2011	11:15:43	0.026
125	07/19/2011	11:16:43	0.031
126	07/19/2011	11:17:43	0.025
127	07/19/2011	11:18:43	0.024
128	07/19/2011	11:19:43	0.031
129	07/19/2011	11:20:43	0.025
130	07/19/2011	11:21:43	0.024
131	07/19/2011	11:22:43	0.028
132	07/19/2011	11:23:43	0.033
133	07/19/2011	11:24:43	0.025
134	07/19/2011	11:25:43	0.031
135	07/19/2011	11:26:43	0.025
136	07/19/2011	11:27:43	0.024
137	07/19/2011	11:28:43	0.022
138	07/19/2011	11:29:43	0.022
139	07/19/2011	11:30:43	0.022
140	07/19/2011	11:31:43	0.023
141	07/19/2011	11:32:43	0.022
142	07/19/2011	11:33:43	0.023
143	07/19/2011	11:34:43	0.023
144	07/19/2011	11:35:43	0.022
145	07/19/2011	11:36:43	0.021
146	07/19/2011	11:37:43	0.022
147	07/19/2011	11:38:43	0.021
148	07/19/2011	11:39:43	0.020
149	07/19/2011	11:40:43	0.020
150	07/19/2011	11:41:43	0.020
151	07/19/2011	11:42:43	0.020
152	07/19/2011	11:43:43	0.019
153	07/19/2011	11:44:43	0.018

Test Data			
Sample	Date	Time	Aerosol mg/m^3
154	07/19/2011	11:45:43	0.019
155	07/19/2011	11:46:43	0.018
156	07/19/2011	11:47:43	0.017
157	07/19/2011	11:48:43	0.017
158	07/19/2011	11:49:43	0.019
159	07/19/2011	11:50:43	0.019
160	07/19/2011	11:51:43	0.019
161	07/19/2011	11:52:43	0.019
162	07/19/2011	11:53:43	0.022
163	07/19/2011	11:54:43	0.019
164	07/19/2011	11:55:43	0.021
165	07/19/2011	11:56:43	0.022
166	07/19/2011	11:57:43	0.020
167	07/19/2011	11:58:43	0.021
168	07/19/2011	11:59:43	0.020
169	07/19/2011	12:00:43	0.020
170	07/19/2011	12:01:43	0.018
171	07/19/2011	12:02:43	0.018
172	07/19/2011	12:03:43	0.018
173	07/19/2011	12:04:43	0.018
174	07/19/2011	12:05:43	0.018
175	07/19/2011	12:06:43	0.016
176	07/19/2011	12:07:43	0.018
177	07/19/2011	12:08:43	0.017
178	07/19/2011	12:09:43	0.017
179	07/19/2011	12:10:43	0.017
180	07/19/2011	12:11:43	0.016
181	07/19/2011	12:12:43	0.018
182	07/19/2011	12:13:43	0.025
183	07/19/2011	12:14:43	0.018
184	07/19/2011	12:15:43	0.020
185	07/19/2011	12:16:43	0.018
186	07/19/2011	12:17:43	0.018
187	07/19/2011	12:18:43	0.020
188	07/19/2011	12:19:43	0.019
189	07/19/2011	12:20:43	0.017
190	07/19/2011	12:21:43	0.017
191	07/19/2011	12:22:43	0.017
192	07/19/2011	12:23:43	0.017
193	07/19/2011	12:24:43	0.018
194	07/19/2011	12:25:43	0.017
195	07/19/2011	12:26:43	0.015
196	07/19/2011	12:27:43	0.016
197	07/19/2011	12:28:43	0.016
198	07/19/2011	12:29:43	0.016
199	07/19/2011	12:30:43	0.016
200	07/19/2011	12:31:43	0.016
201	07/19/2011	12:32:43	0.016
202	07/19/2011	12:33:43	0.022
203	07/19/2011	12:34:43	0.018
204	07/19/2011	12:35:43	0.016
205	07/19/2011	12:36:43	0.016
206	07/19/2011	12:37:43	0.015
207	07/19/2011	12:38:43	0.017
208	07/19/2011	12:39:43	0.015

Test Data			
Sample	Date	Time	Aerosol mg/m^3
209	07/19/2011	12:40:43	0.015
210	07/19/2011	12:41:43	0.014
211	07/19/2011	12:42:43	0.014
212	07/19/2011	12:43:43	0.014
213	07/19/2011	12:44:43	0.014
214	07/19/2011	12:45:43	0.014
215	07/19/2011	12:46:43	0.014
216	07/19/2011	12:47:43	0.014
217	07/19/2011	12:48:43	0.013
218	07/19/2011	12:49:43	0.012
219	07/19/2011	12:50:43	0.013
220	07/19/2011	12:51:43	0.014
221	07/19/2011	12:52:43	0.013
222	07/19/2011	12:53:43	0.013
223	07/19/2011	12:54:43	0.013
224	07/19/2011	12:55:43	0.013
225	07/19/2011	12:56:43	0.014
226	07/19/2011	12:57:43	0.016
227	07/19/2011	12:58:43	0.015
228	07/19/2011	12:59:43	0.013
229	07/19/2011	13:00:43	0.014
230	07/19/2011	13:01:43	0.014
231	07/19/2011	13:02:43	0.013
232	07/19/2011	13:03:43	0.013
233	07/19/2011	13:04:43	0.013
234	07/19/2011	13:05:43	0.014
235	07/19/2011	13:06:43	0.012
236	07/19/2011	13:07:43	0.013
237	07/19/2011	13:08:43	0.014
238	07/19/2011	13:09:43	0.015
239	07/19/2011	13:10:43	0.020
240	07/19/2011	13:11:43	0.013
241	07/19/2011	13:12:43	0.014
242	07/19/2011	13:13:43	0.014
243	07/19/2011	13:14:43	0.012
244	07/19/2011	13:15:43	0.013
245	07/19/2011	13:16:43	0.013
246	07/19/2011	13:17:43	0.012
247	07/19/2011	13:18:43	0.013
248	07/19/2011	13:19:43	0.014
249	07/19/2011	13:20:43	0.014
250	07/19/2011	13:21:43	0.012
251	07/19/2011	13:22:43	0.014
252	07/19/2011	13:23:43	0.013
253	07/19/2011	13:24:43	0.013
254	07/19/2011	13:25:43	0.012
255	07/19/2011	13:26:43	0.012
256	07/19/2011	13:27:43	0.012
257	07/19/2011	13:28:43	0.013
258	07/19/2011	13:29:43	0.015
259	07/19/2011	13:30:43	0.013
260	07/19/2011	13:31:43	0.013
261	07/19/2011	13:32:43	0.013
262	07/19/2011	13:33:43	0.012
263	07/19/2011	13:34:43	0.011

Test Data			
Sample	Date	Time	Aerosol mg/m^3
264	07/19/2011	13:35:43	0.011
265	07/19/2011	13:36:43	0.011
266	07/19/2011	13:37:43	0.019
267	07/19/2011	13:38:43	0.012
268	07/19/2011	13:39:43	0.012
269	07/19/2011	13:40:43	0.011
270	07/19/2011	13:41:43	0.011
271	07/19/2011	13:42:43	0.013
272	07/19/2011	13:43:43	0.018
273	07/19/2011	13:44:43	0.011
274	07/19/2011	13:45:43	0.013
275	07/19/2011	13:46:43	0.010
276	07/19/2011	13:47:43	0.011
277	07/19/2011	13:48:43	0.010
278	07/19/2011	13:49:43	0.010
279	07/19/2011	13:50:43	0.011
280	07/19/2011	13:51:43	0.012
281	07/19/2011	13:52:43	0.012
282	07/19/2011	13:53:43	0.011
283	07/19/2011	13:54:43	0.009
284	07/19/2011	13:55:43	0.009
285	07/19/2011	13:56:43	0.009
286	07/19/2011	13:57:43	0.009
287	07/19/2011	13:58:43	0.011
288	07/19/2011	13:59:43	0.010
289	07/19/2011	14:00:43	0.010
290	07/19/2011	14:01:43	0.008
291	07/19/2011	14:02:43	0.008
292	07/19/2011	14:03:43	0.009
293	07/19/2011	14:04:43	0.009
294	07/19/2011	14:05:43	0.008
295	07/19/2011	14:06:43	0.008
296	07/19/2011	14:07:43	0.009
297	07/19/2011	14:08:43	0.009
298	07/19/2011	14:09:43	0.009
299	07/19/2011	14:10:43	0.009
300	07/19/2011	14:11:43	0.008
301	07/19/2011	14:12:43	0.008
302	07/19/2011	14:13:43	0.008
303	07/19/2011	14:14:43	0.009
304	07/19/2011	14:15:43	0.010
305	07/19/2011	14:16:43	0.011
306	07/19/2011	14:17:43	0.010
307	07/19/2011	14:18:43	0.012
308	07/19/2011	14:19:43	0.011
309	07/19/2011	14:20:43	0.009
310	07/19/2011	14:21:43	0.009
311	07/19/2011	14:22:43	0.008
312	07/19/2011	14:23:43	0.008
313	07/19/2011	14:24:43	0.009
314	07/19/2011	14:25:43	0.009
315	07/19/2011	14:26:43	0.011
316	07/19/2011	14:27:43	0.010
317	07/19/2011	14:28:43	0.014
318	07/19/2011	14:29:43	0.009

Test Data			
Sample	Date	Time	Aerosol mg/m^3
319	07/19/2011	14:30:43	0.009
320	07/19/2011	14:31:43	0.009
321	07/19/2011	14:32:43	0.010
322	07/19/2011	14:33:43	0.010
323	07/19/2011	14:34:43	0.036
324	07/19/2011	14:35:43	0.012
325	07/19/2011	14:36:43	0.010
326	07/19/2011	14:37:43	0.018
327	07/19/2011	14:38:43	0.010
328	07/19/2011	14:39:43	0.010
329	07/19/2011	14:40:43	0.009
330	07/19/2011	14:41:43	0.009
331	07/19/2011	14:42:43	0.009
332	07/19/2011	14:43:43	0.010
333	07/19/2011	14:44:43	0.009
334	07/19/2011	14:45:43	0.009
335	07/19/2011	14:46:43	0.009
336	07/19/2011	14:47:43	0.009
337	07/19/2011	14:48:43	0.009
338	07/19/2011	14:49:43	0.009
339	07/19/2011	14:50:43	0.009
340	07/19/2011	14:51:43	0.009
341	07/19/2011	14:52:43	0.010
342	07/19/2011	14:53:43	0.009
343	07/19/2011	14:54:43	0.009
344	07/19/2011	14:55:43	0.009
345	07/19/2011	14:56:43	0.009
346	07/19/2011	14:57:43	0.010
347	07/19/2011	14:58:43	0.010
348	07/19/2011	14:59:43	0.009
349	07/19/2011	15:00:43	0.009
350	07/19/2011	15:01:43	0.008
351	07/19/2011	15:02:43	0.008
352	07/19/2011	15:03:43	0.008
353	07/19/2011	15:04:43	0.010
354	07/19/2011	15:05:43	0.009
355	07/19/2011	15:06:43	0.009
356	07/19/2011	15:07:43	0.009
357	07/19/2011	15:08:43	0.010
358	07/19/2011	15:09:43	0.010
359	07/19/2011	15:10:43	0.011
360	07/19/2011	15:11:43	0.011
361	07/19/2011	15:12:43	0.010
362	07/19/2011	15:13:43	0.009
363	07/19/2011	15:14:43	0.012
364	07/19/2011	15:15:43	0.011
365	07/19/2011	15:16:43	0.011
366	07/19/2011	15:17:43	0.009
367	07/19/2011	15:18:43	0.008
368	07/19/2011	15:19:43	0.009
369	07/19/2011	15:20:43	0.009
370	07/19/2011	15:21:43	0.010
371	07/19/2011	15:22:43	0.009
372	07/19/2011	15:23:43	0.010
373	07/19/2011	15:24:43	0.009

Test Data			
Sample	Date	Time	Aerosol mg/m^3
374	07/19/2011	15:25:43	0.009
375	07/19/2011	15:26:43	0.009
376	07/19/2011	15:27:43	0.009
377	07/19/2011	15:28:43	0.009
378	07/19/2011	15:29:43	0.009
379	07/19/2011	15:30:43	0.010
380	07/19/2011	15:31:43	0.011
381	07/19/2011	15:32:43	0.011
382	07/19/2011	15:33:43	0.011
383	07/19/2011	15:34:43	0.009
384	07/19/2011	15:35:43	0.010
385	07/19/2011	15:36:43	0.009
386	07/19/2011	15:37:43	0.011
387	07/19/2011	15:38:43	0.011
388	07/19/2011	15:39:43	0.012
389	07/19/2011	15:40:43	0.009
390	07/19/2011	15:41:43	0.010
391	07/19/2011	15:42:43	0.009
392	07/19/2011	15:43:43	0.009
393	07/19/2011	15:44:43	0.009
394	07/19/2011	15:45:43	0.011

Test 001

Instrument		Data Properties	
Model	Dust Trak	Start Date	07/19/2011
Meter S/N	85202282	Start Time	09:14:14
		Stop Date	07/19/2011
		Stop Time	15:43:14
		Total Time	0:06:29:00
		Logging Interval	60 seconds

Statistics	
	Aerosol
Ave	0.026 mg/m^3
Max	0.169 mg/m^3
Max Date	07/19/2011
Max Time	09:15:14
Min	0.015 mg/m^3
Min Date	07/19/2011
Min Time	13:56:14
TWA (8 hr)	0.021
TWA Start Date	07/19/2011
TWA Start Time	09:14:14
TWA End Time	15:43:14

Test 001

Instrument		Data Properties	
Model	Dust Trak	Start Date	07/19/2011
Meter S/N	85202282	Start Time	09:14:14
		Stop Date	07/19/2011
		Stop Time	15:43:14
		Total Time	0:06:29:00
		Logging Interval	60 seconds

Test Data			
Sample	Date	Time	Aerosol mg/m^3
1	07/19/2011	09:15:14	0.169
2	07/19/2011	09:16:14	0.039
3	07/19/2011	09:17:14	0.035
4	07/19/2011	09:18:14	0.035
5	07/19/2011	09:19:14	0.035
6	07/19/2011	09:20:14	0.035
7	07/19/2011	09:21:14	0.035
8	07/19/2011	09:22:14	0.035
9	07/19/2011	09:23:14	0.035
10	07/19/2011	09:24:14	0.035
11	07/19/2011	09:25:14	0.040
12	07/19/2011	09:26:14	0.036
13	07/19/2011	09:27:14	0.035
14	07/19/2011	09:28:14	0.038
15	07/19/2011	09:29:14	0.042
16	07/19/2011	09:30:14	0.038
17	07/19/2011	09:31:14	0.035
18	07/19/2011	09:32:14	0.034
19	07/19/2011	09:33:14	0.037
20	07/19/2011	09:34:14	0.035
21	07/19/2011	09:35:14	0.034
22	07/19/2011	09:36:14	0.040
23	07/19/2011	09:37:14	0.039
24	07/19/2011	09:38:14	0.037
25	07/19/2011	09:39:14	0.035
26	07/19/2011	09:40:14	0.035
27	07/19/2011	09:41:14	0.035
28	07/19/2011	09:42:14	0.043
29	07/19/2011	09:43:14	0.035
30	07/19/2011	09:44:14	0.041
31	07/19/2011	09:45:14	0.036
32	07/19/2011	09:46:14	0.035
33	07/19/2011	09:47:14	0.035
34	07/19/2011	09:48:14	0.036
35	07/19/2011	09:49:14	0.041
36	07/19/2011	09:50:14	0.035
37	07/19/2011	09:51:14	0.036
38	07/19/2011	09:52:14	0.035
39	07/19/2011	09:53:14	0.035
40	07/19/2011	09:54:14	0.035
41	07/19/2011	09:55:14	0.033
42	07/19/2011	09:56:14	0.035
43	07/19/2011	09:57:14	0.034

Test Data			
Sample	Date	Time	Aerosol mg/m^3
44	07/19/2011	09:58:14	0.034
45	07/19/2011	09:59:14	0.035
46	07/19/2011	10:00:14	0.033
47	07/19/2011	10:01:14	0.034
48	07/19/2011	10:02:14	0.034
49	07/19/2011	10:03:14	0.034
50	07/19/2011	10:04:14	0.035
51	07/19/2011	10:05:14	0.035
52	07/19/2011	10:06:14	0.035
53	07/19/2011	10:07:14	0.034
54	07/19/2011	10:08:14	0.035
55	07/19/2011	10:09:14	0.037
56	07/19/2011	10:10:14	0.035
57	07/19/2011	10:11:14	0.039
58	07/19/2011	10:12:14	0.036
59	07/19/2011	10:13:14	0.036
60	07/19/2011	10:14:14	0.036
61	07/19/2011	10:15:14	0.036
62	07/19/2011	10:16:14	0.037
63	07/19/2011	10:17:14	0.037
64	07/19/2011	10:18:14	0.035
65	07/19/2011	10:19:14	0.040
66	07/19/2011	10:20:14	0.037
67	07/19/2011	10:21:14	0.036
68	07/19/2011	10:22:14	0.040
69	07/19/2011	10:23:14	0.034
70	07/19/2011	10:24:14	0.036
71	07/19/2011	10:25:14	0.034
72	07/19/2011	10:26:14	0.035
73	07/19/2011	10:27:14	0.048
74	07/19/2011	10:28:14	0.035
75	07/19/2011	10:29:14	0.034
76	07/19/2011	10:30:14	0.035
77	07/19/2011	10:31:14	0.037
78	07/19/2011	10:32:14	0.042
79	07/19/2011	10:33:14	0.035
80	07/19/2011	10:34:14	0.032
81	07/19/2011	10:35:14	0.033
82	07/19/2011	10:36:14	0.034
83	07/19/2011	10:37:14	0.034
84	07/19/2011	10:38:14	0.033
85	07/19/2011	10:39:14	0.032
86	07/19/2011	10:40:14	0.032
87	07/19/2011	10:41:14	0.032
88	07/19/2011	10:42:14	0.033
89	07/19/2011	10:43:14	0.049
90	07/19/2011	10:44:14	0.036
91	07/19/2011	10:45:14	0.034
92	07/19/2011	10:46:14	0.042
93	07/19/2011	10:47:14	0.033
94	07/19/2011	10:48:14	0.033
95	07/19/2011	10:49:14	0.033
96	07/19/2011	10:50:14	0.032
97	07/19/2011	10:51:14	0.032
98	07/19/2011	10:52:14	0.032

