ENVIRONMENTAL STRATEGIES CONSULTING LLC
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June 20, 2005

Mr. James E. Burke, P.E.
Environmental Engineer
New York State Department of Environmental Conservation
Region 7
615 Erie Boulevard West
Syracuse, NY 13204-2400

Re: Supplemental Investigation Report
Emerson Power Transmission, Ithaca, New York

Dear Mr. Burke:

On behalf of Emerson Electric Co., Environmental Strategies Consulting LLC is submitting three copies of the *Supplemental Investigation Report* for the Emerson Power Transmission facility site in Ithaca, New York. The report details the results of the recent offsite groundwater investigation, and includes well construction information and sampling results for all wells installed by Environmental Strategies. Also included are figures showing the location of each well and an updated groundwater elevation contour map.

We are available to discuss this matter at your convenience.

Sincerely yours,

James P Bulman

James P. Bulman
Executive Partner

SPH:sel
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Enclosure
cc\encl: Mr. Derek Chase, Emerson
Henriette Hamel, NYSDOH

SUPPLEMENTAL INVESTIGATION REPORT

EMERSON POWER TRANSMISSION FACILITY
ITHACA, NEW YORK

PREPARED

BY

ENVIRONMENTAL STRATEGIES CONSULTING LLC

JUNE 20, 2005

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1.0 Introduction

Environmental Strategies Consulting LLC, on behalf of Emerson, conducted a supplemental groundwater investigation to evaluate groundwater and surface water quality in the areas north and west of the Emerson Power Transmission (EPT)/former Borg-Warner facility in Ithaca, New York. The scope of work involved installing and sampling nine offsite groundwater monitoring wells within the upper bedrock zone and unconsolidated overburden. In addition, groundwater samples were collected from select existing monitoring wells and surface water samples were collected from a seep located northwest of the Research and Development (R&D) Building and from a drainage ditch along South Cayuga Street. Also, the storm sewer line, which extends from the site along South Cayuga Street, was located and construction information was obtained. The work was conducted in accordance the Supplemental Investigation Work Plan approved by the New York State Department of Environmental Conservation's (NYSDEC's) on December 8, 2004. The work plan was submitted to NYSDEC in fulfillment of requirements outlined in the July 13, 1987, Consent Order entered into by the NYSDEC and Emerson. The field activities were also conducted in accordance with the NYSDEC Draft DER-10 Technical Guidance for Site Investigation and Remediation, dated December 25, 2002.

The following section of this report presents background information on the site. Section 3.0 describes the objectives and a summary of the components of the investigation. Section 4.0 describes the scope of work in greater detail. This is followed by a discussion of the results and conclusions.

Beneath the overburden lies bedrock of the Ithaca Member, consisting of a fractured siltstone. The siltstone is divided into three distinct zones, based on the frequency of bedding planes and fractures: an upper "stress relief zone" (B-zone), a middle "transitional zone" (C-zone), and a lower "lithologically controlled zone" (D-zone). The uppermost B-zone is weathered bedrock and highly fractured. The B-zone extends to a maximum depth of approximately 22 feet below ground surface (bgs) and has an average thickness of approximately 8 to 10 feet on the west portion of the site where the current remediation system is located.

The transitional zone (C-zone) extends from the base of the B-zone to a maximum depth of approximately 55 feet bgs beneath the site. The lower lithologically controlled zone (D-zone) extends from the bottom of the C-zone to a minimum depth of 145 feet bgs. In this lower zone, fractures are reportedly confined to intervals that are widely spaced, and their occurrence is controlled by lithology. The location of geologic cross section (southeast to northwest) is presented in Figure 2. Figure 3 presents the cross section from A-A' and includes the upper three geologic zones (A, B, and C).

2.2.1 Regional Structural Geology

The Paleozoic stratigraphy of western New York dips gently to the south. A series of gentle folds form an arc pattern and are observed as a series of parallel anticlines in the region. Limited faulting in the area is expressed in the core of the anticlines as south dipping thrust faults through the more compentent carbonate units that disappear as blind thrusts into the overlying shales and siltstones. Instead of faulting, stress joints are observed in the overlying shale and siltstone, as found at the EPT site.

Four regular joint sets are recognized regionally: Two cross-strike joint sets (Ia and Ib) related to separate phases of the Alleghanian Orogeny, a strike-parallel set (II), and an oblique set (III) reflecting the contemporary stress field. Engelder and Geisler (1980) measured orientations of the joint sets in Tompkins County and throughout the Appalachian Plateau of New York. The average strike of Ib joints at 11 outcrops of the Genesee Group in Tompkins County was 341° ± 3°. The average strike of Ia joints at 2 outcrops of the Genesee Group in Tompkins County was 007° ± 3°. The average orientation of the strike-parallel joint set (II) was 82°.

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Engelder and Geisler (1980) also observed that joints in the siltstones are more likely to have regular spacing, while joints in the shales were less likely to be regularly spaced. Vertically, joints tended to terminate at lithologic boundaries.

2.3 Site Hydrogeology

Groundwater is present in the overburden and in bedrock. The direction of groundwater flow in the overburden and the upper portion of fractured bedrock (B-zone) is to the northwest. Groundwater within the overburden and upper portion of fractured bedrock are in direct hydraulic communication and unconfined. The deeper zones of fractured bedrock (C- and D-zones) are under semi-confined conditions with leakance from the B-zone providing recharge to the underlying C-zone. Historic groundwater elevations from well clusters screened at greater depths within the overburden and bedrock indicate a steep, downward hydraulic gradient. A hydraulic connection (leakance) between the overburden and bedrock was confirmed by a short-duration pumping test conducted by Radian Corporation in 1990. Hydrogeologic observations made in the field are discussed in detail in Section 5.0.

3.0 Investigation Objective and Overview

The objective of the supplemental investigation was to evaluate groundwater and surface water quality in the areas north and west of the EPT facility. The investigation included the following components:

- evaluating the integrity of offsite monitoring wells MW-5-40, MW-7-40, MW-9-40, MW-10-40, and MW-17-40; making repairs, as necessary, and redeveling and sampling each usable well
- installing five groundwater monitoring wells within the upper portion of fractured bedrock (B-zone) and four groundwater monitoring wells within the unconsolidated overburden material (A-zone)
- sampling all newly installed wells and usable offsite wells
- collecting surface water samples from the drainage ditch to the north of the EPT facility along South Cayuga Street, a seep below the EPT's northern parking lot, a seep at 514 South Cayuga Street, and the cistern under the south railroad bridge abutment at the upper end of South Cayuga Street
- surveying and plotting the location of the storm sewer line that extends from the site down South Cayuga Street as well as obtain construction information from the city of Ithaca

An exploratory boring was proposed as part of the original scope of work. The boring will be completed following the completion of the proposed geophysical survey. This will allow Emerson to more accurately place the boring.

4.0 Scope of Work

This section describes the scope of work that was completed as part of the supplemental groundwater investigation. The field activities were conducted in accordance with the NYSDEC Draft DER-10 Technical Guidance for Site Investigation and Remediation, dated December 25, 2002, and Environmental Strategies' Standard Operating Procedures (SOPs), which are included as Appendix A.

In December 2004, NYSDEC approved the work plan for the installation of offsite groundwater monitoring wells around the EPT site. Four wells (MW-18A, MW-19A, MW-23B, and MW-24B) were installed and sampled in February 2005. Five wells (MW-20B, MW-21B, MW-22B, MW-25A, and MW-26A) were installed in March 2005. All nine newly installed wells and two existing wells (MW-5-40 and MW-17-40) were sampled in April 2005. A surface water seep located northwest of the R&D Building was also sampled in April 2005.

Monitoring wells MW-7-40 and MW-8-40 were sampled on May 19, 2005. The sample collected from MW-8-40 could only be analyzed for volatile organic compounds (VOCs) due to insufficient sample volume.

Water was not observed in a reported seep at 514 South Cayuga Street or within a cistern under the south railroad bridge abutment at the upper end of South Cayuga Street. Therefore, no samples were collected from these areas. Emerson will continue to inspect these structures for potential future sampling.

4.1 Monitoring Well Installation

Nine groundwater monitoring wells were installed in offsite areas downgradient of the EPT facility. Five wells were installed in the western portion of the study along Wood Street (MW-18A and MW-25A), South Geneva Street (MW-19A), South Albany (MW-26A), and West Spencer Street (MW-24B). The remaining four wells were installed in the northern portion of the study area along the EPT access Road (MW-20B), South Hill Terrace (MW-21B, and MW-22B), and South Cayuga Street (MW-23B). The well locations are shown in Figure 4.

In accordance with the approved work plan, five of the monitoring wells (MW-20B through MW-24B) were screened within the highly fractured portion of the upper bedrock zone,

approximately 6 to 12 feet below the contact between the overburden and the bedrock, and designated with a "B" qualifier. The total depth of the B-zone monitoring wells ranged from 16 to 20 feet bgs. Four of the monitoring wells (MW-18A, MW-19A, MW-25A, and MW-26A) were screened within the unconsolidated overburden material, and designated with an "A" qualifier. The total depth of the A-zone monitoring wells ranged from 17.5 to 20 feet bgs. Because of weather delays, monitoring wells MW-18A, MW-19A, MW-23B, and MW-24B were installed in February 2005 and monitoring wells MW-25A, MW-26A, MW-20B, MW-21B, and MW-22B were installed in March 2005.

Boreholes for the monitoring wells were drilled through the overburden using 8.25-inch inside-diameter (ID) hollow-stem augers. Continuous soil samples were collected from the ground surface to refusal at bedrock using 2-foot-long, split-spoon samplers. The soils recovered from the split spoons were screened for organic vapors in the field using a photoionization detector (PID). Sample descriptions and PID readings were recorded in a field notebook.

For B-zone monitoring wells, the bedrock was cored to determine the quantity of fractures and for logging purposes (Appendix B). The screened interval and final depth of the monitoring wells depended on the quantity of fractures present. The boreholes were terminated as the quantity of fractures began to diminish with depth. Once the terminal depth of each well was reached, the borehole for each well was expanded (reamed) using a 6.25-inch rotary air hammer.

The monitoring wells were constructed of 2-inch-ID threaded, flush jointed, Schedule 40 PVC blank casing attached to screens with 0.010-inch horizontal slots. The B-zone monitoring wells were constructed with a 5-foot screen length, while the A-zone monitoring wells were constructed with a 10-foot screen length. A clean sand filter pack was placed from the bottom of the well borehole to approximately 2 feet above the top of the screen. A 3-foot-thick bentonite seal was then placed on top of the sand filter pack. The remaining annular space was backfilled with a cement-bentonite grout mixture (tremie piped from the bottom to the top).

The wells were completed flush with the ground surface using protective, steel well coverings. The inner casing was fitted with a watertight lockable cap. Well construction information was recorded in a field notebook, and boring logs and as-built well construction diagrams were prepared for each monitoring well after completion of the field activities

(Appendix B). All wells were completed and installed by Parratt Wolff, Inc., a driller licensed in the state of New York, in accordance with the Environmental Conservation Law 15-1525.

Drill cuttings and water generated during monitoring well installation were contained in Department of Transportation-approved, 55-gallon steel drums. The drums were labeled and moved to a staging area on the EPT site. Water generated during the well installation was collected and added to the onsite groundwater treatment system. All solid investigative-derived waste (i.e., drill cuttings) was sampled and analyzed for disposal characterization. The investigation-derived waste was subsequently removed for offsite disposal as non-hazardous waste, consistent with state and federal law. Used protective clothing and equipment was managed in a manner consistent with the U.S. Environmental Protection Agency (EPA) Guidance Document, Management of Investigative Derived Waste During Site Inspections (May 1991), OERR 9345.3-02.

All drilling and sampling activities were conducted with clean equipment. Split-spoon samplers were decontaminated at the EPT site in accordance with Environmental Strategies' SOPs. The drilling equipment (augers and rods) was decontaminated at the EPT site using a portable steam cleaner. All decontamination fluids generated during the drilling activities were contained in 55-gallon steel drums and managed in the same manner as water generated during the well installation.

The ground surface elevations and the top of the PVC well casing at each new monitoring well were surveyed to the nearest 0.01 foot. The horizontal locations of the new wells were determined to the nearest 0.1 foot and referenced to the state plane coordinate system. A surveyor licensed in New York State surveyed the well locations and elevations. The locations and elevations of the monitoring wells were tied into the existing base map for the site.

4.1.1 Monitoring Well Development

The new monitoring wells and usable existing site wells were developed to remove sediments and to ensure effective communication between the well screens and surrounding saturated zones. The wells were developed by surging the screened interval to loosen any fine-grained sediment in the sand filter pack and adjacent aquifer material. Groundwater from the well was removed by bailing or pumping. Turbidity, pH, temperature, and specific conductance were monitored during the development process to ensure that groundwater representative of the

screened portion of the aquifer was entering the well. Development continued until the discharge was relatively free of suspended sediments. Water generated during the well development was collected in drums and added to the EPT onsite groundwater treatment system.

All development activities were conducted with clean equipment to prevent potential cross-contamination between well locations. Non-dedicated equipment was cleaned between use in each well.

4.2 Integrity of Existing Offsite Monitoring Wells

In accordance with the approved plan, offsite monitoring wells MW-5-40, MW-7-40, MW-8-40, MW-9-40, MW-10-40 and MW-17-40 were inspected to ascertain their integrity. Based on this evaluation, monitoring wells MW5-40, MW-7-40, MW-8-40, and MW-17-40 were deemed usable and were re-developed, and sampled. The casing of monitoring well MW-9-40 was completed filled with sediment and monitoring well MW-10-40 appears to have been destroyed, presumably during the West Spencer Street expansion. A proposal for the proper abandonment of well MW-9-40 will be provided to NYSDEC.

4.3 Groundwater Sampling Procedures

Before initiating sampling, water level measurements were collected from all onsite monitoring wells and the newly installed offsite monitoring wells. Water level measurements at onsite monitoring wells were collected during non-pumping conditions.

Monitoring wells were purged of a minimum of three well volumes before sampling. Measurement of pH, conductivity, temperature, and redox potential were obtained at least three times (beginning, middle, and end) during the well purging process. These parameters were allowed to stabilize before sample collection begins. The majority of monitoring wells were purged with a polyethelyne bailer. Monitoring well MW-17-40, however, was purged using a dedicated submersible pump due to the large purge volume. Groundwater samples were collected from each monitoring well for analysis of VOCs, semivolatile organic compounds (SVOCs), and polychlorinated biphenyls (PCBs) using disposable polyethylene bailers. All non-dedicated groundwater sampling equipment was decontaminated in the field. All monitoring well purging, groundwater sampling, and decontamination was conducted according to Environmental

Strategies' SOPs provided in Appendix A, which are consistent with procedures outlined in the Resource Conservation and Recovery Act's Groundwater Monitoring Technical Enforcement Guidance Document.

The surface water samples were collected from a seep north of the EPT R&D building and the storm water drainage at the upper end of South Cayuga Street following the procedures outlined in the Environmental Strategies SOPs (Appendix A). Surface water samples were also analyzed for VOCs, SVOCs, and PCBs.

Quality assurance/quality control samples, including equipment blanks, trip blanks, and duplicates, were collected in accordance with SOPs. All samples will be sealed, labeled, and placed in a cooler with ice and shipped to STL-Buffalo for analysis. Appropriate chain-of-custody procedures were followed.

Groundwater and surface water samples were measured for pH, conductivity, temperature, and redox potential in the field. All results were recorded in the field logbook. The groundwater samples were submitted to the STL-Buffalo for analysis of VOCs using EPA Method 8260B, SVOCs using EPA Method 8270, and PCBs using EPA Method 8082. Chemical analyses of groundwater were performed in accordance with Analytical Level III requirements. Field measurements were conducted in accordance with Analytical Level I requirements.

4.4 Evaluation of Storm Sewer Line on South Cayuga Street

As outlined in the approved work plan, the storm sewer line that which extends from the site and runs along the north site of South Cayuga Street was located and plotted on the site base map. Environmental Strategies contacted the Ithaca city engineer to identify the location and construction of the sewer line. The location of the storm sever line was identified and will be included in for potential future evaluation (Figure 5).

5.0 Investigation Results

5.1 Hydrogeologic Observations

According a United States Geological Survey Report (*Unconsolidated Aquifers in Tompkins County,* Miller T.S., 2000), the groundwater in the area between the EPT facility and West Spencer Street (South Hill) is unconfined within the glacial till (A-zone) and underlying fractured bedrock (B-zone). Groundwater west of West Spencer Street is confined within a sand and gravel aquifer that is overlain by fine grained lacustrine deposits (fine grained sand, silt and clay). This is consistent with observation made in the field (Figure 3). A review of boring logs for the wells installed west of West Spencer Street show that approximately 6 to 10 feet of low permeability silt and clay material overly the sand and gravel aquifer deposits.

Based on groundwater elevation data collected on May 19, 2005, the direction of groundwater flow within the shallow bedrock (B-zone) aquifer and the hydraulically connected sand and gravel aquifer is to the northwest, as anticipated (Figure 6). The overall pattern of flow generally mimics the surface topography, with a steep gradient observed between the EPT facility and West Spencer Street (South Hill) and a flatter gradient west of West Spencer Street. The depth to groundwater in the shallow bedrock aquifer ranged between 3.42 feet bgs in MW-24B to 13.96 bgs in MW-21B with a steep hydraulic gradient of 0.27 feet per foot. The depth to groundwater in the sand and gravel aquifer ranged between 5.11 feet bgs and 7.02 feet bgs with a flatter hydraulic gradient 0.027 feet per foot.

5.2 Groundwater Quality

The groundwater sampling results are summarized in Table 2 and include sampling events for February, April, and May 2005. The groundwater results are shown in Figure 7 and the laboratory data sheets are included in Appendix C.

5.2.1 February 2005 Results

The results of groundwater samples collected from monitoring wells MW-18A, MW-19A, MW-23B, and MW-24B show that no site related VOCs were detected in groundwater at concentrations above state drinking water standards. Only a trace levels of 1,1,1-trichloroethane (TCA) and trichloroethene (TCE) were detected in one of the four wells sampled.

Monitoring well MW-23B contained detectable levels of TCA at 2.2 micrograms per liter (µg/l) and TCE at 1.0 µg/l. Other VOCs were detected at estimated values below the laboratory Practical Quantitation Limit and are considered non-detect values. The February groundwater sampling results also demonstrate that no SVOCs or PCBs are present in offsite groundwater in this area.

5.2.2 April and May 2005 Sampling Events

Results of the nine newly installed monitoring wells and existing offsite wells MW-17-40 MW-8-40 show that only a trace level of TCE was detected in one (MW-21B) of the 11 offsite wells sampled. The sample from monitoring well MW-21B contained 2.7 µg/l of TCE, which is well below the state drinking water standard of 5 µg/l. No SVOCs or PCBs were detected in any of the samples collected from the offsite groundwater monitoring wells.

Onsite monitoring well MW-5-40, which is located upgradient of the fire water reservoir and treatment area, contained VOC concentrations above the remediation target levels established for the EPT site. The primary compounds detected were TCE (31,000 µg/l) and its associated degradation products 1,1,-DCE (37 µg/l), cis-1,2,-DCE (27,000 µg/l), trans-DCE (150 µg/l), and vinyl chloride (350 µg/l). No SVOCs or PCBs were detected in the sample collected from MW-5-40.

In addition, monitoring well MW-7-40, which is located on the NYSEG substation property approximately 150 west/northwest of the current remediation area, contained cis-1,2-DCE (120 µg/l) and vinyl chloride (49 µg/l) at levels exceeding the remediation target levels of the site. These compounds and levels are consistent with samples previously collected from this well. No SVOCs or PCBs were detected.

5.2.3 Seep and Drainage Ditch Sampling

The results of the surface water samples collected from the seep located northwest of the R&D Building did not contain any site-related VOCs, SVOCs, or PCBs. No SVOCs or PCB were detected in the surface water sample collected from the drainage ditch along South Cayuga. The only VOC detected was cis-1,2-DCE at a concentration of 5.5 µg/l. The analytical results for the surface water samples collected during this investigation are presented in Table 3. Copies of the certified laboratory reports for these samples are provided in Appendix C.

6.0 Conclusions

The sampling results indicated that groundwater monitoring wells installed in the western portion of the study contain no VOCs, SVOCs, or PCBs. No site related compounds were detected in the six wells sampled in this area. In the northern portion of the study area, only one of the five wells contained a trace level (below the state drinking water standard) of one site related compound, based on the April/May 2005 sampling results. As anticipated, onsite groundwater near the original source area (fire water reservoir) remains affected at levels that exceed remediation target levels for the EPT site.

Although the April and May 2005 results indicate that only one of the 11 offsite wells contained a trace level of a one site-related VOC, Emerson recognizes the complex nature of the site geology. For this reason, Emerson has proposed to conduct a geophysical survey to identify and map water-bearing bedrock fractures that may serve as offsite migration pathways for affected groundwater. Emerson has also proposed the installation of three additional bedrock wells immediately downgradient of the current remediation area and west/northwest of the NYSEG substation property. The results of the geophysical survey and additional groundwater investigation, will serve as the basis for determining the scope of potential further assessment activities in the subject area.

Figures

Tables

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Appendix B – Boring Logs and Well Construction Diagrams

Appendix C – Laboratory Data Sheets

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SUPPLEMENTAL INVESTIGATION REPORT

EMERSON POWER TRANSMISSION FACILITY
ITHACA, NEW YORK

PREPARED

BY

ENVIRONMENTAL STRATEGIES CONSULTING LLC

JUNE 20, 2005

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1.0 Introduction

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The following section of this report presents background information on the site. Section 3.0 describes the objectives and a summary of the components of the investigation. Section 4.0 describes the scope of work in greater detail. This is followed by a discussion of the results and conclusions.

2.0 Site Background

2.1 Site Location and History

The EPT facility is located at 620 South Aurora Street in Ithaca, New York. The facility site comprises approximately 110 acres within the City of Ithaca and the Town of Ithaca in Tompkins County and includes the New York State Electric and Gas (NYSEG) substation property to the west (Figure 1). The area surrounding the facility is mostly residential. The campus of Ithaca College borders the site on the east across South Aurora Street. The southern portion of the property is unused and vacant. Wooded land and residential areas border the property to the west, and residential areas are located to the north. Cayuga Lake is approximately 2 miles north of the site.

The Emerson Power Transmission plant was built in 1906 by Morse Industrial Corporation, which manufactured steel roller chain for the automobile industry. From approximately 1928 to 1982, Borg Warner owned the company and manufactured automotive components and power transmission equipment. Through the early 1980s, Morse Industrial Corporation used trichloroethylene, or TCE, a widely-used solvent for cleaning and degreasing metal parts. In 1982, Morse Industrial Corporation was purchased from Borg-Warner Corporation by Emerson, and became known as Emerson Power Transmission. Emerson Power Transmission manufactures industrial roller chain, bearings and clutching for the power transmission industry. Under Emerson ownership, TCE was not used at the Ithaca facility. Investigations conducted by Emerson revealed onsite groundwater contamination in 1987, originating from a fire-water reservoir located on the western portion of the facility property. Emerson promptly reported these findings to the New York State Department of Environmental Conservation.

2.2 Site Geology

Unconsolidated overburden material at the site is comprised of glacial till. The overburden is approximately 5 to 10 feet thick in most areas of the site. The overburden deposits consist of dark gray compacted clay with trace amounts of coarse gravel and are referred to as the A-zone.

Beneath the overburden lies bedrock of the Ithaca Member, consisting of a fractured siltstone. The siltstone is divided into three distinct zones, based on the frequency of bedding planes and fractures: an upper "stress relief zone" (B-zone), a middle "transitional zone" (C-zone), and a lower "lithologically controlled zone" (D-zone). The uppermost B-zone is weathered bedrock and highly fractured. The B-zone extends to a maximum depth of approximately 22 feet below ground surface (bgs) and has an average thickness of approximately 8 to 10 feet on the west portion of the site where the current remediation system is located.