Test Data			
Sample	Date	Time	Aerosol mg/m^3
99	07/19/2011	10:53:14	0.036
100	07/19/2011	10:54:14	0.036
101	07/19/2011	10:55:14	0.037
102	07/19/2011	10:56:14	0.034
103	07/19/2011	10:57:14	0.032
104	07/19/2011	10:58:14	0.032
105	07/19/2011	10:59:14	0.031
106	07/19/2011	11:00:14	0.031
107	07/19/2011	11:01:14	0.031
108	07/19/2011	11:02:14	0.031
109	07/19/2011	11:03:14	0.034
110	07/19/2011	11:04:14	0.032
111	07/19/2011	11:05:14	0.034
112	07/19/2011	11:06:14	0.031
113	07/19/2011	11:07:14	0.032
114	07/19/2011	11:08:14	0.032
115	07/19/2011	11:09:14	0.035
116	07/19/2011	11:10:14	0.035
117	07/19/2011	11:11:14	0.030
118	07/19/2011	11:12:14	0.032
119	07/19/2011	11:13:14	0.031
120	07/19/2011	11:14:14	0.029
121	07/19/2011	11:15:14	0.029
122	07/19/2011	11:16:14	0.030
123	07/19/2011	11:17:14	0.029
124	07/19/2011	11:18:14	0.028
125	07/19/2011	11:19:14	0.091
126	07/19/2011	11:20:14	0.028
127	07/19/2011	11:21:14	0.029
128	07/19/2011	11:22:14	0.029
129	07/19/2011	11:23:14	0.033
130	07/19/2011	11:24:14	0.028
131	07/19/2011	11:25:14	0.031
132	07/19/2011	11:26:14	0.045
133	07/19/2011	11:27:14	0.029
134	07/19/2011	11:28:14	0.030
135	07/19/2011	11:29:14	0.027
136	07/19/2011	11:30:14	0.026
137	07/19/2011	11:31:14	0.028
138	07/19/2011	11:32:14	0.026
139	07/19/2011	11:33:14	0.035
140	07/19/2011	11:34:14	0.027
141	07/19/2011	11:35:14	0.027
142	07/19/2011	11:36:14	0.026
143	07/19/2011	11:37:14	0.027
144	07/19/2011	11:38:14	0.030
145	07/19/2011	11:39:14	0.025
146	07/19/2011	11:40:14	0.025
147	07/19/2011	11:41:14	0.025
148	07/19/2011	11:42:14	0.023
149	07/19/2011	11:43:14	0.025
150	07/19/2011	11:44:14	0.025
151	07/19/2011	11:45:14	0.023
152	07/19/2011	11:46:14	0.021
153	07/19/2011	11:47:14	0.021

Test Data			
Sample	Date	Time	Aerosol mg/m^3
154	07/19/2011	11:48:14	0.029
155	07/19/2011	11:49:14	0.020
156	07/19/2011	11:50:14	0.023
157	07/19/2011	11:51:14	0.024
158	07/19/2011	11:52:14	0.022
159	07/19/2011	11:53:14	0.023
160	07/19/2011	11:54:14	0.026
161	07/19/2011	11:55:14	0.025
162	07/19/2011	11:56:14	0.025
163	07/19/2011	11:57:14	0.028
164	07/19/2011	11:58:14	0.024
165	07/19/2011	11:59:14	0.023
166	07/19/2011	12:00:14	0.026
167	07/19/2011	12:01:14	0.028
168	07/19/2011	12:02:14	0.035
169	07/19/2011	12:03:14	0.022
170	07/19/2011	12:04:14	0.022
171	07/19/2011	12:05:14	0.021
172	07/19/2011	12:06:14	0.021
173	07/19/2011	12:07:14	0.022
174	07/19/2011	12:08:14	0.022
175	07/19/2011	12:09:14	0.021
176	07/19/2011	12:10:14	0.025
177	07/19/2011	12:11:14	0.021
178	07/19/2011	12:12:14	0.021
179	07/19/2011	12:13:14	0.021
180	07/19/2011	12:14:14	0.022
181	07/19/2011	12:15:14	0.024
182	07/19/2011	12:16:14	0.043
183	07/19/2011	12:17:14	0.024
184	07/19/2011	12:18:14	0.029
185	07/19/2011	12:19:14	0.027
186	07/19/2011	12:20:14	0.021
187	07/19/2011	12:21:14	0.023
188	07/19/2011	12:22:14	0.023
189	07/19/2011	12:23:14	0.024
190	07/19/2011	12:24:14	0.022
191	07/19/2011	12:25:14	0.022
192	07/19/2011	12:26:14	0.021
193	07/19/2011	12:27:14	0.021
194	07/19/2011	12:28:14	0.022
195	07/19/2011	12:29:14	0.020
196	07/19/2011	12:30:14	0.020
197	07/19/2011	12:31:14	0.021
198	07/19/2011	12:32:14	0.026
199	07/19/2011	12:33:14	0.026
200	07/19/2011	12:34:14	0.024
201	07/19/2011	12:35:14	0.024
202	07/19/2011	12:36:14	0.021
203	07/19/2011	12:37:14	0.021
204	07/19/2011	12:38:14	0.021
205	07/19/2011	12:39:14	0.020
206	07/19/2011	12:40:14	0.023
207	07/19/2011	12:41:14	0.021
208	07/19/2011	12:42:14	0.019

Test Data			
Sample	Date	Time	Aerosol mg/m^3
209	07/19/2011	12:43:14	0.023
210	07/19/2011	12:44:14	0.020
211	07/19/2011	12:45:14	0.020
212	07/19/2011	12:46:14	0.021
213	07/19/2011	12:47:14	0.027
214	07/19/2011	12:48:14	0.028
215	07/19/2011	12:49:14	0.020
216	07/19/2011	12:50:14	0.018
217	07/19/2011	12:51:14	0.018
218	07/19/2011	12:52:14	0.018
219	07/19/2011	12:53:14	0.022
220	07/19/2011	12:54:14	0.018
221	07/19/2011	12:55:14	0.018
222	07/19/2011	12:56:14	0.020
223	07/19/2011	12:57:14	0.022
224	07/19/2011	12:58:14	0.020
225	07/19/2011	12:59:14	0.022
226	07/19/2011	13:00:14	0.026
227	07/19/2011	13:01:14	0.022
228	07/19/2011	13:02:14	0.020
229	07/19/2011	13:03:14	0.021
230	07/19/2011	13:04:14	0.024
231	07/19/2011	13:05:14	0.025
232	07/19/2011	13:06:14	0.019
233	07/19/2011	13:07:14	0.018
234	07/19/2011	13:08:14	0.020
235	07/19/2011	13:09:14	0.020
236	07/19/2011	13:10:14	0.021
237	07/19/2011	13:11:14	0.020
238	07/19/2011	13:12:14	0.019
239	07/19/2011	13:13:14	0.019
240	07/19/2011	13:14:14	0.020
241	07/19/2011	13:15:14	0.020
242	07/19/2011	13:16:14	0.020
243	07/19/2011	13:17:14	0.020
244	07/19/2011	13:18:14	0.019
245	07/19/2011	13:19:14	0.018
246	07/19/2011	13:20:14	0.019
247	07/19/2011	13:21:14	0.019
248	07/19/2011	13:22:14	0.024
249	07/19/2011	13:23:14	0.020
250	07/19/2011	13:24:14	0.019
251	07/19/2011	13:25:14	0.028
252	07/19/2011	13:26:14	0.021
253	07/19/2011	13:27:14	0.020
254	07/19/2011	13:28:14	0.019
255	07/19/2011	13:29:14	0.018
256	07/19/2011	13:30:14	0.020
257	07/19/2011	13:31:14	0.023
258	07/19/2011	13:32:14	0.019
259	07/19/2011	13:33:14	0.018
260	07/19/2011	13:34:14	0.018
261	07/19/2011	13:35:14	0.020
262	07/19/2011	13:36:14	0.018
263	07/19/2011	13:37:14	0.018

Test Data			
Sample	Date	Time	Aerosol mg/m^3
264	07/19/2011	13:38:14	0.020
265	07/19/2011	13:39:14	0.022
266	07/19/2011	13:40:14	0.019
267	07/19/2011	13:41:14	0.024
268	07/19/2011	13:42:14	0.019
269	07/19/2011	13:43:14	0.022
270	07/19/2011	13:44:14	0.020
271	07/19/2011	13:45:14	0.019
272	07/19/2011	13:46:14	0.018
273	07/19/2011	13:47:14	0.018
274	07/19/2011	13:48:14	0.018
275	07/19/2011	13:49:14	0.017
276	07/19/2011	13:50:14	0.019
277	07/19/2011	13:51:14	0.019
278	07/19/2011	13:52:14	0.020
279	07/19/2011	13:53:14	0.018
280	07/19/2011	13:54:14	0.033
281	07/19/2011	13:55:14	0.020
282	07/19/2011	13:56:14	0.015
283	07/19/2011	13:57:14	0.017
284	07/19/2011	13:58:14	0.016
285	07/19/2011	13:59:14	0.016
286	07/19/2011	14:00:14	0.016
287	07/19/2011	14:01:14	0.015
288	07/19/2011	14:02:14	0.017
289	07/19/2011	14:03:14	0.015
290	07/19/2011	14:04:14	0.016
291	07/19/2011	14:05:14	0.016
292	07/19/2011	14:06:14	0.015
293	07/19/2011	14:07:14	0.018
294	07/19/2011	14:08:14	0.016
295	07/19/2011	14:09:14	0.017
296	07/19/2011	14:10:14	0.021
297	07/19/2011	14:11:14	0.018
298	07/19/2011	14:12:14	0.019
299	07/19/2011	14:13:14	0.019
300	07/19/2011	14:14:14	0.019
301	07/19/2011	14:15:14	0.021
302	07/19/2011	14:16:14	0.016
303	07/19/2011	14:17:14	0.015
304	07/19/2011	14:18:14	0.015
305	07/19/2011	14:19:14	0.015
306	07/19/2011	14:20:14	0.016
307	07/19/2011	14:21:14	0.017
308	07/19/2011	14:22:14	0.015
309	07/19/2011	14:23:14	0.015
310	07/19/2011	14:24:14	0.019
311	07/19/2011	14:25:14	0.018
312	07/19/2011	14:26:14	0.017
313	07/19/2011	14:27:14	0.016
314	07/19/2011	14:28:14	0.017
315	07/19/2011	14:29:14	0.016
316	07/19/2011	14:30:14	0.018
317	07/19/2011	14:31:14	0.016
318	07/19/2011	14:32:14	0.017

Test Data			
Sample	Date	Time	Aerosol mg/m^3
319	07/19/2011	14:33:14	0.018
320	07/19/2011	14:34:14	0.017
321	07/19/2011	14:35:14	0.018
322	07/19/2011	14:36:14	0.017
323	07/19/2011	14:37:14	0.019
324	07/19/2011	14:38:14	0.019
325	07/19/2011	14:39:14	0.017
326	07/19/2011	14:40:14	0.019
327	07/19/2011	14:41:14	0.017
328	07/19/2011	14:42:14	0.017
329	07/19/2011	14:43:14	0.022
330	07/19/2011	14:44:14	0.018
331	07/19/2011	14:45:14	0.019
332	07/19/2011	14:46:14	0.017
333	07/19/2011	14:47:14	0.017
334	07/19/2011	14:48:14	0.020
335	07/19/2011	14:49:14	0.029
336	07/19/2011	14:50:14	0.019
337	07/19/2011	14:51:14	0.017
338	07/19/2011	14:52:14	0.017
339	07/19/2011	14:53:14	0.017
340	07/19/2011	14:54:14	0.017
341	07/19/2011	14:55:14	0.017
342	07/19/2011	14:56:14	0.017
343	07/19/2011	14:57:14	0.025
344	07/19/2011	14:58:14	0.022
345	07/19/2011	14:59:14	0.018
346	07/19/2011	15:00:14	0.019
347	07/19/2011	15:01:14	0.018
348	07/19/2011	15:02:14	0.016
349	07/19/2011	15:03:14	0.018
350	07/19/2011	15:04:14	0.017
351	07/19/2011	15:05:14	0.017
352	07/19/2011	15:06:14	0.017
353	07/19/2011	15:07:14	0.021
354	07/19/2011	15:08:14	0.017
355	07/19/2011	15:09:14	0.019
356	07/19/2011	15:10:14	0.016
357	07/19/2011	15:11:14	0.020
358	07/19/2011	15:12:14	0.021
359	07/19/2011	15:13:14	0.019
360	07/19/2011	15:14:14	0.023
361	07/19/2011	15:15:14	0.022
362	07/19/2011	15:16:14	0.018
363	07/19/2011	15:17:14	0.017
364	07/19/2011	15:18:14	0.021
365	07/19/2011	15:19:14	0.017
366	07/19/2011	15:20:14	0.018
367	07/19/2011	15:21:14	0.024
368	07/19/2011	15:22:14	0.019
369	07/19/2011	15:23:14	0.018
370	07/19/2011	15:24:14	0.018
371	07/19/2011	15:25:14	0.028
372	07/19/2011	15:26:14	0.017
373	07/19/2011	15:27:14	0.018

Test Data			
Sample	Date	Time	Aerosol mg/m^3
374	07/19/2011	15:28:14	0.024
375	07/19/2011	15:29:14	0.019
376	07/19/2011	15:30:14	0.018
377	07/19/2011	15:31:14	0.021
378	07/19/2011	15:32:14	0.017
379	07/19/2011	15:33:14	0.017
380	07/19/2011	15:34:14	0.018
381	07/19/2011	15:35:14	0.017
382	07/19/2011	15:36:14	0.018
383	07/19/2011	15:37:14	0.018
384	07/19/2011	15:38:14	0.018
385	07/19/2011	15:39:14	0.017
386	07/19/2011	15:40:14	0.017
387	07/19/2011	15:41:14	0.018
388	07/19/2011	15:42:14	0.020
389	07/19/2011	15:43:14	0.017

Test 002

Instrument		Data Properties	
Model	Dust Trak	Start Date	07/20/2011
Meter S/N	85202282	Start Time	08:29:04
		Stop Date	07/20/2011
		Stop Time	15:44:04
		Total Time	0:07:15:00
		Logging Interval	60 seconds

Statistics	
	Aerosol
Ave	0.058 mg/m^3
Max	0.104 mg/m^3
Max Date	07/20/2011
Max Time	08:30:04
Min	0.051 mg/m^3
Min Date	07/20/2011
Min Time	09:29:04
TWA (8 hr)	0.053
TWA Start Date	07/20/2011
TWA Start Time	08:29:04
TWA End Time	15:44:04

Test 002

Instrument		Data Properties	
Model	Dust Trak	Start Date	07/20/2011
Meter S/N	85202282	Start Time	08:29:04
		Stop Date	07/20/2011
		Stop Time	15:44:04
		Total Time	0:07:15:00
		Logging Interval	60 seconds

Test Data			
Sample	Date	Time	Aerosol mg/m^3
1	07/20/2011	08:30:04	0.104
2	07/20/2011	08:31:04	0.071
3	07/20/2011	08:32:04	0.067
4	07/20/2011	08:33:04	0.063
5	07/20/2011	08:34:04	0.067
6	07/20/2011	08:35:04	0.063
7	07/20/2011	08:36:04	0.059
8	07/20/2011	08:37:04	0.063
9	07/20/2011	08:38:04	0.063
10	07/20/2011	08:39:04	0.061
11	07/20/2011	08:40:04	0.064
12	07/20/2011	08:41:04	0.062
13	07/20/2011	08:42:04	0.062
14	07/20/2011	08:43:04	0.058
15	07/20/2011	08:44:04	0.064
16	07/20/2011	08:45:04	0.061
17	07/20/2011	08:46:04	0.058
18	07/20/2011	08:47:04	0.059
19	07/20/2011	08:48:04	0.061
20	07/20/2011	08:49:04	0.059
21	07/20/2011	08:50:04	0.058
22	07/20/2011	08:51:04	0.058
23	07/20/2011	08:52:04	0.059
24	07/20/2011	08:53:04	0.057
25	07/20/2011	08:54:04	0.059
26	07/20/2011	08:55:04	0.055
27	07/20/2011	08:56:04	0.060
28	07/20/2011	08:57:04	0.055
29	07/20/2011	08:58:04	0.055
30	07/20/2011	08:59:04	0.059
31	07/20/2011	09:00:04	0.058
32	07/20/2011	09:01:04	0.057
33	07/20/2011	09:02:04	0.063
34	07/20/2011	09:03:04	0.056
35	07/20/2011	09:04:04	0.057
36	07/20/2011	09:05:04	0.055
37	07/20/2011	09:06:04	0.056
38	07/20/2011	09:07:04	0.055
39	07/20/2011	09:08:04	0.054
40	07/20/2011	09:09:04	0.054
41	07/20/2011	09:10:04	0.053
42	07/20/2011	09:11:04	0.055
43	07/20/2011	09:12:04	0.058

Test Data			
Sample	Date	Time	Aerosol mg/m^3
44	07/20/2011	09:13:04	0.056
45	07/20/2011	09:14:04	0.056
46	07/20/2011	09:15:04	0.054
47	07/20/2011	09:16:04	0.056
48	07/20/2011	09:17:04	0.056
49	07/20/2011	09:18:04	0.054
50	07/20/2011	09:19:04	0.054
51	07/20/2011	09:20:04	0.054
52	07/20/2011	09:21:04	0.054
53	07/20/2011	09:22:04	0.055
54	07/20/2011	09:23:04	0.056
55	07/20/2011	09:24:04	0.060
56	07/20/2011	09:25:04	0.055
57	07/20/2011	09:26:04	0.054
58	07/20/2011	09:27:04	0.057
59	07/20/2011	09:28:04	0.054
60	07/20/2011	09:29:04	0.051
61	07/20/2011	09:30:04	0.055
62	07/20/2011	09:31:04	0.057
63	07/20/2011	09:32:04	0.056
64	07/20/2011	09:33:04	0.053
65	07/20/2011	09:34:04	0.052
66	07/20/2011	09:35:04	0.054
67	07/20/2011	09:36:04	0.054
68	07/20/2011	09:37:04	0.059
69	07/20/2011	09:38:04	0.059
70	07/20/2011	09:39:04	0.052
71	07/20/2011	09:40:04	0.058
72	07/20/2011	09:41:04	0.055
73	07/20/2011	09:42:04	0.054
74	07/20/2011	09:43:04	0.053
75	07/20/2011	09:44:04	0.053
76	07/20/2011	09:45:04	0.052
77	07/20/2011	09:46:04	0.054
78	07/20/2011	09:47:04	0.051
79	07/20/2011	09:48:04	0.051
80	07/20/2011	09:49:04	0.052
81	07/20/2011	09:50:04	0.052
82	07/20/2011	09:51:04	0.052
83	07/20/2011	09:52:04	0.055
84	07/20/2011	09:53:04	0.052
85	07/20/2011	09:54:04	0.053
86	07/20/2011	09:55:04	0.053
87	07/20/2011	09:56:04	0.053
88	07/20/2011	09:57:04	0.053
89	07/20/2011	09:58:04	0.053
90	07/20/2011	09:59:04	0.053
91	07/20/2011	10:00:04	0.054
92	07/20/2011	10:01:04	0.055
93	07/20/2011	10:02:04	0.053
94	07/20/2011	10:03:04	0.061
95	07/20/2011	10:04:04	0.054
96	07/20/2011	10:05:04	0.055
97	07/20/2011	10:06:04	0.055
98	07/20/2011	10:07:04	0.054

Test Data			
Sample	Date	Time	Aerosol mg/m^3
99	07/20/2011	10:08:04	0.056
100	07/20/2011	10:09:04	0.056
101	07/20/2011	10:10:04	0.055
102	07/20/2011	10:11:04	0.057
103	07/20/2011	10:12:04	0.055
104	07/20/2011	10:13:04	0.061
105	07/20/2011	10:14:04	0.068
106	07/20/2011	10:15:04	0.059
107	07/20/2011	10:16:04	0.054
108	07/20/2011	10:17:04	0.056
109	07/20/2011	10:18:04	0.053
110	07/20/2011	10:19:04	0.054
111	07/20/2011	10:20:04	0.054
112	07/20/2011	10:21:04	0.054
113	07/20/2011	10:22:04	0.054
114	07/20/2011	10:23:04	0.054
115	07/20/2011	10:24:04	0.055
116	07/20/2011	10:25:04	0.059
117	07/20/2011	10:26:04	0.054
118	07/20/2011	10:27:04	0.055
119	07/20/2011	10:28:04	0.055
120	07/20/2011	10:29:04	0.054
121	07/20/2011	10:30:04	0.054
122	07/20/2011	10:31:04	0.061
123	07/20/2011	10:32:04	0.060
124	07/20/2011	10:33:04	0.059
125	07/20/2011	10:34:04	0.060
126	07/20/2011	10:35:04	0.063
127	07/20/2011	10:36:04	0.061
128	07/20/2011	10:37:04	0.062
129	07/20/2011	10:38:04	0.062
130	07/20/2011	10:39:04	0.062
131	07/20/2011	10:40:04	0.062
132	07/20/2011	10:41:04	0.064
133	07/20/2011	10:42:04	0.062
134	07/20/2011	10:43:04	0.061
135	07/20/2011	10:44:04	0.062
136	07/20/2011	10:45:04	0.061
137	07/20/2011	10:46:04	0.066
138	07/20/2011	10:47:04	0.061
139	07/20/2011	10:48:04	0.063
140	07/20/2011	10:49:04	0.066
141	07/20/2011	10:50:04	0.064
142	07/20/2011	10:51:04	0.061
143	07/20/2011	10:52:04	0.061
144	07/20/2011	10:53:04	0.061
145	07/20/2011	10:54:04	0.064
146	07/20/2011	10:55:04	0.060
147	07/20/2011	10:56:04	0.060
148	07/20/2011	10:57:04	0.064
149	07/20/2011	10:58:04	0.061
150	07/20/2011	10:59:04	0.060
151	07/20/2011	11:00:04	0.061
152	07/20/2011	11:01:04	0.059
153	07/20/2011	11:02:04	0.059