The transitional zone (C-zone) extends from the base of the B-zone to a maximum depth of approximately 55 feet bgs beneath the site. The lower lithologically controlled zone (D-zone) extends from the bottom of the C-zone to a minimum depth of 145 feet bgs. In this lower zone, fractures are reportedly confined to intervals that are widely spaced, and their occurrence is controlled by lithology. The location of geologic cross section (southeast to northwest) is presented in Figure 2. Figure 3 presents the cross section from A-A' and includes the upper three geologic zones (A, B, and C).

2.2.1 Regional Structural Geology

The Paleozoic stratigraphy of western New York dips gently to the south. A series of gentle folds form an arc pattern and are observed as a series of parallel anticlines in the region. Limited faulting in the area is expressed in the core of the anticlines as south dipping thrust faults through the more compentent carbonate units that disappear as blind thrusts into the overlying shales and siltstones. Instead of faulting, stress joints are observed in the overlying shale and siltstone, as found at the EPT site.

Four regular joint sets are recognized regionally: Two cross-strike joint sets (Ia and Ib) related to separate phases of the Alleghanian Orogeny, a strike-parallel set (II), and an oblique set (III) reflecting the contemporary stress field. Engelder and Geisler (1980) measured orientations of the joint sets in Tompkins County and throughout the Appalachian Plateau of New York. The average strike of Ib joints at 11 outcrops of the Genesee Group in Tompkins County was 341° ± 3°. The average strike of Ia joints at 2 outcrops of the Genesee Group in Tompkins County was 007° ± 3°. The average orientation of the strike-parallel joint set (II) was 82°.

Engelder and Geisler (1980) also observed that joints in the siltstones are more likely to have regular spacing, while joints in the shales were less likely to be regularly spaced. Vertically, joints tended to terminate at lithologic boundaries.

2.3 Site Hydrogeology

Groundwater is present in the overburden and in bedrock. The direction of groundwater flow in the overburden and the upper portion of fractured bedrock (B-zone) is to the northwest. Groundwater within the overburden and upper portion of fractured bedrock are in direct hydraulic communication and unconfined. The deeper zones of fractured bedrock (C- and D-zones) are under semi-confined conditions with leakance from the B-zone providing recharge to the underlying C-zone. Historic groundwater elevations from well clusters screened at greater depths within the overburden and bedrock indicate a steep, downward hydraulic gradient. A hydraulic connection (leakance) between the overburden and bedrock was confirmed by a short-duration pumping test conducted by Radian Corporation in 1990. Hydrogeologic observations made in the field are discussed in detail in Section 5.0.

3.0 Investigation Objective and Overview

The objective of the supplemental investigation was to evaluate groundwater and surface water quality in the areas north and west of the EPT facility. The investigation included the following components:

- evaluating the integrity of offsite monitoring wells MW-5-40, MW-7-40, MW-9-40, MW-10-40, and MW-17-40; making repairs, as necessary, and redeveling and sampling each usable well
- installing five groundwater monitoring wells within the upper portion of fractured bedrock (B-zone) and four groundwater monitoring wells within the unconsolidated overburden material (A-zone)
- sampling all newly installed wells and usable offsite wells
- collecting surface water samples from the drainage ditch to the north of the EPT facility along South Cayuga Street, a seep below the EPT's northern parking lot, a seep at 514 South Cayuga Street, and the cistern under the south railroad bridge abutment at the upper end of South Cayuga Street
- surveying and plotting the location of the storm sewer line that extends from the site down South Cayuga Street as well as obtain construction information from the city of Ithaca

An exploratory boring was proposed as part of the original scope of work. The boring will be completed following the completion of the proposed geophysical survey. This will allow Emerson to more accurately place the boring.

4.0 Scope of Work

This section describes the scope of work that was completed as part of the supplemental groundwater investigation. The field activities were conducted in accordance with the NYSDEC Draft DER-10 Technical Guidance for Site Investigation and Remediation, dated December 25, 2002, and Environmental Strategies' Standard Operating Procedures (SOPs), which are included as Appendix A.

In December 2004, NYSDEC approved the work plan for the installation of offsite groundwater monitoring wells around the EPT site. Four wells (MW-18A, MW-19A, MW-23B, and MW-24B) were installed and sampled in February 2005. Five wells (MW-20B, MW-21B, MW-22B, MW-25A, and MW-26A) were installed in March 2005. All nine newly installed wells and two existing wells (MW-5-40 and MW-17-40) were sampled in April 2005. A surface water seep located northwest of the R&D Building was also sampled in April 2005.

Monitoring wells MW-7-40 and MW-8-40 were sampled on May 19, 2005. The sample collected from MW-8-40 could only be analyzed for volatile organic compounds (VOCs) due to insufficient sample volume.

Water was not observed in a reported seep at 514 South Cayuga Street or within a cistern under the south railroad bridge abutment at the upper end of South Cayuga Street. Therefore, no samples were collected from these areas. Emerson will continue to inspect these structures for potential future sampling.

4.1 Monitoring Well Installation

Nine groundwater monitoring wells were installed in offsite areas downgradient of the EPT facility. Five wells were installed in the western portion of the study along Wood Street (MW-18A and MW-25A), South Geneva Street (MW-19A), South Albany (MW-26A), and West Spencer Street (MW-24B). The remaining four wells were installed in the northern portion of the study area along the EPT access Road (MW-20B), South Hill Terrace (MW-21B, and MW-22B), and South Cayuga Street (MW-23B). The well locations are shown in Figure 4.

In accordance with the approved work plan, five of the monitoring wells (MW-20B through MW-24B) were screened within the highly fractured portion of the upper bedrock zone,

approximately 6 to 12 feet below the contact between the overburden and the bedrock, and designated with a "B" qualifier. The total depth of the B-zone monitoring wells ranged from 16 to 20 feet bgs. Four of the monitoring wells (MW-18A, MW-19A, MW-25A, and MW-26A) were screened within the unconsolidated overburden material, and designated with an "A" qualifier. The total depth of the A-zone monitoring wells ranged from 17.5 to 20 feet bgs. Because of weather delays, monitoring wells MW-18A, MW-19A, MW-23B, and MW-24B were installed in February 2005 and monitoring wells MW-25A, MW-26A, MW-20B, MW-21B, and MW-22B were installed in March 2005.

Boreholes for the monitoring wells were drilled through the overburden using 8.25-inch inside-diameter (ID) hollow-stem augers. Continuous soil samples were collected from the ground surface to refusal at bedrock using 2-foot-long, split-spoon samplers. The soils recovered from the split spoons were screened for organic vapors in the field using a photoionization detector (PID). Sample descriptions and PID readings were recorded in a field notebook.

For B-zone monitoring wells, the bedrock was cored to determine the quantity of fractures and for logging purposes (Appendix B). The screened interval and final depth of the monitoring wells depended on the quantity of fractures present. The boreholes were terminated as the quantity of fractures began to diminish with depth. Once the terminal depth of each well was reached, the borehole for each well was expanded (reamed) using a 6.25-inch rotary air hammer.

The monitoring wells were constructed of 2-inch-ID threaded, flush jointed, Schedule 40 PVC blank casing attached to screens with 0.010-inch horizontal slots. The B-zone monitoring wells were constructed with a 5-foot screen length, while the A-zone monitoring wells were constructed with a 10-foot screen length. A clean sand filter pack was placed from the bottom of the well borehole to approximately 2 feet above the top of the screen. A 3-foot-thick bentonite seal was then placed on top of the sand filter pack. The remaining annular space was backfilled with a cement-bentonite grout mixture (tremie piped from the bottom to the top).

The wells were completed flush with the ground surface using protective, steel well coverings. The inner casing was fitted with a watertight lockable cap. Well construction information was recorded in a field notebook, and boring logs and as-built well construction diagrams were prepared for each monitoring well after completion of the field activities

(Appendix B). All wells were completed and installed by Parratt Wolff, Inc., a driller licensed in the state of New York, in accordance with the Environmental Conservation Law 15-1525.

Drill cuttings and water generated during monitoring well installation were contained in Department of Transportation-approved, 55-gallon steel drums. The drums were labeled and moved to a staging area on the EPT site. Water generated during the well installation was collected and added to the onsite groundwater treatment system. All solid investigative-derived waste (i.e., drill cuttings) was sampled and analyzed for disposal characterization. The investigation-derived waste was subsequently removed for offsite disposal as non-hazardous waste, consistent with state and federal law. Used protective clothing and equipment was managed in a manner consistent with the U.S. Environmental Protection Agency (EPA) Guidance Document, Management of Investigative Derived Waste During Site Inspections (May 1991), OERR 9345.3-02.

All drilling and sampling activities were conducted with clean equipment. Split-spoon samplers were decontaminated at the EPT site in accordance with Environmental Strategies' SOPs. The drilling equipment (augers and rods) was decontaminated at the EPT site using a portable steam cleaner. All decontamination fluids generated during the drilling activities were contained in 55-gallon steel drums and managed in the same manner as water generated during the well installation.

The ground surface elevations and the top of the PVC well casing at each new monitoring well were surveyed to the nearest 0.01 foot. The horizontal locations of the new wells were determined to the nearest 0.1 foot and referenced to the state plane coordinate system. A surveyor licensed in New York State surveyed the well locations and elevations. The locations and elevations of the monitoring wells were tied into the existing base map for the site.

4.1.1 Monitoring Well Development

The new monitoring wells and usable existing site wells were developed to remove sediments and to ensure effective communication between the well screens and surrounding saturated zones. The wells were developed by surging the screened interval to loosen any fine-grained sediment in the sand filter pack and adjacent aquifer material. Groundwater from the well was removed by bailing or pumping. Turbidity, pH, temperature, and specific conductance were monitored during the development process to ensure that groundwater representative of the

screened portion of the aquifer was entering the well. Development continued until the discharge was relatively free of suspended sediments. Water generated during the well development was collected in drums and added to the EPT onsite groundwater treatment system.

All development activities were conducted with clean equipment to prevent potential cross-contamination between well locations. Non-dedicated equipment was cleaned between use in each well.

4.2 Integrity of Existing Offsite Monitoring Wells

In accordance with the approved plan, offsite monitoring wells MW-5-40, MW-7-40, MW-8-40, MW-9-40, MW-10-40 and MW-17-40 were inspected to ascertain their integrity. Based on this evaluation, monitoring wells MW5-40, MW-7-40, MW-8-40, and MW-17-40 were deemed usable and were re-developed, and sampled. The casing of monitoring well MW-9-40 was completed filled with sediment and monitoring well MW-10-40 appears to have been destroyed, presumably during the West Spencer Street expansion. A proposal for the proper abandonment of well MW-9-40 will be provided to NYSDEC.

4.3 Groundwater Sampling Procedures

Before initiating sampling, water level measurements were collected from all onsite monitoring wells and the newly installed offsite monitoring wells. Water level measurements at onsite monitoring wells were collected during non-pumping conditions.

Monitoring wells were purged of a minimum of three well volumes before sampling. Measurement of pH, conductivity, temperature, and redox potential were obtained at least three times (beginning, middle, and end) during the well purging process. These parameters were allowed to stabilize before sample collection begins. The majority of monitoring wells were purged with a polyethelyne bailer. Monitoring well MW-17-40, however, was purged using a dedicated submersible pump due to the large purge volume. Groundwater samples were collected from each monitoring well for analysis of VOCs, semivolatile organic compounds (SVOCs), and polychlorinated biphenyls (PCBs) using disposable polyethylene bailers. All non-dedicated groundwater sampling equipment was decontaminated in the field. All monitoring well purging, groundwater sampling, and decontamination was conducted according to Environmental

Strategies' SOPs provided in Appendix A, which are consistent with procedures outlined in the Resource Conservation and Recovery Act's Groundwater Monitoring Technical Enforcement Guidance Document.

The surface water samples were collected from a seep north of the EPT R&D building and the storm water drainage at the upper end of South Cayuga Street following the procedures outlined in the Environmental Strategies SOPs (Appendix A). Surface water samples were also analyzed for VOCs, SVOCs, and PCBs.

Quality assurance/quality control samples, including equipment blanks, trip blanks, and duplicates, were collected in accordance with SOPs. All samples will be sealed, labeled, and placed in a cooler with ice and shipped to STL-Buffalo for analysis. Appropriate chain-of-custody procedures were followed.

Groundwater and surface water samples were measured for pH, conductivity, temperature, and redox potential in the field. All results were recorded in the field logbook. The groundwater samples were submitted to the STL-Buffalo for analysis of VOCs using EPA Method 8260B, SVOCs using EPA Method 8270, and PCBs using EPA Method 8082. Chemical analyses of groundwater were performed in accordance with Analytical Level III requirements. Field measurements were conducted in accordance with Analytical Level I requirements.

4.4 Evaluation of Storm Sewer Line on South Cayuga Street

As outlined in the approved work plan, the storm sewer line that which extends from the site and runs along the north site of South Cayuga Street was located and plotted on the site base map. Environmental Strategies contacted the Ithaca city engineer to identify the location and construction of the sewer line. The location of the storm sever line was identified and will be included in for potential future evaluation (Figure 5).

5.0 Investigation Results

5.1 Hydrogeologic Observations

According a United States Geological Survey Report (*Unconsolidated Aquifers in Tompkins County,* Miller T.S., 2000), the groundwater in the area between the EPT facility and West Spencer Street (South Hill) is unconfined within the glacial till (A-zone) and underlying fractured bedrock (B-zone). Groundwater west of West Spencer Street is confined within a sand and gravel aquifer that is overlain by fine grained lacustrine deposits (fine grained sand, silt and clay). This is consistent with observation made in the field (Figure 3). A review of boring logs for the wells installed west of West Spencer Street show that approximately 6 to 10 feet of low permeability silt and clay material overly the sand and gravel aquifer deposits.

Based on groundwater elevation data collected on May 19, 2005, the direction of groundwater flow within the shallow bedrock (B-zone) aquifer and the hydraulically connected sand and gravel aquifer is to the northwest, as anticipated (Figure 6). The overall pattern of flow generally mimics the surface topography, with a steep gradient observed between the EPT facility and West Spencer Street (South Hill) and a flatter gradient west of West Spencer Street. The depth to groundwater in the shallow bedrock aquifer ranged between 3.42 feet bgs in MW-24B to 13.96 bgs in MW-21B with a steep hydraulic gradient of 0.27 feet per foot. The depth to groundwater in the sand and gravel aquifer ranged between 5.11 feet bgs and 7.02 feet bgs with a flatter hydraulic gradient 0.027 feet per foot.

5.2 Groundwater Quality

The groundwater sampling results are summarized in Table 2 and include sampling events for February, April, and May 2005. The groundwater results are shown in Figure 7 and the laboratory data sheets are included in Appendix C.

5.2.1 February 2005 Results

The results of groundwater samples collected from monitoring wells MW-18A, MW-19A, MW-23B, and MW-24B show that no site related VOCs were detected in groundwater at concentrations above state drinking water standards. Only a trace levels of 1,1,1-trichloroethane (TCA) and trichloroethene (TCE) were detected in one of the four wells sampled.

Monitoring well MW-23B contained detectable levels of TCA at 2.2 micrograms per liter (µg/l) and TCE at 1.0 µg/l. Other VOCs were detected at estimated values below the laboratory Practical Quantitation Limit and are considered non-detect values. The February groundwater sampling results also demonstrate that no SVOCs or PCBs are present in offsite groundwater in this area.

5.2.2 April and May 2005 Sampling Events

Results of the nine newly installed monitoring wells and existing offsite wells MW-17-40 MW-8-40 show that only a trace level of TCE was detected in one (MW-21B) of the 11 offsite wells sampled. The sample from monitoring well MW-21B contained 2.7 µg/l of TCE, which is well below the state drinking water standard of 5 µg/l. No SVOCs or PCBs were detected in any of the samples collected from the offsite groundwater monitoring wells.

Onsite monitoring well MW-5-40, which is located upgradient of the fire water reservoir and treatment area, contained VOC concentrations above the remediation target levels established for the EPT site. The primary compounds detected were TCE (31,000 µg/l) and its associated degradation products 1,1,-DCE (37 µg/l), cis-1,2,-DCE (27,000 µg/l), trans-DCE (150 µg/l), and vinyl chloride (350 µg/l). No SVOCs or PCBs were detected in the sample collected from MW-5-40.

In addition, monitoring well MW-7-40, which is located on the NYSEG substation property approximately 150 west/northwest of the current remediation area, contained cis-1,2-DCE (120 µg/l) and vinyl chloride (49 µg/l) at levels exceeding the remediation target levels of the site. These compounds and levels are consistent with samples previously collected from this well. No SVOCs or PCBs were detected.

5.2.3 Seep and Drainage Ditch Sampling

The results of the surface water samples collected from the seep located northwest of the R&D Building did not contain any site-related VOCs, SVOCs, or PCBs. No SVOCs or PCB were detected in the surface water sample collected from the drainage ditch along South Cayuga. The only VOC detected was cis-1,2-DCE at a concentration of 5.5 µg/l. The analytical results for the surface water samples collected during this investigation are presented in Table 3. Copies of the certified laboratory reports for these samples are provided in Appendix C.

6.0 Conclusions

The sampling results indicated that groundwater monitoring wells installed in the western portion of the study contain no VOCs, SVOCs, or PCBs. No site related compounds were detected in the six wells sampled in this area. In the northern portion of the study area, only one of the five wells contained a trace level (below the state drinking water standard) of one site related compound, based on the April/May 2005 sampling results. As anticipated, onsite groundwater near the original source area (fire water reservoir) remains affected at levels that exceed remediation target levels for the EPT site.

Although the April and May 2005 results indicate that only one of the 11 offsite wells contained a trace level of a one site-related VOC, Emerson recognizes the complex nature of the site geology. For this reason, Emerson has proposed to conduct a geophysical survey to identify and map water-bearing bedrock fractures that may serve as offsite migration pathways for affected groundwater. Emerson has also proposed the installation of three additional bedrock wells immediately downgradient of the current remediation area and west/northwest of the NYSEG substation property. The results of the geophysical survey and additional groundwater investigation, will serve as the basis for determining the scope of potential further assessment activities in the subject area.

Figures

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Figure 1
Site Layout
Emerson Power Transmission
Ithaca, New York

12749174.DWG

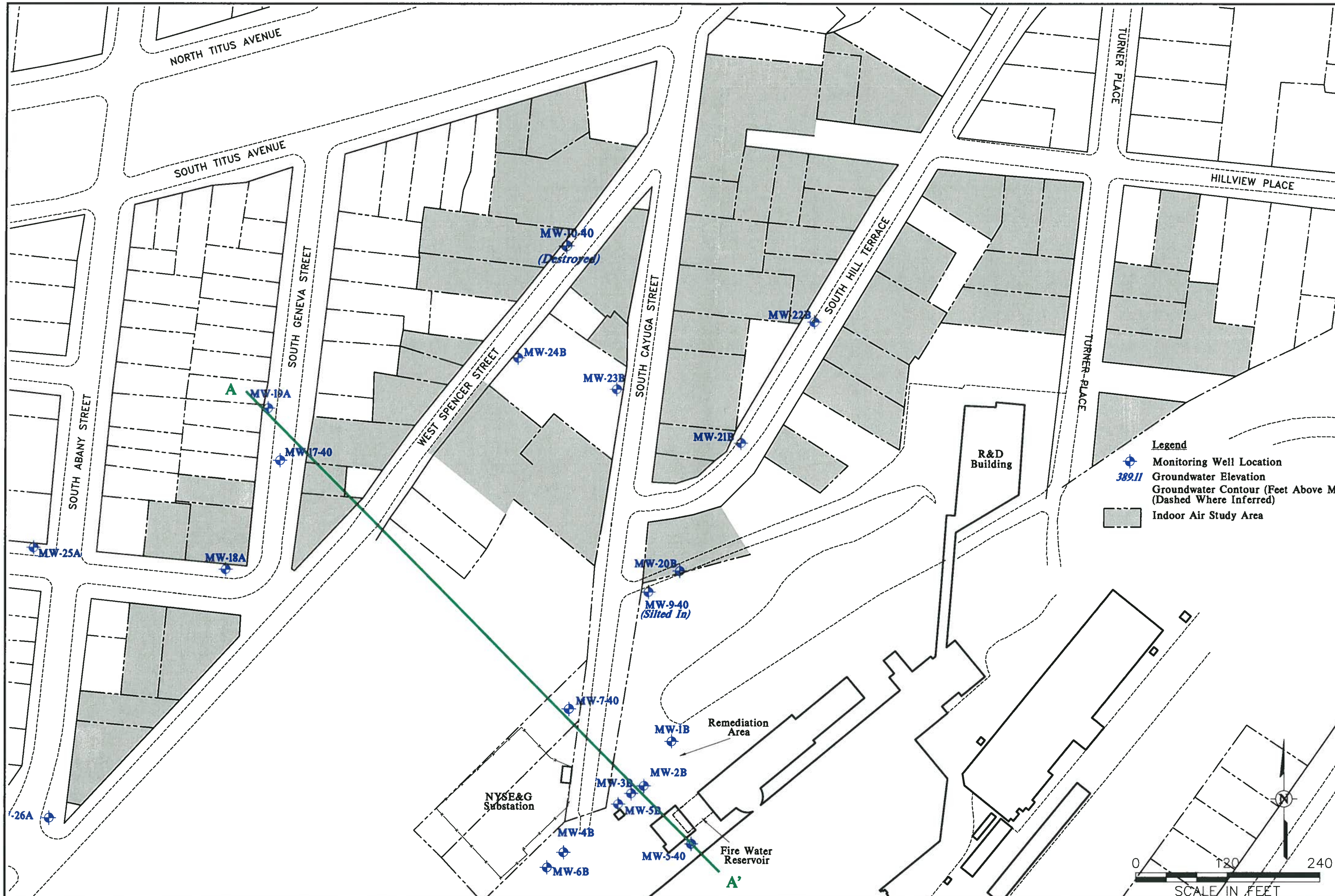

Figure 2
Geologic Cross-Section A-A' Location
Emerson Power Transmission
Ithaca, New York

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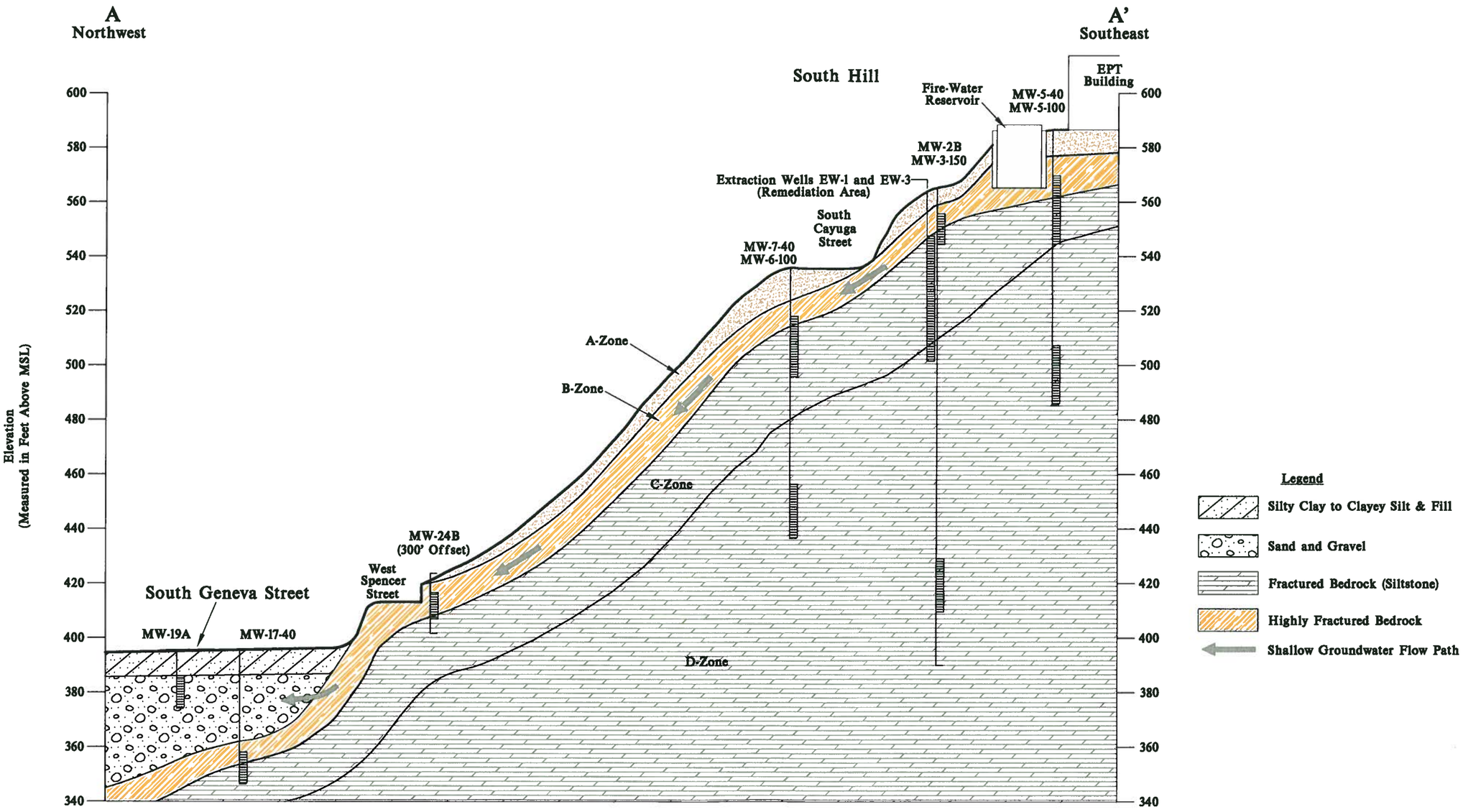