Test Data			
Sample	Date	Time	Aerosol mg/m^3
154	07/20/2011	11:03:04	0.059
155	07/20/2011	11:04:04	0.061
156	07/20/2011	11:05:04	0.060
157	07/20/2011	11:06:04	0.057
158	07/20/2011	11:07:04	0.067
159	07/20/2011	11:08:04	0.056
160	07/20/2011	11:09:04	0.059
161	07/20/2011	11:10:04	0.058
162	07/20/2011	11:11:04	0.060
163	07/20/2011	11:12:04	0.062
164	07/20/2011	11:13:04	0.073
165	07/20/2011	11:14:04	0.061
166	07/20/2011	11:15:04	0.060
167	07/20/2011	11:16:04	0.060
168	07/20/2011	11:17:04	0.059
169	07/20/2011	11:18:04	0.057
170	07/20/2011	11:19:04	0.061
171	07/20/2011	11:20:04	0.060
172	07/20/2011	11:21:04	0.060
173	07/20/2011	11:22:04	0.059
174	07/20/2011	11:23:04	0.058
175	07/20/2011	11:24:04	0.059
176	07/20/2011	11:25:04	0.058
177	07/20/2011	11:26:04	0.058
178	07/20/2011	11:27:04	0.056
179	07/20/2011	11:28:04	0.058
180	07/20/2011	11:29:04	0.058
181	07/20/2011	11:30:04	0.055
182	07/20/2011	11:31:04	0.057
183	07/20/2011	11:32:04	0.055
184	07/20/2011	11:33:04	0.056
185	07/20/2011	11:34:04	0.056
186	07/20/2011	11:35:04	0.056
187	07/20/2011	11:36:04	0.056
188	07/20/2011	11:37:04	0.056
189	07/20/2011	11:38:04	0.057
190	07/20/2011	11:39:04	0.056
191	07/20/2011	11:40:04	0.057
192	07/20/2011	11:41:04	0.057
193	07/20/2011	11:42:04	0.057
194	07/20/2011	11:43:04	0.057
195	07/20/2011	11:44:04	0.060
196	07/20/2011	11:45:04	0.054
197	07/20/2011	11:46:04	0.055
198	07/20/2011	11:47:04	0.061
199	07/20/2011	11:48:04	0.053
200	07/20/2011	11:49:04	0.055
201	07/20/2011	11:50:04	0.056
202	07/20/2011	11:51:04	0.060
203	07/20/2011	11:52:04	0.055
204	07/20/2011	11:53:04	0.055
205	07/20/2011	11:54:04	0.054
206	07/20/2011	11:55:04	0.054
207	07/20/2011	11:56:04	0.055
208	07/20/2011	11:57:04	0.056

Test Data			
Sample	Date	Time	Aerosol mg/m^3
209	07/20/2011	11:58:04	0.054
210	07/20/2011	11:59:04	0.056
211	07/20/2011	12:00:04	0.061
212	07/20/2011	12:01:04	0.060
213	07/20/2011	12:02:04	0.059
214	07/20/2011	12:03:04	0.058
215	07/20/2011	12:04:04	0.059
216	07/20/2011	12:05:04	0.058
217	07/20/2011	12:06:04	0.058
218	07/20/2011	12:07:04	0.059
219	07/20/2011	12:08:04	0.060
220	07/20/2011	12:09:04	0.058
221	07/20/2011	12:10:04	0.059
222	07/20/2011	12:11:04	0.059
223	07/20/2011	12:12:04	0.069
224	07/20/2011	12:13:04	0.063
225	07/20/2011	12:14:04	0.068
226	07/20/2011	12:15:04	0.068
227	07/20/2011	12:16:04	0.063
228	07/20/2011	12:17:04	0.061
229	07/20/2011	12:18:04	0.065
230	07/20/2011	12:19:04	0.069
231	07/20/2011	12:20:04	0.066
232	07/20/2011	12:21:04	0.065
233	07/20/2011	12:22:04	0.064
234	07/20/2011	12:23:04	0.063
235	07/20/2011	12:24:04	0.063
236	07/20/2011	12:25:04	0.062
237	07/20/2011	12:26:04	0.062
238	07/20/2011	12:27:04	0.063
239	07/20/2011	12:28:04	0.068
240	07/20/2011	12:29:04	0.064
241	07/20/2011	12:30:04	0.061
242	07/20/2011	12:31:04	0.060
243	07/20/2011	12:32:04	0.059
244	07/20/2011	12:33:04	0.058
245	07/20/2011	12:34:04	0.057
246	07/20/2011	12:35:04	0.058
247	07/20/2011	12:36:04	0.056
248	07/20/2011	12:37:04	0.055
249	07/20/2011	12:38:04	0.055
250	07/20/2011	12:39:04	0.054
251	07/20/2011	12:40:04	0.058
252	07/20/2011	12:41:04	0.056
253	07/20/2011	12:42:04	0.058
254	07/20/2011	12:43:04	0.059
255	07/20/2011	12:44:04	0.060
256	07/20/2011	12:45:04	0.070
257	07/20/2011	12:46:04	0.058
258	07/20/2011	12:47:04	0.059
259	07/20/2011	12:48:04	0.057
260	07/20/2011	12:49:04	0.057
261	07/20/2011	12:50:04	0.061
262	07/20/2011	12:51:04	0.057
263	07/20/2011	12:52:04	0.059

Test Data			
Sample	Date	Time	Aerosol mg/m^3
264	07/20/2011	12:53:04	0.058
265	07/20/2011	12:54:04	0.069
266	07/20/2011	12:55:04	0.058
267	07/20/2011	12:56:04	0.061
268	07/20/2011	12:57:04	0.059
269	07/20/2011	12:58:04	0.056
270	07/20/2011	12:59:04	0.059
271	07/20/2011	13:00:04	0.057
272	07/20/2011	13:01:04	0.056
273	07/20/2011	13:02:04	0.055
274	07/20/2011	13:03:04	0.059
275	07/20/2011	13:04:04	0.059
276	07/20/2011	13:05:04	0.054
277	07/20/2011	13:06:04	0.055
278	07/20/2011	13:07:04	0.054
279	07/20/2011	13:08:04	0.053
280	07/20/2011	13:09:04	0.053
281	07/20/2011	13:10:04	0.051
282	07/20/2011	13:11:04	0.057
283	07/20/2011	13:12:04	0.056
284	07/20/2011	13:13:04	0.057
285	07/20/2011	13:14:04	0.057
286	07/20/2011	13:15:04	0.054
287	07/20/2011	13:16:04	0.053
288	07/20/2011	13:17:04	0.055
289	07/20/2011	13:18:04	0.056
290	07/20/2011	13:19:04	0.054
291	07/20/2011	13:20:04	0.055
292	07/20/2011	13:21:04	0.054
293	07/20/2011	13:22:04	0.052
294	07/20/2011	13:23:04	0.055
295	07/20/2011	13:24:04	0.056
296	07/20/2011	13:25:04	0.054
297	07/20/2011	13:26:04	0.055
298	07/20/2011	13:27:04	0.054
299	07/20/2011	13:28:04	0.053
300	07/20/2011	13:29:04	0.054
301	07/20/2011	13:30:04	0.053
302	07/20/2011	13:31:04	0.055
303	07/20/2011	13:32:04	0.059
304	07/20/2011	13:33:04	0.057
305	07/20/2011	13:34:04	0.086
306	07/20/2011	13:35:04	0.055
307	07/20/2011	13:36:04	0.061
308	07/20/2011	13:37:04	0.055
309	07/20/2011	13:38:04	0.057
310	07/20/2011	13:39:04	0.056
311	07/20/2011	13:40:04	0.055
312	07/20/2011	13:41:04	0.064
313	07/20/2011	13:42:04	0.064
314	07/20/2011	13:43:04	0.057
315	07/20/2011	13:44:04	0.055
316	07/20/2011	13:45:04	0.056
317	07/20/2011	13:46:04	0.054
318	07/20/2011	13:47:04	0.056

Test Data			
Sample	Date	Time	Aerosol mg/m^3
319	07/20/2011	13:48:04	0.055
320	07/20/2011	13:49:04	0.057
321	07/20/2011	13:50:04	0.057
322	07/20/2011	13:51:04	0.055
323	07/20/2011	13:52:04	0.054
324	07/20/2011	13:53:04	0.060
325	07/20/2011	13:54:04	0.055
326	07/20/2011	13:55:04	0.055
327	07/20/2011	13:56:04	0.053
328	07/20/2011	13:57:04	0.054
329	07/20/2011	13:58:04	0.052
330	07/20/2011	13:59:04	0.054
331	07/20/2011	14:00:04	0.051
332	07/20/2011	14:01:04	0.053
333	07/20/2011	14:02:04	0.053
334	07/20/2011	14:03:04	0.055
335	07/20/2011	14:04:04	0.056
336	07/20/2011	14:05:04	0.055
337	07/20/2011	14:06:04	0.054
338	07/20/2011	14:07:04	0.055
339	07/20/2011	14:08:04	0.057
340	07/20/2011	14:09:04	0.057
341	07/20/2011	14:10:04	0.063
342	07/20/2011	14:11:04	0.056
343	07/20/2011	14:12:04	0.059
344	07/20/2011	14:13:04	0.059
345	07/20/2011	14:14:04	0.063
346	07/20/2011	14:15:04	0.061
347	07/20/2011	14:16:04	0.063
348	07/20/2011	14:17:04	0.060
349	07/20/2011	14:18:04	0.063
350	07/20/2011	14:19:04	0.062
351	07/20/2011	14:20:04	0.059
352	07/20/2011	14:21:04	0.058
353	07/20/2011	14:22:04	0.060
354	07/20/2011	14:23:04	0.058
355	07/20/2011	14:24:04	0.060
356	07/20/2011	14:25:04	0.059
357	07/20/2011	14:26:04	0.056
358	07/20/2011	14:27:04	0.057
359	07/20/2011	14:28:04	0.057
360	07/20/2011	14:29:04	0.056
361	07/20/2011	14:30:04	0.058
362	07/20/2011	14:31:04	0.056
363	07/20/2011	14:32:04	0.057
364	07/20/2011	14:33:04	0.056
365	07/20/2011	14:34:04	0.058
366	07/20/2011	14:35:04	0.059
367	07/20/2011	14:36:04	0.059
368	07/20/2011	14:37:04	0.059
369	07/20/2011	14:38:04	0.066
370	07/20/2011	14:39:04	0.062
371	07/20/2011	14:40:04	0.058
372	07/20/2011	14:41:04	0.058
373	07/20/2011	14:42:04	0.058

Test Data			
Sample	Date	Time	Aerosol mg/m^3
374	07/20/2011	14:43:04	0.059
375	07/20/2011	14:44:04	0.062
376	07/20/2011	14:45:04	0.057
377	07/20/2011	14:46:04	0.058
378	07/20/2011	14:47:04	0.061
379	07/20/2011	14:48:04	0.057
380	07/20/2011	14:49:04	0.061
381	07/20/2011	14:50:04	0.062
382	07/20/2011	14:51:04	0.060
383	07/20/2011	14:52:04	0.058
384	07/20/2011	14:53:04	0.068
385	07/20/2011	14:54:04	0.059
386	07/20/2011	14:55:04	0.058
387	07/20/2011	14:56:04	0.066
388	07/20/2011	14:57:04	0.058
389	07/20/2011	14:58:04	0.063
390	07/20/2011	14:59:04	0.058
391	07/20/2011	15:00:04	0.059
392	07/20/2011	15:01:04	0.058
393	07/20/2011	15:02:04	0.056
394	07/20/2011	15:03:04	0.055
395	07/20/2011	15:04:04	0.058
396	07/20/2011	15:05:04	0.055
397	07/20/2011	15:06:04	0.056
398	07/20/2011	15:07:04	0.055
399	07/20/2011	15:08:04	0.056
400	07/20/2011	15:09:04	0.055
401	07/20/2011	15:10:04	0.054
402	07/20/2011	15:11:04	0.055
403	07/20/2011	15:12:04	0.054
404	07/20/2011	15:13:04	0.055
405	07/20/2011	15:14:04	0.054
406	07/20/2011	15:15:04	0.056
407	07/20/2011	15:16:04	0.054
408	07/20/2011	15:17:04	0.054
409	07/20/2011	15:18:04	0.056
410	07/20/2011	15:19:04	0.053
411	07/20/2011	15:20:04	0.054
412	07/20/2011	15:21:04	0.055
413	07/20/2011	15:22:04	0.074
414	07/20/2011	15:23:04	0.061
415	07/20/2011	15:24:04	0.062
416	07/20/2011	15:25:04	0.059
417	07/20/2011	15:26:04	0.054
418	07/20/2011	15:27:04	0.053
419	07/20/2011	15:28:04	0.056
420	07/20/2011	15:29:04	0.053
421	07/20/2011	15:30:04	0.053
422	07/20/2011	15:31:04	0.054
423	07/20/2011	15:32:04	0.053
424	07/20/2011	15:33:04	0.054
425	07/20/2011	15:34:04	0.091
426	07/20/2011	15:35:04	0.082
427	07/20/2011	15:36:04	0.073
428	07/20/2011	15:37:04	0.067

Test Data			
Sample	Date	Time	Aerosol mg/m^3
429	07/20/2011	15:38:04	0.057
430	07/20/2011	15:39:04	0.057
431	07/20/2011	15:40:04	0.055
432	07/20/2011	15:41:04	0.056
433	07/20/2011	15:42:04	0.057
434	07/20/2011	15:43:04	0.055
435	07/20/2011	15:44:04	0.056

Test 002

Instrument		Data Properties	
Model	Dust Trak	Start Date	07/20/2011
Meter S/N	85202283	Start Time	08:31:15
		Stop Date	07/20/2011
		Stop Time	15:38:15
		Total Time	0:07:07:00
		Logging Interval	60 seconds

Statistics	
	Aerosol
Ave	0.045 mg/m^3
Max	0.094 mg/m^3
Max Date	07/20/2011
Max Time	10:53:15
Min	0.032 mg/m^3
Min Date	07/20/2011
Min Time	13:56:15
TWA (8 hr)	0.040
TWA Start Date	07/20/2011
TWA Start Time	08:31:15
TWA End Time	15:38:15

Test 002

Instrument		Data Properties	
Model	Dust Trak	Start Date	07/20/2011
Meter S/N	85202283	Start Time	08:31:15
		Stop Date	07/20/2011
		Stop Time	15:38:15
		Total Time	0:07:07:00
		Logging Interval	60 seconds

Test Data			
Sample	Date	Time	Aerosol mg/m^3
1	07/20/2011	08:32:15	0.059
2	07/20/2011	08:33:15	0.061
3	07/20/2011	08:34:15	0.062
4	07/20/2011	08:35:15	0.061
5	07/20/2011	08:36:15	0.059
6	07/20/2011	08:37:15	0.059
7	07/20/2011	08:38:15	0.059
8	07/20/2011	08:39:15	0.059
9	07/20/2011	08:40:15	0.060
10	07/20/2011	08:41:15	0.060
11	07/20/2011	08:42:15	0.060
12	07/20/2011	08:43:15	0.058
13	07/20/2011	08:44:15	0.056
14	07/20/2011	08:45:15	0.057
15	07/20/2011	08:46:15	0.057
16	07/20/2011	08:47:15	0.058
17	07/20/2011	08:48:15	0.056
18	07/20/2011	08:49:15	0.056
19	07/20/2011	08:50:15	0.055
20	07/20/2011	08:51:15	0.055
21	07/20/2011	08:52:15	0.054
22	07/20/2011	08:53:15	0.054
23	07/20/2011	08:54:15	0.055
24	07/20/2011	08:55:15	0.055
25	07/20/2011	08:56:15	0.055
26	07/20/2011	08:57:15	0.053
27	07/20/2011	08:58:15	0.053
28	07/20/2011	08:59:15	0.053
29	07/20/2011	09:00:15	0.054
30	07/20/2011	09:01:15	0.056
31	07/20/2011	09:02:15	0.053
32	07/20/2011	09:03:15	0.053
33	07/20/2011	09:04:15	0.053
34	07/20/2011	09:05:15	0.053
35	07/20/2011	09:06:15	0.053
36	07/20/2011	09:07:15	0.052
37	07/20/2011	09:08:15	0.052
38	07/20/2011	09:09:15	0.052
39	07/20/2011	09:10:15	0.051
40	07/20/2011	09:11:15	0.051
41	07/20/2011	09:12:15	0.052
42	07/20/2011	09:13:15	0.051
43	07/20/2011	09:14:15	0.051

Test Data			
Sample	Date	Time	Aerosol mg/m^3
44	07/20/2011	09:15:15	0.050
45	07/20/2011	09:16:15	0.051
46	07/20/2011	09:17:15	0.051
47	07/20/2011	09:18:15	0.050
48	07/20/2011	09:19:15	0.049
49	07/20/2011	09:20:15	0.051
50	07/20/2011	09:21:15	0.052
51	07/20/2011	09:22:15	0.050
52	07/20/2011	09:23:15	0.050
53	07/20/2011	09:24:15	0.050
54	07/20/2011	09:25:15	0.051
55	07/20/2011	09:26:15	0.050
56	07/20/2011	09:27:15	0.050
57	07/20/2011	09:28:15	0.049
58	07/20/2011	09:29:15	0.049
59	07/20/2011	09:30:15	0.049
60	07/20/2011	09:31:15	0.048
61	07/20/2011	09:32:15	0.049
62	07/20/2011	09:33:15	0.048
63	07/20/2011	09:34:15	0.048
64	07/20/2011	09:35:15	0.049
65	07/20/2011	09:36:15	0.048
66	07/20/2011	09:37:15	0.048
67	07/20/2011	09:38:15	0.049
68	07/20/2011	09:39:15	0.049
69	07/20/2011	09:40:15	0.048
70	07/20/2011	09:41:15	0.048
71	07/20/2011	09:42:15	0.048
72	07/20/2011	09:43:15	0.049
73	07/20/2011	09:44:15	0.048
74	07/20/2011	09:45:15	0.047
75	07/20/2011	09:46:15	0.048
76	07/20/2011	09:47:15	0.050
77	07/20/2011	09:48:15	0.048
78	07/20/2011	09:49:15	0.048
79	07/20/2011	09:50:15	0.048
80	07/20/2011	09:51:15	0.048
81	07/20/2011	09:52:15	0.048
82	07/20/2011	09:53:15	0.048
83	07/20/2011	09:54:15	0.049
84	07/20/2011	09:55:15	0.048
85	07/20/2011	09:56:15	0.049
86	07/20/2011	09:57:15	0.049
87	07/20/2011	09:58:15	0.049
88	07/20/2011	09:59:15	0.049
89	07/20/2011	10:00:15	0.048
90	07/20/2011	10:01:15	0.049
91	07/20/2011	10:02:15	0.051
92	07/20/2011	10:03:15	0.050
93	07/20/2011	10:04:15	0.050
94	07/20/2011	10:05:15	0.051
95	07/20/2011	10:06:15	0.052
96	07/20/2011	10:07:15	0.052
97	07/20/2011	10:08:15	0.051
98	07/20/2011	10:09:15	0.052