Generalized Geologic Cross Section

Figure 3
Generalized Geologic Cross-Section A-A'
Emerson Power Transmission
Ithica, New York

12749177.DWG

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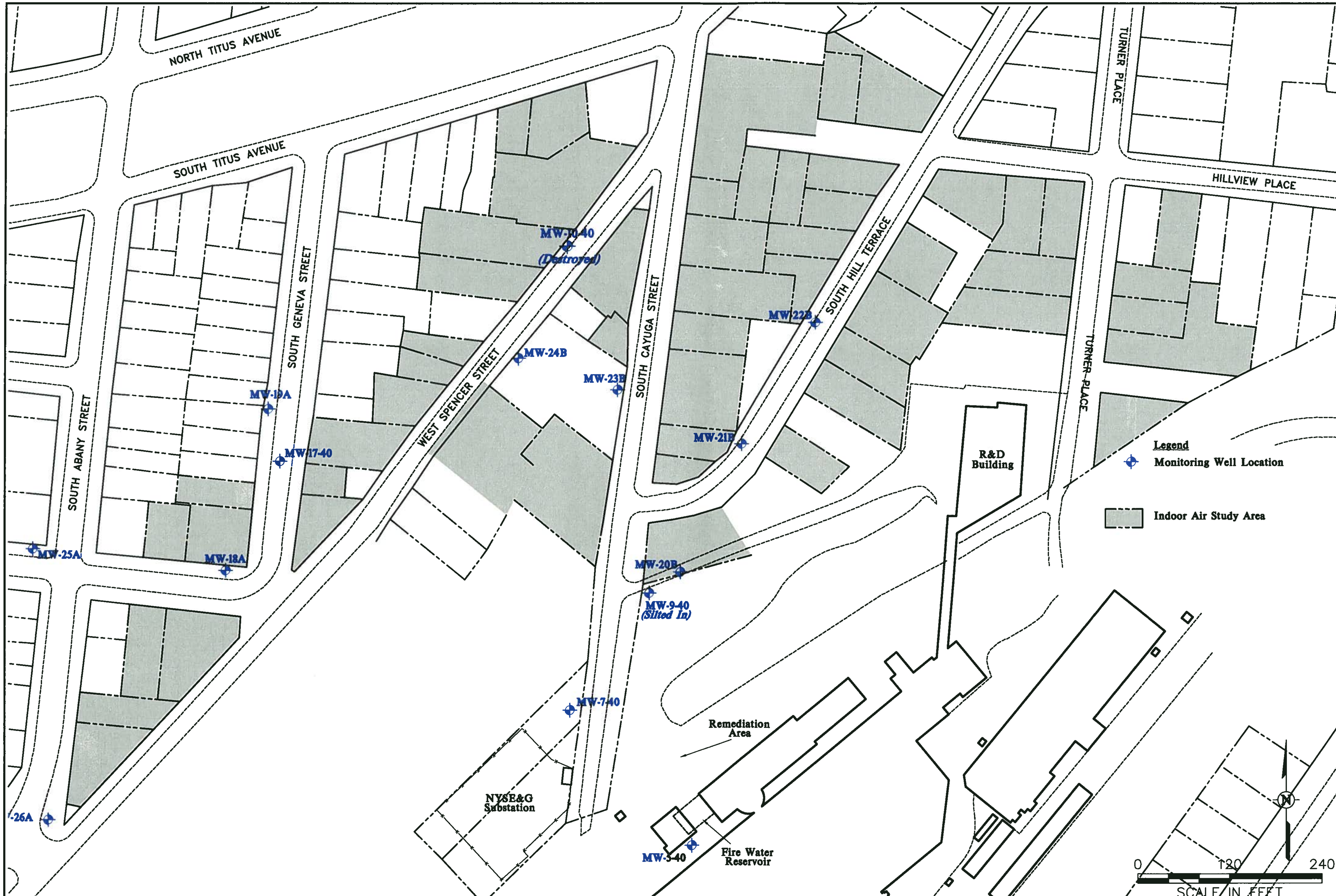

Figure 4
Groundwater Monitoring Well Locations
Emerson Power Transmission
Ithaca, New York

12749176A.DWG

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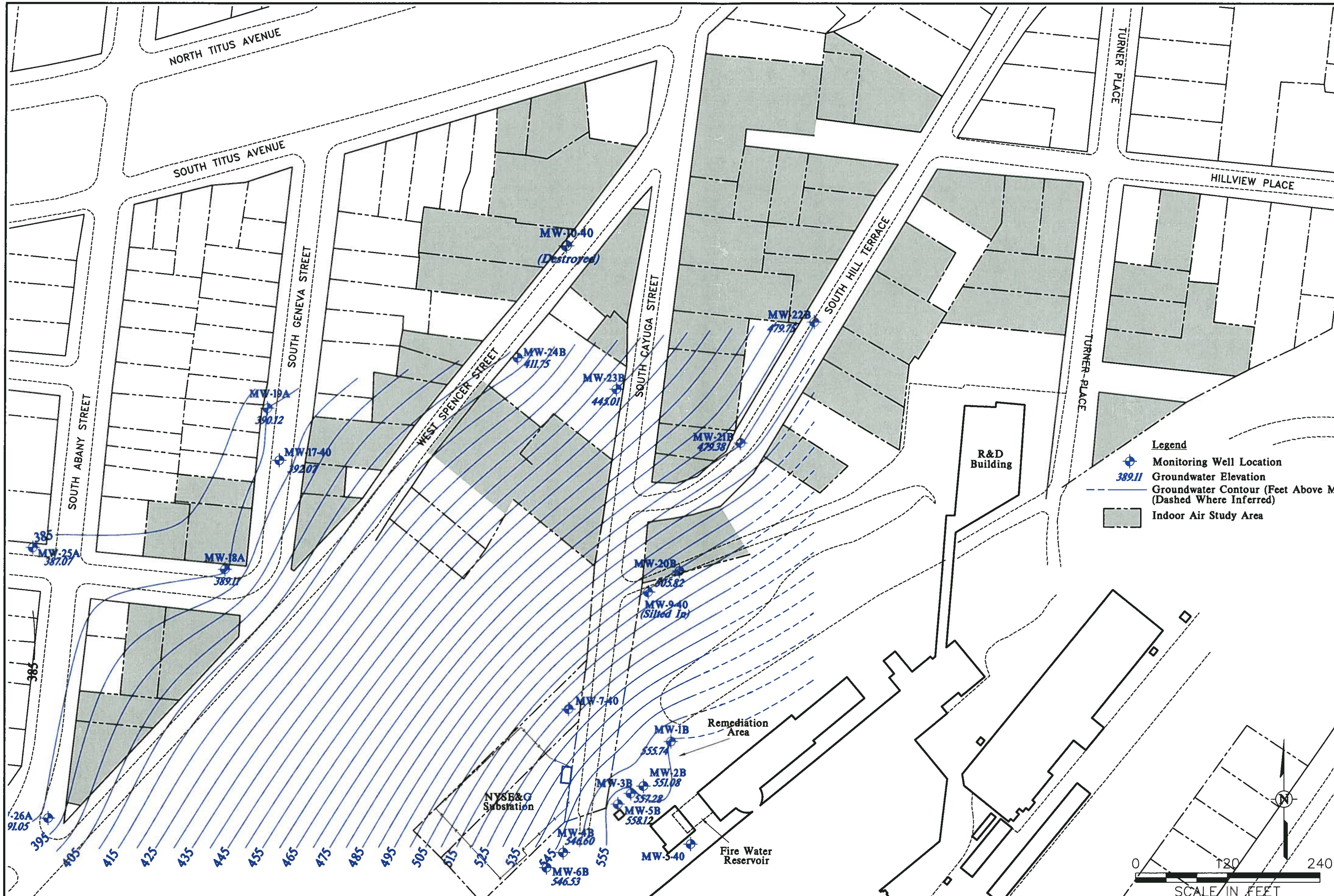
Figure 5
South Cayuga Street Sewer Line Location
Emerson Power Transmission
Ithaca, New York

12749180.DWG



12749176.DWG

Figure 6
Groundwater Elevations - A/B Zones (May 2005)
Emerson Power Transmission
Ithaca, New York

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NORTH TITUS AVENUE

SOUTH TITUS AVENUE

SOUTH ABANY STREET

SOUTH GENEVA STREET

WEST SPENCER STREET

SOUTH CAYUGA STREET

SOUTH HILL TERRACE

TURNER PLACE

HILLVIEW PLACE

Well Destroyed
MW-10-40

2/25/05 | 4/8/05
All ND | All ND

MW-24B

MW-23B

MW-19A

2/25/05 | 4/8/05
All ND | All ND

MW-17-40

4/7/05
All ND

4/8/05
All ND

MW-25A

MW-18A

2/25/05 | 4/8/05
All ND | All ND

2/25/05	4/8/05
1,1,1-TCA 2.2 TCE 1	All ND

5/19/05	
cis-1,2-DCE	120
trans-1,2-DCE	3.3
Vinyl Chloride	49

MW-7-40

MW-26A

4/8/05
All ND

NYSE&G Substation

Fire Water Reservoir

Remediation Area

4/7/05
All ND

MW-22B

Seep-1

2/25/05
All ND

MW-21B

4/7/05
TCE 2.7

R&D Building

MW-20B

MW-8-40

MW-9-40

Silted In

4/7/05
All ND

5/19/05
All ND

4/7/05	
cis-1,2-DCE	27,000
trans-1,2-DCE	150
TCE	31,000
Vinyl Chloride	350

MW-5-40

Legend
- Monitoring Well Location
- New Offsite Monitoring Well Location
- Seep
- Indoor Air Study Area
- ND Not Detected

Note: All Concentrations in ug/l.

Site Related VOCs
1,1,1-Trichloroethane
1,2-Dichloroethane
cis-1,2-Dichloroethene
Methylene Chloride
Tetrachloroethylene
Trans-1,2-Dichloroethene
Trichloroethene
Vinyl Chloride

N

0 120 240
SCALE IN FEET

Figure 7
Groundwater and Seep Sampling Results (February/April/May 2005)
Emerson Power Transmission
Ithaca, New York

1274916SC.DWG

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Tables

Table 1

Groundwater Elevation Data
Emerson Power Transmission
Ithaca, New York

Well Number	PVC Casing Elevation (ft MSL)	5/18/2005 Depth to Groundwater (ft)	5/18/2005 Water Level Elevation (ft MSL)
MW-17-40*	395.65	3.58	392.07
MW-18A	396.13	7.02	389.11
MW-19A	395.52	5.40	390.12
MW-25A	392.18	5.11	387.07
MW-26A	397.29	6.24	391.05
MW-5-40*	586.93	31.72	555.21
MW-1B	569.91	14.17	555.74
MW-2B	565.13	14.05	551.08
MW-3B	565.58	8.30	557.28
MW-4B	565.00	18.40	546.60
MW-5B	564.62	6.50	558.12
MW-6B	559.59	13.06	546.53
MW-20B	517.26	11.44	505.82
MW-21B	493.34	13.96	479.38
MW-22B	490.63	10.88	479.75
MW-23B	458.15	13.14	445.01
MW-24B	415.17	3.42	411.75

a/ MSL = mean sea level
* Approximate Groundwater Elevation

Table 2

Preliminary Groundwater Sampling Results
Emerson Power Transmission
Ithaca, New York
February, April, May 2005 (ug/l)

Sample ID:	MW-17-40	MW-17-40 1000	MW-18A	MW-18A	MW-19A	MW-19A 100 (b)	MW-19A
Date:	4/7/05	4/7/05	2/25/05	4/8/05	2/25/05	2/25/05	4/8/05
VOCs (ug/l)							
Acetone	5.0 U	5.0 U	30	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	5.0 U	5.0 U	13	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromomethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dicbromo-3-chloropropane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1- Dichloroethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	1.0 U	1.0 U	4.5	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Methyl-2-pentanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert butyl ether	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluorethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylene (total)	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U

Table 2

Preliminary Groundwater Sampling Results
Emerson Power Transmission
Ithaca, New York
February, April, May 2005 (ug/l)

Sample ID:	MW-17-40	MW-17-40 1000	MW-18A	MW-18A	MW-19A	MW-19A 100 (b)	MW-19A
Date:	4/7/05	4/7/05	2/25/05	4/8/05	2/25/05	2/25/05	4/8/05
Semivolatile Organic Compounds							
Acenaphthene	10 U	10 U	10 U	10 U	10 U	9 U	10 U
Acenaphthylene	10 U	10 U	10 U	10 U	10 U	9 U	10 U
Acetophenone	10 U	10 U	10 U	10 U	10 U	9 U	10 U
Anthracene	10 U	10 U	10 U	10 U	10 U	9 U	10 U
Atrazine	10 U	10 U	10 U	10 U	10 U	9 U	10 U
Benzaldehyde	52 U	50 U	49 U	48 U	50 U	47 U	48 U
Benzo(a)anthracene	10 U	10 U	10 U	10 U	10 U	9 U	10 U
Benzo(b)fluoranthene	10 U	10 U	10 U	10 U	10 U	9 U	10 U
Benzo(k)fluoranthene	10 U	10 U	10 U	10 U	10 U	9 U	10 U
Benzo(ghi)perylene	10 U	10 U	10 U	10 U	10 U	9 U	10 U
Benzo(a)pyrene	10 U	10 U	10 U	10 U	10 U	9 U	10 U
Benzoic acid	150 U	150 U	150 U	140 U	150 U	140 U	140 U
Benzyl alcohol	21 U	20 U	20 U	19 U	20 U	19 U	19 U
Biphenyl	10 U	10 U	10 U	10 U	10 U	9 U	10 U
Bis(2-chloroethoxy) methane	10 U	10 U	10 U	10 U	10 U	9 U	10 U
Bis(2-chloroethyl) ether	10 U	10 U	10 U	10 U	10 U	9 U	10 U
2,2'-Oxybis(1-Chlorophopane)	10 U	10 U	10 U	10 U	10 U	9 U	10 U
Bis(2-ethylhexyl) phthalate	10 U	10 U	10 U	10 U	10 U	9 U	10 U
4-Bromophenyl phenyl ether	10 U	10 U	10 U	10 U	10 U	9 U	10 U
Butyl benzyl phthalate	10 U	10 U	10 U	10 U	10 U	9 U	10 U
4-Chloroaniline	10 U	10 U	10 U	10 U	10 U	9 U	10 U
4-Chloro-3-methylphenol	10 U	10 U	10 U	10 U	10 U	9 U	10 U
2-Chloronaphthalene	10 U	10 U	10 U	10 U	10 U	9 U	10 U
2-Chlorophenol	10 U	10 U	10 U	10 U	10 U	9 U	10 U
4-Chlorophenyl phenyl ether	10 U	10 U	10 U	10 U	10 U	9 U	10 U
Caprolactum	10 U	10 U	10 U	10 U	10 U	9 U	10 U
Chrysene	10 U	10 U	10 U	10 U	10 U	9 U	10 U
Dibenzo(a,h)anthracene	10 U	10 U	10 U	10 U	10 U	9 U	10 U
Dibenzofuran	10 U	10 U	10 U	10 U	10 U	9 U	10 U
Di-n-butyl phthalate	10 U	10 U	10 U	10 U	10 U	9 U	10 U
1,2-Dichlorobenzene	10 U	10 U	10 U	10 U	10 U	9 U	10 U
1,3-Dichlorobenzene	10 U	10 U	10 U	10 U	10 U	9 U	10 U
1,4-Dichlorobenzene	10 U	10 U	10 U	10 U	10 U	9 U	10 U
3,3'-dichlorobenzidine	21 U	20 U	20 U	19 U	20 U	19 U	19 U
2,4-Dichlorophenol	10 U	10 U	10 U	10 U	10 U	9 U	10 U
Diethyl phthalate	10 U	10 U	10 U	10 U	10 U	9 U	10 U
2,4-Dimethylphenol	10 U	10 U	10 U	10 U	10 U	9 U	10 U
Dimethyl phthalate	10 U	10 U	10 U	10 U	10 U	9 U	10 U
4,6-Dinitro-2-methylphenol	52 U	50 U	49 U	48 U	50 U	47 U	48 U
2,4-Dinitrophenol	52 U	50 U	49 U	48 U	50 U	47 U	48 U
2,4-Dinitrotoluene	10 U	10 U	10 U	10 U	10 U	9 U	10 U
2,6-Dinitrotoluene	10 U	10 U	10 U	10 U	10 U	9 U	10 U
Di-n-octyl phthalate	10 U	10 U	10 U	10 U	10 U	9 U	10 U
Fluoranthene	10 U	10 U	10 U	10 U	10 U	9 U	10 U
Fluorene	10 U	10 U	10 U	10 U	10 U	9 U	10 U
Hexachlorobenzene	10 U	10 U	10 U	10 U	10 U	9 U	10 U
Hexachlorobutadiene	10 U	10 U	10 U	10 U	10 U	9 U	10 U
Hexachlorocyclopentadiene	46 U	45 U	44 U	43 U	44 U	42 U	43 U
Hexachloroethane	10 U	10 U	10 U	10 U	10 U	9 U	10 U
Indeno(1,2,3-cd)pyrene	10 U	10 U	10 U	10 U	10 U	9 U	10 U
Isophorone	10 U	10 U	10 U	10 U	10 U	9 U	10 U
2-Methylnaphthalene	10 U	10 U	10 U	10 U	10 U	9 U	10 U
2-Methylphenol	10 U	10 U	10 U	10 U	10 U	9 U	10 U
4-Methylphenol	10 U	10 U	10 U	57	10 U	9 U	10 U

Table 2

Preliminary Groundwater Sampling Results
Emerson Power Transmission
Ithaca, New York
February, April, May 2005 (ug/l)

Sample ID:	MW-17-40	MW-17-40 1000	MW-18A	MW-18A	MW-19A	MW-19A 100 (b)	MW-19A
Date:	4/7/05	4/7/05	2/25/05	4/8/05	2/25/05	2/25/05	4/8/05
Semivolatile Organic Compounds (continued)							
Naphthalene	10 U	10 U	10 U	10 U	10 U	9 U	10 U
2-Nitroaniline	52 U	50 U	49 U	48 U	50 U	47 U	48 U
3-Nitroaniline	52 U	50 U	49 U	48 U	50 U	47 U	48 U
4-Nitroaniline	52 U	50 U	49 U	48 U	50 U	47 U	48 U
Nitrobenzene	10 U	10 U	10 U	10 U	10 U	9 U	10 U
2-Nitrophenol	10 U	10 U	10 U	10 U	10 U	9 U	10 U
4-Nitrophenol	52 U	50 U	49 U	48 U	50 U	47 U	48 U
N-Nitrosodiphenylamine	10 U	10 U	10 U	10 U	10 U	9 U	10 U
N-Nitroso-Di-n-propylamine	10 U	10 U	10 U	10 U	10 U	9 U	10 U
Pentachlorophenol	52 U	50 U	49 U	48 U	50 U	47 U	48 U
Phenanthrene	10 U	10 U	10 U	10 U	10 U	9 U	10 U
Phenol	10 U	10 U	10 U	10 U	10 U	9 U	10 U
Pyrene	10 U	10 U	10 U	10 U	10 U	9 U	10 U
1,2,4-Trichlorobenzene	10 U	10 U	10 U	10 U	10 U	9 U	10 U
2,4,5-Trichlorophenol	10 U	10 U	10 U	10 U	10 U	9 U	10 U
2,4,6-Trichlorophenol	10 U	10 U	10 U	10 U	10 U	9 U	10 U
Polychlorinated Biphenyls							
Aroclor 1016	0.48 U	0.48 U	0.50 U	0.48 U	0.48 U	0.50 U	0.48 U
Aroclor 1221	0.48 U	0.48 U	0.50 U	0.48 U	0.48 U	0.50 U	0.48 U
Aroclor 1232	0.48 U	0.48 U	0.50 U	0.48 U	0.48 U	0.50 U	0.48 U
Aroclor 1242	0.48 U	0.48 U	0.50 U	0.48 U	0.48 U	0.50 U	0.48 U
Aroclor 1248	0.48 U	0.48 U	0.50 U	0.48 U	0.48 U	0.50 U	0.48 U
Aroclor 1254	0.48 U	0.48 U	0.50 U	0.48 U	0.48 U	0.50 U	0.48 U
Aroclor 1260	0.48 U	0.48 U	0.50 U	0.48 U	0.48 U	0.50 U	0.48 U

Table 2

Preliminary Groundwater Sampling Results
Emerson Power Transmission
Ithaca, New York
February, April, May 2005 (ug/l)

Sample ID:	MW-20B	MW-21B	MW-22B	MW-23B	MW-23B	MW-24B	MW-24B
Date:	4/7/05	4/7/05	4/7/05	2/25/05	4/8/05	2/25/05	4/8/05
VOCs (ug/l)							
Acetone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	13	5.0 U
Benzene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	1.0 U	1.0 U	1.0 U	1.3	1.0 U	1.0 U	1.0 U
Chloromethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromomethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dicbromo-3-chloropropane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1- Dichloroethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Methyl-2-pentanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert butyl ether	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.6	1.3
1,2,4-Trichlorobenzene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	1.0 U	1.0 U	1.0 U	2.2	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluorethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	1.0 U	2.7	1.0 U	1.0	1.0 U	1.0 U	1.0 U
Vinyl Chloride	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylene (total)	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U

Table 2

Preliminary Groundwater Sampling Results
Emerson Power Transmission
Ithaca, New York
February, April, May 2005 (ug/l)