Test Data			
Sample	Date	Time	Aerosol mg/m^3
99	07/20/2011	10:10:15	0.052
100	07/20/2011	10:11:15	0.052
101	07/20/2011	10:12:15	0.052
102	07/20/2011	10:13:15	0.052
103	07/20/2011	10:14:15	0.051
104	07/20/2011	10:15:15	0.050
105	07/20/2011	10:16:15	0.050
106	07/20/2011	10:17:15	0.049
107	07/20/2011	10:18:15	0.049
108	07/20/2011	10:19:15	0.049
109	07/20/2011	10:20:15	0.050
110	07/20/2011	10:21:15	0.050
111	07/20/2011	10:22:15	0.050
112	07/20/2011	10:23:15	0.050
113	07/20/2011	10:24:15	0.051
114	07/20/2011	10:25:15	0.050
115	07/20/2011	10:26:15	0.050
116	07/20/2011	10:27:15	0.050
117	07/20/2011	10:28:15	0.050
118	07/20/2011	10:29:15	0.051
119	07/20/2011	10:30:15	0.052
120	07/20/2011	10:31:15	0.053
121	07/20/2011	10:32:15	0.055
122	07/20/2011	10:33:15	0.055
123	07/20/2011	10:34:15	0.055
124	07/20/2011	10:35:15	0.056
125	07/20/2011	10:36:15	0.056
126	07/20/2011	10:37:15	0.057
127	07/20/2011	10:38:15	0.058
128	07/20/2011	10:39:15	0.057
129	07/20/2011	10:40:15	0.057
130	07/20/2011	10:41:15	0.057
131	07/20/2011	10:42:15	0.056
132	07/20/2011	10:43:15	0.056
133	07/20/2011	10:44:15	0.055
134	07/20/2011	10:45:15	0.055
135	07/20/2011	10:46:15	0.056
136	07/20/2011	10:47:15	0.055
137	07/20/2011	10:48:15	0.055
138	07/20/2011	10:49:15	0.055
139	07/20/2011	10:50:15	0.054
140	07/20/2011	10:51:15	0.058
141	07/20/2011	10:52:15	0.056
142	07/20/2011	10:53:15	0.094
143	07/20/2011	10:54:15	0.065
144	07/20/2011	10:55:15	0.065
145	07/20/2011	10:56:15	0.068
146	07/20/2011	10:57:15	0.062
147	07/20/2011	10:58:15	0.057
148	07/20/2011	10:59:15	0.054
149	07/20/2011	11:00:15	0.053
150	07/20/2011	11:01:15	0.053
151	07/20/2011	11:02:15	0.055
152	07/20/2011	11:03:15	0.053
153	07/20/2011	11:04:15	0.053

Test Data			
Sample	Date	Time	Aerosol mg/m^3
154	07/20/2011	11:05:15	0.052
155	07/20/2011	11:06:15	0.051
156	07/20/2011	11:07:15	0.050
157	07/20/2011	11:08:15	0.050
158	07/20/2011	11:09:15	0.051
159	07/20/2011	11:10:15	0.052
160	07/20/2011	11:11:15	0.052
161	07/20/2011	11:12:15	0.052
162	07/20/2011	11:13:15	0.054
163	07/20/2011	11:14:15	0.054
164	07/20/2011	11:15:15	0.053
165	07/20/2011	11:16:15	0.052
166	07/20/2011	11:17:15	0.051
167	07/20/2011	11:18:15	0.052
168	07/20/2011	11:19:15	0.050
169	07/20/2011	11:20:15	0.050
170	07/20/2011	11:21:15	0.052
171	07/20/2011	11:22:15	0.051
172	07/20/2011	11:23:15	0.050
173	07/20/2011	11:24:15	0.050
174	07/20/2011	11:25:15	0.051
175	07/20/2011	11:26:15	0.051
176	07/20/2011	11:27:15	0.050
177	07/20/2011	11:28:15	0.050
178	07/20/2011	11:29:15	0.050
179	07/20/2011	11:30:15	0.048
180	07/20/2011	11:31:15	0.049
181	07/20/2011	11:32:15	0.047
182	07/20/2011	11:33:15	0.048
183	07/20/2011	11:34:15	0.048
184	07/20/2011	11:35:15	0.048
185	07/20/2011	11:36:15	0.047
186	07/20/2011	11:37:15	0.048
187	07/20/2011	11:38:15	0.048
188	07/20/2011	11:39:15	0.047
189	07/20/2011	11:40:15	0.047
190	07/20/2011	11:41:15	0.048
191	07/20/2011	11:42:15	0.048
192	07/20/2011	11:43:15	0.046
193	07/20/2011	11:44:15	0.047
194	07/20/2011	11:45:15	0.047
195	07/20/2011	11:46:15	0.047
196	07/20/2011	11:47:15	0.047
197	07/20/2011	11:48:15	0.045
198	07/20/2011	11:49:15	0.047
199	07/20/2011	11:50:15	0.045
200	07/20/2011	11:51:15	0.046
201	07/20/2011	11:52:15	0.046
202	07/20/2011	11:53:15	0.046
203	07/20/2011	11:54:15	0.045
204	07/20/2011	11:55:15	0.047
205	07/20/2011	11:56:15	0.046
206	07/20/2011	11:57:15	0.046
207	07/20/2011	11:58:15	0.045
208	07/20/2011	11:59:15	0.046

Test Data			
Sample	Date	Time	Aerosol mg/m^3
209	07/20/2011	12:00:15	0.047
210	07/20/2011	12:01:15	0.047
211	07/20/2011	12:02:15	0.047
212	07/20/2011	12:03:15	0.046
213	07/20/2011	12:04:15	0.046
214	07/20/2011	12:05:15	0.047
215	07/20/2011	12:06:15	0.047
216	07/20/2011	12:07:15	0.046
217	07/20/2011	12:08:15	0.047
218	07/20/2011	12:09:15	0.047
219	07/20/2011	12:10:15	0.047
220	07/20/2011	12:11:15	0.048
221	07/20/2011	12:12:15	0.049
222	07/20/2011	12:13:15	0.048
223	07/20/2011	12:14:15	0.048
224	07/20/2011	12:15:15	0.049
225	07/20/2011	12:16:15	0.048
226	07/20/2011	12:17:15	0.049
227	07/20/2011	12:18:15	0.050
228	07/20/2011	12:19:15	0.052
229	07/20/2011	12:20:15	0.049
230	07/20/2011	12:21:15	0.049
231	07/20/2011	12:22:15	0.048
232	07/20/2011	12:23:15	0.047
233	07/20/2011	12:24:15	0.046
234	07/20/2011	12:25:15	0.047
235	07/20/2011	12:26:15	0.046
236	07/20/2011	12:27:15	0.047
237	07/20/2011	12:28:15	0.046
238	07/20/2011	12:29:15	0.045
239	07/20/2011	12:30:15	0.044
240	07/20/2011	12:31:15	0.042
241	07/20/2011	12:32:15	0.042
242	07/20/2011	12:33:15	0.040
243	07/20/2011	12:34:15	0.040
244	07/20/2011	12:35:15	0.040
245	07/20/2011	12:36:15	0.039
246	07/20/2011	12:37:15	0.039
247	07/20/2011	12:38:15	0.039
248	07/20/2011	12:39:15	0.040
249	07/20/2011	12:40:15	0.042
250	07/20/2011	12:41:15	0.040
251	07/20/2011	12:42:15	0.041
252	07/20/2011	12:43:15	0.041
253	07/20/2011	12:44:15	0.041
254	07/20/2011	12:45:15	0.043
255	07/20/2011	12:46:15	0.041
256	07/20/2011	12:47:15	0.043
257	07/20/2011	12:48:15	0.042
258	07/20/2011	12:49:15	0.040
259	07/20/2011	12:50:15	0.041
260	07/20/2011	12:51:15	0.040
261	07/20/2011	12:52:15	0.041
262	07/20/2011	12:53:15	0.042
263	07/20/2011	12:54:15	0.041

Test Data			
Sample	Date	Time	Aerosol mg/m^3
264	07/20/2011	12:55:15	0.042
265	07/20/2011	12:56:15	0.040
266	07/20/2011	12:57:15	0.040
267	07/20/2011	12:58:15	0.041
268	07/20/2011	12:59:15	0.039
269	07/20/2011	13:00:15	0.038
270	07/20/2011	13:01:15	0.038
271	07/20/2011	13:02:15	0.038
272	07/20/2011	13:03:15	0.039
273	07/20/2011	13:04:15	0.038
274	07/20/2011	13:05:15	0.037
275	07/20/2011	13:06:15	0.040
276	07/20/2011	13:07:15	0.040
277	07/20/2011	13:08:15	0.037
278	07/20/2011	13:09:15	0.036
279	07/20/2011	13:10:15	0.036
280	07/20/2011	13:11:15	0.037
281	07/20/2011	13:12:15	0.036
282	07/20/2011	13:13:15	0.035
283	07/20/2011	13:14:15	0.036
284	07/20/2011	13:15:15	0.036
285	07/20/2011	13:16:15	0.036
286	07/20/2011	13:17:15	0.037
287	07/20/2011	13:18:15	0.036
288	07/20/2011	13:19:15	0.037
289	07/20/2011	13:20:15	0.036
290	07/20/2011	13:21:15	0.036
291	07/20/2011	13:22:15	0.037
292	07/20/2011	13:23:15	0.037
293	07/20/2011	13:24:15	0.037
294	07/20/2011	13:25:15	0.036
295	07/20/2011	13:26:15	0.037
296	07/20/2011	13:27:15	0.036
297	07/20/2011	13:28:15	0.036
298	07/20/2011	13:29:15	0.036
299	07/20/2011	13:30:15	0.035
300	07/20/2011	13:31:15	0.036
301	07/20/2011	13:32:15	0.035
302	07/20/2011	13:33:15	0.036
303	07/20/2011	13:34:15	0.035
304	07/20/2011	13:35:15	0.036
305	07/20/2011	13:36:15	0.036
306	07/20/2011	13:37:15	0.035
307	07/20/2011	13:38:15	0.036
308	07/20/2011	13:39:15	0.036
309	07/20/2011	13:40:15	0.036
310	07/20/2011	13:41:15	0.036
311	07/20/2011	13:42:15	0.036
312	07/20/2011	13:43:15	0.036
313	07/20/2011	13:44:15	0.035
314	07/20/2011	13:45:15	0.036
315	07/20/2011	13:46:15	0.034
316	07/20/2011	13:47:15	0.034
317	07/20/2011	13:48:15	0.034
318	07/20/2011	13:49:15	0.035

Test Data			
Sample	Date	Time	Aerosol mg/m^3
319	07/20/2011	13:50:15	0.036
320	07/20/2011	13:51:15	0.035
321	07/20/2011	13:52:15	0.035
322	07/20/2011	13:53:15	0.033
323	07/20/2011	13:54:15	0.033
324	07/20/2011	13:55:15	0.033
325	07/20/2011	13:56:15	0.032
326	07/20/2011	13:57:15	0.032
327	07/20/2011	13:58:15	0.033
328	07/20/2011	13:59:15	0.032
329	07/20/2011	14:00:15	0.033
330	07/20/2011	14:01:15	0.032
331	07/20/2011	14:02:15	0.033
332	07/20/2011	14:03:15	0.033
333	07/20/2011	14:04:15	0.036
334	07/20/2011	14:05:15	0.034
335	07/20/2011	14:06:15	0.035
336	07/20/2011	14:07:15	0.034
337	07/20/2011	14:08:15	0.035
338	07/20/2011	14:09:15	0.036
339	07/20/2011	14:10:15	0.035
340	07/20/2011	14:11:15	0.034
341	07/20/2011	14:12:15	0.037
342	07/20/2011	14:13:15	0.040
343	07/20/2011	14:14:15	0.039
344	07/20/2011	14:15:15	0.040
345	07/20/2011	14:16:15	0.039
346	07/20/2011	14:17:15	0.038
347	07/20/2011	14:18:15	0.037
348	07/20/2011	14:19:15	0.036
349	07/20/2011	14:20:15	0.036
350	07/20/2011	14:21:15	0.036
351	07/20/2011	14:22:15	0.036
352	07/20/2011	14:23:15	0.036
353	07/20/2011	14:24:15	0.036
354	07/20/2011	14:25:15	0.035
355	07/20/2011	14:26:15	0.035
356	07/20/2011	14:27:15	0.035
357	07/20/2011	14:28:15	0.034
358	07/20/2011	14:29:15	0.035
359	07/20/2011	14:30:15	0.037
360	07/20/2011	14:31:15	0.036
361	07/20/2011	14:32:15	0.035
362	07/20/2011	14:33:15	0.036
363	07/20/2011	14:34:15	0.036
364	07/20/2011	14:35:15	0.036
365	07/20/2011	14:36:15	0.036
366	07/20/2011	14:37:15	0.036
367	07/20/2011	14:38:15	0.036
368	07/20/2011	14:39:15	0.036
369	07/20/2011	14:40:15	0.036
370	07/20/2011	14:41:15	0.036
371	07/20/2011	14:42:15	0.037
372	07/20/2011	14:43:15	0.036
373	07/20/2011	14:44:15	0.037

Test Data			
Sample	Date	Time	Aerosol mg/m^3
374	07/20/2011	14:45:15	0.037
375	07/20/2011	14:46:15	0.036
376	07/20/2011	14:47:15	0.036
377	07/20/2011	14:48:15	0.036
378	07/20/2011	14:49:15	0.037
379	07/20/2011	14:50:15	0.037
380	07/20/2011	14:51:15	0.037
381	07/20/2011	14:52:15	0.037
382	07/20/2011	14:53:15	0.038
383	07/20/2011	14:54:15	0.037
384	07/20/2011	14:55:15	0.036
385	07/20/2011	14:56:15	0.035
386	07/20/2011	14:57:15	0.035
387	07/20/2011	14:58:15	0.035
388	07/20/2011	14:59:15	0.037
389	07/20/2011	15:00:15	0.036
390	07/20/2011	15:01:15	0.034
391	07/20/2011	15:02:15	0.035
392	07/20/2011	15:03:15	0.036
393	07/20/2011	15:04:15	0.034
394	07/20/2011	15:05:15	0.034
395	07/20/2011	15:06:15	0.034
396	07/20/2011	15:07:15	0.035
397	07/20/2011	15:08:15	0.034
398	07/20/2011	15:09:15	0.034
399	07/20/2011	15:10:15	0.035
400	07/20/2011	15:11:15	0.034
401	07/20/2011	15:12:15	0.034
402	07/20/2011	15:13:15	0.032
403	07/20/2011	15:14:15	0.033
404	07/20/2011	15:15:15	0.033
405	07/20/2011	15:16:15	0.033
406	07/20/2011	15:17:15	0.034
407	07/20/2011	15:18:15	0.033
408	07/20/2011	15:19:15	0.032
409	07/20/2011	15:20:15	0.033
410	07/20/2011	15:21:15	0.034
411	07/20/2011	15:22:15	0.035
412	07/20/2011	15:23:15	0.034
413	07/20/2011	15:24:15	0.035
414	07/20/2011	15:25:15	0.034
415	07/20/2011	15:26:15	0.034
416	07/20/2011	15:27:15	0.033
417	07/20/2011	15:28:15	0.032
418	07/20/2011	15:29:15	0.032
419	07/20/2011	15:30:15	0.033
420	07/20/2011	15:31:15	0.034
421	07/20/2011	15:32:15	0.033
422	07/20/2011	15:33:15	0.032
423	07/20/2011	15:34:15	0.032
424	07/20/2011	15:35:15	0.032
425	07/20/2011	15:36:15	0.032
426	07/20/2011	15:37:15	0.032
427	07/20/2011	15:38:15	0.033

Test 003

Instrument		Data Properties	
Model	Dust Trak	Start Date	07/21/2011
Meter S/N	85202283	Start Time	08:22:10
		Stop Date	07/21/2011
		Stop Time	10:54:10
		Total Time	0:02:32:00
		Logging Interval	60 seconds

Statistics	
	Aerosol
Ave	0.054 mg/m^3
Max	0.188 mg/m^3
Max Date	07/21/2011
Max Time	08:55:10
Min	0.042 mg/m^3
Min Date	07/21/2011
Min Time	09:16:10
TWA (8 hr)	0.017
TWA Start Date	07/21/2011
TWA Start Time	08:22:10
TWA End Time	10:54:10

Test 003

Instrument		Data Properties	
Model	Dust Trak	Start Date	07/21/2011
Meter S/N	85202283	Start Time	08:22:10
		Stop Date	07/21/2011
		Stop Time	10:54:10
		Total Time	0:02:32:00
		Logging Interval	60 seconds

Test Data			
Sample	Date	Time	Aerosol mg/m^3
1	07/21/2011	08:23:10	0.047
2	07/21/2011	08:24:10	0.047
3	07/21/2011	08:25:10	0.047
4	07/21/2011	08:26:10	0.048
5	07/21/2011	08:27:10	0.049
6	07/21/2011	08:28:10	0.051
7	07/21/2011	08:29:10	0.048
8	07/21/2011	08:30:10	0.049
9	07/21/2011	08:31:10	0.059
10	07/21/2011	08:32:10	0.053
11	07/21/2011	08:33:10	0.057
12	07/21/2011	08:34:10	0.058
13	07/21/2011	08:35:10	0.054
14	07/21/2011	08:36:10	0.053
15	07/21/2011	08:37:10	0.056
16	07/21/2011	08:38:10	0.054
17	07/21/2011	08:39:10	0.054
18	07/21/2011	08:40:10	0.047
19	07/21/2011	08:41:10	0.048
20	07/21/2011	08:42:10	0.045
21	07/21/2011	08:43:10	0.058
22	07/21/2011	08:44:10	0.056
23	07/21/2011	08:45:10	0.052
24	07/21/2011	08:46:10	0.051
25	07/21/2011	08:47:10	0.045
26	07/21/2011	08:48:10	0.049
27	07/21/2011	08:49:10	0.045
28	07/21/2011	08:50:10	0.047
29	07/21/2011	08:51:10	0.049
30	07/21/2011	08:52:10	0.066
31	07/21/2011	08:53:10	0.074
32	07/21/2011	08:54:10	0.072
33	07/21/2011	08:55:10	0.188
34	07/21/2011	08:56:10	0.078
35	07/21/2011	08:57:10	0.071
36	07/21/2011	08:58:10	0.079
37	07/21/2011	08:59:10	0.118
38	07/21/2011	09:00:10	0.083
39	07/21/2011	09:01:10	0.055
40	07/21/2011	09:02:10	0.052
41	07/21/2011	09:03:10	0.048
42	07/21/2011	09:04:10	0.047
43	07/21/2011	09:05:10	0.056

Test Data			
Sample	Date	Time	Aerosol mg/m^3
44	07/21/2011	09:06:10	0.049
45	07/21/2011	09:07:10	0.053
46	07/21/2011	09:08:10	0.044
47	07/21/2011	09:09:10	0.054
48	07/21/2011	09:10:10	0.046
49	07/21/2011	09:11:10	0.047
50	07/21/2011	09:12:10	0.043
51	07/21/2011	09:13:10	0.043
52	07/21/2011	09:14:10	0.047
53	07/21/2011	09:15:10	0.044
54	07/21/2011	09:16:10	0.042
55	07/21/2011	09:17:10	0.046
56	07/21/2011	09:18:10	0.044
57	07/21/2011	09:19:10	0.047
58	07/21/2011	09:20:10	0.052
59	07/21/2011	09:21:10	0.050
60	07/21/2011	09:22:10	0.066
61	07/21/2011	09:23:10	0.045
62	07/21/2011	09:24:10	0.044
63	07/21/2011	09:25:10	0.047
64	07/21/2011	09:26:10	0.045
65	07/21/2011	09:27:10	0.043
66	07/21/2011	09:28:10	0.048
67	07/21/2011	09:29:10	0.044
68	07/21/2011	09:30:10	0.053
69	07/21/2011	09:31:10	0.043
70	07/21/2011	09:32:10	0.046
71	07/21/2011	09:33:10	0.042
72	07/21/2011	09:34:10	0.050
73	07/21/2011	09:35:10	0.059
74	07/21/2011	09:36:10	0.047
75	07/21/2011	09:37:10	0.048
76	07/21/2011	09:38:10	0.045
77	07/21/2011	09:39:10	0.047
78	07/21/2011	09:40:10	0.046
79	07/21/2011	09:41:10	0.121
80	07/21/2011	09:42:10	0.065
81	07/21/2011	09:43:10	0.046
82	07/21/2011	09:44:10	0.069
83	07/21/2011	09:45:10	0.043
84	07/21/2011	09:46:10	0.046
85	07/21/2011	09:47:10	0.071
86	07/21/2011	09:48:10	0.044
87	07/21/2011	09:49:10	0.042
88	07/21/2011	09:50:10	0.042
89	07/21/2011	09:51:10	0.042
90	07/21/2011	09:52:10	0.045
91	07/21/2011	09:53:10	0.177
92	07/21/2011	09:54:10	0.068
93	07/21/2011	09:55:10	0.055
94	07/21/2011	09:56:10	0.048
95	07/21/2011	09:57:10	0.049
96	07/21/2011	09:58:10	0.044
97	07/21/2011	09:59:10	0.054
98	07/21/2011	10:00:10	0.051

Test Data			
Sample	Date	Time	Aerosol mg/m^3
99	07/21/2011	10:01:10	0.044
100	07/21/2011	10:02:10	0.049
101	07/21/2011	10:03:10	0.046
102	07/21/2011	10:04:10	0.047
103	07/21/2011	10:05:10	0.048
104	07/21/2011	10:06:10	0.045
105	07/21/2011	10:07:10	0.047
106	07/21/2011	10:08:10	0.044
107	07/21/2011	10:09:10	0.070
108	07/21/2011	10:10:10	0.060
109	07/21/2011	10:11:10	0.058
110	07/21/2011	10:12:10	0.056
111	07/21/2011	10:13:10	0.060
112	07/21/2011	10:14:10	0.046
113	07/21/2011	10:15:10	0.052
114	07/21/2011	10:16:10	0.051
115	07/21/2011	10:17:10	0.054
116	07/21/2011	10:18:10	0.053
117	07/21/2011	10:19:10	0.055
118	07/21/2011	10:20:10	0.057
119	07/21/2011	10:21:10	0.047
120	07/21/2011	10:22:10	0.046
121	07/21/2011	10:23:10	0.049
122	07/21/2011	10:24:10	0.047
123	07/21/2011	10:25:10	0.045
124	07/21/2011	10:26:10	0.049
125	07/21/2011	10:27:10	0.049
126	07/21/2011	10:28:10	0.055
127	07/21/2011	10:29:10	0.055
128	07/21/2011	10:30:10	0.046
129	07/21/2011	10:31:10	0.052
130	07/21/2011	10:32:10	0.044
131	07/21/2011	10:33:10	0.044
132	07/21/2011	10:34:10	0.044
133	07/21/2011	10:35:10	0.050
134	07/21/2011	10:36:10	0.044
135	07/21/2011	10:37:10	0.044
136	07/21/2011	10:38:10	0.046
137	07/21/2011	10:39:10	0.055
138	07/21/2011	10:40:10	0.055
139	07/21/2011	10:41:10	0.050
140	07/21/2011	10:42:10	0.051
141	07/21/2011	10:43:10	0.049
142	07/21/2011	10:44:10	0.129
143	07/21/2011	10:45:10	0.070
144	07/21/2011	10:46:10	0.059
145	07/21/2011	10:47:10	0.049
146	07/21/2011	10:48:10	0.055
147	07/21/2011	10:49:10	0.052
148	07/21/2011	10:50:10	0.049
149	07/21/2011	10:51:10	0.054
150	07/21/2011	10:52:10	0.046
151	07/21/2011	10:53:10	0.045
152	07/21/2011	10:54:10	0.047

Test 003

Instrument		Data Properties	
Model	Dust Trak	Start Date	07/21/2011
Meter S/N	85202282	Start Time	08:32:56
		Stop Date	07/21/2011
		Stop Time	08:47:56
		Total Time	0:00:15:00
		Logging Interval	60 seconds

Statistics	
	Aerosol
Ave	0.052 mg/m^3
Max	0.061 mg/m^3
Max Date	07/21/2011
Max Time	08:43:56
Min	0.050 mg/m^3
Min Date	07/21/2011
Min Time	08:40:56
TWA (8 hr)	0.002
TWA Start Date	07/21/2011
TWA Start Time	08:32:56
TWA End Time	08:47:56

Test 003

Instrument		Data Properties	
Model	Dust Trak	Start Date	07/21/2011
Meter S/N	85202282	Start Time	08:32:56
		Stop Date	07/21/2011
		Stop Time	08:47:56
		Total Time	0:00:15:00
		Logging Interval	60 seconds

Test Data			
Sample	Date	Time	Aerosol mg/m^3
1	07/21/2011	08:33:56	0.054
2	07/21/2011	08:34:56	0.052
3	07/21/2011	08:35:56	0.051
4	07/21/2011	08:36:56	0.053
5	07/21/2011	08:37:56	0.052
6	07/21/2011	08:38:56	0.051
7	07/21/2011	08:39:56	0.051
8	07/21/2011	08:40:56	0.050
9	07/21/2011	08:41:56	0.052
10	07/21/2011	08:42:56	0.058
11	07/21/2011	08:43:56	0.061
12	07/21/2011	08:44:56	0.050
13	07/21/2011	08:45:56	0.050
14	07/21/2011	08:46:56	0.051
15	07/21/2011	08:47:56	0.051

Appendix F
FWRIA Decision Key

Appendix 3C Fish and Wildlife Resources Impact Analysis Decision Key	If YES Go to:	If NO Go to:
1. Is the site or area of concern a discharge or spill event?	13	2
2. Is the site or area of concern a point source of contamination to the groundwater which will be prevented from discharging to surface water? Soil contamination is not widespread, or if widespread, is confined under buildings and paved areas.	13	3
3. Is the site and all adjacent property a developed area with buildings, paved surfaces and little or no vegetation?	4	9
4. Does the site contain habitat of an endangered, threatened or special concern species?	Section 3.10.1	5
5. Has the contamination gone off-site?	6	14
6. Is there any discharge or erosion of contamination to surface water or the potential for discharge or erosion of contamination?	7	14
7. Are the site contaminants PCBs, pesticides or other persistent, bioaccumulable substances?	Section 3.10.1	8
8. Does contamination exist at concentrations that could exceed ecological impact SCGs or be toxic to aquatic life if discharged to surface water?	Section 3.10.1	14
9. Does the site or any adjacent or downgradient property contain any of the following resources? i. Any endangered, threatened or special concern species or rare plants or their habitat ii. Any DEC designated significant habitats or rare NYS Ecological Communities iii. Tidal or freshwater wetlands iv. Stream, creek or river v. Pond, lake, lagoon vi. Drainage ditch or channel vii. Other surface water feature viii. Other marine or freshwater habitat ix. Forest x. Grassland or grassy field xi. Parkland or woodland xii. Shrubby area xiii. Urban wildlife habitat xiv. Other terrestrial habitat	11	10
10. Is the lack of resources due to the contamination?	3.10.1	14
11. Is the contamination a localized source which has not migrated and will not migrate from the source to impact any on-site or off-site resources?	14	12
12. Does the site have widespread surface soil contamination that is not confined under and around buildings or paved areas?	Section 3.10.1	12
13. Does the contamination at the site or area of concern have the potential to migrate to, erode into or otherwise impact any on-site or off-site habitat of endangered, threatened or special concern species or other fish and wildlife resource? (See #9 for list of potential resources. Contact DEC for information regarding endangered species.)	Section 3.10.1	14
14. No Fish and Wildlife Resources Impact Analysis needed.		

Appendix G
DUSR

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PROFESSIONAL EXPERIENCE

Data Validation / Usability Client List – NYS DEC ASP Client List

From 2009	MACTEC
From 2008	HRP Associates
From 2008	AECON
From 2007	Earth Tech, Inc.
From 2006	EA Engineering
From 2006	CDM, Inc.
From 2005	H2M, Inc.
From 2004	GEI Consultants
From 2003	Vanasse Hangen Brustlin, Inc
From 2000	O'Brien & Gere, Syracuse, NY
From 2000	EPM, Lake Success, NY
From 1998	IT International Technology Corporation / Shaw Environmental, New Jersey
From 1997	Cluogh Harbour and Associates
From 1997	Roux Associates, Islandia, New York
From 1996	Lawler, Matusky and Skelly Enngineers, Pearl River, NY
From 1996	ABB, Portland Maine
From 1996	Malcolm Pirnie, Buffalo, Albany, New York
From 1995	AKRF Associates, New York, New York
From 1992	Dvirka & Bartilucci, Woodbury, New York
From 1992	Eckenfelder, Inc., Mahwah, New Jersey
From 1991	C&S Engineering, Liverpool, New York

1989 - 1993 **EDER ASSOCIATES**, Locust Valley, New York

Perform independent third party data validations for NY CLP projects.

Review analytical data from projects in several states for appropriate methodology, detection limits, and quality assurance practices.

Compose laboratory analytical contracts detailing methods, deliverables and laboratory quality assurance requirements.

Advise on potential analytical problems which may be encountered at specific sites.

1988 -1993 **WOODWARD CLYDE CONSULTANTS,** Wayne, New Jersey

Perform independent third party data validation for CLP analyses of all samples collected for the Pelham Bay Landfill.

Design data validation documentation for dioxin and furan analyses.

1989 - 1990 **SMC MARTIN**, Valley Forge, PA

Perform independent data validations for the New Jersey CLP program.

1987 - 1988 **KILLAM ASSOCIATES**, Millburn, New Jersey
Laboratory Director
Supervise a staff of 14 chemists and technicians in methodologies for GC/MS, GC, and inorganic analyses.
Responsible for the quality of all data and the final review of all analytical reports produced by the laboratory.
Developed the laboratory quality assurance program
Responsible for the hiring of all technical and administrative personnel.

1982 - 1987 **GENERAL TESTING CORPORATION**, Hackensack, NJ
Laboratory Director, 1986 through 1987
Coordinate all analytical and field projects originating in the New York metropolitan area involving water quality analyses, site investigation, and industrial monitoring.

Laboratory Manager, 1983 - 1986
Hired, trained, and evaluated all technical personnel.
Directly responsible for all data originating at the New Jersey laboratory.
Extensive experience in all aspects of large scale water quality monitoring studies.

1982 **HUDSONIA**, Annandale, NY
Consultant
Assisted in a study to determine the feasibility of the use of apple cider wastes as a soil amendment and fuel.

HUDSON RIVER SLOOP CLEARWATER, Poughkeepsie, NY
Consultant
Studied the effectiveness of the NY SPDES program. Examined the engineering files of the major dischargers in the Hudson River valley to determine the reasons for permit violations.

1981 **LAWLER, MATUSKY, AND SKELLY ENGINEERS**, Pearl River, NY
Analyst: Performed wet chemical analyses for environmental monitoring.

1977 - 1979 **UNIVERSITY OF GEORGIA**, Athens, GA
Research assistant in several projects involving soil and water chemistry. Extensive experience in inorganic analyses.

1972 - 1976 **UNIVERSITY OF MASSACHUSETTS**, Amherst, MA
Assisted in experiments designed to study the effects of sludge on plant growth and heavy metal uptake. Performed all of the inorganics analyses for the project.

EDUCATION

University of Massachusetts, Amherst, MA
B.S. - Plant and Soil Sciences, Honors Program, 1976

University of Georgia, Athens, GA
Graduate work in environmental chemistry and ecology

DATA USABILITY SUMMARY REPORT
Sewells Island

Water Semivolatile Organic Analyses by Method SW846 8260B
Samples Collected: December 3, 2008
Samples Received at Test America on December 5, 2008
Sample Delivery Group: G2271
Laboratory Reference Numbers:

Field Sample ID	Lab Sample ID
SI-MW1-01	G2271-01
SI-MW2S-01	G2271-02
SI-MW2D-01-D	G2271-03
SI-MW2D-01	G2271-04
SI-MW3-01	G2271-05
SI-MW4-01	G2271-06
SI-MW5-01	G2271-07
SI-MW6-01	G2271-08
SI-MW6-01 MS	G2271-08MS
SI-MW6-01 MSD	G2271-08MSD
SI-MW7-01	G2271-09
SI-MW8-01	G2271-10

Water samples were validated for analyses of semivolatile organics by the US EPA Region II data validation SOP (HW-25, Revision 3, 2006). Data were reviewed for usability according to the following criteria:

* - Data Completeness
* - GC/MS Tuning
* - Holding Times
- Calibrations
- Laboratory Blanks
- Surrogate Compound Recoveries
* - Internal Standard Recoveries
- Matrix Spike
- Laboratory Control Samples
* - Compound Identification
* - Compound Quantitation

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

The problems with the surrogate recoveries, matrix spike, laboratory control samples and calibrations should be noted. These are discussed in detail below.

Holding Times

All of the samples were extracted and analyzed within the required holding times.

Tunes

No problems were detected with the tunes associated with the samples of this delivery group.

Surrogate Compound Recoveries

Surrogate recovery: recoveries were within the QC limits with the exception of terphenyl-d14 in samples S1-MW2S-01 (33%) and S1-MW3-01 (30%).

The NYS DEC ASP protocols allow for one surrogate in each fraction to be outside of the quality control limits (at long as the recovery is greater than 10%).

All other surrogate compound recoveries were within the quality assurance limits.

Calibrations

All of the %RSDs in the 12/14 initial calibration associated with all of the samples were less than 15% with the exceptions of hexachlorocyclopentadiene (28%), 2,4-dinitrophenol (23%), 4,6-dinitro-2-methylphenol (18%) and pentachlorophenol (19%).

None of these compounds were detected in any of the associated samples and the high %RSDs do not affect the use of the data.

All of the percent differences in the 12/18 continuing calibration associated with the following samples were less than 20% with the exceptions of 2,4-dinitrophenol (23%) and pentachlorophenol (48%):

SI-MW1-01	G2271-01
SI-MW2S-01	G2271-02
SI-MW2D-01-D	G2271-03
SI-MW2D-01	G2271-04
SI-MW3-01	G2271-05
SI-MW4-01	G2271-06
SI-MW5-01	G2271-07
SI-MW6-01	G2271-08

All of the percent differences in the 12/19 continuing calibration associated with the following samples were less than 20% with the exception of pentachlorophenol (24%):

SI-MW6-01 MS	G2271-08MS
SI-MW6-01 MSD	G2271-08MSD
SI-MW7-01	G2271-09
SI-MW8-01	G2271-10

The data for these compounds were flagged with the “J” qualifier and are estimated values.

All of the relative response factors (rrfs) were greater than 0.05.

Matrix Spike

Sample SI-MW6-01 (G2271-08) was used as the matrix spike and matrix spike duplicate. All of the recoveries and RPDs were within the required limits with the following exception:

Compound	MS	MSD	RPD
2,4-Dimethylphenol	16%	8%	67%

The data for 2,4-dimethylphenol were flagged with the “R” qualifier and technically rejected since the recovery was less than 10%. This compound was not detected in any of the samples.

Laboratory Control Samples

All of the laboratory control samples were within the required limits in the laboratory control sample associated with the analysis of all of the samples with the exception of 2,4-dimethylphenol (27%).

The data for this compound were previously flagged with the “R” qualifier due to the low matrix spike recovery.

Method Blanks

No target compounds were detected in any of the method blanks.

Three non-target compounds were found. These were not reviewed during the validation.

Internal Standard Areas and Retention Times

The areas and retention times of all internal standards were within the required quality control limits.

Sample Results

No problems were detected with any of the samples.

SUMMARY OF THE ANALYTICAL DATA VALIDATION
Sewells Island

Water PCB Analyses
Samples Collected: December 3, 2008
Samples Received at Test America on December 5, 2008
Sample Delivery Group: G2271
Laboratory Reference Numbers:

Field Sample ID	Lab Sample ID
SI-MW1-01	G2271-01
SI-MW2S-01	G2271-02
SI-MW2D-01-D	G2271-03
SI-MW2D-01	G2271-04
SI-MW3-01	G2271-05
SI-MW4-01	G2271-06
SI-MW5-01	G2271-07
SI-MW6-01	G2271-08
SI-MW6-01 MS	G2271-08MS
SI-MW6-01 MSD	G2271-08MSD
SI-MW7-01	G2271-09
SI-MW8-01	G2271-10

Water samples were validated for analyses of PCBs by the US EPA Region II data validation SOP (HW-45, Revision 1). Data were reviewed for usability according to the following criteria:

- Data Completeness
* - Holding Times
* - Laboratory Blanks
- Field Blanks
- Surrogate Recoveries
* - Surrogate Retention Times
* - Matrix Spike / Matrix Spike Duplicate
* - Laboratory Control Sample
- Calibrations
* - Method Blanks
- Florisil Cartridge Check
- GPC Calibration
* - Compound Identification

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

Form IX for a florisil cleanup was not included in the data package.

No other significant problems were detected with any of the data.

Holding Times

All extractions and analyses were performed within the required holding times from data of collection.

Surrogate Recoveries

Surrogate recoveries were within the QC limits with the exceptions of DCB on one GC column in samples S1-MW2D-01 (410%), S1-MW3-01 (38%) and the MSD on sample S1-MW6-01 (40%).

The NYS DEC ASP protocols allow for one surrogate in each fraction to be outside of the quality control limits (as long as the recovery is greater than 10%).

All other surrogate compound recoveries were within the quality assurance limits.

Matrix Spike

Sample SI-MW6-01 (G2271-08) was used as the matrix spike and matrix spike duplicate. All of the recoveries and RPDs were within the required limits.

Laboratory Control Samples

All of the laboratory control sample recoveries were within the required limits.

Initial Calibrations

No problems were detected with the initial calibration associated with the analyses of the samples. All %RSDs were less than 20%.

Continuing Calibrations

Several of the percent differences of individual peaks of Aroclors were above 15%.

In all cases, the calibration factor in the continuing calibration was greater than that in the initial calibration.

No PCBs were detected in any of the samples and the high recoveries do not affect the use of the data.

Surrogate Retention Times

All surrogate retention times were within the required limits for both surrogates and on both columns.

GPC Calibration

A GPC cleanup was not performed on these samples.

Method Blanks

No problems were detected with any of the method blanks.

Calibration Blanks

No problems were detected with the calibration blanks associated with this sample delivery group.

Sample Results

Only three peaks were used to determine the presence or absence of PCBs in the samples. Generally five or more peaks are used.

No other problems were detected with the sample data.