Sample ID:	MW-20B	MW-21B	MW-22B	MW-23B	MW-23B	MW-24B	MW-24B
Date:	4/7/05	4/7/05	4/7/05	2/25/05	4/8/05	2/25/05	4/8/05
Semivolatile Organic Compounds							
Acenaphthene	10 U	12 U	12 U	10 U	14 U	10 U	10 U
Acenaphthylene	10 U	12 U	12 U	10 U	14 U	10 U	10 U
Acetophenone	10 U	12 U	12 U	10 U	14 U	10 U	10 U
Anthracene	10 U	12 U	12 U	10 U	14 U	10 U	10 U
Atrazine	10 U	12 U	12 U	10 U	14 U	10 U	10 U
Benzaldehyde	52 U	58 U	59 U	48 U	69 U	50 U	48 U
Benzo(a)anthracene	10 U	12 U	12 U	10 U	14 U	10 U	10 U
Benzo(b)fluoranthene	10 U	12 U	12 U	10 U	14 U	10 U	10 U
Benzo(k)fluoranthene	10 U	12 U	12 U	10 U	14 U	10 U	10 U
Benzo(ghi)perylene	10 U	12 U	12 U	10 U	14 U	10 U	10 U
Benzo(a)pyrene	10 U	12 U	12 U	10 U	14 U	10 U	10 U
Benzoic acid	160 U	170 U	180 U	140 U	210 U	150 U	140 U
Benzyl alcohol	21 U	23 U	24 U	19 U	28 U	20 U	19 U
Biphenyl	10 U	12 U	12 U	10 U	14 U	10 U	10 U
Bis(2-chloroethoxy) methane	10 U	12 U	12 U	10 U	14 U	10 U	10 U
Bis(2-chloroethyl) ether	10 U	12 U	12 U	10 U	14 U	10 U	10 U
2,2'-Oxybis(1-Chlorophopane)	10 U	12 U	12 U	10 U	14 U	10 U	10 U
Bis(2-ethylhexyl) phthalate	10 U	12 U	12 U	10 U	14 U	10 U	10 U
4-Bromophenyl phenyl ether	10 U	12 U	12 U	10 U	14 U	10 U	10 U
Butyl benzyl phthalate	10 U	12 U	12 U	10 U	14 U	10 U	10 U
4-Chloroaniline	10 U	12 U	12 U	10 U	14 U	10 U	10 U
4-Chloro-3-methylphenol	10 U	12 U	12 U	10 U	14 U	10 U	10 U
2-Chloronaphthalene	10 U	12 U	12 U	10 U	14 U	10 U	10 U
2-Chlorophenol	10 U	12 U	12 U	10 U	14 U	10 U	10 U
4-Chlorophenyl phenyl ether	10 U	12 U	12 U	10 U	14 U	10 U	10 U
Caprolactum	10 U	12 U	12 U	10 U	14 U	10 U	10 U
Chrysene	10 U	12 U	12 U	10 U	14 U	10 U	10 U
Dibenzo(a,h)anthracene	10 U	12 U	12 U	10 U	14 U	10 U	10 U
Dibenzofuran	10 U	12 U	12 U	10 U	14 U	10 U	10 U
Di-n-butyl phthalate	10 U	12 U	12 U	10 U	14 U	10 U	10 U
1,2-Dichlorobenzene	10 U	12 U	12 U	10 U	14 U	10 U	10 U
1,3-Dichlorobenzene	10 U	12 U	12 U	10 U	14 U	10 U	10 U
1,4-Dichlorobenzene	10 U	12 U	12 U	10 U	14 U	10 U	10 U
3,3'-dichlorobenzidine	21 U	23 U	24 U	19 U	28 U	20 U	19 U
2,4-Dichlorophenol	10 U	12 U	12 U	10 U	14 U	10 U	48 U
Diethyl phthalate	10 U	12 U	12 U	10 U	14 U	10 U	10 U
2,4-Dimethylphenol	10 U	12 U	12 U	10 U	14 U	10 U	10 U
Dimethyl phthalate	10 U	12 U	12 U	10 U	14 U	10 U	10 U
4,6-Dinitro-2-methylphenol	52 U	58 U	59 U	48 U	69 U	50 U	48 U
2,4-Dinitrophenol	52 U	58 U	59 U	48 U	69 U	50 U	48 U
2,4-Dinitrotoluene	10 U	12 U	12 U	10 U	14 U	10 U	10 U
2,6-Dinitrotoluene	10 U	12 U	12 U	10 U	14 U	10 U	10 U
Di-n-octyl phthalate	10 U	12 U	12 U	10 U	14 U	10 U	10 U
Fluoranthene	10 U	12 U	12 U	10 U	14 U	10 U	10 U
Fluorene	10 U	12 U	12 U	10 U	14 U	10 U	10 U
Hexachlorobenzene	10 U	12 U	12 U	10 U	14 U	10 U	10 U
Hexachlorobutadiene	10 U	12 U	12 U	10 U	14 U	10 U	10 U
Hexachlorocyclopentadiene	47 U	52 U	53 U	43 U	62 U	45 U	43 U
Hexachloroethane	10 U	12 U	12 U	10 U	14 U	10 U	48 U
Indeno(1,2,3-cd)pyrene	10 U	12 U	12 U	10 U	14 U	10 U	10 U
Isophorone	10 U	12 U	12 U	10 U	14 U	10 U	10 U
2-Methylnaphthalene	10 U	12 U	12 U	10 U	14 U	10 U	10 U
2-Methylphenol	10 U	12 U	12 U	10 U	14 U	10 U	10 U
4-Methylphenol	10 U	12 U	12 U	10 U	14 U	10 U	10 U

Table 2

Preliminary Groundwater Sampling Results
Emerson Power Transmission
Ithaca, New York
February, April, May 2005 (ug/l)

Sample ID:	MW-20B	MW-21B	MW-22B	MW-23B	MW-23B	MW-24B	MW-24B
Date:	4/7/05	4/7/05	4/7/05	2/25/05	4/8/05	2/25/05	4/8/05
Semivolatile Organic Compounds (continued)							
Naphthalene	10 U	12 U	12 U	10 U	14 U	10 U	10 U
2-Nitroaniline	52 U	58 U	59 U	48 U	69 U	50 U	48 U
3-Nitroaniline	52 U	58 U	59 U	48 U	69 U	50 U	48 U
4-Nitroaniline	52 U	58 U	59 U	48 U	69 U	50 U	48 U
Nitrobenzene	10 U	12 U	12 U	10 U	14 U	10 U	10 U
2-Nitrophenol	10 U	12 U	12 U	10 U	14 U	10 U	10 U
4-Nitrophenol	52 U	58 U	59 U	48 U	69 U	50 U	48 U
N-Nitrosodiphenylamine	10 U	12 U	12 U	10 U	14 U	10 U	10 U
N-Nitroso-Di-n-propylamine	10 U	12 U	12 U	10 U	14 U	10 U	10 U
Pentachlorophenol	52 U	58 U	59 U	48 U	69 U	50 U	48 U
Phenanthrene	10 U	12 U	12 U	10 U	14 U	10 U	10 U
Phenol	10 U	12 U	12 U	10 U	14 U	10 U	10 U
Pyrene	10 U	12 U	12 U	10 U	14 U	10 U	10 U
1,2,4-Trichlorobenzene	10 U	12 U	12 U	10 U	14 U	10 U	10 U
2,4,5-Trichlorophenol	10 U	12 U	12 U	10 U	14 U	10 U	10 U
2,4,6-Trichlorophenol	10 U	12 U	12 U	10 U	14 U	10 U	10 U
Polychlorinated Biphenyls							
Aroclor 1016	0.50 U	0.57 U	0.50 U	0.48 U	0.53 U	0.51 U	0.53 U
Aroclor 1221	0.50 U	0.57 U	0.50 U	0.48 U	0.53 U	0.51 U	0.53 U
Aroclor 1232	0.50 U	0.57 U	0.50 U	0.48 U	0.53 U	0.51 U	0.53 U
Aroclor 1242	0.50 U	0.57 U	0.50 U	0.48 U	0.53 U	0.51 U	0.53 U
Aroclor 1248	0.50 U	0.57 U	0.50 U	0.48 U	0.53 U	0.51 U	0.53 U
Aroclor 1254	0.50 U	0.57 U	0.50 U	0.48 U	0.53 U	0.51 U	0.53 U
Aroclor 1260	0.50 U	0.57 U	0.50 U	0.48 U	0.53 U	0.51 U	0.53 U

Table 2

Preliminary Groundwater Sampling Results
Emerson Power Transmission
Ithaca, New York
February, April, May 2005 (ug/l)

Sample ID:	MW-25A	MW-26A	MW-5-40	MW-7-40	MW-8-40 (c)
Date:	4/8/05	4/8/05	4/7/05	5/19/05	5/19/05
VOCs (ug/l)					
Acetone	5.0 U	5.0 U	100 U	5.0 U	5.0 U
Benzene	1.0 U	1.0 U	20 U	1.0 U	1.0 U
Bromodichloromethane	1.0 U	1.0 U	20 U	1.0 U	1.0 U
Bromoform	1.0 U	1.0 U	20 U	1.0 U	1.0 U
Bromomethane	1.0 U	1.0 U	20 U	1.0 U	1.0 U
2-Butanone	5.0 U	5.0 U	100 U	5.0 U	5.0 U
Carbon disulfide	1.0 U	1.0 U	20 U	1.0 U	1.0 U
Carbon tetrachloride	1.0 U	1.0 U	20 U	1.0 U	1.0 U
Chlorobenzene	1.0 U	1.0 U	20 U	1.0 U	1.0 U
Chloroethane	1.0 U	1.0 U	20 U	1.0 U	1.0 U
Chloroform	1.0 U	1.0 U	20 U	1.0 U	1.0 U
Chloromethane	1.0 U	1.0 U	20 U	1.0 U	1.0 U
Cyclohexane	1.0 U	1.0 U	20 U	1.0 U	1.0 U
1,2-Dibromomethane	1.0 U	1.0 U	20 U	1.0 U	1.0 U
Dibromochloromethane	1.0 U	1.0 U	20 U	1.0 U	1.0 U
1,2-Dicbromo-3-chloropropane	1.0 U	1.0 U	20 U	1.0 U	1.0 U
1,2-Dichlorobenzene	1.0 U	1.0 U	20 U	1.0 U	1.0 U
1,3-Dichlorobenzene	1.0 U	1.0 U	20 U	1.0 U	1.0 U
1,4-Dichlorobenzene	1.0 U	1.0 U	20 U	1.0 U	1.0 U
Dichlorodifluoromethane	1.0 U	1.0 U	20 U	1.0 U	1.0 U
1,1- Dichloroethane	1.0 U	1.0 U	20 U	1.0 U	1.0 U
1,2-Dichloroethane	1.0 U	1.0 U	20 U	1.0 U	1.0 U
1,1-Dichloroethene	1.0 U	1.0 U	37	1.0 U	1.0 U
cis-1,2-Dichloroethene	1.0 U	1.0 U	27,000 D	120 D	1.0 U
trans-1,2-Dichloroethene	1.0 U	1.0 U	150	3.3	1.0 U
1,2-Dichloropropane	1.0 U	1.0 U	20 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	1.0 U	1.0 U	20 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	1.0 U	1.0 U	20 U	1.0 U	1.0 U
Ethylbenzene	1.0 U	1.0 U	20 U	1.0 U	1.0 U
2-Hexanone	5.0 U	5.0 U	100 U	5.0 U	5.0 U
Isopropylbenzene	1.0 U	1.0 U	20 U	1.0 U	1.0 U
Methyl acetate	1.0 U	1.0 U	20 U	1.0 U	1.0 U
Methylcyclohexane	1.0 U	1.0 U	20 U	1.0 U	1.0 U
Methylene chloride	1.0 U	1.0 U	20 U	1.0 U	1.0 U
4-Methyl-2-pentanone	5.0 U	5.0 U	100 U	5.0 U	5.0 U
Methyl tert butyl ether	1.0 U	1.0 U	20 U	1.0 U	1.0 U
Styrene	1.0 U	1.0 U	20 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	20 U	1.0 U	1.0 U
Tetrachloroethene	1.0 U	1.0 U	20 U	1.0 U	1.0 U
Toluene	1.0 U	1.0 U	20 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	1.0 U	1.0 U	20 U	1.0 U	1.0 U
1,1,1-Trichloroethane	1.0 U	1.0 U	20 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1.0 U	1.0 U	20 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluorethane	1.0 U	1.0 U	20 U	1.0 U	1.0 U
Trichlorofluoromethane	1.0 U	1.0 U	20 U	1.0 U	1.0 U
Trichloroethene	1.0 U	1.0 U	31,000 D	1.0 U	1.0 U
Vinyl Chloride	1.0 U	1.0 U	350	49 D	1.0 U
Xylene (total)	3.0 U	3.0 U	60 U	3.0 U	3.0 U

Table 2

Preliminary Groundwater Sampling Results
Emerson Power Transmission
Ithaca, New York
February, April, May 2005 (ug/l)

Sample ID:	MW-25A	MW-26A	MW-5-40	MW-7-40	MW-8-40 (c)
Date:	4/8/05	4/8/05	4/7/05	5/19/05	5/19/05
Semivolatile Organic Compounds					
Acenaphthene	10 U	10 U	10 U	22 U	
Acenaphthylene	10 U	10 U	10 U	22 U	
Acetophenone	10 U	10 U	10 U	22 U	
Anthracene	10 U	10 U	10 U	22 U	
Atrazine	10 U	10 U	10 U	22 U	
Benzaldehyde	48 U	48 U	48 U	110 U	
Benzo(a)anthracene	10 U	10 U	10 U	22 U	
Benzo(b)fluoranthene	10 U	10 U	10 U	22 U	
Benzo(k)fluoranthene	10 U	10 U	10 U	22 U	
Benzo(ghi)perylene	10 U	10 U	10 U	22 U	
Benzo(a)pyrene	10 U	10 U	10 U	22 U	
Benzoic acid	140 U	140 U	140 U	330 U	
Benzyl alcohol	19 U	19 U	19 U	43 U	
Biphenyl	10 U	10 U	10 U	22 U	
Bis(2-chloroethoxy) methane	10 U	10 U	10 U	22 U	
Bis(2-chloroethyl) ether	10 U	10 U	10 U	22 U	
2,2'-Oxybis(1-Chlorophopane)	10 U	10 U	10 U	22 U	
Bis(2-ethylhexyl) phthalate	10 U	10 U	10 U	22 U	
4-Bromophenyl phenyl ether	10 U	10 U	10 U	22 U	
Butyl benzyl phthalate	10 U	10 U	10 U	22 U	
4-Chloroaniline	10 U	10 U	10 U	22 U	
4-Chloro-3-methylphenol	10 U	10 U	10 U	22 U	
2-Chloronaphthalene	10 U	10 U	10 U	22 U	
2-Chlorophenol	10 U	10 U	10 U	22 U	
4-Chlorophenyl phenyl ether	10 U	10 U	10 U	22 U	
Caprolactum	10 U	10 U	10 U	22 U	
Chrysene	10 U	10 U	10 U	22 U	
Dibenzo(a,h)anthracene	10 U	10 U	10 U	22 U	
Dibenzofuran	10 U	10 U	10 U	22 U	
Di-n-butyl phthalate	10 U	10 U	10 U	22 U	
1,2-Dichlorobenzene	10 U	10 U	10 U	22 U	
1,3-Dichlorobenzene	10 U	10 U	10 U	22 U	
1,4-Dichlorobenzene	10 U	10 U	10 U	22 U	
3,3'-dichlorobenzidine	19 U	19 U	19 U	22 U	
2,4-Dichlorophenol	10 U	10 U	10 U	22 U	
Diethyl phthalate	10 U	10 U	10 U	22 U	
2,4-Dimethylphenol	10 U	10 U	10 U	22 U	
Dimethyl phthalate	10 U	10 U	10 U	22 U	
4,6-Dinitro-2-methylphenol	48 U	48 U	48 U	110 U	
2,4-Dinitrophenol	48 U	48 U	48 U	110 U	
2,4-Dinitrotoluene	10 U	10 U	10 U	22 U	
2,6-Dinitrotoluene	10 U	10 U	10 U	22 U	
Di-n-octyl phthalate	10 U	10 U	10 U	22 U	
Fluoranthene	10 U	10 U	10 U	22 U	
Fluorene	10 U	10 U	10 U	22 U	
Hexachlorobenzene	10 U	10 U	10 U	22 U	
Hexachlorobutadiene	10 U	10 U	10 U	22 U	
Hexachlorocyclopentadiene	43 U	43 U	43 U	98 U	
Hexachloroethane	10 U	10 U	10 U	22 U	
Indeno(1,2,3-cd)pyrene	10 U	10 U	10 U	22 U	
Isophorone	10 U	10 U	10 U	22 U	
2-Methylnaphthalene	10 U	10 U	10 U	22 U	
2-Methylphenol	10 U	10 U	10 U	22 U	
4-Methylphenol	10 U	10 U	10 U	22 U	

Table 2

Preliminary Groundwater Sampling Results
Emerson Power Transmission
Ithaca, New York
February, April, May 2005 (ug/l)

Sample ID:	MW-25A	MW-26A	MW-5-40	MW-7-40	MW-8-40 (c)
Date:	4/8/05	4/8/05	4/7/05	5/19/05	5/19/05
Semivolatile Organic Compounds (continued)					
Naphthalene	10 U	10 U	10 U	22 U	
2-Nitroaniline	48 U	48 U	48 U	110 U	
3-Nitroaniline	48 U	48 U	48 U	110 U	
4-Nitroaniline	48 U	48 U	48 U	110 U	
Nitrobenzene	10 U	10 U	10 U	22 U	
2-Nitrophenol	10 U	10 U	10 U	22 U	
4-Nitrophenol	48 U	48 U	48 U	110 U	
N-Nitrosodiphenylamine	10 U	10 U	10 U	22 U	
N-Nitroso-Di-n-propylamine	10 U	10 U	10 U	22 U	
Pentachlorophenol	48 U	48 U	48 U	110 U	
Phenanthrene	10 U	10 U	10 U	22 U	
Phenol	10 U	10 U	10 U	22 U	
Pyrene	10 U	10 U	10 U	22 U	
1,2,4-Trichlorobenzene	10 U	10 U	10 U	22 U	
2,4,5-Trichlorophenol	10 U	10 U	10 U	22 U	
2,4,6-Trichlorophenol	10 U	10 U	10 U	22 U	
Polychlorinated Biphenyls					
Aroclor 1016	0.47 U	0.48 U	0.48 U	0.50 U	
Aroclor 1221	0.47 U	0.48 U	0.48 U	0.50 U	
Aroclor 1232	0.47 U	0.48 U	0.48 U	0.50 U	
Aroclor 1242	0.47 U	0.48 U	0.48 U	0.50 U	
Aroclor 1248	0.47 U	0.48 U	0.48 U	0.50 U	
Aroclor 1254	0.47 U	0.48 U	0.48 U	0.50 U	
Aroclor 1260	0.47 U	0.48 U	0.48 U	0.50 U	

a\ U=analyte not detected at reporting limit
D - sample was diluted
b\ MW-19A 100 is a duplicate of MW-19
MW-17-40 1000 is a duplicate of MW-17-40
c\ No analysis for semivolatiles and PCBs due to insufficient sample volume.

Table 3

Preliminary Surface Water Sampling Results
Emerson Power Transmission
Ithaca, New York
May 2005 (ug/l)

Sample ID:	SW-01	SW-01 (dup)
Date:	5/19/05	5/19/05
VOCs (ug/l)		
Acetone	5.0 U	5.0 U
Benzene	1.0 U	1.0 U
Bromodichloromethane	1.0 U	1.0 U
Bromoform	1.0 U	1.0 U
Bromomethane	1.0 U	1.0 U
2-Butanone	5.0 U	5.0 U
Carbon disulfide	1.0 U	1.0 U
Carbon tetrachloride	1.0 U	1.0 U
Chlorobenzene	1.0 U	1.0 U
Chloroethane	1.0 U	1.0 U
Chloroform	1.0 U	1.0 U
Chloromethane	1.0 U	1.0 U
Cyclohexane	1.0 U	1.0 U
1,2-Dibromomethane	1.0 U	1.0 U
Dibromochloromethane	1.0 U	1.0 U
1,2-Dicbromo-3-chloropropane	1.0 U	1.0 U
1,2-Dichlorobenzene	1.0 U	1.0 U
1,3-Dichlorobenzene	1.0 U	1.0 U
1,4-Dichlorobenzene	1.0 U	1.0 U
Dichlorodifluoromethane	1.0 U	1.0 U
1,1- Dichloroethane	1.0 U	1.0 U
1,2-Dichloroethane	1.0 U	1.0 U
1,1-Dichloroethene	1.0 U	1.0 U
cis-1,2-Dichloroethene	5.5	5.5
trans-1,2-Dichloroethene	1.0 U	1.0 U
1,2-Dichloropropane	1.0 U	1.0 U
cis-1,3-Dichloropropene	1.0 U	1.0 U
trans-1,3-Dichloropropene	1.0 U	1.0 U
Ethylbenzene	1.0 U	1.0 U
2-Hexanone	5.0 U	5.0 U
Isopropylbenzene	1.0 U	1.0 U
Methyl acetate	1.0 U	1.0 U
Methylcyclohexane	1.0 U	1.0 U
Methylene chloride	1.0 U	1.0 U
4-Methyl-2-pentanone	5.0 U	5.0 U
Methyl tert butyl ether	1.0 U	1.0 U
Styrene	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U
Tetrachloroethene	1.0 U	1.0 U
Toluene	1.0 U	1.0 U
1,2,4-Trichlorobenzene	1.0 U	1.0 U
1,1,1-Trichloroethane	1.0 U	1.0 U
1,1,2-Trichloroethane	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluorethane	1.0 U	1.0 U
Trichlorofluoromethane	1.0 U	1.0 U
Trichloroethene	1.0 U	1.0 U
Vinyl Chloride	1.0 U	1.0 U
Xylene (total)	3.0 U	3.0 U

Table 3

Preliminary Surface Water Sampling Results
Emerson Power Transmission
Ithaca, New York
May 2005 (ug/l)

Sample ID:	SW-01	SW-01 (dup)
Date:	5/19/05	5/19/05
Semivolatile Organic Compounds		
Acenaphthene	10 U	10 U
Acenaphthylene	10 U	10 U
Acetophenone	10 U	10 U
Anthracene	10 U	10 U
Atrazine	10 U	10 U
Benzaldehyde	48 U	48 U
Benzo(a)anthracene	10 U	10 U
Benzo(b)fluoranthene	10 U	10 U
Benzo(k)fluoranthene	10 U	10 U
Benzo(ghi)perylene	10 U	10 U
Benzo(a)pyrene	10 U	10 U
Benzoic acid	140 U	140 U
Benzyl alcohol	19 U	19 U
Biphenyl	10 U	10 U
Bis(2-chloroethoxy) methane	10 U	10 U
Bis(2-chloroethyl) ether	10 U	10 U
2,2'-Oxybis(1-Chlorophopane)	10 U	10 U
Bis(2-ethylhexyl) phthalate	10 U	10 U
4-Bromophenyl phenyl ether	10 U	10 U
Butyl benzyl phthalate	10 U	10 U
4-Chloroaniline	10 U	10 U
4-Chloro-3-methylphenol	10 U	10 U
2-Chloronaphthalene	10 U	10 U
2-Chlorophenol	10 U	10 U
4-Chlorophenyl phenyl ether	10 U	10 U
Caprolactum	10 U	10 U
Chrysene	10 U	10 U
Dibenzo(a,h)anthracene	10 U	10 U
Dibenzofuran	10 U	10 U
Di-n-butyl phthalate	10 U	10 U
1,2-Dichlorobenzene	10 U	10 U
1,3-Dichlorobenzene	10 U	10 U
1,4-Dichlorobenzene	10 U	10 U
3,3'-dichlorobenzidine	10 U	10 U
2,4-Dichlorophenol	10 U	10 U
Diethyl phthalate	10 U	10 U
2,4-Dimethylphenol	10 U	10 U
Dimethyl phthalate	10 U	10 U
4,6-Dinitro-2-methylphenol	48 U	48 U
2,4-Dinitrophenol	48 U	48 U
2,4-Dinitrotoluene	10 U	10 U
2,6-Dinitrotoluene	10 U	10 U
Di-n-octyl phthalate	10 U	10 U
Fluoranthene	10 U	10 U
Fluorene	10 U	10 U
Hexachlorobenzene	10 U	10 U
Hexachlorobutadiene	10 U	10 U
Hexachlorocyclopentadiene	43 U	43 U
Hexachloroethane	10 U	10 U
Indeno(1,2,3-cd)pyrene	10 U	10 U
Isophorone	10 U	10 U
2-Methylnaphthalene	10 U	10 U
2-Methylphenol	10 U	10 U
4-Methylphenol	10 U	10 U

Table 3

Preliminary Surface Water Sampling Results
Emerson Power Transmission
Ithaca, New York
May 2005 (ug/l)

Sample ID:	SW-01	SW-01 (dup)
Date:	5/19/05	5/19/05
Semivolatile Organic Compounds (continued)		
Naphthalene	10 U	10 U
2-Nitroaniline	48 U	48 U
3-Nitroaniline	48 U	48 U
4-Nitroaniline	48 U	48 U
Nitrobenzene	10 U	10 U
2-Nitrophenol	10 U	10 U
4-Nitrophenol	48 U	48 U
N-Nitrosodiphenylamine	10 U	10 U
N-Nitroso-Di-n-propylamine	10 U	10 U
Pentachlorophenol	48 U	48 U
Phenanthrene	10 U	10 U
Phenol	10 U	10 U
Pyrene	10 U	10 U
1,2,4-Trichlorobenzene	10 U	10 U
2,4,5-Trichlorophenol	10 U	10 U
2,4,6-Trichlorophenol	10 U	10 U
Polychlorinated Biphenyls		
Aroclor 1016	0.50 U	0.50 U
Aroclor 1221	0.50 U	0.50 U
Aroclor 1232	0.50 U	0.50 U
Aroclor 1242	0.50 U	0.50 U
Aroclor 1248	0.50 U	0.50 U
Aroclor 1254	0.50 U	0.50 U
Aroclor 1260	0.50 U	0.50 U

a\ U=analyte not detected at reporting limit

Appendix A – Environmental Strategies' Standard Operating Procedures

Standard Operating Procedure – 1

Note Taking and Log Book Entries

Materials:

Permanently bound log book (no spiral-bound log books)
Black or blue ballpoint pen (waterproof ink)

Procedure:

1. Use black or blue ballpoint pen with waterproof ink. Felt-tip pens should not be used.

2. Reserve the inside front cover for business cards from key personnel who visit the site (including the person in charge of the log book).