SUMMARY OF THE ANALYTICAL DATA VALIDATION
Sewells Island

Total Metals Analyses
Samples Collected: December 3, 2008
Samples Received at Test America on December 5, 2008
Sample Delivery Group: G2271
Laboratory Reference Numbers:

Field Sample ID	Lab Sample ID
SI-MW1-01	G2271-01
SI-MW2S-01	G2271-02
SI-MW2D-01-D	G2271-03
SI-MW2D-01	G2271-04
SI-MW3-01	G2271-05
SI-MW4-01	G2271-06
SI-MW5-01	G2271-07
SI-MW6-01	G2271-08
SI-MW6-01 MS	G2271-08MS
SI-MW6-01 MSD	G2271-08MSD
SI-MW7-01	G2271-09
SI-MW8-01	G2271-10

Water samples were validated for inorganic analyses by the US EPA Region II data validation SOP (HW-2, Revision 13). Data were reviewed for usability according to the following criteria:

* - Data Completeness
* - Holding Times
* - Calibration Verification
  - CRDL Standard
* - Laboratory Control Sample
  - Serial Dilutions
* - Calibration Blanks
  - Field Blanks
* - Preparation Blanks
* - Matrix Spike
* - Matrix Duplicate
  - ICP Interference Check Sample
* - Detection Limit Results
* - Linear Range
* - Sample Results

* - Indicates that all criteria were met for this parameter.

Data Validation Summary

The minor problems with the ICP interference check sample should be noted.

No other problems were found that would affect the use of the data.

Holding Times

All samples were analyzed within the required holding times.

CRDL Standards

CRDL standards were not analyzed.

Initial and Continuing Calibrations

No problems were detected with any of the calibrations associated with this sample delivery group.

Preparation Blank

No compounds were detected in the one preparation blank associated with the digestions of these samples at concentrations above the CRDL. Several analytes were found in the preparation blank at concentrations between the CRDL and instrument detection limit. These very low concentrations are not required to be noted in the data validation summary table.

Calibration Blanks

Several analytes were found in the continuing calibration blanks at concentrations between the CRDL and instrument detection limit. These very low concentrations are not required to be noted in the data validation summary table and do not affect the end use of the data.

Field Blank

A field blank was not analyzed with this sample delivery group.

ICP Interference Check Sample

The recovery of the thallium in the final ICP Interference Check Sample (79%) was just below the 80% quality control limit.

> Thallium was not detected in any of the samples and the thallium data were flagged with the “J” qualifier. It is possible that low concentrations of this analyte may have been overlooked.

No other problems were detected with the reported ICP Interference Check Sample recoveries.

Matrix Spike Recovery

Sample SI-MW6-01 (G2271-08) was used as the matrix spike and matrix spike duplicate. All of the recoveries which could be accurately calculated were within the 75% to 125% quality assurance limits.

Duplicate Analysis

Sample SI-MW6-01 (G2271-08) was used as the matrix duplicate. All of the relative percent differences which could be accurately calculated were less than 20%.

Laboratory Control Sample

No problems were detected with the recoveries of the LCS standards.

Serial Dilutions

Sample SI-MW6-01 (G2271-08) was used as the serial dilution for the soil fraction. All of the relative percent differences which could be accurately calculated were less than 10%.

Instrument Detection Limit

No problems were found with the instrument detection limits.

ICP Linear Ranges

No problems were detected with the linear ranges.

Sample Results

No problems were detected with any of these samples.

DATA USABILITY SUMMARY REPORT
Sewells Island

Soil & Water Volatile Organic Analyses by Method SW846 8260B
Samples Collected: September 9th & 10th, 2008
Samples Received at Test America on September 11th 2008
Sample Delivery Group: G1507 / G1523
Laboratory Reference Numbers:

Field Sample ID	Lab Sample ID	Matrix
SI-TP-W1	G1507-01	Water
SI-SB-RB-01	G1523-01	Water
SI-TP-21 (17.5)	G1523-02	Soil
SI-TP-22 (18)	G1523-03	Soil
SI-TP-23 (5.5)	G1523-04	Soil
SI-TP-24 (12)	G1523-05	Soil
SI-SB-TB1	G1523-06	Water
SI-SB-32 (11-13.9)	G1523-07	Soil
SI-SB-34 (16-22)	G1523-08 ,	Soil
SI-SB-34-D	G1523-09	Soil
SI-SB-31 (12-15.4)	G1523-10	Soil
SI-SB-31 (12-15.4) MS	G1523-10 MS	Soil
SI-SB-31 (12-15.4) MSD	G1523-10 MSD	Soil
SI-SB-33 (10-12.3)	G1523-11	Soil

Soil and water samples were validated for analyses of volatile organics by the US EPA Region II data validation SOP (HW-24, Revision 2, 2008). Data were reviewed for usability according to the following criteria:

* - Data Completeness
* - GC/MS Tuning
* - Holding Times
  - Calibrations
  - Laboratory Blanks
* Trip Blank
* - Surrogate Compound Recoveries
* - Internal Standard Recoveries
  - Matrix Spike
  - Laboratory Control Samples
* - Compound Identification
* - Compound Quantitation

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

The problems with the matrix spike, laboratory control samples, calibrations and method blank should be noted. These are discussed in detail below

Holding Times

All of the samples were analyzed within 14 days of collection.

Tunes

No problems were detected with the tunes associated with the samples of this delivery group.

Surrogate Compound Recoveries

All surrogate compound recoveries were within the quality assurance limits.

Calibrations

Four initial calibrations were analyzed with this sample delivery group.

All of the %RSDs in the 9/03 initial calibration associated with sample SI-TP-W1 (G1507-01) were less than 20% with the exception of 2-butanone (21%).

All of the %RSDs in the 9/18 initial calibration associated with the soil samples were less than 20% with the exceptions of acetone (24%) and 2-hexanone (26%)

The data for these compounds were flagged with the “J” qualifier when detected in an associated sample. High recoveries do not affect undetected data.

All of the percent differences in the 9/10 continuing calibration associated with sample SI-TP-W1 (G1507-01) were less than 20% with the exception of 1,2,3-trichloropropane (36%).

All of the percent differences in the 9/17 continuing calibration associated with sample SI-SB-TB1 (G1523-06) were less than 20% with the exceptions of 2-hexanone (24%) and 1,2,3-trichloropropane (21%).

All of the percent differences in the 9/20 continuing calibration associated with sample SI-SB-RB-01 (G1523-01) were less than 20% with the exceptions of dichlorodifluoromethane (27%) and 1,2,3-trichloropropane (22%).

All of the percent differences in the 9/19 (1:44) continuing calibration associated with the following samples were less than 20% with the exception of acetone (25%):

SI-TP-21 (17.5)	G1523-02
SI-TP-22 (1B)	G1523-03
SI-TP-23 (5.5)	G1523-04
SI-TP-24 (12)	G1523-05
SI-SB-32 (11-13.9)	G1523-07
SI-SB-34 (16-22)	G1523-08
SI-SB-34-D	G1523-09

All of the percent differences in the 9/19 (13:13) continuing calibration associated with the following samples were less than 20% with the exceptions of dichlorodifluoromethane (23%) and chloromethane (23%):

SI-SB-31 (12-15.4)	G1523-10
SI-SB-31 (12-15.4) MS	G1523-10 MS
SI-SB-31 (12-15.4) MSD	G1523-10 MSD
SI-SB-33 (10-12.3)	G1523-11

The data for these compounds were flagged with the “J” qualifier and are estimated values.

All of the relative response factors (rrfs) were greater than 0.05 with the exceptions of acetone and 2-butanone.in all of the calibrations.

Undetected acetone and 2-butanone were flagged with the “J” qualifier and technically rejected.

Detected data were flagged with the “J” qualifier and are estimated values.

Matrix Spike

The laboratory’s in-house QC limits noted on their summary forms were often wider than the 70% - 130% Region 2 limits. The data were validated on the basis of the Region 2 limits.

Soil sample SI-SB-31 (12-15.4) / G1523-10 was used as the matrix spike and matrix spike duplicate. All of the recoveries were within the 70% - 130% limits with the following exceptions:

Compound	**MS**	**MSD**
1,1,2,2-Tetrachloroethane		67%
1,2,3-Trichlorobenzene	37%	35%
1,2,3-Trichloropropane	57%	59%
1,2,4-Trichlorobenzene	39%	36%
1,2-Dibromo-3-chloropropane	62%	56%
1,2-Dibromoethane	52%	52%
1,2-Dichlorobenzene	54%	53%
1,2-Dichloroethane	59%	59%
1,3-Dichlorobenzene	55%	52%
1,3-Dichloropropane	63%	63%
1,4-Dichlorobenzene	48%	47%
2-Hexanone		68%
4-Chlorotoluene	64%	62%
Bromobenzene	57%	58%
Bromochloromethane	65%	65%
Bromodichloromethane	68%	68%
Bromoform	57%	56%
Carbon disulfide		66%
Chlorobenzene	64%	63%
Chloroethane	54%	
Chloromethane		65%
cis-1,2-Dichloroethene	69%	67%
cis-1,3-Dichloropropene	59%	59%
Dibromochloromethane	65%	64%

Dibromomethane	54%	54%
Hexachlorobutadiene		63%
Iodomethane	68%	63%
Naphthalene	39%	39%
Styrene	63%	61%
trans-1,2-Dichloroethene		68%
trans-1,3-Dichloropropene	44%	47%
Trichlorofluoromethane	67%	63%
Vinyl acetate	55%	52%

The data for these compounds in the soil samples were flagged with the “J” qualifier and are estimated values.

All RPDs were less than 30%.

Laboratory Control Samples

The laboratory’s in-house QC limits noted on their summary forms were often wider than the 70% - 130% Region 2 limits. The data were validated on the basis of the Region 2 limits.

All of the laboratory control samples were within the 70% - 130% limits in the laboratory control sample pair V1ULCS associated with the analysis of sample SI-TP-W1 (G1507-01) with the exceptions of chloromethane (131%) & dichlorodifluoromethane (133%)

Neither of these compounds were detected in the sample and the high recoveries do not affect the use of the data.

All of the laboratory control samples were within the 70% - 130% limits in the laboratory control sample pair V1ILCS associated with the analysis of sample SI-SB-RB-01 (G1523-01) with the exception of 1,2,3-trichloropropane (65%).

The data for this compound were flagged with the “J” qualifier and it is an estimated value.

All of the laboratory control samples were within the 70% - 130% limits in the laboratory control sample pair VP6LCS associated with the analysis of the following samples with the exception of chloroethane (65%).

SI-TP-21 (17.5)	G1523-02
SI-TP-22 (1B)	G1523-03
SI-TP-23 (5.5)	G1523-04
SI-TP-24 (12)	G1523-05
SI-SB-32 (11-13.9)	G1523-07
SI-SB-34 (16-22)	G1523-08
SI-SB-34-D	G1523-09

The data for this compound were flagged with the “J” qualifier and it is an estimated value.

Method Blanks

A low concentration of tetrachloroethene (1J ug/l) was detected in the method blank associated with sample SI-SB-TB1 (G1523-06).

This compound was not detected in the sample and the blank contamination does not affect the use of the data.

No compounds were detected in any of the other method blanks.

Trip Blank

No compounds were detected in the trip blank.

Internal Standard Areas and Retention Times

The areas and retention times of all internal standards were within the required quality control limits.

Sample Results

No problems were detected with any of the samples.

DATA USABILITY SUMMARY REPORT
Sewells Island

Soil & Water Semivolatile Organic Analyses by Method SW846 8260B
Samples Collected: September 9th & 10th, 2008
Samples Received at Test America on September 11th, 2008
Sample Delivery Group: G1507 / G1523
Laboratory Reference Numbers:

Field Sample ID	Lab Sample ID	Matrix
SI-TP-W1	G1507-01	Water
SI-SB-RB-01	G1523-01	Water
SI-TP-21 (17.5)	G1523-02	Soil
SI-TP-22 (18)	G1523-03	Soil
SI-TP-23 (5.5)	G1523-04	Soil
SI-TP-24 (12)	G1523-05	Soil
SI-SB-TB1	G1523-06	Water
SI-SB-32 (11-13.9)	G1523-07	Soil
SI-SB-34 (16-22)	G1523-08 ,	Soil
SI-SB-34-D	G1523-09	Soil
SI-SB-31 (12-15.4)	G1523-10	Soil
SI-SB-31 (12-15.4) MS	G1523-10 MS	Soil
SI-SB-31 (12-15.4) MSD	G1523-10 MSD	Soil
SI-SB-33 (10-12.3)	G1523-11	Soil

Soil and water samples were validated for analyses of semivolatile organics by the US EPA Region II data validation SOP (HW-22, Revision 3, 2006). Data were reviewed for usability according to the following criteria:

* - Data Completeness
* - GC/MS Tuning
* - Holding Times
  - Calibrations
* - Laboratory Blanks
  - Surrogate Compound Recoveries
* - Internal Standard Recoveries
  - Matrix Spike
  - Laboratory Control Samples
* - Compound Identification
* - Compound Quantitation

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

The problems with the surrogate recoveries, matrix spike, laboratory control samples and calibrations should be noted. These are discussed in detail below

Holding Times

All of the samples were extracted and analyzed within the required holding times.

Tunes

No problems were detected with the tunes associated with the samples of this delivery group.

Surrogate Compound Recoveries

All of the surrogate compound recoveries were within the required limits with the following exceptions:

Sample		B S1	B S2	B S3	A S4	A S5	A S6
SI-TP-W1	G1507-01			47%			
SI-TP-21 (17.5)	G1523-02	30%			40%		
SI-SB-34 (16-22)	G1523-08	28%					
SI-SB-31 (12-15.4)	G1523-10				35%		
SI-SB-31 (12-15.4) MS	G1523-10 MS	34%	42%				
SI-SB-31 (12-15.4) MSD	G1523-10 MSD	26%	42%				
SI-SB-33 (10-12.3)	G1523-11				38%		

The NYS DEC ASP protocols allow for one surrogate in each fraction to be outside of the quality control limits (at long as the recovery is greater than 10%).

The data for the matrix spike and matrix spike duplicate were not required to be qualified for the low surrogate recoveries.

Calibrations

Four initial calibrations were analyzed with this sample delivery group.

All of the %RSDs in the 7/16 initial calibration associated with sample SI-TP-W1 (G1507-01) were less than 15% with the exceptions of hexachlorocyclopentadiene (32%), 2,4-dinitrophenol (28%) and pentachlorophenol (23%).

All of the %RSDs in the 9/17 initial calibration associated with the following soil samples were less than 15% with the exception of 2,4-dinitrophenol (18%).

SI-SB-RB-01	G1523-01
SI-TP-22 (1B)	G1523-03
SI-TP-23 (5.5)	G1523-04
SI-TP-24 (12)	G1523-05
SI-SB-31 (12-15.4)	G1523-10
SI-SB-33 (10-12.3)	G1523-11

All of the %RSDs in the 9/30 initial calibration associated with the following soil samples were less than 15% with the exceptions of hexachlorocyclopentadiene (25%), 2,4-dinitrophenol (49%), 2,4-dinitrotoluene (22%), 4,6-dinitro-2-methylphenol (32%) and pentachlorophenol (31%).

SI-TP-21 (17.5)	G1523-02
SI-SB-32 (11-13.9)	G1523-07
SI-SB-34 (16-22)	G1523-08
SI-SB-34-D	G1523-09

None of these compounds were detected in any of the associated samples and the high %RSDs do not affect the use of the data.

All of the percent differences in the 9/15 continuing calibration associated with sample SI-TP-W1 (G1507-01) were less than 20% with the exceptions of phenol (22%), 4-chloroanaline (34%), 2-methylnaphthalene (41%), hexachlorocyclopentadiene (35%), pentachlorophenol (40%), pyrene (23%), dibenzo(a,h)anthracene (23%) and benzo(g,h,i)perylene (30%).

All of the %Ds in the 9/27 continuing calibration associated with the following soil samples were less than 20% with the exceptions of 2,4-dinitrophenol (30%), pentachlorophenol (24%), butylbenzylphthalate (28%), bis(2-ethylhexyl)phthalate (36%) and di-n-octylphthalate (37%).

SI-SB-RB-01	G1523-01
SI-TP-22 (1B)	G1523-03
SI-TP-23 (5.5)	G1523-04
SI-TP-24 (12)	G1523-05
SI-SB-31 (12-15.4)	G1523-10
SI-SB-33 (10-12.3)	G1523-11

The data for these compounds were flagged with the “J” qualifier and are estimated values.

All of the relative response factors (rrfs) were greater than 0.05.

Matrix Spike

Soil sample SI-SB-31 (12-15.4) / G1523-10 was used as the matrix spike and matrix spike duplicate. All of the recoveries and RPDs were within the required limits with the following exceptions:

Compound	**MS**	**MSD**	**RPD**
1,2,4-Trichlorobenzene	35%	38%	
1,2-Dichlorobenzene	28%	33%	
1,3-Dichlorobenzene	23%	28%	
1,4-Dichlorobenzene	24%	29%	
2,4-Dinitrotoluene		21%	109%
2,6-Dinitrotoluene		23%	91%
2-Chlorophenol	41%	41%	
2-Methylnaphthalene	44%		
2-Nitroaniline		23%	87%
2-Nitrophenol		32%	
3-Nitroaniline			57%
4,6-Dinitro-2-methylphenol		18%	116%
4-Nitrophenol			61%
Bis(2-chloroethoxy)methane	44%	43%	

Bis(2-chloroethyl)ether	34%	36%	
Butylbenzylphthalate	17%	27%	43%
Hexachlorobutadiene	33%	37%	
Hexachlorocyclopentadiene		5%	115%
Hexachloroethane	23%	22%	
Isophorone	44%	43%	
N-Nitroso-di-n-propylamine		39%	
Naphthalene	40%		
Nitrobenzene		31%	
Pentachlorophenol	38%		

The data for hexachlorocyclopentadiene were flagged with the “R” qualifier and technically rejected since the recovery was less than 10%. This compound was not detected in any of the samples.

The data for the other compounds with low recoveries in the soil samples were flagged with the “J” qualifier and are estimated values.

The data were not qualified on the basis of a high RPD.

Laboratory Control Samples

All of the laboratory control samples were within the required limits in the laboratory control sample S10LCS associated with the analysis of sample SI-TP-W1 (G1507-01) with the exceptions of 2-methylnaphthalene (109%) and 4-nitrophenol (127%).

Neither of these compounds were detected in the sample and the high recoveries do not affect the use of the data.

All of the laboratory control samples were within the required limits in the laboratory control sample S3GLCS associated with the analysis of sample SI-SB-RB-01 (G1523-01) with the exception of hexachlorocyclopentadiene (22%).

The data for this compound were flagged with the “J” qualifier and it is an estimated value.

Method Blanks

No target compounds were detected in any of the method blanks.

Internal Standard Areas and Retention Times

The areas and retention times of all internal standards were within the required quality control limits.

Sample Results

No problems were detected with any of the sample data.

SUMMARY OF THE ANALYTICAL DATA VALIDATION
Sewells Island

Water PCB Analyses
Samples Collected: September 9th & 10th, 2008
Samples Received at Test America on September 11th 2008
Sample Delivery Group: G1507 / G1523
Laboratory Reference Numbers:

Field Sample ID	Lab Sample ID	Matrix
SI-TP-W1	G1507-01	Water
SI-SB-RB-01	G1523-01	Water
SI-TP-21 (17.5)	G1523-02	Soil
SI-TP-22 (18)	G1523-03	Soil
SI-TP-23 (5.5)	G1523-04	Soil
SI-TP-24 (12)	G1523-05	Soil
SI-SB-32 (11-13.9)	G1523-07	Soil
SI-SB-34 (16-22)	G1523-08 ,	Soil
SI-SB-34-D	G1523-09	Soil
SI-SB-31 (12-15.4)	G1523-10	Soil
SI-SB-31 (12-15.4) MS	G1523-10 MS	Soil
SI-SB-31 (12-15.4) MSD	G1523-10 MSD	Soil
SI-SB-33 (10-12.3)	G1523-11	Soil

Soil and water samples were validated for analyses of PCBs by the US EPA Region II data validation SOP (HW-45, Revision 1). Data were reviewed for usability according to the following criteria:

- Data Completeness
* - Holding Times
* - Laboratory Blanks
- Field Blanks
- Surrogate Recoveries
* - Surrogate Retention Times
* - Matrix Spike / Matrix Spike Duplicate
* - Laboratory Control Sample
- Calibrations
* - Method Blanks
- Florisil Cartridge Check
- GPC Calibration
* - Compound Identification

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

The problems with the matrix spike and continuing calibrations should be noted. These are described in detail below.