3. On the first page of the log book, place a return for reward notice, Environmental Strategies' phone number, and the project manager's name.

4. Enter the following on the second page of the log book: project name, project number, project manager's name, onsite contacts, onsite telephone number and address, telephone numbers for all key personnel, and emergency fire and medical telephone numbers.

5. Number each page, initial each page, and put the date at the top of each page. Start a new page for each day. At the end of a day, summarize the day's activities, sign the page, and put a slash through the rest of the blank lines. Start the next day on a new page.

6. Enter the time (in military time, e.g., 0830) in the left column of each page when an entry is recorded in the field notebook.

7. If a mistake is made in an entry, cross out the mistake with one line and initial the end of the line.

8. At all times, maintain the chain of custody on the field log book.

Content:

1. Be sure that log book entries are LEGIBLE and contain accurate and inclusive documentation of project field activities.

2. Provide sufficient detail to enable others to reconstruct the activities observed.

3. Thoroughly describe all field activities while onsite. Be objective, factual, and thorough. Language should be free of personal feelings or other terminology that might prove inappropriate.

4. Describe problems, delays, and any unusual occurrences such as wrong equipment or breakdowns along with the resolutions and recommendations that resulted.

5. Fully document any deviations from or changes in the work plan.

6. Describe the weather and changes in the weather, particularly during sampling events.

7. Sketch a map of the facility or areas onsite where activities are occurring, especially the location of sampling points.

8. During sampling activities, record all information pertaining to the sampling event. Include descriptive locations and diagrams of the sample locations, time, sample media, analysis, sampling procedure, equipment used, sizes and types of containers, preservation and any resulting reactions, sampling identification (especially for duplicate samples), shipping procedures (record airbill numbers), and addresses.

9. Note decontamination or disposal procedures for all equipment, samples, and protective clothing and how effectively each is performed.

10. If possible, photograph all sample locations and areas of interest. Maintain a photographic log in the field log book and include:

    Date, time, photographer, name of site, general direction faced, description of the subject taken, and sequential number of the photograph and the roll number.

11. Record the names and affiliations of key personnel onsite each day.

12. List all field equipment used and record field measurements, including distances, monitoring and testing instrument readings (e.g., photoionization detector (PID), organic vapor analyzer (OVA), pH, conductivity, model numbers, etc.), and calibration activities.

13. Record proposed work schedules and changes in current schedules in the log book.

14. Describe site security measures.

15. Include drum inventory for all investigation-derived waste (IDW) materials generated during site activities. Provide information on how IDW material was labeled.

Standard Operating Procedure - 2

Sample Container, Preservatives, & Holding Times

Scope:

This operating procedure describes the ways and means of selecting the appropriate sampling containers for environmental sampling.

Application:

The purpose of this procedure is to assure that sample volumes and preservatives are sufficient for analytical services required under EPA-approved protocols.

Materials:

Sample containers
Sample container labels
Indelible (waterproof) markers or pens
Clear tape

Procedures:

1. Refer to Table 1 for minimum sample volume and glassware types required for sampling a particular matrix and compound class.

2. Select the appropriate glassware (i.e., bottles or jars) from those provided by the analytical laboratory. Verify that the analytical laboratory has provided the correct number of sample containers and the correct preservatives for the project per the sampling plan requirements.

3. The analytical laboratory should always provide extra sample containers for all analytical parameters in case of breakage or other problems encountered in the field. This is particularly true for VOC sample containers (i.e., 40-ml vials).

4. Report any discrepancies or non-receipt of specific types of sample containers to the Quality Assurance Officer immediately. Arrangements should be made with the laboratory to immediately ship the missing or additional sampling containers to the project site.

5. Apply Environmental Strategies sample labels to the sample containers.

6. Information on the sample labels should contain the following data:

   Site/Project name
   Project/Task number
   Unique sample identification number
   Sample date
   Time of sample collection (military system, e.g., 0000 to 2400 hours)
   Analytical parameters
   Preservative

7. Once sample containers are properly labeled, the sample labels should be wrapped with clear tape to prevent deterioration of sample label.

8. Proceed with the sample collection per the sampling plan requirements.

9. Collected samples should be immediately placed in an iced cooler to maintain as close as possible a 4°C atmosphere for shipment to the analytical laboratory. Follow sample shipping procedures detailed in Sample Shipping Standard Operating Procedures.

10. Recommended order of sample collection:

In-situ measurements (e.g., temperature, pH, specific conductance)
Volatile organic analytes (VOA)
Purgeable organic carbon (POC)
Purgeable organic halogens (POX)
Total organic halogens (TOX)
Total organic carbon (TOC)
Extractable organics
Total petroleum hydrocarbons (TPH)
Total metals
Dissolved metals
Microbiologicals
Phenols
Cyanide
Sulfate and chloride
Turbidity
Nitrate and ammonia
Radionuclides

Table 1 – Sample Containers, Preservatives, and Holding Times

Analytical Parameter	Matrix	Sampling Container Size and Type	Preservatives	Maximum Holding Time
Metals, except mercury and hexavalent chromium	Solid	8-oz. glass jar	Cool to 4o C	180 days
Mercury	Solid	8-oz. glass jar	Cool to 4o C	28 days
Hexavalent chromium	Solid	8-oz. glass jar	Cool to 4o C	24 hours
Metals, except mercury and hexavalent chromium	Aqueous	500-ml plastic container with Teflon-lined plastic cap	HNO3, pH<2 Cool to 4o C	180 days
Mercury	Aqueous	500-ml plastic container with Teflon-lined plastic cap	HNO3, pH<2 Cool to 4o C	28 days
Hexavalent chromium	Aqueous	500-ml plastic container with Teflon-lined plastic cap	Cool to 4o C	24 hours
Volatile organics	Solid	4-oz. glass jar with Teflon-lined cap	Cool to 4o C	14 days
Volatile organics	Aqueous	Three 40-ml glass vials with Teflon-lined caps	HCl, pH<2 Cool to 4o C	14 days

Analytical Parameter	Matrix	Sampling Container Size and Type	Preservatives	Maximum Holding Time
Semivolatile organics	Solid	8-oz. amber glass jar with Teflon-lined cap	Cool to 4o C	14 days to extraction 40 days from extraction to analysis
Semivolatile organics	Aqueous	Two 1,000-ml amber glass jars with Teflon-lined caps	Cool to 4o C	7 days to extraction 40 days from extraction to analysis
Cyanide	Solid	8-oz. glass jar	Cool to 4o C	14 days
Cyanide	Aqueous	One 500-ml plastic container	NaOH, pH>12, Cool to 4o C	14 days
TCLP Volatiles	Solid	8-oz. glass jar with Teflon-lined cap	Cool to 4o C	14 days to TCLP extraction 14 days from extraction to analysis
TCLP Semivolatile Organics	Solid	8-oz. glass jar	Cool to 4o C	14 days for TCLP extraction 7 days for preparative extraction 40 days from extraction to analysis
TCLP Metals, except Mercury	Solid	8-oz. glass jar	Cool to 4o C	180 days for TCLP extraction 180 days from preparative extraction to analysis

Analytical Parameter	Matrix	Sampling Container Size and Type	Preservatives	Maximum Holding Time
TCLP Mercury	Solid	8-oz. glass jar	Cool to 4o C	28 days for TCLP extraction 28 days from preparative extraction to analysis
Total Petroleum Hydrocarbons	Solid	4-oz. glass jar with Teflon-lined cap	Cool to 4o C	14 days for extraction 40 days for analysis
Total Petroleum Hydrocarbons (EPA Method 418.1)	Aqueous	1-liter amber glass jar	Cool to 4o C	14 days for extraction 40 days for analysis
Total Petroleum Hydrocarbons (EPA Method 8015 GRO)	Aqueous	2 40-ml glass vials	Cool to 4o C	14 days for extraction 40 days for analysis
Total Petroleum Hydrocarbons (EPA Method 8015 DRO)	Aqueous	2 40-ml glass vials	Cool to 4o C	14 days for extraction 40 days for analysis

Standard Operating Procedure - 3

Groundwater Sampling

Materials:

Bound sampling notebook
Groundwater monitoring data log forms
Well key
Adjustable wrench or manhole wrench
Plastic sheeting
Photoionization detector (PID)
Flashlight or mirror
Electronic water level indicator or interface probe
Bailer (bottom loading)
Pump (for purging)
Nylon or polyethylene rope
Temperature, pH, and conductivity meters
Other field meters, as appropriate (i.e., turbidity meter, DO meter, etc.)
Sample bottles, labels, indelible markers, and clear tape
Peristaltic pump
0.45-micron filter
Teflon tubing
Polyethylene tubing
Pocket knife or scissors
Saranex or Tyvek suit (if required by Health & Safety Plan)
Nitrile gloves
Vinyl gloves

Note: To sample using a low flow submersible pump, see SOP-3b.

Procedure:

1. Verify locations of wells, media to be sampled, and parameters to be analyzed for as specified in the sampling plan.

2. Prepare field log book with description of site, weather, participants, and other relevant observations, including all sampling data necessary to complete the groundwater monitoring data log (Refer to SOP-1). Inspect the well for soundness of protective casing and surface ground seal.

3. With the field personnel in Level C personal protective equipment, unless historical data warrants downgrading to Level D protective equipment, survey around the base of the well and wellhead with a PID; remove well cap, place probe of PID in wellhead, and record PID response in field book. Survey breathing zone to ensure that the level of personal protection is appropriate. Note observations on the groundwater monitoring data log.

4. Check for floating product layer (LNAPLs) and sinking free product layer (DNAPLs). Measure thickness with an oil/water interface probe in accordance with EPA or state guidance documents or requirements. (If NAPL sampling is required, see the sampling procedures in SOP-3a).

5. Measure the casing inside diameter (CID) and record in inches. From the top of the casing, measure the depth (in feet) to water (DTW) with an electronic water level indicator and record in the field log book. Static water level measurements must be recorded from the surveyor's mark at the top of the casing, if present. If no mark is present, mark a location with a metal file or indelible marker on the casing for future reference. Measure and record the total depth (in feet) (TD) of the well.

6. Monitoring wells should be sampled by starting with the upgradient (or clean wells) and proceeding downgradient (in the order from most to least contaminated wells) for the remaining monitoring wells.

7. Calculate the length of the water column in the well casing:

length = (TD - DTW)

Calculate the volume of water in gallons in one well casing:

For a 2-inch well: or $vol=0.041\ d^2h$

vol = [(TD - DTW) * 0.16] where: h = TD-DTW

For a 4-inch well: d = diameter of well

vol = [(TD - DTW) * 0.65]

For a 6-inch well:

vol = [(TD - DTW) * 1.47]

or calculate the volume using the formula:

$vol = (TD - DTW)(CID)^2(0.041)$ CID=casing inside diameter in inches

9. Remove a minimum of three well volumes before sampling. To determine the number of gallons required to purge the well, multiply the number of gallons in one well volume (calculations above) by three. Record the minimum purge volume in the field log book. Record water color, suspended particulates, discoloration of casing, casing diameter and material, any unusual occurrences during sampling, and any pertinent weather details in the field log book.

10. Place plastic sheeting around the well before beginning purging process. Once plastic is around well, the purging process may begin. Do not allow the bailer rope to come into contact with the ground surface (i.e., keep the rope on the plastic). Keep the plastic as clean as possible.

11. Carefully lower the bailer attached to bailer cord into the well and allow the bottom to sink 1 foot below the water surface to capture surficial water only. Remove bailer and inspect it for LNAPL. If any are found, or if sampling plan requires, secure samples of the LNAPL in accordance with SOP-3a for analysis if sufficient volume is present. Place collected samples on ice. DO NOT PURGE OR SAMPLE GROUNDWATER IN WELL CONTAINING LNAPL.

12. During the purging process, geochemical measurements (e.g., pH, conductivity, turbidity, and temperature) should be collected a minimum of four times (i.e., before purging and after the removal of each well volume). Record these data in the field log book.

13. Continue bailing at a uniform rate. Each time, empty the bailer into a calibrated container for measurement. Dispose of the contents in an appropriate container for later disposal in compliance with federal and state laws.

14. A decontaminated submersible pump may be used in place of a bailer to purge wells when the diameter of the well is large or the purge volume is large. Refer to SOP-16 for submersible pump decontamination procedures.

15. If well is bailed dry before removing three well volumes, allow well to recharge and proceed to sample. Wells shall not be bailed dry if doing so will cause recharge water to enter the well in a cascading fashion but instead will be bailed at a rate which will minimize the agitation of recharged water. If full recovery exceeds 2 hours, sample as soon as sufficient volume is available within 3 hours of purging.

16. After the minimum purge volume has been removed, review the geochemical measurements to ensure that readings have stabilized. Readings should be within 10% of the previous reading. If the geochemical measurements have not stabilized, continue to purge the well until the monitoring parameters do not vary more than 10 percent between two successive well volumes removed.

17. Affix a sample label to each sample container and complete all required information (sample no., date, time, sampler's initials, analysis, preservatives). Place clear tape over the label. Record sample number, well number, date, time, and the sampler's initials in the field book.

18. Collect the groundwater samples after purging is complete. While collecting samples, lower the bailer slowly to avoid agitating the water. Sample first for VOCs, taking care to remove all air bubbles from the vial and minimize agitation. Collect remaining organic samples then inorganic samples.

    The recommended order of sample collection is as follows:

    In field measurements (e.g., temperature, pH, specific conductance, turbidity, dissolved oxygen)
    Volatile organic compounds (VOCs)
    Purgeable organic carbon (POC)
    Purgeable organic halogens (POX)
    Total organic halons (TOX)
    Total organic carbon (TOC)
    Extractable organics
    Total metals
    Dissolved metals

Phenols
Cyanide
Sulfate and chloride
Turbidity
Nitrate and ammonia
Radionuclides

19. Thoroughly decontaminate all equipment used before proceeding to the next well. Discard used bailer cord, plastic sheeting, towels, gloves, etc., in a plastic bag.

20. Complete chain-of-custody forms with appropriate sampling information.

21. Complete both front and back of the groundwater monitoring data log (attachment) for each monitoring well or sampling point upon return from the field, using data from the field log book.

Filtering of Metal Samples:

1. Assemble peristaltic pump per operating manual instructions, which accompany pump.

2. At the pump intake, attach polyethylene tubing to the tubing at the head of the peristaltic pump. The polyethylene tubing should be long enough to extend to the bottom of the bailer. At the pump discharge end, attach a clean 0.45-micron filter (or appropriate sized filter) to the Teflon tubing.

3. Turn on the pump and draw the water from the bailer, through the pump and filter, and into the sample container.

4. Disassemble the pump head and discard the polyethylene and Teflon tubing and filter in a plastic bag.

Attachment 1 – Groundwater Monitoring Data Log
Found on next page

Groundwater Monitoring Data Log

Well No./Designation _____ Date: _____

Site Data

Site Name: _____ Environmental Strategies Sampling Team _____

Site Address: _____ Environmental Strategies Project No.: _____

Weather Conditions: _____

Well Description

Well Location: _____

Well Security: _____

Casing Material: Inner _____ Outer _____

Organic Vapors (PID, OVA, TIP): Wellhead _____ ppm

Breathing Zone _____ ppm

Nonaqueous Phase (thickness): _____

Reference Point (e.g., top of PVC casing): _____

Purge Data

Purge Method: _____

(Note: Allow water level to equilibrate after removing well cap)

Total Well Depth (TD): _____ ft Depth to Water (DTW): _____

Casing Inner Diameter (CID): _____ inches

To calculate well volume: Well Vol.(gal)=$(CID)^2(0.04)(TD-DTW)$

Well Volume: _____ gal x 3=Purge Volume _____ gal

Purge Time: Begin _____ End _____

Data: Temp _____ pH _____ Spec. Cond._____Turb. _____Other _____

Volume 1: Temp _____ pH _____ Spec. Cond._____Turb. _____Other _____

Volume 2: Temp _____ pH _____ Spec. Cond._____Turb. _____Other _____

Volume 3: Temp _____ pH _____ Spec. Cond._____Turb. _____Other _____

Volume 4: Temp _____ pH _____ Spec. Cond._____Turb. _____Other _____

Volume 5: Temp _____ pH _____ Spec. Cond._____Turb. _____Other _____

Volume Purged: _____ Purged Dry: Yes No

Disposal Method for Purgewater: _____

Water Description

Odor: Prepurge _____ Postpurge _____

Color: Prepurge _____ Postpurge _____

Sampling Data

Sampling Method: _____

Sampling Time: Begin _____ End _____

Analytical Parameters (circle appropriate parameters):

VOCs BNA BNE Total (Unfiltered) Metals

Dissolved (Filtered) Metals TPH PCB Cyanide

Other: _____

_____

Comments: _____

_____

_____

Groundwater Monitoring Data Log

Well No./Designation _____ Date: _____

Site Data

Site Name: _____ Environmental Strategies Sampling Team _____

Site Address: _____ Environmental Strategies project No.: _____

Weather Conditions: _____

Well Description

Well Location: _____

Well Security: _____

Casing Material: Inner _____ Outer _____

Organic Vapors (PID, OVA, TIP): Wellhead _____ ppm

Breathing Zone _____ ppm

Nonaqueous Phase (thickness): _____

Reference Point (e.g., top of PVC casing): _____

Purge Data

Purge Method: _____

(Note: Allow water level to equilibrate after removing well cap)

Total Well Depth (TD): _____ ft Depth to Water (DTW): _____

Casing Inner Diameter (CID): _____ inches

To calculate well volume: Well Vol.(gal)=$(CID)^2(0.04)(TD-DTW)$

Well Volume: _____ gal x 3=Purge Volume _____ gal

Purge Time: Begin _____ End _____

Prepurge Data: Temp _____ pH _____ Spec. Cond._____Turb. _____Other _____

Volume 1: Temp _____ pH _____ Spec. Cond._____Turb. _____Other _____

Volume 2: Temp _____ pH _____ Spec. Cond._____Turb. _____Other _____

Volume 3: Temp _____ pH _____ Spec. Cond._____Turb. _____Other _____

Volume 4: Temp _____ pH _____ Spec. Cond._____Turb. _____Other _____

Volume 5: Temp _____ pH _____ Spec. Cond._____Turb. _____Other _____

Volume Purged: _____ Purged Dry: Yes No

Disposal Method for Purgewater: _____

Water Description

Odor: Prepurge _____ Postpurge _____

Color: Prepurge _____ Postpurge _____

Sampling Data

Sampling Method: _____

Sampling Time: Begin _____ End _____

Analytical Parameters (circle appropriate parameters):

VOCs BNA BNE Total (Unfiltered) Metals

Dissolved (Filtered) Metals TPH PCB Cyanide

Other: _____

_____

Comments: _____

_____

_____

Standard Operating Procedure - 4

Surface Water and Sediment Sampling (using hand trowel)

Surface Water Sampling

Materials:

Nitrile gloves
Saranex or Tyvek suit
Vinyl gloves
Bulldog boots
Hip-waders
Sample containers
Sample labels and indelible marker
Bound field log book

Procedure:

1. Collection of surface water samples should be completed before collection of the stream sediment samples from the same location. This procedure will eliminate the introduction of sediment and turbulence in the surface water that is to be sampled.

2 The sampler should wear hip-waders or rubber boots and gloves, or Saranex or Tyvek sleeves duct taped onto nitrile gloves, to avoid dermal contact with the surface water.

3. Extreme caution should be exercised when wading into the stream at the sampling location to minimize disturbance of the fine sediments.

4. Because of possible unseen water hazards, two people should be present during the collection of surface water samples.

5. If collecting several surface water samples from the same surface water body, start sampling at the downstream location and progressively move upstream. The sampler should always face upstream (i.e., upcurrent) when collecting the surface water sample.

6. The surface water sample container should be placed into the flowing water and the sample should be collected from just beneath the stream surface.

7. The sample container should be labeled before sample collection. After the sample is collected, the container should be sealed, and placed into a cooler for shipment to the analytical laboratory.

8. The sampling location should be described, including width of stream, depth of stream, water color, and approximate surface flow (e.g., slow, fast moving, etc.).

9. Sampling locations should be marked with a stake or flagged for future reference. Locations should be recorded with respect to a permanent feature, if available.

10. Complete chain of custody form with appropriate sampling information.

11. If collecting sediment samples, proceed to collect the sample from this location.

Sediment Sampling

Materials:

Hand trowels (stainless steel or Teflon)
Nitrile gloves
Vinyl gloves
Tray, mixing pans, Ziploc® plastic bags
Stainless steel or Teflon spoons
Aluminum foil
Saranex or Tyvek suit
Hip-waders of rubber boots
Sample containers
Sample labels and indelible marker
Bound field log book

Procedure:

1. The hand trowel can be used to sample shallow stream bottom sediments, where the depth of water does not exceed 1 foot, using the same procedures specified in the Standard Operating Procedures for Collection of Soils Samples Using a Hand Trowel. The sediment corer or other appropriate sampling device should be used in water deeper than 1 foot (see SOP-6).

2. The sampler should wear hip-waders or rubber boots and gloves, or Saranex or Tyvek sleeves duct taped onto nitrile gloves, to avoid dermal contact with the water.

3. Extreme caution should be exercised when wading into the stream at the sampling location to minimize disturbance of the fine sediments.

4. If collecting several sediment samples from the stream, start sampling at the downstream location and progressively move upstream. The sampler should always face upstream (into the current) when collecting the sediment sample.

5. Insert the trowel into the sediment bed and retrieve sediment. Carefully remove the trowel from the water to avoid washing sediment from the blade. The trowel blade should be tilted at a slight angle, if necessary, to drain excess water from the blade before placing the sediment in the mixing tray.

6. If more sediment is needed to provide sufficient sample volume, reinsert trowel at the sample location and retrieve as before.

7. Examine contents of tray. For volatile organic compound (VOC) samples, do not mix the sediment sample in the tray. Transfer sediment directly into sample containers, choosing your sample from various portions of the tray to simulate homogeneity.

8. After the collection of VOC samples and before filling other sample containers, mix the contents of the tray so a homogeneous texture remains.

9. Transfer the tray contents to the sample containers.

10. The sample container should be labeled before sample collection. After the sample is collected, the container should be sealed, wiped clean of excess sediment material, and placed in a cooler with ice or freezer packs for shipment to the analytical laboratory. Complete chain-of-custody form with appropriate sampling information.

11. The sampling location should be described, including width of stream, depth of stream, water color, and approximate surface flow (e.g., slow, fast moving, etc.).

12. Sampling locations should be marked with a stake or flagged for future reference. Locations should be recorded with respect to a permanent feature, if available.

Standard Operating Procedure - 15

Decontamination of Drilling Equipment

Materials:

Canvas or plastic tarp(s)
4-mil polyethylene liner
Pressurized steam cleaner (steam jenny)
55-gallon steel drums with bung (closed) tops
55-gallon steel drums with open tops, rings, lids, ring-nut and ring-bolt
Hammer, nails, duct tape, extension cord(s)
Wood boards - 4" x 4", 2" x 4" or 2" x6"
Portable wet/dry vacuum
Shovel, funnel, and squeegee

Construction of Decontamination Basin:

1. Place tarp(s) on flat, firm surface in an accessible area of the site away from areas of surface contamination. Use enough tarp to accommodate the rear of the drilling rig and hollow stem augers and to prevent overspray from the steam jenny from falling onto adjacent soil surfaces. If necessary, place more than one tarp on the ground. Overlap tarp edges and secure with duct tape. Area should be slightly inclined toward one corner so that the decontamination water will pool in one corner for easier pumping to the containment drums.

2. Place a layer of polyethylene liner on top of the tarp(s). If one sheet cannot completely cover the tarp, use another one. Overlap the sheets at the edges and secure with duct tape.

3. Place 4" x 4" boards along the tarp's outer edges to form a square or rectangular basin. Roll each 4" x 4" board toward the center so the tarp and polyethylene wrap completely around it at least once. Secure the tarp and liner to the top of the boards with nails, tacks or heavy-duty staples.
4. Place the drums, steam cleaner, and wet/dry vacuum adjacent to one side of the basin on the outside.

Decontamination Procedure:

1. Unload drilling equipment from the drilling rig and place in one side of the basin.

2. Activate the steam cleaner. Personnel performing steam cleaning should don rubber boots, Tyvek or Saranex suits, rubber gloves, and a hard hat with a face shield for splash protection.

3. Clean each piece of drilling equipment, including auger bits, drill bits, portable power augers, hollow stem augers, auger holders, split spoons, rod lifters, and drilling rods, by holding the nozzle of the steam cleaner a few inches away. Wood 2" x 4"s can be placed on the basin floor to prevent drilling equipment from coming into contact with solids that will build up beneath it as it is being steam cleaned.

4. After each piece is cleaned, place it on rows of 2" x 4" boards in a separate area of the basin.

5. If space allows, position the rear of the drill rig in the basin and use the steam cleaner to clean off rig surfaces and the hoist and derrick as needed.

6. Reload drilling equipment onto rig and drive it out of the basin.

7. Vacuum up liquids on the basin floor with the flexible hose of the portable wet/dry vacuum. A long-handled squeegee can be used to pool liquid together to aid vacuuming.

8. Remove accumulated solids from the basin floor with a shovel and place in open-top drums. During removal of the accumulated solids, be careful so that the polyethylene liner is not torn, cut, or punctured with the shovel.

9. Empty the canister of the wet/dry vacuum into a bung-top drum using a funnel.

10. Secure and tighten tops of drums and apply appropriate hazardous waste or nonhazardous waste labels to each drum. The accumulation date should be placed on each drum. An inventory of all onsite drums should be entered into the field log book by field personnel. All drums should be marked, numbered, or labeled with an indelible marker for future reference.

11. On completion of onsite work, the properly labeled and inventoried drums should be stored within a newly constructed pad or basin until disposal is arranged. This containment area should be constructed of wooden boards with a polyethylene liner, as described above.

12. Materials used in construction of the decontamination basin or pad should be disassembled and placed into a properly labeled drum for future disposal.

13. All drilling equipment and the drill rig should be decontaminated on arrival onsite and before the start of any drilling activity. On completion of site work, the drilling equipment and rig should be decontaminated by the drilling contractor before departure from the site.

Standard Operating Procedure - 17

Decontamination of Water Level Indicators

Materials:

Field logbook
Personal protective equipment (PPE)
Non-phosphate detergent (e.g., Liquinox or Alconox)
Deionized water
Isopropanol
Two buckets
Spray bottles
Paper towels

Note: To limit the potential for cross-contamination between wells, wells should be gauged in the order of increasing constituent concentrations whenever possible.

Decontamination Procedure:

15. Use appropriate PPE as specified in the site-specific health and safety plan.

16. If the groundwater is grossly contaminated (i.e., LNAPL or DNAPL is present), the tape should be pulled out of the well, NOT reeled up, and placed directly into a bucket of nonphosphate detergent and tap water. The tape and probe should be scrubbed with a brush to remove visible contamination. The tape and probe should then be rinsed in a second bucket of tap water before proceeding with Step 3. If persistent stains or oily films remain, apply isopropanol to a paper towel and wipe the tape and probe until clean.

17. Thoroughly wet a paper towel with deionized water from a spray bottle. Fold the paper towel over the tape and wipe it as the tape is reeled up.

18. The water level probe should also be sprayed with deionized water and wiped dry with a clean paper towel.

19. Place water level indicator in the clean carrying case or in a clean plastic bag to prevent contamination during transportation.

20. Properly manage all PPE, used paper towels, and decontamination rinsates in accordance with state and federal requirements (See SOP 26).

Standard Operating Procedure – 20

Sample Shipping Procedures

Materials:

Suitable shipping container (e.g., plastic cooler or lab supplied styrofoam cooler)
Chain-of-custody forms
Custody seals
Environmental Strategies mailing labels
Strapping, clear packing, or duct tape
Ziploc® plastic bags
Knife or scissors
Permanent marker
Latex or nitrile gloves
Large plastic garbage bag
Wet ice
Bubble wrap or other packing material
Universal sorbent materials
Sample container custody seals (if required)
Federal Express form (with Environmental Strategies account number)
Vermiculite (or commercially available cat litter)

Procedures:

For shipping purposes, samples are segregated into two classes; environmental samples and restricted articles (i.e., hazardous materials). Environmental samples can also be categorized based on expected or historical analyte levels (i.e., low or high). An environmental sample is one that is not defined as a hazardous material by the Department of Transportation (DOT, 49 CFR Part 171.8). The DOT defines a "hazardous material" as a substance which has been determined by the Secretary of Transportation to be capable of posing an unreasonable risk to health, safety, and property when transported in commerce, and which has been so designated. Any material of a suspected hazardous nature, previously characterized as hazardous, or known to be hazardous is considered a restricted article.

In general, the two major concerns in shipping samples are protecting the samples from incidental breakage during shipment and complying with applicable DOT and courier requirements for restricted article shipments.

Protecting the samples from incidental breakage can be achieved using "common sense." All samples should be packed in a manner that will not allow them to freely move about in the cooler or shipping container. Glass surfaces should not be allowed to contact each other. When possible, repack the samples in the same materials that they were originally received in from the laboratory. Each container should be cushioned with plastic bubble wrap, styrofoam, or other nonreactive cushioning material. Shipping hazardous materials should conform to the packaging, marking, labeling, and shipping instructions identified in 49 CFR Parts 172 & 173.

Environmental samples shall be packed for shipment using the following procedures:

1. Line the shipping container with a large, heavy-duty plastic garbage bag. Place universal sorbent materials (e.g., sorbent pads) between the cooler and the heavy-duty plastic bag. The amount of sorbent material should be sufficient to absorb the volume of wet ice and aqueous samples. If using a plastic cooler, securely tape the drain plug closed on the outside of the cooler.

2. Place 2-4 inches of bubble wrap or other packing material inside the heavy-duty plastic bag in the bottom of the cooler.

3. The sample packer should wear latex or nitrile gloves when handling the samples during the packing process.

4. Place the bottles in the cooler with sufficient space to allow for the addition of more bubble wrap or other packing material between the bottles. Large or heavy sample containers should be placed on the bottom of the cooler with lighter samples (i.e., VOAs) placed on top to eliminate breakage.

5. Place the "wet ice" inside two sealed heavy-duty zipper-style plastic bags and package the bags of ice on top of or between the samples. Pack enough ice in the cooler to chill the samples during transit. If the cooler is shipped on a Friday or Saturday for Monday delivery, double the amount of ice placed in the cooler (Monday delivery should be used only as a last resort). Fill all remaining space with bubble wrap or other packing material. Securely close and seal with tape the top of the heavy-duty plastic bag.

6. Place chain-of-custody form (and, if applicable, CLP traffic reports) into a Ziploc® plastic bag and affix to the cooler's inside lid, then close the cooler. Securely fasten the top of the cooler shut with tape. Place two signed and dated chain-of-custody seals on the top and sides of the cooler so that the cooler cannot be opened without breaking the seals.

7. Once cooler is sealed, shake test the cooler to make sure that there are no loose sample containers in the cooler. If loose samples are detected, open the cooler and repack the samples.

8. Using clear tape, affix a mailing label with Environmental Strategies' return address to the top of the cooler.

9. Ship samples via priority overnight express to the contracted analytical laboratory for next morning delivery. If applicable, check the appropriate box on the airbill for Saturday delivery.

10. Declare value of samples on the shipping form for insurance purposes. The declared value should reflect the cost to recollect the samples.

11. Record the tracking numbers from the Federal Express forms in the field notebook and on the chain of custody form. Also, retain the customer's copy of the Federal Express airbill.

Hazardous materials should be packed according to the above procedures with the following additions:

1. Place samples in individual Ziploc® plastic bags and secure with a plastic tie or tape.

2. Place samples in paint cans in a manner which would prevent bottle breakage (i.e., do not place glass against glass).

3. Place vermiculite or other absorbent packing material in the paint can around the samples. The amount of packing material used should be sufficient to absorb the entire contents of the sample if the container is broken during shipment.

4. Secure a lid to the paint can with can clips and label the outside of the can with sample numbers and quantity. Mark the paint can with "This End Up" and arrow labels that indicate the proper upward position of the paint can.

5. Package the paint cans in DOT-authorized boxes or coolers, with appropriate DOT shipping labels and markings on two adjacent sides of the box or cooler.

6. Ship the restricted articles via overnight courier following the courier's documentation requirements. A special airbill must be completed for each shipment. Retain a copy of the airbill for Environmental Strategies records and tracking purposes, if necessary.

Standard Operating Procedure – 21

Field Quality Assurance/Quality Control Samples

Materials:

Field logbook
Personal protective equipment (PPE)
Sample containers
Sample labels
Clear tape
Laboratory analyte free water
Clean or dedicated sampling equipment

Procedure:

1. Use appropriate PPE as specified in the site-specific health and safety plan.

2. Select the appropriate glassware for the field Quality Assurance/Quality Control (QA/QC) samples. Refer to the Environmental Strategies Standard Operating Procedure for Sample Container, Preservatives, and Holding Times to determine the appropriate bottles to use.

3. Field QA/QC samples include the following:

   trip blanks
   duplicate samples
   equipment blanks

4. Trip blanks should be provided by the analytical laboratory for all projects where samples are being collected for analysis of volatile organic compounds (VOCs). Trip blanks should accompany the sample bottles from the analytical laboratory to the site, accompany the sample containers at all times during the sampling event, and return to the laboratory with the sample containers. One trip blank should be submitted to the analytical laboratory with each shipment containing samples for VOC analysis. The trip blank should be analyzed only for VOCs.

5. One duplicate sample should be collected for every 20 samples of each matrix (e.g., soil and groundwater) collected during each sampling event. Duplicate samples of soil and other solid matrices should be collected by dividing the sample material in half and alternately filling the two sample bottle sets. Duplicate samples of groundwater and other aqueous matrices should be collected by alternately filling the two sample bottle sets from the same sampling vessel (e.g., bailer). The appropriate SOP should be followed for the collection of each sample type (soil, groundwater, sediment, sludge). Duplicate samples should be analyzed for all the analytes that are being analyzed for during the sampling event.

6. One equipment blank should be collected in the field at a rate of one per type of equipment per decontamination event not to exceed one per day. If dedicated sampling equipment is used, the equipment blanks should be prepared in the field before sampling begins. If field decontamination of sampling equipment is required, the equipment blanks should be prepared after the equipment has been used and field-decontaminated at least once. Equipment blanks should be prepared by

filling or rinsing the precleaned equipment with analyte-free water and collecting the rinsate in the appropriate sample containers. The samples should be labeled, preserved, and filtered (if required) in the same manner as the environmental samples. Equipment blanks should be analyzed for all the analytes for which the environmental samples are being analyzed. Decontamination of the equipment following equipment blank procurement is not required.

7. All QA/QC samples should be submitted to the analytical laboratory with unique sample numbers. Therefore, the QA/QC samples should be labeled as separate environmental samples following the same numbering scheme used during that particular sampling event. However, the QA/QC samples should be clearly identified on Environmental Strategies' copy of the chain-of-custody form and in the field logbook.

Standard Operating Procedure – 26

Managing Investigation Derived Waste

Application:

The purpose of this SOP is to provide instructions for handling, storing, and sampling Investigation Derived Waste (IDW) pending disposal. *All IDW should be handled as hazardous waste unless information exists which would allow it to be classified as non-hazardous waste.* IDW generated during a Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) response action must be managed in compliance with applicable or relevant and appropriate requirements (ARARs) to the extent practicable and with applicable requirements of the CERCLA offsite policy. (EPA Guidance Document OERR Directive 9345.3-02)

IDW includes soil cuttings, development water, purge water, drilling fluids, decontamination fluids, personal protective equipment, and sampling equipment.

Materials:

Non-Hazardous and Hazardous Waste Labels
Investigation Derived Waste Log (Figure 1)
Permanent Ink Marking Pen Paint Stick/Pen
Sampling Equipment (Refer to Sampling SOPs)
Sample Jars
Chain of Custody Forms
Cooler

Procedure:

Hazardous IDW

1. All IDW should be handled as hazardous waste unless information exists which would allow it to classified as non-hazardous waste. New or existing site data (i.e., soil and groundwater results) and generator knowledge can be used to classify the IDW.

If site data or generator knowledge indicates that the IDW is determined to be hazardous the following procedures will apply:

- The IDW must be placed in DOT approved containers (55-gallon drum, roll-off container, or temporary storage tank).
- The containers must remain closed except when adding, sampling, or inspecting the material.
- All containers must be labeled with the words "Hazardous Waste".
- An accumulation start date and the contents of the container must be included on the label.
- Investigation Derived Waste Logs (Figure 1) must be completed before leaving the site. One copy of the log should be presented to the site contact and the original provided to the project manager. Once the material has been removed from the site, the IDW log should be stamped "Removed" and placed in the project file.

- The IDW containers must be stored in a secure onsite location (facility hazardous waste storage area if one exists).
- Disposal of the IDW must be completed within **90 days** of the date the waste was generated. If the facility is a small quantity generator, 180 days is allowed for shipment of the waste offsite.
- Onsite disposal may be allowed or appropriate under certain conditions. Refer to OERR Directive 9345.3-02 for guidance, especially for CERCLA sites.
- Environmental Strategies personnel should notify the site contact that weekly inspections of the IDW must be conducted and documented.
- Environmental Strategies personnel should also instruct the site contact that this waste must be included in the facilities annual or biannual reports.

2. If the IDW is presumed to be hazardous and sampling is required to confirm its classification, it should be labeled Hazardous Waste-Pending Analysis. The waste should be sampled before leaving the site (See sampling SOPs). It should be noted that EPA methods 8260 and 8270 may be more cost effective than running the full Toxicity Characteristic Leaching Procedure (TCLP) scan. TSD Facilities will usually specify the required analysis for their waste profiles.

Non-Hazardous IDW

1. If information exists to classify the IDW as non-hazardous waste, the following procedures can be implemented:

Soil Cuttings

- Spread around the borehole or other onsite location with the approval of facility personnel
- Place back in the boring
- Containerize and dispose offsite

Groundwater

- Pour onto ground next to well to allow infiltration
- Containerize and dispose offsite
- Discharge to POTW with approval of facility personnel
- Discharge to onsite wastewater treatment plant with approval of facility personnel

Decontamination Fluids

- Pour onto ground (from containers) to allow infiltration
- Containerize and dispose offsite
- Discharge to POTW with approval of facility personnel
- Discharge to onsite wastewater treatment plant with approval of facility personnel

PPE

- Double bag and deposit in site dumpster
- Containerize and dispose offsite

If the IDW is containerized and is non-hazardous, the following procedures will apply:

- The non-hazardous IDW must be placed in DOT approved containers (55-gallon drum, roll-off container, or temporary storage tank).

- The containers should remain closed except when adding, sampling, or inspecting the material.
- All containers must be labeled with the words "Non-Hazardous Waste".
- An accumulation date and the contents of the container should be included on the label.
- Complete the IDW log (Figure 1). One copy of the log should be presented to your site contact and the original should be given to the project manager.
- The IDW containers must be stored in a secure onsite location.
- Arrangements for disposal *should* be completed within 90 days of the accumulation start date.

Investigation Derived Waste Log

Date: _____

Site Information

Site Name: _____ Site EPA ID #: _____

Site Contact: _____ Site Address: _____

Contact Telephone No: _____

Waste Identification

Type of Waste Generated (check one of the following):

☐ Soil Cuttings ☐ PPE ☐ Decontamination Water

☐ Groundwater ☐ Storm Water ☐ Drilling Fluids

☐ Other (Describe): _____

Field Activities that generated the Waste:

☐ Soil Borings ☐ Well Sampling ☐ Well Installation

☐ Decon ☐ Excavation ☐ Pumping Tests

☐ Other (Describe): _____

Generation Date: _____ ***90-Day Deadline***: _____

Quantity of Waste Generated and Container Type: _____

_____

_____

Storage Location: _____

Waste Identification (Check One of the Following);

☐ Non Hazardous Waste (pending analysis)
☐ Non Hazardous Waste (based on site information or generator knowledge)
☐ Hazardous Waste (pending analysis)
☐ Hazardous Waste (based on site information or generator knowledge)

If generator knowledge or site information was used for identification, explain: _____

_____

_____

Type of Label Applied to Container: ☐ Non Haz ☐ Hazardous ☐ PCB ☐ Used Oil

Environmental Strategies Information (Note: One copy to site contact - the original in project file)

Personnel/Contact: _____ Project No.: _____

Telephone: _____

Appendix B – Boring Logs and Well Construction Diagrams

Boring Log: MW-18A

Project: EPT

Project No.: 127491

Location: Ithaca, NY

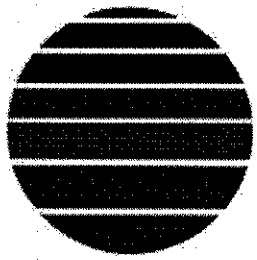
Completion Date: February 7, 2005

Surface Elevation (feet AMSL*): 396.38

TOC Elevation (feet AMSL*): 396.13

Total Depth (feet): 20

Borehole Diameter (inches): 8.25



Depth	Sample Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	Well Construction
						Ground Surface	
0	1	0.0	1 2 3 3	33		***Silty Clay (CL)*** Dark brown to dark gray (10YR 3/3 to 10YR 4/1) silty clay; semi-plastic; moist; trace fine-grained sand and fill material (coal, black fragments)	
2	2	0.0	2 2 3 4	25		***Fill*** Fill material- coal, brick, gray to dark gray shale fragments (10YR 3/3 to 10YR 4/1), organics (roots); moist	
4	3	0.0	2 2 3 2	12.5		***Fill*** Fill material- coal, brick, gray to dark gray shale fragments (10YR 3/3 to 10YR 4/1), organics (roots); moist	
6	4	0.0	2 2 2 2	50		***Silty Clay (CL)*** Dark greenish gray (5GY 4/1); trace gravel fragments; semi-plastic; moist; some root fragments	
8	5	0.0	2 1 2 3	58		***Clayey Silt (ML)*** Dark gray (10YR 4/1) clayey silt; trace root materials; semi-plastic; soft; moist with 3" wet seam at 9.5' bgs	
10	6	NA	NA	0		***No Recovery*** Spoon wet	
12	7	0.0	2 2 11 1	75		***Silt (OL)*** Dark gray (10Y 3/1) silt with some fine grained sand and clay; semi-plastic; soft; wet	
14	8	0.0	1 1 2 1	8		***Silt (OL)*** Dark greenish gray (10Y 3/1) silt with some fine grained sand and clay; semi-plastic; soft; saturated	
16	9	0.0	2 1 2 1	92		***Silt (OL)*** Dark greenish gray (10Y 3/1) silt with some fine grained sand and clay; semi-plastic; soft; saturated	
18	10	0.0	1 1 2 1	8		***Sandy Silt (OL)*** Dark greenish gray (10Y 3/1) sandy silt; semi-plastic; soft; saturated	
20						***Silty Clay (CL)*** Dark gray (10Y 4/1); plastic; soft; wet ***Boring Terminated***	
22							

Geologist(s): Greg Frisch

Subcontractor: Parrat Wolff

Driller/ Operator: NA

Method: **HSA** ☑ **ID(inches):** 4.25

Geoprobe ☐ **Rotosonic** ☐

** AMSL= Above mean sea level*

Boring Log: ***MW-19A***

Project: EPT

Project No.: 127491

Location: Ithaca, NY

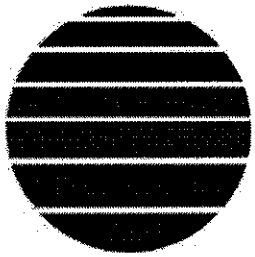
Completion Date: February 8, 2005

Surface Elevation (feet AMSL*): 395.72

TOC Elevation (feet AMSL*): 395.52

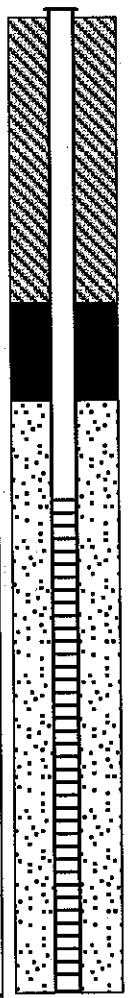
Total Depth (feet): 20

Borehole Diameter (inches): 8.25



Depth	Sample Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
0	1	0.0	NA	17		***Silty Clay (CL)*** Gray (N5) silty clay; medium stiff (partially frozen); semi-plastic; moist
2	2	0.0	NA	42		***Silty Clay (CL)*** Dark greenish gray (5GY 4/1) fill material- shale and black fragments (yellow brick); semi- to nonplastic; medium stiff; moist
4	3	0.0	NA	12.5		***Clayey Silt (OL)*** Dark gray (N4) clayey silt with organics; soft; semi- to nonplastic; moist
6	4	0.0	NA	50		***Silt (OL)*** Dark greenish gray (5GY 5/1) silt with some clay and fine-grained sand; soft; semi-plastic; moist
8	5	0.0	NA	75		***Silt (OL)*** Dark greenish gray (5GY 5/1) silt with some clay and fine-grained sand; soft; semi-plastic; moist
10	6	0.0	NA	8		***Silty Sand (SM)*** Dark greenish gray (5G 4/1) silty sand, sand fine-grained; soft; nonplastic; wet ***Gravel*** Gravel with fine-grained sand
12	7	0.0	NA	42		***Silty Sand (SM)*** Dark gray (N4) silty sand with gravel, fine-grained; loose; saturated
14	8	NA	NA	0		***No Recovery***
16	9	0.0	NA	<5		***Sand and Gravel*** Sand fine-grained; saturated
18	10	0.0	NA	<5		***Very Low Recovery***
20						***Boring Terminated***
22						