Form IX for a florisil cleanup was not included in the data package.

Holding Times

All extractions and analyses were performed within the required holding times from data of collection.

Surrogate Recoveries

Surrogate recoveries were within the QC limits with the following exceptions:

Field Sample ID	Lab Sample ID	TCX 1	TCX 2	DCB 1	DCB 2
SI-TP-W1	G1507-01			35%	
SI-SB-RB-01	G1523-01			38%	
SI-TP-21 (17.5)	G1523-02			58%	
SI-TP-22 (18)	G1523-03				162%

The NYS DEC ASP protocols allow for one surrogate in each fraction to be outside of the quality control limits (as long as the recovery is greater than 10%). The data were not required to be qualified for the low surrogate recoveries.

Matrix Spike

Sample SI-SB-31 (12-15.4) (G1523-10) was used as the matrix spike and matrix spike duplicate. All of the recoveries and RPDs were within the required limits.

The percent differences of Aroclor1016 on the original and confirmation columns were very high (102% & 88%) in the MS and MSD. The high percent differences do not affect the use of the data since no PCBs were detected in any of the samples.

Laboratory Control Samples

All of the laboratory control sample recoveries were within the required limits.

Initial Calibrations

No problems were detected with the initial calibration associated with the analyses of the samples. All %RSDs were less than 20%.

Continuing Calibrations

Several of the mean percent differences of Aroclor peaks were above 15%.

These were associated with the following samples:

SI-SB-RB-01	G1523-01	Water
SI-TP-21 (17.5)	G1523-02	Soil
SI-TP-22 (18)	G1523-03	Soil
SI-TP-23 (5.5)	G1523-04	Soil
SI-TP-24 (12)	G1523-05	Soil
SI-SB-32 (11-13.9)	G1523-07	Soil
SI-SB-34 (16-22)	G1523-08 ,	Soil
SI-SB-34-D	G1523-09	Soil
SI-SB-31 (12-15.4)	G1523-10	Soil

The data for these compounds were flagged with the “J” qualifier and are estimated values since the recovery of the continuing calibration standard was less than that of the mean initial calibration standard.

Surrogate Retention Times

All surrogate retention times were within the required limits for both surrogates and on both columns.

GPC Calibration

A GPC cleanup was not performed on these samples.

Method Blanks

No problems were detected with any of the method blanks.

Calibration Blanks

No problems were detected with the calibration blanks associated with this sample delivery group.

Sample Results

Only three peaks were used to determine the presence or absence of PCBs in the samples. Generally five or more peaks are used.

No other problems were detected with the sample data.

SUMMARY OF THE ANALYTICAL DATA VALIDATION
Sewells Island

Total Metals Analyses
Samples Collected: September 9th & 10th, 2008
Samples Received at Test America on September 11th 2008
Sample Delivery Group: G1507 / G1523
Laboratory Reference Numbers:

Field Sample ID	Lab Sample ID	Matrix
SI-TP-W1	G1507-01	Water
SI-SB-RB-01	G1523-01	Water
SI-TP-21 (17.5)	G1523-02	Soil
SI-TP-22 (18)	G1523-03	Soil
SI-TP-23 (5.5)	G1523-04	Soil
SI-TP-24 (12)	G1523-05	Soil
SI-SB-32 (11-13.9)	G1523-07	Soil
SI-SB-34 (16-22)	G1523-08 ,	Soil
SI-SB-34-D	G1523-09	Soil
SI-SB-31 (12-15.4)	G1523-10	Soil
SI-SB-31 (12-15.4) MS	G1523-10 MS	Soil
SI-SB-31 (12-15.4) MSD	G1523-10 MSD	Soil
SI-SB-33 (10-12.3)	G1523-11	Soil

Soil and water samples were validated for inorganic analyses by the US EPA Region II data validation SOP (HW-2, Revision 13). Data were reviewed for usability according to the following criteria:

* - Data Completeness
* - Holding Times
* - Calibration Verification
  - CRDL Standard
* - Laboratory Control Sample
* - Serial Dilutions
* - Calibration Blanks
  - Field Blanks
* - Preparation Blanks
  - Matrix Spike
  - Matrix Duplicate
* - ICP Interference Check Sample
* - Detection Limit Results
* - Linear Range
* - Sample Results

* - Indicates that all criteria were met for this parameter.

Data Validation Summary

The problems with the matrix spike and matrix duplicate should be noted. These are described in detail below.

Holding Times

All samples were analyzed within the required holding times.

CRDL Standards

CRDL standards were not analyzed.

Initial and Continuing Calibrations

No problems were detected with any of the calibrations associated with this sample delivery group.

Preparation Blank

No compounds were detected in the one preparation blank associated with the digestions of these samples at concentrations above the CRDL. Several analytes were found in the preparation blank at concentrations between the CRDL and instrument detection limit. These very low concentrations are not required to be noted in the data validation summary table.

Calibration Blanks

Several analytes were found in the continuing calibration blanks at concentrations between the CRDL and instrument detection limit. These very low concentrations are not required to be noted in the data validation summary table and do not affect the end use of the data.

Field Blank

A field blank was not analyzed with this sample delivery group.

ICP Interference Check Sample

No problems were detected with the reported ICP Interference Check Sample recoveries.

Matrix Spike Recovery

Soil sample SI-SB-31 (12-15.4) (G1523-10) was used as the matrix spike and matrix spike duplicate. All of the recoveries which could be accurately calculated were within the 75% to 125% quality assurance limits with the exception of antimony (47%).

All of the soil antimony data were flagged with the “J” qualifier and are estimated values.

Duplicate Analysis

Soil sample SI-SB-31 (12-15.4) (G1523-10) was used as the matrix duplicate. All of the relative percent differences which could be accurately calculated were less than 20% with the exceptions of calcium (24%) and lead (27%).

All of the calcium and lead data were flagged with the “J” qualifier and are estimated values.

Laboratory Control Sample

No problems were detected with the recoveries of the LCS standards.

Serial Dilutions

Soil sample SI-SB-31 (12-15.4) (G1523-10) was used as the serial dilution for the soil fraction. All of the relative percent differences which could be accurately calculated were less than 10%.

Instrument Detection Limit

No problems were found with the instrument detection limits.

ICP Linear Ranges

No problems were detected with the linear ranges.

Sample Results

No problems were detected with any of these samples.

SUMMARY OF THE ANALYTICAL DATA USABILITY
City of Watertown
Sewall's Island IRM

Soil and Water Volatile Organic Analyses
Samples Collected: December 17th through 23rd, 2009
Samples Received: December 22nd & 24th, 2009
Sample Delivery Group: 14363
Laboratory Reference Numbers:

Lab ID	Field ID	Matrix	Date Collected
14363	TP-1{21')	Soil	12/17/2009
14364	TP-2{22')	Soil	12/17/2009
14365	TP-4{22')	Soil	12/17/2009
14366	TP-5{18')	Soil	12/17/2009
14367	TP-6{30')	Soil	12/18/2009
14368	TP-9{20.5')	Soil	12/21/2009
14369	TP-11{20')	Soil	12/21/2009
14369 MS	TP-11{20') MS	Soil	12/21/2009
14369 MD	TP-11{20') MD	Soil	12/21/2009
14370	Trip Blank	Water	
14546	TP-13{24-25')	Soil	12/22/2009
14547	TP-13{24-25')Dup	Soil	12/22/2009
14548	TP-14{25-27')	Soil	12/22/2009
14549	TP-15{l1')	Soil	12/22/2009
14550	TP-16{17')	Soil	12/23/2009
14550 MS	TP-16{17') MSD	Soil	12/23/2009
14550 MSD	TP-16{17') MSD	Soil	12/23/2009
14551	TP-18{22')	Soil	12/23/2009
14552	TP-14-GW	Water	12/22/2009
14553	Trip Blank	Water	

Soil and water samples were validated for analyses of the volatile organic TCL analyte list by method 8260B SOP HW-24, Revision 2. A complete analytical validation was performed based upon the following parameters:

- Data Completeness
- GC/MS Tuning
* - Holding Times
- Calibrations
- Laboratory Blanks
- Storage / Holding Blank
- Field Blank
- Trip Blanks
* - Surrogate Recoveries
- Internal Standard Recoveries
- Matrix Spike / Matrix Spike Duplicate
* - Laboratory Control Sample Recoveries
- Compound Identification
- Compound Quantitation

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

The problems with the tunes, calibrations, surrogate recoveries, matrix spike, internal standards and blank should be noted. These are described in detail below.

Holding Times

All samples were preserved and analyzed within the 14-day technical holding time.

System Monitoring Compound Recoveries

All system monitoring compound recoveries were within the EPA Region II quality assurance limits (80% - 120% for waters and 70% - 130% for soils) with the following exceptions:

Sample		SMC1	SMC2	SMC3	SMC4
Water LRB 12/28		77%	69%	74%	70%
Water LRB 12/29		73%	63%	67%	65%
14552	TP-14-GW	77%	66%	72%	69%
14553	Trip Blank	77%	65%	73%	72%
14370	Trip Blank			79%	71%
Soil LRB 12/24			64%	65%	66%
14366	TP-5{18')				69%
14550	TP-16{17')		69%		62%

The data for these samples were flagged with the "J" qualifier and are estimated values.

There should not be problems with surrogate recoveries in laboratory control samples.

Tunes

The m/e of 75 in the 12/22 GC/MS tune (60.8%) was just over the 60% quality control limit. The data were not qualified since the tune was associated with an initial calibration standard and was just over the quality control limit.

No other problems were detected with any of the tunes associated with the samples of this delivery group.

Calibrations

All of the %RSDs were less than 20%, or 30% for poor performing compounds, in the 12/22 initial calibration with the exceptions of acetone (101%), methylene chloride (101%), 1,1,1-trichloroethene (21%), carbon tetrachloride (26%), methyl cyclohexane (22%), bromodichloromethane (22%), cis-1,3-dichloropropene (26%), -trans-1,3-dichloropropene (26%), dibromochloromethane (29%), m,p-xylene (33%), o-xylene (29%), styrene (32%), bromoform (35%), isopropylbenzene (33%), 1,2,5-

trimethylbenzene (28%), tert-butylbenzene (33%), sec-butylbenzene (23%), n-butylbenzene (29%), 1,2-dichlorobenzene (26%) and 1,2-dibromo-3-chloropropane (33%).This continuing calibration was associated with the analyses of the following samples.

14363	TP-1{21')
14364	TP-2{22')
14365	TP-4{22')
14366	TP-5{18')
14367	TP-6{30')
14368	TP-9{20.5')
14369	TP-11{20')
14370	Trip Blank
14552	TP-14-GW
14553	Trip Blank

Undetected data for acetone and methylene chloride were flagged with the "J" qualifier and technically rejected because the %RSD was above 90%.

The average relative response factor of 2-butanone (0.049) was just under the 0.050 quality assurance limit.

All of the %RSDs were less than 20%, or 30% for poor performing compounds, in the 12/22 initial calibration with the exceptions of bromomethane (29%), acetone (82%), methylene chloride (88%) and 1,2-dibromo-3-chloropropane (26%).This continuing calibration was associated with the analyses of the following samples.

14546	TP-13{24-25')
14547	TP-13{24-25')Dup
14548	TP-14{25-27')
14549	TP-15{l1')
14550	TP-16{17')
14550 MS	TP-16{17') MSD
14550 MSD	TP-16{17') MSD
14551	TP-18{22')

The average relative response factor of 2-butanone (0.049) was just under the 0.050 quality assurance limit.

All of the percent differences in the 12/24 continuing calibration were less than 20%, with the exceptions of acetone (54%), methylene chloride (70%), cis-1,3-dichloropropene (28%), 4-methyl-2-pentanone (30%), trans-1,3-dichloropropene (29%), dibromochloromethane (22%), bromoform (23%), n-butylbenzene (25%) and 1,2-dibromo-3-chloropropane (36%). This continuing calibration was associated with the following samples:

14363	TP-1{21')
14364	TP-2{22')
14365	TP-4{22')
14366	TP-5{18')
14367	TP-6{30')
14368	TP-9{20.5')

14369	TP-11{20')

All of the percent differences in the 12/28 continuing calibration were less than 20%, with the exceptions of acetone (50%), methylene chloride (71%), trans-1,3-dichloropropene (24%), 2-hexanone (22%), sec-butylbenzene (21%) bromoform (23%), isopropylbenzene (22%) and n-butylbenzene (22%) This continuing calibration was associated with sample 14370 / Trip Blank.

All of the percent differences in the 12/30 continuing calibration were less than 20%, with the exceptions of acetone (64%) and methylene chloride (71%), This continuing calibration was associated with the analyses of the following samples:

14552	TP-14-GW
14553	Trip Blank

The relative response factor of 2-butanone (0.042) was less than the 0.050 quality

All of the percent differences in the 1/1 continuing calibration were less than 20%, with the exceptions of bromomethane (34%), acetone (67%), methylene chloride (59%), bromoform (21%) and 1,2-dibromo-3-chloropropane (23%) This continuing calibration was associated with the analyses of the following samples:

14548	TP-14{25-27')
14549	TP-15{l1')
14550	TP-16{17')
14550 MS	TP-16{17') MSD
14550 MSD	TP-16{17') MSD
14551	TP-18{22')

The relative response factor of 2-butanone (0.033) was less than the 0.050 quality control limit.

All of the percent differences in the 1/5 continuing calibration were less than 20%, with the exceptions of bromomethane (27%), acetone (40%), methylene chloride (61%) and 2-hexanone (33%). This continuing calibration was associated with the analyses of the following samples:

14546	TP-13{24-25')
14547	TP-13{24-25')Dup

The relative response factor of 2-butanone (0.044) was less than the 0.050 quality control limit.

The data for undetected 2-butanone associated with the low RRFs were flagged with the "R" qualifier and technically rejected when the compound was not detected in a sample.

The data for the other compounds with high percent differences were flagged with the "J" qualifier and are estimated values.

Soil and water data were analyzed from the same initial calibration.

Matrix Spike / Matrix Spike Duplicate

Recovery limits of 70% - 130% were used for the quality control limits for the purposes of the data validation.

Sample 14550 / TP-16{17') of this sample delivery group was used as the matrix spike and matrix spike duplicate.

Only 1,1-dichloroethene, benzene, toluene and chlorobenzene were included in the spiking solution.

All recoveries were within the required limits with the following exceptions:

Compound	MS	MSD
Trichloroethene	43%	43%
Toluene	48%	49%
Chlorobenzene	29%	32%

The data for all of the compounds in the soil samples were flagged with the "J" qualifier and are estimated values.

Only 1,1-dichloroethene, benzene, toluene and chlorobenzene were included in the spiking solution.

Laboratory Control Samples

Only 1,1-dichloroethene, benzene, toluene and chlorobenzene were included in the laboratory control samples.

All recoveries were within the required limits.

Method Blanks

Acetone (16.2 ug/kg) and several non-target compounds were detected in the method blank associated with the analyses of the following samples:

14363	TP-1{21')
14364	TP-2{22')
14365	TP-4{22')
14366	TP-5{18')
14367	TP-6{30')
14368	TP-9{20.5')
14369	TP-11{20')

When methylene chloride was detected in an associated sample at a concentration less than 5X the concentration in the blank, the data was reported with the "U" qualifier.

Several non-target compounds were also detected in many of the method blanks. These were not reviewed during the validation.

Trip Blank

Bromodichloromethane (3.12 ug/l) and chloroform (47%) were detected in the 12/21 trip blank.

Neither of these compounds were detected in any of the associated samples and the trip blank contamination does not affect the use of the data.

Bromodichloromethane (2.59 ug/l) and chloroform (45%) were detected in the 12/25 trip blank.

Neither of these compounds were detected in any of the associated samples, with the exception of chloroform (4.6 ug/l) in sample TP-18 (22')(14551).

The data for this compounds was flagged with the "U" qualifier.

The trip blank contamination does not affect the use of the rest of the data.

Field Blank

A field blank was not analyzed with this sample delivery group.

Storage Blank

A storage blank was not analyzed with this sample delivery group.

Internal Standard Areas and Retention Times

All internal standard recoveries were within the required 50% - 150% quality control limits with the following exceptions:

		IS1	IS2	IS3
14363	TP-1{21')		44%	25%
14365	TP-4{22')		38%	20%
14366	TP-5{18')			42%
14367	TP-6{30')		44%	24%
14368	TP-9{20.5')		48%	24%
14369	TP-11{20')		35%	18%

Compounds quantitated against an internal standard with a recovery of less than 25% were flagged with the "R" qualifier and technically rejected when they were not detected.

Compounds quantitated against the other internal standards with low recoveries were flagged with the "J" qualifier and are estimated values.

Sample Results

Data was not reported for many of the compounds noted in the laboratory's EDD.

Sample 14549 / TP-15{l1')

A low concentration of naphthalene (18.41 ug/kg) was detected in the raw data of this sample, but was not reported by the laboratory

DATA USABILITY SUMMARY REPORT
Sewells Island

Soil & Water Semivolatile Organic Analyses by Method SW846 8260B
Samples Collected: December 17th through 23rd, 2009
Samples Received at Paradigm: December 22nd & 24th, 2009
Sample Delivery Group: 14363
Laboratory Reference Numbers:

Lab ID	Field ID	Matrix	Date Collected
14363	TP-1{21')	Soil	12/17/2009
14364	TP-2{22')	Soil	12/17/2009
14365	TP-4{22')	Soil	12/17/2009
14366	TP-5{18')	Soil	12/17/2009
14367	TP-6{30')	Soil	12/18/2009
14368	TP-9{20.5')	Soil	12/21/2009
14369	TP-11{20')	Soil	12/21/2009
14546	TP-13{24-25')	Soil	12/22/2009
14547	TP-13{24-25')Dup	Soil	12/22/2009
14548	TP-14{25-27')	Soil	12/22/2009
14549	TP-15{l1')	Soil	12/22/2009
14550	TP-16{17')	Soil	12/23/2009
14550 MS	TP-16{17') MSD	Soil	12/23/2009
14550 MSD	TP-16{17') MSD	Soil	12/23/2009
14551	TP-18{22')	Soil	12/23/2009
14552	TP-14-GW	Water	12/22/2009

Soil and water samples were validated for analyses of semivolatile organics by the US EPA Region II data validation SOP (HW-24, Revision 2, 2008). Data were reviewed for usability according to the following criteria:

* - Data Completeness
* - GC/MS Tuning
* - Holding Times
  - Calibrations
* - Laboratory Blanks
  - Surrogate Compound Recoveries
* - Internal Standard Recoveries
  - Matrix Spike
* - Laboratory Control Samples
* - Compound Identification
* - Compound Quantitation

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

The problems with the surrogate recoveries and calibrations should be noted. These are discussed in detail below

Holding Times

All of the samples were extracted and analyzed within the required holding times.

Tunes

No problems were detected with the tunes associated with the samples of this delivery group.

Surrogate Compound Recoveries

All of the surrogate compound recoveries were within the required limits with the following exceptions:

Sample		A S1	A S2	B S3	B S4	A S5	B S6
14363	TP-1{21')				50%		
14366	TP-5{18')				48%		
14367	TP-6{30')						
14550	TP-16{17')				54%		52%
14550 MS	TP-16{17') MS						56%
14550 MSD	TP-16{17') MSD						60%
14551	TP-18{22')						58%

The NYS DEC ASP protocols allow for one surrogate in each fraction to be outside of the quality control limits (at long as the recovery is greater than 10%).