Well Construction



Geologist(s): Greg Frisch
Subcontractor: Parrat Wolff
Driller/ Operator: NA

Method: **HSA** ☑ **Geoprobe** ☐ **ID(inches):** 4.25 **Rotosonic** ☐

** AMSL= Above mean sea level*

Boring Log: MW-20B

Project: EPT

Project No.: 127491

Location: Ithaca, NY

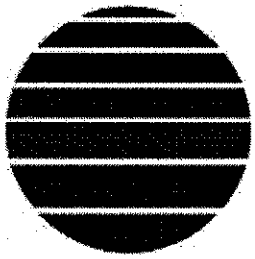
Completion Date: March 23, 2005

Surface Elevation (feet AMSL*): 517.53

TOC Elevation (feet AMSL*): 517.26

Total Depth (feet): 20.2

Borehole Diameter (inches): 8.25



Sample Data					Subsurface Profile		
Depth	Sample Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	Well Construction
0						Ground Surface	
0	1	0.0	NA	NA		***Gravel Road Base***	
2							
4							
6	2	0.0	5 7 7 4	NA		***Silty Clay (CL)*** Dark gray (N4) silty clay with gravel; medium stiff; nonplastic; moist	
8	3	0.0	9 9 8 7	NA		***Silty Clay (CL)*** Dark gray (N4) silty clay with gravel; medium stiff; nonplastic; moist	
10	4	0.0	50 3	NA		***Siltstone*** Weathered siltstone	
12						***Siltstone*** Gray (N5) weathered siltstone; several natural fractures; some weathering in fractures; RQD-28%	
14							
16						***Siltstone*** Gray (N5) weathered siltstone; with approximately 4 slightly weathered natural fractures; some mechanical fractures; RQD-92%	
18							
20						***Boring Terminated***	
22							

Geologist(s): Greg Frisch

Subcontractor: Parrat Wolfe

Driller/ Operator: Jim Hammond

Method: **HSA** ☑ **ID(inches):**

Geoprobe ☐ **Rotosonic** ☐

** AMSL= Above mean sea level*

Boring Log: ***MW-21B***

Project: EPT

Project No.: 127491

Location: Ithaca, NY

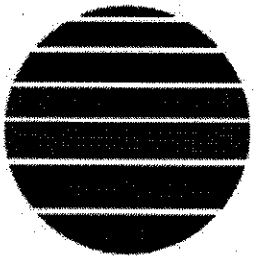
Completion Date: March 25, 2005

Surface Elevation (feet AMSL*): 493.54

TOC Elevation (feet AMSL*): 493.34

Total Depth (feet): 16

Borehole Diameter (inches): 8.25



Sample Data					Subsurface Profile		
Depth	Sample Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	Well Construction
0						Ground Surface	
0–2	1	NA	NA	NA		***Gravel Road Base***	
4						***Siltstone*** Gray (N5) weathered siltstone; highly fractured; fractures weathered; RQD-2%	
6–8						***Siltstone*** Gray (N5) slightly weathered siltstone; with major fractures at 8.3' and 10'	
10–12						***Siltstone*** Gray (N5) weathered siltstone with clayey (weathered rock) fractures at 12.5' and 15.7'	
16						***Boring Terminated***	
18–20							

Geologist(s): Greg Frisch

Subcontractor: Parrat Wolfe

Driller/ Operator: Jim Hammond

Method: **HSA** ☑ **Geoprobe** ☐ **ID(inches):** **Rotosonic** ☐

* *AMSL= Above mean sea level*

Boring Log: ***MW-22B***

Project: EPT

Project No.: 127491

Location: Ithaca, NY

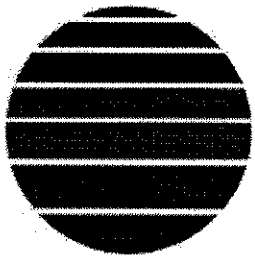
Completion Date: March 31, 2005

Surface Elevation (feet AMSL*): 490.95

TOC Elevation (feet AMSL*): 490.63

Total Depth (feet): 16.5

Borehole Diameter (inches): 8.25



Sample Data					Subsurface Profile		
Depth	Sample Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	Well Construction
0						Ground Surface	
0–2	1	NA	NA	NA		***Gravel Road Base*** Gravel and sand with silty clay material	
4–8	2	NA	NA	NA		***Silty Clay (CL)*** Gray silty clay with rock fragments; moist	
10						***Siltstone***	
12						***Siltstone*** RQD-0%	
12–16						***Siltstone*** Competent; fractured every 2-4" ; fine-grained; no vertical fractures; moderate yield; RQD-13%	
16						***Boring Terminated***	
18–20							

Geologist(s): Pat Peterson and Erik Reinert

Subcontractor: Parrat Wolfe

Driller/ Operator: Jim Hammond

Method: **HSA** ☑ **ID(inches):**

Geoprobe ☐ **Rotosonic** ☐

** AMSL= Above mean sea level*

Boring Log: ***MW-23B***

Project: EPT

Project No.: 127491

Location: Ithaca, NY

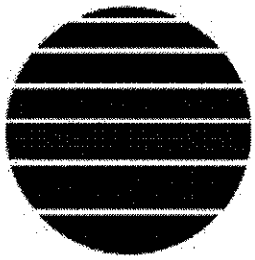
Completion Date: February 11, 2005

Surface Elevation (feet AMSL*): 458.60

TOC Elevation (feet AMSL*): 458.15

Total Depth (feet): 18.1

Borehole Diameter (inches): 8.25



Sample Data					Subsurface Profile		
Depth	Sample Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	Well Construction
0						Ground Surface	
2	1	NA	NA	NA		***Fill*** Gravel fill	
4	2	0.0	6 6 4 14	16		***Silty Clay (CL)*** Dark gray (N4) silty clay with gravel; black fill fragments; moist	
6	3	0.0	16 8 7 9	42		***Clayey Silt (ML)*** Reddish brown (5YR 5/3) clayey silt; stiff; semi-plastic; moist; trace shale fragments	
8	4	0.0	NA	25		***Clayey Silt (ML)*** Reddish brown (5YR 5/3) clayey silt; stiff; semi-plastic; moist; with weathered siltstone	
10						***Siltstone*** Gray (N5) weathered siltstone; friable; dry to moist	
12						***Siltstone*** Gray (N5) weathered siltstone; several natural fractures; RQD-0%	
14						***Siltstone*** Gray (N5) weathered siltstone; slightly less weathered/fractured; becoming less weathered at 17-18'; RQD-26%	
16							
18						***Boring Terminated***	
20							

Geologist(s): Greg Frisch

Subcontractor: Parrat Wolff

Driller/ Operator: Doug Thomas

Method: **HSA** ☑ **Geoprobe** ☐ **ID(inches):** **Rotosonic** ☐

** AMSL= Above mean sea level*

Boring Log: ***MW-24B***

Project: EPT

Project No.: 127491

Location: Ithaca, NY

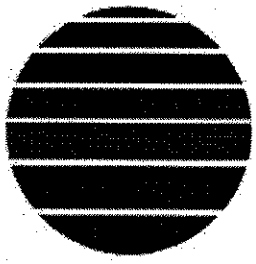
Completion Date: February 10, 2005

Surface Elevation (feet AMSL*): 415.42

TOC Elevation (feet AMSL*): 415.17

Total Depth (feet): 18

Borehole Diameter (inches): 8.25



Sample Data					Subsurface Profile		
Depth	Sample Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	Well Construction
0						Ground Surface	
0–2	1	0.0	NA	NA		***Gravel and Rock Fragments*** Gravel and rock fragments placed during road replacement	
4	2	0.0	NA	NA		***Siltstone*** Light gray (N3) siltstone bedrock; appears weathered; dry	
6	3	0.0	NA	NA		***Siltstone*** Light gray (N3) siltstone bedrock; less weathered than above interval; dry	
8–12				—		***Siltstone*** Gray (N5) siltstone; several mechanical fractures; 1 or 2 natural fractures at 11.8' and 12.5'; RQD-100%	
14–16						***Siltstone*** Gray (N5) siltstone with near vertical fracture at 15' and approximately 3 natural fractures between 15' and 16.5'; RQD-80%	
18						***Boring Terminated***	
20							

Geologist(s): Greg Frisch

Subcontractor: Parrat Wolfe

Driller/ Operator: Jim Hammond

Method: **HSA** ☑ **ID(inches):**

Geoprobe ☐ **Rotosonic** ☐

** AMSL= Above mean sea level*

Boring Log: ***MW-25A***

Project: EPT

Project No.: 127491

Location: Ithaca, NY

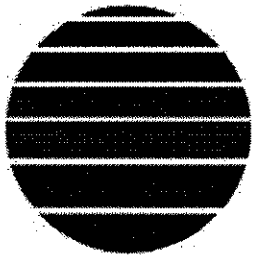
Completion Date: March 22, 2005

Surface Elevation (feet AMSL*): 392.42

TOC Elevation (feet AMSL*): 392.18

Total Depth (feet): 18.5

Borehole Diameter (inches): 8.25



Sample Data					Subsurface Profile		
Depth	Sample Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	Well Construction
0						Ground Surface	
						No Sample Collected	
2							
4							
6	1	0.0	2 2 1 2	NA		***Sandy Silt (ML)*** Medium to dark gray (N5-N2.5) sandy silt; soft; nonplastic; moist; trace of gravel and coal fragments	
8							
10	2	0.0	1 1 1 1	NA		***Silty Sand (ML)*** Dark gray (N4) sand with silt; fine grained; loose; trace pebbles; wet	
12						***Sandy Clay (CL)*** Dark gray (N4) sandy clay; medium soft; semi-plastic; wet	
14							
16	3	0.0	1 2 1 1	NA		***Sand (SM)*** Dark gray (N4) sand with fines and trace pebbles; fine to medium grained; loose; wet; trace shale fragments	
18							
						Boring Terminated	
20							
22							

Geologist(s): Greg Frisch

Subcontractor: Parrat Wolff

Driller/ Operator: Layne Tesh

Method: **HSA** ☑ **Geoprobe** ☐ **Rotosonic** ☐

ID(inches): 4.25

** AMSL= Above mean sea level*

Boring Log: ***MW-26A***

Project: EPT

Project No.: 127491

Location: Ithaca, NY

Completion Date: March 22, 2005

Surface Elevation (feet AMSL*): 397.49

TOC Elevation (feet AMSL*): 397.29

Total Depth (feet): 17.5

Borehole Diameter (inches): 8.25

Sample Data					Subsurface Profile		
Depth	Sample Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	Well Construction
0						Ground Surface	
						No Sample Collected	
4	1	0.0	5 9 6 8	NA		***Siltstone*** Medium gray (N5) weathered siltstone bedrock; highly fractured; friable; trace fines; dry to moist	
10	2	0.0	4 6 5 6	NA		***Silty Clay (CL)*** Gray (N5) to brown (7.5 YR 5/2) silty clay; medium stiff; semi- to nonplastic; damp to wet	
16	3	0.0	15-50 4	NA		***Silty Clay (CL)*** Gray (N5) to brown (7.5YR 5/2) silty clay; medium stiff; semi- to nonplastic; damp to wet	
						Siltstone Weathered siltstone	
18						***Boring Terminated***	
22							

Geologist(s): Greg Frisch

Subcontractor: Parrat Wolff

Driller/ Operator: Layne Tesh

Method: **HSA** ☑ **Geoprobe** ☐ **Rotosonic** ☐

ID(inches): 4.25

** AMSL= Above mean sea level*

Appendix C – Laboratory Data Sheets

ANALYTICAL REPORT

Job#: A05-1765

STL Project#: NY4A9171
SDG#: 1765
Site Name: Environmental Strategies Corporation
Task: Ithaca Site

Mr. Brian Silfer
Environmental Strategies Corp.
9 Albany Street
Cazenovia, NY 13035

STL Buffalo

Candace L. Fox
Project Manager

05/06/2005

STL Buffalo
Current Certifications

STATE	Program	Cert # / Lab ID
Arkansas	SDWA, CWA, RCRA, SOIL	03-054-D/88-0686
California	NELAP SDWA, CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida	NELAP RCRA	E87672
Georgia	SDWA	956
Illinois	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	CWA, RCRA	036-999-337
New Hampshire	NELAP SDWA, CWA	233701
New Jersey	SDWA, CWA, RCRA, CLP	NY455
New York	NELAP, AIR, SDWA, CWA, RCRA	10026
North Carolina	CWA	411
North Dakota	SDWA, CWA, RCRA	R-176
Oklahoma	CWA, RCRA	9421
Pennsylvania	Env. Lab Reg.	68-281
South Carolina	RCRA	91013
USDA	FOREIGN SOIL PERMIT	S-41579
Virginia	SDWA	278
Washington	CWA	C254
West Virginia	CWA	252
Wisconsin	CWA	998310390

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A5176503	MW-18A	WATER	02/25/2005	11:00	02/26/2005	09:00
A5176504	MW-19A	WATER	02/25/2005	12:20	02/26/2005	09:00
A5176506	MW-23B	WATER	02/25/2005	13:10	02/26/2005	09:00
A5176507	MW-24B	WATER	02/25/2005	13:30	02/26/2005	09:00
A5176505	MW19A100	WATER	02/25/2005	12:25	02/26/2005	09:00
A5176501	SEEP 1	WATER	02/24/2005	15:14	02/26/2005	09:00
A5176502	SEEP 1	WATER	02/24/2005	15:35	02/26/2005	09:00
A5176508	TBLANK	WATER	02/25/2005		02/26/2005	09:00

METHODS SUMMARY

Job#: A05-1765

STL Project#: NY4A9171
SDG#: 1765
Site Name: Environmental Strategies Corporation

PARAMETER	ANALYTICAL METHOD
METHOD 8260 - TCL VOLATILE ORGANICS	SW8463 8260
ESC - 8270 - TCL SEMI-VOLATILE ORGANICS - W	SW8463 8270
ESC - METHOD 8082 - POLYCHLORINATED BIPHENYLS - W	SW8463 8082

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

NON-CONFORMANCE SUMMARY

Job#: A05-1765

STL Project#: NY4A9171
SDG#: 1765
Site Name: Environmental Strategies Corporation

General Comments

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A05-1765
Sample Cooler(s) were received at the following temperature(s); 3@2.0 °C
All samples were received in good condition.

GC/MS Volatile Data

No deviations from protocol were encountered during the analytical procedures.

GC/MS Semivolatile Data

No deviations from protocol were encountered during the analytical procedures.

GC Extractable Data

For method 8082, sample MW-19A was re-extracted within holding time due to no surrogate recovery. Only the re-extraction data for this sample is reported and identified with an "RE" suffix on the laboratory ID.

For method 8082, the recovery of surrogate Tetrachloro-m-xylene in sample MW-18A is outside of established quality control limits due to the sample matrix. The recovery of surrogate Decachlorobiphenyl is within quality control criteria; no corrective action is required.

****

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected at or above the reporting limit.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
1	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected at or above the reporting limit.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
K	Indicates the post digestion spike recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
M	Indicates duplicate injection results exceeded quality control limits.
W	Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
*	Indicates analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Sample Data Package

Date: 05/06/2005
Time: 12:57:32

Environmental Strategies Corporation
Ithaca Site
METHOD 8260 - TCL VOLATILE ORGANICS

Rept: AN0326

Client ID		MW-18A		MW-19A		MW-23B		MW-24B	
Job No / Lab ID		A05-1765	A5176503	A05-1765	A5176504	A05-1765	A5176506	A05-1765	A5176507
Sample Date		02/25/2005		02/25/2005		02/25/2005		02/25/2005	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	30	5.0	ND	5.0	ND	5.0	13	5.0
Benzene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromodichloromethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromoform	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromomethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Butanone	UG/L	13	5.0	ND	5.0	ND	5.0	ND	5.0
Carbon Disulfide	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Carbon Tetrachloride	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroform	UG/L	ND	1.0	ND	1.0	1.3	1.0	ND	1.0
Chloromethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Cyclohexane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromoethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Dibromochloromethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromo-3-chloropropane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,3-Dichlorobenzene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Dichlorodifluoromethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
cis-1,2-Dichloroethene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
trans-1,2-Dichloroethene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloropropane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
cis-1,3-Dichloropropene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
trans-1,3-Dichloropropene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Hexanone	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Isopropylbenzene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methyl acetate	UG/L	4.5	1.0	ND	1.0	ND	1.0	ND	1.0
Methylcyclohexane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methylene chloride	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
4-Methyl-2-pentanone	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Methyl-t-Butyl Ether (MTBE)	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Styrene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Toluene	UG/L	ND	1.0	ND	1.0	ND	1.0	1.6	1.0
1,2,4-Trichlorobenzene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,1-Trichloroethane	UG/L	ND	1.0	ND	1.0	2.2	1.0	ND	1.0
1,1,2-Trichloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0

NA = Not Applicable ND = Not Detected

STL Buffalo

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Client ID		MW-18A		MW-19A		MW-23B		MW-24B	
Job No	Lab ID	A05-1765	A5176503	A05-1765	A5176504	A05-1765	A5176506	A05-1765	A5176507
Sample Date		02/25/2005		02/25/2005		02/25/2005		02/25/2005	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	UG/L	ND	1.0	ND	1.0	1.0	1.0	ND	1.0
Vinyl chloride	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Total Xylenes	UG/L	ND	3.0	ND	3.0	ND	3.0	ND	3.0
IS/SURROGATE(S)									
Chlorobenzene-D5	%	69	50-200	68	50-200	74	50-200	76	50-200
1,4-Difluorobenzene	%	70	50-200	70	50-200	75	50-200	78	50-200
1,4-Dichlorobenzene-D4	%	63	50-200	60	50-200	65	50-200	66	50-200
Toluene-D8	%	99	76-116	98	76-116	99	76-116	96	76-116
p-Bromofluorobenzene	%	94	73-117	92	73-117	93	73-117	89	73-117
1,2-Dichloroethane-D4	%	104	72-143	103	72-143	105	72-143	99	72-143

NA = Not Applicable ND = Not Detected

Date: 05/06/2005
Time: 12:57:32

Environmental Strategies Corporation
Ithaca Site
METHOD 8260 - TCL VOLATILE ORGANICS

Rept: AN0326

Client ID		MW19A100		SEEP 1					
Job No	Lab ID	A05-1765	A5176505	A05-1765	A5176501				
Sample Date		02/25/2005		02/24/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	5.0	ND	5.0	NA		NA	
Benzene	UG/L	ND	1.0	ND	1.0	NA		NA	
Bromodichloromethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Bromoform	UG/L	ND	1.0	ND	1.0	NA		NA	
Bromomethane	UG/L	ND	1.0	ND	1.0	NA		NA	
2-Butanone	UG/L	ND	5.0	ND	5.0	NA		NA	
Carbon Disulfide	UG/L	ND	1.0	ND	1.0	NA		NA	
Carbon Tetrachloride	UG/L	ND	1.0	ND	1.0	NA		NA	
Chlorobenzene	UG/L	ND	1.0	ND	1.0	NA		NA	
Chloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Chloroform	UG/L	ND	1.0	ND	1.0	NA		NA	
Chloromethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Cyclohexane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,2-Dibromoethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Dibromochloromethane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,2-Dibromo-3-chloropropane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,2-Dichlorobenzene	UG/L	ND	1.0	ND	1.0	NA		NA	
1,3-Dichlorobenzene	UG/L	ND	1.0	ND	1.0	NA		NA	
1,4-Dichlorobenzene	UG/L	ND	1.0	ND	1.0	NA		NA	
Dichlorodifluoromethane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,1-Dichloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,2-Dichloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,1-Dichloroethene	UG/L	ND	1.0	ND	1.0	NA		NA	
cis-1,2-Dichloroethene	UG/L	ND	1.0	ND	1.0	NA		NA	
trans-1,2-Dichloroethene	UG/L	ND	1.0	ND	1.0	NA		NA	
1,2-Dichloropropane	UG/L	ND	1.0	ND	1.0	NA		NA	
cis-1,3-Dichloropropene	UG/L	ND	1.0	ND	1.0	NA		NA	
trans-1,3-Dichloropropene	UG/L	ND	1.0	ND	1.0	NA		NA	
Ethylbenzene	UG/L	ND	1.0	ND	1.0	NA		NA	
2-Hexanone	UG/L	ND	5.0	ND	5.0	NA		NA	
Isopropylbenzene	UG/L	ND	1.0	ND	1.0	NA		NA	
Methyl acetate	UG/L	ND	1.0	ND	1.0	NA		NA	
Methylcyclohexane	UG/L	ND	1.0	ND	1.0	NA		NA	
Methylene chloride	UG/L	ND	1.0	ND	1.0	NA		NA	
4-Methyl-2-pentanone	UG/L	ND	5.0	ND	5.0	NA		NA	
Methyl-t-Butyl Ether (MTBE)	UG/L	ND	1.0	ND	1.0	NA		NA	
Styrene	UG/L	ND	1.0	ND	1.0	NA		NA	
1,1,2,2-Tetrachloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Tetrachloroethene	UG/L	ND	1.0	ND	1.0	NA		NA	
Toluene	UG/L	ND	1.0	ND	1.0	NA		NA	
1,2,4-Trichlorobenzene	UG/L	ND	1.0	ND	1.0	NA		NA	
1,1,1-Trichloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,1,2-Trichloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	

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NA = Not Applicable ND = Not Detected

STL Buffalo

Client ID		MW19A100		SEEP 1					
Job No	Lab ID	A05-1765	A5176505	A05-1765	A5176501				
Sample Date		02/25/2005		02/24/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	1.0	ND	1.0	NA		NA	
Trichlorofluoromethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Trichloroethene	UG/L	ND	1.0	ND	1.0	NA		NA	
Vinyl chloride	UG/L	ND	1.0	ND	1.0	NA		NA	
Total Xylenes	UG/L	ND	3.0	ND	3.0	NA		NA	
========IS/SURROGATE(S)==									
Chlorobenzene-D5	%	71	50-200	68	50-200	NA		NA	
1,4-Difluorobenzene	%	72	50-200	68	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	62	50-200	59	50-200	NA		NA	
Toluene-D8	%	98	76-116	97	76-116	NA		NA	
p-Bromofluorobenzene	%	90	73-117	91	73-117	NA		NA	
1,2-Dichloroethane-D4	%	102	72-143	103	72-143	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		MW-18A		MW-19A		MW-23B		MW-24B	
Job No	Lab ID	A05-1765	A5176503	A05-1765	A5176504	A05-1765	A5176506	A05-1765	A5176507
Sample Date		02/25/2005		02/25/2005		02/25/2005		02/25/2005	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/L	ND	10	ND	10	ND	10	ND	10
Acenaphthylene	UG/L	ND	10	ND	10	ND	10	ND	10
Acetophenone	UG/L	ND	10	ND	10	ND	10	ND	10
Anthracene	UG/L	ND	10	ND	10	ND	10	ND	10
Atrazine	UG/L	ND	10	ND	10	ND	10	ND	10
Benzaldehyde	UG/L	ND	49	ND	50	ND	48	ND	50
Benzo(a)anthracene	UG/L	ND	10	ND	10	ND	10	ND	10
Benzo(b)fluoranthene	UG/L	ND	10	ND	10	ND	10	ND	10
Benzo(k)fluoranthene	UG/L	ND	10	ND	10	ND	10	ND	10
Benzo(ghi)perylene	UG/L	ND	10	ND	10	ND	10	ND	10
Benzo(a)pyrene	UG/L	ND	10	ND	10	ND	10	ND	10
Benzoic acid	UG/L	ND	150	ND	150	ND	140	ND	150
Benzyl alcohol	UG/L	ND	20	ND	20	ND	19	ND	20
Biphenyl	UG/L	ND	10	ND	10	ND	10	ND	10
Bis(2-chloroethoxy) methane	UG/L	ND	10	ND	10	ND	10	ND	10
Bis(2-chloroethyl) ether	UG/L	ND	10	ND	10	ND	10	ND	10
2,2'-Oxybis(1-Chloropropane)	UG/L	ND	10	ND	10	ND	10	ND	10
Bis(2-ethylhexyl) phthalate	UG/L	ND	10	ND	10	ND	10	ND	10
4-Bromophenyl phenyl ether	UG/L	ND	10	ND	10	ND	10	ND	10
Butyl benzyl phthalate	UG/L	ND	10	ND	10	ND	10	ND	10
4-Chloroaniline	UG/L	ND	10	ND	10	ND	10	ND	10
4-Chloro-3-methylphenol	UG/L	ND	10	ND	10	ND	10	ND	10
2-Chloronaphthalene	UG/L	ND	10	ND	10	ND	10	ND	10
2-Chlorophenol	UG/L	ND	10	ND	10	ND	10	ND	10
4-Chlorophenyl phenyl ether	UG/L	ND	10	ND	10	ND	10	ND	10
Caprolactam	UG/L	ND	10	ND	10	ND	10	ND	10
Chrysene	UG/L	ND	10	ND	10	ND	10	ND	10
Dibenzo(a,h)anthracene	UG/L	ND	10	ND	10	ND	10	ND	10
Dibenzofuran	UG/L	ND	10	ND	10	ND	10	ND	10
Di-n-butyl phthalate	UG/L	ND	10	ND	10	ND	10	ND	10
1,2-Dichlorobenzene	UG/L	ND	10	ND	10	ND	10	ND	10
1,3-Dichlorobenzene	UG/L	ND	10	ND	10	ND	10	ND	10
1,4-Dichlorobenzene	UG/L	ND	10	ND	10	ND	10	ND	10
3,3'-Dichlorobenzidine	UG/L	ND	20	ND	20	ND	19	ND	20
2,4-Dichlorophenol	UG/L	ND	10	ND	10	ND	10	ND	10
Diethyl phthalate	UG/L	ND	10	ND	10	ND	10	ND	10
2,4-Dimethylphenol	UG/L	ND	10	ND	10	ND	10	ND	10
Dimethyl phthalate	UG/L	ND	10	ND	10	ND	10	ND	10
4,6-Dinitro-2-methylphenol	UG/L	ND	49	ND	50	ND	48	ND	50
2,4-Dinitrophenol	UG/L	ND	49	ND	50	ND	48	ND	50
2,4-Dinitrotoluene	UG/L	ND	10	ND	10	ND	10	ND	10
2,6-Dinitrotoluene	UG/L	ND	10	ND	10	ND	10	ND	10
Di-n-octyl phthalate	UG/L	ND	10	ND	10	ND	10	ND	10