The base neutral data for sample 14550 / TP-16{17') were flagged with the “J’ qualifier and are estimated values.

All other surrogate compound recoveries were within the quality assurance limits.

Calibrations

Two initial calibrations were analyzed with this sample delivery group.

All of the %RSDs in the 12/28 initial were less than 15% with the exceptions of 2,4-dinitrophenol (54%), 2,4-dinitrotoluene (41%), 2,6-dinitrotoluene (31%), hexachlorocyclopentadiene (21%), 2-nitroanaline (31%), 3-nitroanaline (21%), 4-nitroanaline (23%), 4-nitrophenol (22%), 4,6-dinitro-2-methyl phenol (61%), pentachlorophenol (30%), di-n-octylphthalate (18%) and benzaldehyde (40%). This initial calibration was associated with the analyses of the following samples:

14363	TP-1{21')
14364	TP-2{22')
14365	TP-4{22')
14366	TP-5{18')
14367	TP-6{30')
14368	TP-9{20.5')
14369	TP-11{20')
14552	TP-14-GW Water

All of the %RSDs in the 7/16 initial calibration were less than 15% with the exceptions of 2,4-dinitrophenol (29%), 4,6-dinitro-2-methyl phenol (32%), and benzaldehyde (46%). This initial calibration was associated with the analyses of the following samples:

14546	TP-13{24-25') - EDD
14548	TP-14{25-27')
14550	TP-16{17')
14551	TP-18{22')
14547	TP-13{24-25')Dup
14549	TP-15{l1')

The data for these compounds were flagged with the “J” qualifier when they were detected in an associated sample. Undetected data were not required to be qualified.

All of the percent differences in the 1/7 continuing calibration) were less than 20% with the exceptions of 2-nitrophenol (34%), 2,4-dinitrophenol (48%), 2,4-dinitrotoluene (30%), 2,4-dinitrotoluene (24%), 2-nitroanaline (29%), 4-nitroanaline (22%), 4-nitrophenol (31%), 4,6-dinitro-2-methylphenol (84%), bis(2-ethylhexyl)phthalate (22%), di-n-octylphthalate (45%), indeno1,2,3-cd)pyrene (25%), biphenyl (42%), acetophenone (42%), atrazaine (24%), caprolactam (65%), carbazole (27%) and benzaldehyde (39%). This continuing calibration was associated with the analyses of the following samples:

14363	TP-1{21')
14364	TP-2{22')
14365	TP-4{22')
14366	TP-5{18')
14367	TP-6{30')
14368	TP-9{20.5')
14369	TP-11{20')
14552	TP-14-GW Water

All of the percent differences in the 1/13 continuing calibration) were less than 20% with the exception of atrazaine (24%). This continuing calibration was associated with the analyses of the following samples:

14547	TP-13{24-25')Dup
14549	TP-15{l1')

The data for these compounds in the continuing calibrations were flagged with the “J” qualifier and are estimated values.

All of the relative response factors (rrfs) were greater than 0.05.

Matrix Spike

Soil sample 14550 / TP-16{17') was used as the matrix spike and matrix spike duplicate. All of the recoveries and RPDs were within the required limits.

The laboratory’s lower quality control limit was 0% for all compounds.

All recoveries were greater than or equal to 41%

Only eleven compounds were included in the spiking solution.

Laboratory Control Samples

All of the laboratory control samples were within the required limits in the laboratory control samples.

Only eleven compounds were included in the spiking solution.

Method Blanks

No target compounds were detected in any of the method blanks.

Internal Standard Areas and Retention Times

The areas and retention times of all internal standards were within the required quality control limits.

Sample Results

No problems were detected with any of the samples.

SUMMARY OF THE ANALYTICAL DATA VALIDATION
Sewells Island

Soil and Water PCB Analyses
Samples Collected: December 17th through 23rd, 2009
Samples Received at Paradigm: December 22nd & 24th, 2009
Sample Delivery Group: 14363
Laboratory Reference Numbers:

14546	TP-13{24-25')
14547	TP-13{24-25')Dup
14548	TP-14{25-27')
14552	TP-14-GW

Soil and water samples were validated for analyses of PCBs by the US EPA Region II data validation SOP (HW-45, Revision 1). Data were reviewed for usability according to the following criteria:

- Data Completeness
* - Holding Times
* - Laboratory Blanks
- Field Blanks
- Surrogate Recoveries
- Matrix Spike / Matrix Spike Duplicate
* - Laboratory Control Sample
- Calibrations
* - Method Blanks
- GPC Calibration
* - Compound Identification

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

Only one column was used for the analyses of these samples. The NYS DEC ASP protocols required the use of two column.

No compounds were detected in the samples, therefore, the lack of a second column did not affect the use of the data.

The calibration factors were not reported on the initial calibration summary forms as required by the NYS DEC ASP protocols. The initial calibrations were determined by linear regression as opposed to the %RSD.

None of the problems affected the usability of the data.

Holding Times

All extractions and analyses were performed within the required holding times.

Surrogate Recoveries

TCX and DCB recoveries were only reported from one column.

All of the reported recoveries were within the required limits.

Matrix Spike

A matrix spike and matrix spike duplicate were not analyzed with this sample delivery group.

Laboratory Control Samples

All recoveries were within the 30% - 150% quality control limits used for the validation.

Initial Calibrations

The calibration factors were not reported on the initial calibration summary forms as required by the NYS DEC ASP protocols. The initial calibrations were determined by linear regression as opposed to the %RSD.

All %RSDs were reported as less than 20%.

Continuing Calibrations

Data for a continuing calibration were not included.

GPC Calibration

A GPC cleanup was not performed on these samples.

Method Blanks

No problems were detected with any of the method blanks.

Calibration Blanks

No problems were detected with the calibration blanks associated with this sample delivery group.

Field Blank

A field blank was not analyzed with this sample delivery group.

Sample Results

PCBs were not detected in the samples.

SUMMARY OF THE ANALYTICAL DATA VALIDATION
Sewells Island

Total Metals & Cyanide Analyses
Samples Collected: December 17th through 23rd, 2009
Samples Received: December 22nd & 24th, 2009
Sample Delivery Group: 14363
Laboratory Reference Numbers:

Lab ID	Field ID	Matrix	Date Collected
14363	TP-1{21')	Soil	12/17/2009
14364	TP-2{22')	Soil	12/17/2009
14365	TP-4{22')	Soil	12/17/2009
14366	TP-5{18')	Soil	12/17/2009
14367	TP-6{30')	Soil	12/18/2009
14368	TP-9{20.5')	Soil	12/21/2009
14369	TP-11{20')	Soil	12/21/2009
14369 MS	TP-11{20') MS	Soil	12/21/2009
14369 MD	TP-11{20') MD	Soil	12/21/2009
14546	TP-13{24-25')	Soil	12/22/2009
14547	TP-13{24-25')Dup	Soil	12/22/2009
14548	TP-14{25-27')	Soil	12/22/2009
14549	TP-15{l1')	Soil	12/22/2009
14550	TP-16{17')	Soil	12/23/2009
14550 MS	TP-16{17') MSD	Soil	12/23/2009
14550 MSD	TP-16{17') MSD	Soil	12/23/2009
14551	TP-18{22')	Soil	12/23/2009
14552	TP-14-GW	Water	12/22/2009

Soil and water samples were validated for inorganic analyses by the US EPA Region II data validation SOP (HW-2, Revision 13). Data were reviewed for usability according to the following criteria:

* - Data Completeness
* - Holding Times
* - Calibration Verification
  - CRDL Standard
* - Laboratory Control Sample
  - Serial Dilutions
* - Calibration Blanks
  - Field Blanks
* - Preparation Blanks
  - Matrix Spike
  - Matrix Duplicate
  - ICP Interference Check Sample
* - Detection Limit Results
* - Linear Range
* - Sample Results

* - Indicates that all criteria were met for this parameter.

Data Validation Summary

The problems with the matrix spike and matrix spike duplicate should be noted. These are described in detail below.

Holding Times

All samples were analyzed within the required holding times.

CRDL Standards

CRDL standards were not analyzed.

Initial and Continuing Calibrations

No problems were detected with any of the calibrations associated with this sample delivery group.

Preparation Blank

No compounds were detected in the preparation blanks associated with the digestions of these samples at concentrations above the CRDL. Several analytes were found in the preparation blank at concentrations between the CRDL and instrument detection limit. These very low concentrations are not required to be noted in the data validation summary table.

Calibration Blanks

Several analytes were found in the continuing calibration blanks at concentrations between the CRDL and instrument detection limit. These very low concentrations are not required to be noted in the data validation summary table and do not affect the end use of the data.

Field Blank

A field blank was not analyzed with this sample delivery group.

ICP Interference Check Sample

No problems were detected with the reported ICP Interference Check Sample recoveries.

Matrix Spike Recovery

Two samples were analyzed as matrix spikes.

Sample 14369 / TP-11{20') collected on 12/21 was used for the first matrix spike.

All recoveries, which could be accurately calculated, were within the required 75% to 125% quality assurance limits with the exception of lead (17%):

Lead data for the samples collected from 12/17 through 12/21 were qualified on the basis of this matrix spike.

Sample 14550 / TP-16{17') collected on 12/23 was used for the second matrix spike.

All recoveries, which could be accurately calculated, were within the required 75% to 125% quality assurance limits with the exceptions of barium (70%), copper (64%), magnesium (413%), mercury (42%) and potassium (130%):

Data for the samples collected on 12/23 were qualified on the basis of this matrix spike.

The manganese data were flagged with the “R” qualifier and technically rejected since the recovery was greater than 200%.

The data for the other affected analytes were flagged with the “J” qualifier and are estimated values.

Duplicate Analysis

Two samples were analyzed as matrix duplicates. An RPD of 20% was used as the basis to qualify the soil samples.

Sample 14369 / TP-11{20') collected on 12/21 was used for the first matrix duplicate.

All of the relative percent differences which could be accurately calculated were less than 20% with the exceptions of arsenic (51%), barium (41%), copper (137%), iron (22%), lead (82%), manganese (24%) and zinc (118%).

Data for the samples collected from 12/17 through 12/21 were qualified on the basis of this matrix duplicate.

Sample 14550 / TP-16{17') collected on 12/23 was used for the second matrix spike.

All of the relative percent differences which could be accurately calculated were less than 20% with the exceptions of aluminum (27%), iron (21%), magnesium (32%), mercury (40%), nickel (30%), potassium (47%) and selenium (39%),

Data for the samples collected on 12/23 were qualified on the basis of this matrix spike.

Data for these compounds were flagged with the “J” qualifier and are estimated values.

Laboratory Control Sample

No problems were detected with the recoveries of the LCS standards.

Serial Dilutions

A serial dilution was not analyzed.

Instrument Detection Limit

No problems were found with the instrument detection limits.

ICP Linear Ranges

No problems were detected with the linear ranges.

Sample Results

No problems were detected with any of these samples.

SUMMARY OF THE ANALYTICAL DATA VALIDATION
Sewells Island

Mercury Analyses
Samples Collected: December 15, 2009
Samples Received: December 16, 2009
Sample Delivery Group: 14124
Laboratory Reference Numbers:

Lab ID	Field ID
14124	SI-PAOC3-WW-ASH
14125	SI-PAOC3-NW1-A
14126	SI-PAOC3-NW1Dup-A
14127	SI-PAOC3-NW2-A
14128	SI-PAOC3-EW-A
14129	SI-PAOC3-SW1-A
14129 MS	SI-PAOC3-SW1-A MS
14129 MD	SI-PAOC3-SW1-A MD
14130	SI-PAOC3-SW2-A
14131	SI-PAOC3-WW-A

Soil samples were validated for mercury analyses by the US EPA Region II data validation SOP (HW-2, Revision 13). Data were reviewed for usability according to the following criteria:

* - Data Completeness
* - Holding Times
* - Calibration Verification
  - CRDL Standard
* - Laboratory Control Sample
* - Calibration Blanks
  - Field Blanks
* - Preparation Blanks
* - Matrix Spike
  - Matrix Duplicate
* - Detection Limit Results
* - Linear Range
* - Sample Results

* - Indicates that all criteria were met for this parameter.

Data Validation Summary

Sample 14129 / SI-PAOC3-SW1-A used for the matrix duplicate. The relative percent difference of 30% was above the 20% limit used for the data validation. All of the mercury data were flagged with the "*J" qualifier and are estimated values.

No other problems were detected that would affect the use of the data.

Holding Times

All samples were analyzed within the required holding times.

CRDL Standards

CRDL standards were not analyzed.

Initial and Continuing Calibrations

No problems were detected with any of the calibrations associated with this sample delivery group.

Preparation Blank

Mercury was not detected in the preparation blank.

Calibration Blanks

Mercury was not detected in the any of the calibration blanks.

Field Blank

A field blank was not analyzed with this sample delivery group.

Matrix Spike Recovery

Sample 14129 / SI-PAOC3-SW1-A used for the matrix spike.

The mercury spike recovery (113%) was within the 75% - 125% quality control limits used for the data validation.

Duplicate Analysis

Sample 14129 / SI-PAOC3-SW1-A used for the matrix duplicate.

The relative percent difference of 30% was above the 20% limit used for the data validation.

All of the mercury data were flagged with the “*J” qualifier and are estimated values.

Laboratory Control Sample

No problems were detected with the recoveries of the LCS standards.

Instrument Detection Limit

No problems were found with the instrument detection limits.

ICP Linear Ranges

No problems were detected with the linear ranges.

Sample Results

No problems were detected with any of these samples.

DATA USABILITY SUMMARY REPORT
Sewells Island

Water Volatile Organic Analyses by Method SW846 8260B
Samples Collected: December 3, 2008
Samples Received at Test America on December 5, 2008
Sample Delivery Group: G2271
Laboratory Reference Numbers:

Field Sample ID	Lab Sample ID
SI-MW1-01	G2271-01
SI-MW2S-01	G2271-02
SI-MW2D-01-D	G2271-03
SI-MW2D-01	G2271-04
SI-MW3-01	G2271-05
SI-MW4-01	G2271-06
SI-MW5-01	G2271-07
SI-MW6-01	G2271-08
SI-MW6-01 MS	G2271-08MS
SI-MW6-01 MSD	G2271-08MSD
SI-MW7-01	G2271-09
SI-MW8-01	G2271-10
SI-MW-TB-01	G2271-11

Water samples were validated for analyses of volatile organics by the US EPA Region II data validation SOP (HW-24, Revision 2, 2008). Data were reviewed for usability according to the following criteria:

* - Data Completeness
* - GC/MS Tuning
* - Holding Times
- Calibrations
* - Laboratory Blanks
* Trip Blank
* - Surrogate Compound Recoveries
* - Internal Standard Recoveries
- Matrix Spike
- Laboratory Control Samples
* - Compound Identification
* - Compound Quantitation

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

The problems with the matrix spike, laboratory control samples and calibrations should be noted. These are discussed in detail below.

Holding Times

All of the samples were analyzed within 14 days of collection.

Tunes

No problems were detected with the tunes associated with the samples of this delivery group.

Surrogate Compound Recoveries

All surrogate compound recoveries were within the quality assurance limits.

Calibrations

Two initial calibrations were analyzed with this sample delivery group.

All of the %RSDs in the 11/25 initial calibration associated with all of the samples with the exception of SI-MW5-01 (G2271-07) were less than 20% with the exception of carbon disulfide (21%).

Carbon disulfide was not detected in any of the samples. Recoveries outside of the quality control limits do not affect undetected data in an initial calibration.

All of the %RSDs in the 12/09 initial calibration associated with sample SI-MW5-01 (G2271-07) were less than 20%.

A continuing calibration was not analyzed with this sample.

All of the percent differences in the 12/08 continuing calibration associated with the following samples were less than 20% with the exceptions of dichlorodifluoromethane (36%), bromomethane (29%), trichlorofluoromethane (36%), carbon disulfide (34%), 2-butanone (27%), 4-methyl-2-pentanone (28%), 2-hexanone (27%) and naphthalene (24%).

SI-MW1-01	G2271-01
SI-MW2S-01	G2271-02
SI-MW2D-01-D	G2271-03
SI-MW2D-01	G2271-04
SI-MW3-01	G2271-05
SI-MW6-01	G2271-08
SI-MW6-01 MS	G2271-08MS
SI-MW6-01 MSD	G2271-08MSD
SI-MW-TB-01	G2271-11

All of the percent differences in the 12/09 continuing calibration associated with the following samples were less than 20% with the exceptions of dichlorodifluoromethane (45%), bromomethane (24%), chloroethane (25%), acetone (35%), carbon disulfide (31%), 2-butanone (36%), 4-methyl-2-pentanone (28%), 2-hexanone (33%) and naphthalene (24%).

SI-MW4-01	G2271-06
SI-MW7-01	G2271-09
SI-MW8-01	G2271-10

The data for these compounds were flagged with the “J” qualifier and are estimated values.

All of the relative response factors (rrfs) were greater than 0.05 with the exceptions of acetone and 2-butanone.in all of the calibrations.

Undetected acetone and 2-butanone were flagged with the “R” qualifier and technically rejected.

Detected data were flagged with the “J” qualifier and are estimated values.

Matrix Spike

The laboratory’s in-house QC limits noted on their summary forms were often wider than the 70% - 130% Region 2 limits. The data were validated on the basis of the Region 2 limits.

Sample SI-MW6-01 (G2271-08) was used as the matrix spike and matrix spike duplicate. All of the recoveries were within the 70% - 130% limits with the following exceptions:

Compound	**MS**	**MSD**
2-Butanone	68%	66%
Acetone	66%	58%
Carbon disulfide		67%
Dichlorodifluoromethane	59%	61%
Trichlorofluoromethane	133%	

Trichlorofluoromethane was not detected in any of the samples and the high recovery did not affect the end use of the data.

The data for the other above compounds were flagged with the “J” qualifier and are estimated values.

All RPDs were less than 30%.

Laboratory Control Samples

The laboratory’s in-house QC limits noted on their summary forms were often wider than the 70% - 130% Region 2 limits. The data were validated on the basis of the Region 2 limits.

All of the laboratory control samples were within the 70% - 130% limits in the laboratory control sample V1VLCS associated with the analysis of the following sample with the exceptions of dichlorodifluoromethane (57%), carbon disulfide (66%) and 2-butanone (69%).

SI-MW1-01	G2271-01
SI-MW2S-01	G2271-02
SI-MW2D-01-D	G2271-03
SI-MW2D-01	G2271-04
SI-MW3-01	G2271-05
SI-MW6-01	G2271-08
SI-MW6-01 MS	G2271-08MS
SI-MW6-01 MSD	G2271-08MSD
SI-MW-TB-01	G2271-11

All of the laboratory control samples were within the 70% - 130% limits in the laboratory control sample pair V1WLCS associated with the analysis of the following samples with the exceptions of dichlorodifluoromethane (68%), acetone (61%), carbon disulfide (65%), 2-butanone (62%), 4-methyl-2-pentanone (68%) and 2-hexanone (64%):

SI-MW4-01	G2271-06
SI-MW7-01	G2271-09
SI-MW8-01	G2271-10

The data for these compounds were flagged with the “J” qualifier and are estimated values.

All of the laboratory control samples were within the 70% - 130% limits in the laboratory control sample pair V1XLCS associated with the analysis of sample SI-MW5-01 (G2271-07).

Method Blanks

No compounds were detected in any of the method blanks.

Trip Blank

No compounds were detected in the trip blank.

Internal Standard Areas and Retention Times

The areas and retention times of all internal standards were within the required quality control limits.

Sample Results

No problems were detected with any of the samples.