NA = Not Applicable ND = Not Detected

Client ID		MW-18A		MW-19A		MW-23B		MW-24B	
Job No	Lab ID	A05-1765	A5176503	A05-1765	A5176504	A05-1765	A5176506	A05-1765	A5176507
Sample Date		02/25/2005		02/25/2005		02/25/2005		02/25/2005	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Fluoranthene	UG/L	ND	10	ND	10	ND	10	ND	10
Fluorene	UG/L	ND	10	ND	10	ND	10	ND	10
Hexachlorobenzene	UG/L	ND	10	ND	10	ND	10	ND	10
Hexachlorobutadiene	UG/L	ND	10	ND	10	ND	10	ND	10
Hexachlorocyclopentadiene	UG/L	ND	44	ND	44	ND	43	ND	45
Hexachloroethane	UG/L	ND	10	ND	10	ND	10	ND	10
Indeno(1,2,3-cd)pyrene	UG/L	ND	10	ND	10	ND	10	ND	10
Isophorone	UG/L	ND	10	ND	10	ND	10	ND	10
2-Methylnaphthalene	UG/L	ND	10	ND	10	ND	10	ND	10
2-Methylphenol	UG/L	ND	10	ND	10	ND	10	ND	10
4-Methylphenol	UG/L	ND	10	ND	10	ND	10	ND	10
Naphthalene	UG/L	ND	10	ND	10	ND	10	ND	10
2-Nitroaniline	UG/L	ND	49	ND	50	ND	48	ND	50
3-Nitroaniline	UG/L	ND	49	ND	50	ND	48	ND	50
4-Nitroaniline	UG/L	ND	49	ND	50	ND	48	ND	50
Nitrobenzene	UG/L	ND	10	ND	10	ND	10	ND	10
2-Nitrophenol	UG/L	ND	10	ND	10	ND	10	ND	10
4-Nitrophenol	UG/L	ND	49	ND	50	ND	48	ND	50
N-nitrosodiphenylamine	UG/L	ND	10	ND	10	ND	10	ND	10
N-Nitroso-Di-n-propylamine	UG/L	ND	10	ND	10	ND	10	ND	10
Pentachlorophenol	UG/L	ND	49	ND	50	ND	48	ND	50
Phenanthrene	UG/L	ND	10	ND	10	ND	10	ND	10
Phenol	UG/L	ND	10	ND	10	ND	10	ND	10
Pyrene	UG/L	ND	10	ND	10	ND	10	ND	10
1,2,4-Trichlorobenzene	UG/L	ND	10	ND	10	ND	10	ND	10
2,4,5-Trichlorophenol	UG/L	ND	10	ND	10	ND	10	ND	10
2,4,6-Trichlorophenol	UG/L	ND	10	ND	10	ND	10	ND	10
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	98	50-200	102	50-200	101	50-200	99	50-200
Naphthalene-D8	%	101	50-200	102	50-200	100	50-200	100	50-200
Acenaphthene-D10	%	103	50-200	103	50-200	102	50-200	102	50-200
Phenanthrene-D10	%	105	50-200	106	50-200	102	50-200	104	50-200
Chrysene-D12	%	103	50-200	105	50-200	100	50-200	103	50-200
Perylene-D12	%	102	50-200	104	50-200	103	50-200	103	50-200
Nitrobenzene-D5	%	87	34-121	98	34-121	97	34-121	87	34-121
2-Fluorobiphenyl	%	82	42-126	94	42-126	92	42-126	83	42-126
p-Terphenyl-d14	%	70	36-145	90	36-145	92	36-145	87	36-145
Phenol-D5	%	33	10-110	33	10-110	35	10-110	32	10-110
2-Fluorophenol	%	47	14-120	47	14-120	49	14-120	45	14-120
2,4,6-Tribromophenol	%	98	42-158	112	42-158	108	42-158	98	42-158

NA = Not Applicable ND = Not Detected

Environmental Strategies Corporation
Ithaca Site
ESC - 8270 - TCL SEMI-VOLATILE ORGANICS - W

Client ID		MW19A100		SEEP 1					
Job No / Lab ID		A05-1765	A5176505	A05-1765	A5176502				
Sample Date		02/25/2005		02/24/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/L	ND	9	ND	10	NA		NA	
Acenaphthylene	UG/L	ND	9	ND	10	NA		NA	
Acetophenone	UG/L	ND	9	ND	10	NA		NA	
Anthracene	UG/L	ND	9	ND	10	NA		NA	
Atrazine	UG/L	ND	9	ND	10	NA		NA	
Benzaldehyde	UG/L	ND	47	ND	48	NA		NA	
Benzo(a)anthracene	UG/L	ND	9	ND	10	NA		NA	
Benzo(b)fluoranthene	UG/L	ND	9	ND	10	NA		NA	
Benzo(k)fluoranthene	UG/L	ND	9	ND	10	NA		NA	
Benzo(ghi)perylene	UG/L	ND	9	ND	10	NA		NA	
Benzo(a)pyrene	UG/L	ND	9	ND	10	NA		NA	
Benzoic acid	UG/L	ND	140	ND	140	NA		NA	
Benzyl alcohol	UG/L	ND	19	ND	19	NA		NA	
Biphenyl	UG/L	ND	9	ND	10	NA		NA	
Bis(2-chloroethoxy) methane	UG/L	ND	9	ND	10	NA		NA	
Bis(2-chloroethyl) ether	UG/L	ND	9	ND	10	NA		NA	
2,2'-Oxybis(1-Chloropropane)	UG/L	ND	9	ND	10	NA		NA	
Bis(2-ethylhexyl) phthalate	UG/L	ND	9	ND	10	NA		NA	
4-Bromophenyl phenyl ether	UG/L	ND	9	ND	10	NA		NA	
Butyl benzyl phthalate	UG/L	ND	9	ND	10	NA		NA	
4-Chloroaniline	UG/L	ND	9	ND	10	NA		NA	
4-Chloro-3-methylphenol	UG/L	ND	9	ND	10	NA		NA	
2-Chloronaphthalene	UG/L	ND	9	ND	10	NA		NA	
2-Chlorophenol	UG/L	ND	9	ND	10	NA		NA	
4-Chlorophenyl phenyl ether	UG/L	ND	9	ND	10	NA		NA	
Caprolactam	UG/L	ND	9	ND	10	NA		NA	
Chrysene	UG/L	ND	9	ND	10	NA		NA	
Dibenzo(a,h)anthracene	UG/L	ND	9	ND	10	NA		NA	
Dibenzofuran	UG/L	ND	9	ND	10	NA		NA	
Di-n-butyl phthalate	UG/L	ND	9	ND	10	NA		NA	
1,2-Dichlorobenzene	UG/L	ND	9	ND	10	NA		NA	
1,3-Dichlorobenzene	UG/L	ND	9	ND	10	NA		NA	
1,4-Dichlorobenzene	UG/L	ND	9	ND	10	NA		NA	
3,3'-Dichlorobenzidine	UG/L	ND	19	ND	19	NA		NA	
2,4-Dichlorophenol	UG/L	ND	9	ND	10	NA		NA	
Diethyl phthalate	UG/L	ND	9	ND	10	NA		NA	
2,4-Dimethylphenol	UG/L	ND	9	ND	10	NA		NA	
Dimethyl phthalate	UG/L	ND	9	ND	10	NA		NA	
4,6-Dinitro-2-methylphenol	UG/L	ND	47	ND	48	NA		NA	
2,4-Dinitrophenol	UG/L	ND	47	ND	48	NA		NA	
2,4-Dinitrotoluene	UG/L	ND	9	ND	10	NA		NA	
2,6-Dinitrotoluene	UG/L	ND	9	ND	10	NA		NA	
Di-n-octyl phthalate	UG/L	ND	9	ND	10	NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

Client ID		MW19A100		SEEP 1					
Job No	Lab ID	A05-1765	A5176505	A05-1765	A5176502				
Sample Date		02/25/2005		02/24/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Fluoranthene	UG/L	ND	9	ND	10	NA		NA	
Fluorene	UG/L	ND	9	ND	10	NA		NA	
Hexachlorobenzene	UG/L	ND	9	ND	10	NA		NA	
Hexachlorobutadiene	UG/L	ND	9	ND	10	NA		NA	
Hexachlorocyclopentadiene	UG/L	ND	42	ND	44	NA		NA	
Hexachloroethane	UG/L	ND	9	ND	10	NA		NA	
Indeno(1,2,3-cd)pyrene	UG/L	ND	9	ND	10	NA		NA	
Isophorone	UG/L	ND	9	ND	10	NA		NA	
2-Methylnaphthalene	UG/L	ND	9	ND	10	NA		NA	
2-Methylphenol	UG/L	ND	9	ND	10	NA		NA	
4-Methylphenol	UG/L	ND	9	ND	10	NA		NA	
Naphthalene	UG/L	ND	9	ND	10	NA		NA	
2-Nitroaniline	UG/L	ND	47	ND	48	NA		NA	
3-Nitroaniline	UG/L	ND	47	ND	48	NA		NA	
4-Nitroaniline	UG/L	ND	47	ND	48	NA		NA	
Nitrobenzene	UG/L	ND	9	ND	10	NA		NA	
2-Nitrophenol	UG/L	ND	9	ND	10	NA		NA	
4-Nitrophenol	UG/L	ND	47	ND	48	NA		NA	
N-nitrosodiphenylamine	UG/L	ND	9	ND	10	NA		NA	
N-Nitroso-Di-n-propylamine	UG/L	ND	9	ND	10	NA		NA	
Pentachlorophenol	UG/L	ND	47	ND	48	NA		NA	
Phenanthrene	UG/L	ND	9	ND	10	NA		NA	
Phenol	UG/L	ND	9	ND	10	NA		NA	
Pyrene	UG/L	ND	9	ND	10	NA		NA	
1,2,4-Trichlorobenzene	UG/L	ND	9	ND	10	NA		NA	
2,4,5-Trichlorophenol	UG/L	ND	9	ND	10	NA		NA	
2,4,6-Trichlorophenol	UG/L	ND	9	ND	10	NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	94	50-200	100	50-200	NA		NA	
Naphthalene-D8	%	97	50-200	99	50-200	NA		NA	
Acenaphthene-D10	%	97	50-200	100	50-200	NA		NA	
Phenanthrene-D10	%	98	50-200	104	50-200	NA		NA	
Chrysene-D12	%	96	50-200	107	50-200	NA		NA	
Perylene-D12	%	99	50-200	121	50-200	NA		NA	
Nitrobenzene-D5	%	94	34-121	94	34-121	NA		NA	
2-Fluorobiphenyl	%	91	42-126	91	42-126	NA		NA	
p-Terphenyl-d14	%	89	36-145	80	36-145	NA		NA	
Phenol-D5	%	33	10-110	30	10-110	NA		NA	
2-Fluorophenol	%	48	14-120	43	14-120	NA		NA	
2,4,6-Tribromophenol	%	110	42-158	106	42-158	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		MW-18A		MW-19A		MW-23B		MW-24B	
Job No	Lab ID	A05-1765	A5176503	A05-1765	A5176504RE	A05-1765	A5176506	A05-1765	A5176507
Sample Date		02/25/2005		02/25/2005		02/25/2005		02/25/2005	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/L	ND	0.50	ND	0.48	ND	0.48	ND	0.51
Aroclor 1221	UG/L	ND	0.50	ND	0.48	ND	0.48	ND	0.51
Aroclor 1232	UG/L	ND	0.50	ND	0.48	ND	0.48	ND	0.51
Aroclor 1242	UG/L	ND	0.50	ND	0.48	ND	0.48	ND	0.51
Aroclor 1248	UG/L	ND	0.50	ND	0.48	ND	0.48	ND	0.51
Aroclor 1254	UG/L	ND	0.50	ND	0.48	ND	0.48	ND	0.51
Aroclor 1260	UG/L	ND	0.50	ND	0.48	ND	0.48	ND	0.51
SURROGATE(S)									
Tetrachloro-m-xylene	%	142 *	36-132	82	36-132	48	36-132	72	36-132
Decachlorobiphenyl	%	132	28-132	38	28-132	61	28-132	73	28-132

Client ID		MW19A100		SEEP 1					
Job No	Lab ID	A05-1765	A5176505	A05-1765	A5176502				
Sample Date		02/25/2005		02/24/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/L	ND	0.50	ND	0.48	NA		NA	
Aroclor 1221	UG/L	ND	0.50	ND	0.48	NA		NA	
Aroclor 1232	UG/L	ND	0.50	ND	0.48	NA		NA	
Aroclor 1242	UG/L	ND	0.50	ND	0.48	NA		NA	
Aroclor 1248	UG/L	ND	0.50	ND	0.48	NA		NA	
Aroclor 1254	UG/L	ND	0.50	ND	0.48	NA		NA	
Aroclor 1260	UG/L	ND	0.50	ND	0.48	NA		NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	78	36-132	80	36-132	NA		NA	
Decachlorobiphenyl	%	72	28-132	92	28-132	NA		NA	

NA = Not Applicable ND = Not Detected

Chronology and QC Summary Package

Client ID		VBLK65		VBLK66					
Job No	Lab ID	A05-1765	A5B0269902	A05-1765	A5B0275602				
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	5.0	ND	5.0	NA		NA	
Benzene	UG/L	ND	1.0	ND	1.0	NA		NA	
Bromodichloromethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Bromoform	UG/L	ND	1.0	ND	1.0	NA		NA	
Bromomethane	UG/L	ND	1.0	ND	1.0	NA		NA	
2-Butanone	UG/L	ND	5.0	ND	5.0	NA		NA	
Carbon Disulfide	UG/L	ND	1.0	ND	1.0	NA		NA	
Carbon Tetrachloride	UG/L	ND	1.0	ND	1.0	NA		NA	
Chlorobenzene	UG/L	ND	1.0	ND	1.0	NA		NA	
Chloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Chloroform	UG/L	ND	1.0	ND	1.0	NA		NA	
Chloromethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Cyclohexane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,2-Dibromoethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Dibromochloromethane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,2-Dibromo-3-chloropropane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,2-Dichlorobenzene	UG/L	ND	1.0	ND	1.0	NA		NA	
1,3-Dichlorobenzene	UG/L	ND	1.0	ND	1.0	NA		NA	
1,4-Dichlorobenzene	UG/L	ND	1.0	ND	1.0	NA		NA	
Dichlorodifluoromethane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,1-Dichloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,2-Dichloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,1-Dichloroethene	UG/L	ND	1.0	ND	1.0	NA		NA	
cis-1,2-Dichloroethene	UG/L	ND	1.0	ND	1.0	NA		NA	
trans-1,2-Dichloroethene	UG/L	ND	1.0	ND	1.0	NA		NA	
1,2-Dichloropropane	UG/L	ND	1.0	ND	1.0	NA		NA	
cis-1,3-Dichloropropene	UG/L	ND	1.0	ND	1.0	NA		NA	
trans-1,3-Dichloropropene	UG/L	ND	1.0	ND	1.0	NA		NA	
Ethylbenzene	UG/L	ND	1.0	ND	1.0	NA		NA	
2-Hexanone	UG/L	ND	5.0	ND	5.0	NA		NA	
Isopropylbenzene	UG/L	ND	1.0	ND	1.0	NA		NA	
Methyl acetate	UG/L	ND	1.0	ND	1.0	NA		NA	
Methylcyclohexane	UG/L	ND	1.0	ND	1.0	NA		NA	
Methylene chloride	UG/L	ND	1.0	ND	1.0	NA		NA	
4-Methyl-2-pentanone	UG/L	ND	5.0	ND	5.0	NA		NA	
Methyl-t-Butyl Ether (MTBE)	UG/L	ND	1.0	ND	1.0	NA		NA	
Styrene	UG/L	ND	1.0	ND	1.0	NA		NA	
1,1,2,2-Tetrachloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Tetrachloroethene	UG/L	ND	1.0	ND	1.0	NA		NA	
Toluene	UG/L	ND	1.0	ND	1.0	NA		NA	
1,2,4-Trichlorobenzene	UG/L	ND	1.0	ND	1.0	NA		NA	
1,1,1-Trichloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,1,2-Trichloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		VBLK65		VBLK66					
Job No	Lab ID	A05-1765	A5B0269902	A05-1765	A5B0275602				
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	1.0	ND	1.0	NA		NA	
Trichlorofluoromethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Trichloroethene	UG/L	ND	1.0	ND	1.0	NA		NA	
Vinyl chloride	UG/L	ND	1.0	ND	1.0	NA		NA	
Total Xylenes	UG/L	ND	3.0	ND	3.0	NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	90	50-200	91	50-200	NA		NA	
1,4-Difluorobenzene	%	92	50-200	91	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	85	50-200	79	50-200	NA		NA	
Toluene-D8	%	99	76-116	96	76-116	NA		NA	
p-Bromofluorobenzene	%	95	73-117	90	73-117	NA		NA	
1,2-Dichloroethane-D4	%	102	72-143	103	72-143	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		MSB65 A05-1765 A5B0269901		MSB66 A05-1765 A5B0275601					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	5.0	ND	5.0	NA		NA	
Benzene	UG/L	11	1.0	12	1.0	NA		NA	
Bromodichloromethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Bromoform	UG/L	ND	1.0	ND	1.0	NA		NA	
Bromomethane	UG/L	ND	1.0	ND	1.0	NA		NA	
2-Butanone	UG/L	ND	5.0	ND	5.0	NA		NA	
Carbon Disulfide	UG/L	ND	1.0	ND	1.0	NA		NA	
Carbon Tetrachloride	UG/L	ND	1.0	ND	1.0	NA		NA	
Chlorobenzene	UG/L	10	1.0	11	1.0	NA		NA	
Chloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Chloroform	UG/L	ND	1.0	ND	1.0	NA		NA	
Chloromethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Cyclohexane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,2-Dibromoethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Dibromochloromethane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,2-Dibromo-3-chloropropane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,2-Dichlorobenzene	UG/L	ND	1.0	ND	1.0	NA		NA	
1,3-Dichlorobenzene	UG/L	ND	1.0	ND	1.0	NA		NA	
1,4-Dichlorobenzene	UG/L	ND	1.0	ND	1.0	NA		NA	
Dichlorodifluoromethane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,1-Dichloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,2-Dichloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,1-Dichloroethene	UG/L	11	1.0	12	1.0	NA		NA	
cis-1,2-Dichloroethene	UG/L	ND	1.0	ND	1.0	NA		NA	
trans-1,2-Dichloroethene	UG/L	ND	1.0	ND	1.0	NA		NA	
1,2-Dichloropropane	UG/L	ND	1.0	ND	1.0	NA		NA	
cis-1,3-Dichloropropene	UG/L	ND	1.0	ND	1.0	NA		NA	
trans-1,3-Dichloropropene	UG/L	ND	1.0	ND	1.0	NA		NA	
Ethylbenzene	UG/L	ND	1.0	ND	1.0	NA		NA	
2-Hexanone	UG/L	ND	5.0	ND	5.0	NA		NA	
Isopropylbenzene	UG/L	ND	1.0	ND	1.0	NA		NA	
Methyl acetate	UG/L	ND	1.0	ND	1.0	NA		NA	
Methylcyclohexane	UG/L	ND	1.0	ND	1.0	NA		NA	
Methylene chloride	UG/L	ND	1.0	ND	1.0	NA		NA	
4-Methyl-2-pentanone	UG/L	ND	5.0	ND	5.0	NA		NA	
Methyl-t-Butyl Ether (MTBE)	UG/L	ND	1.0	ND	1.0	NA		NA	
Styrene	UG/L	ND	1.0	ND	1.0	NA		NA	
1,1,2,2-Tetrachloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Tetrachloroethene	UG/L	ND	1.0	ND	1.0	NA		NA	
Toluene	UG/L	11	1.0	11	1.0	NA		NA	
1,2,4-Trichlorobenzene	UG/L	ND	1.0	ND	1.0	NA		NA	
1,1,1-Trichloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,1,2-Trichloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		MSB65 A05-1765 A5B0269901		MSB66 A05-1765 A5B0275601					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	1.0	ND	1.0	NA		NA	
Trichlorofluoromethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Trichloroethene	UG/L	11	1.0	11	1.0	NA		NA	
Vinyl chloride	UG/L	ND	1.0	ND	1.0	NA		NA	
Total Xylenes	UG/L	ND	3.0	ND	3.0	NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	95	50-200	95	50-200	NA		NA	
1,4-Difluorobenzene	%	99	50-200	97	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	89	50-200	82	50-200	NA		NA	
Toluene-D8	%	99	76-116	98	76-116	NA		NA	
p-Bromofluorobenzene	%	95	73-117	92	73-117	NA		NA	
1,2-Dichloroethane-D4	%	96	72-143	99	72-143	NA		NA	

NA = Not Applicable ND = Not Detected

Date: 05/06/2005
Time: 12:58:05

Environmental Strategies Corporation
Ithaca Site
METHOD 8260 - TCL VOLATILE ORGANICS

Rept: AN0326

Client ID		TBLANK							
Job No	Lab ID	A05-1765	A5176508						
Sample Date		02/25/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	5.0	NA		NA		NA	
Benzene	UG/L	ND	1.0	NA		NA		NA	
Bromodichloromethane	UG/L	ND	1.0	NA		NA		NA	
Bromoform	UG/L	ND	1.0	NA		NA		NA	
Bromomethane	UG/L	ND	1.0	NA		NA		NA	
2-Butanone	UG/L	ND	5.0	NA		NA		NA	
Carbon Disulfide	UG/L	ND	1.0	NA		NA		NA	
Carbon Tetrachloride	UG/L	ND	1.0	NA		NA		NA	
Chlorobenzene	UG/L	ND	1.0	NA		NA		NA	
Chloroethane	UG/L	ND	1.0	NA		NA		NA	
Chloroform	UG/L	ND	1.0	NA		NA		NA	
Chloromethane	UG/L	ND	1.0	NA		NA		NA	
Cyclohexane	UG/L	ND	1.0	NA		NA		NA	
1,2-Dibromoethane	UG/L	ND	1.0	NA		NA		NA	
Dibromochloromethane	UG/L	ND	1.0	NA		NA		NA	
1,2-Dibromo-3-chloropropane	UG/L	ND	1.0	NA		NA		NA	
1,2-Dichlorobenzene	UG/L	ND	1.0	NA		NA		NA	
1,3-Dichlorobenzene	UG/L	ND	1.0	NA		NA		NA	
1,4-Dichlorobenzene	UG/L	ND	1.0	NA		NA		NA	
Dichlorodifluoromethane	UG/L	ND	1.0	NA		NA		NA	
1,1-Dichloroethane	UG/L	ND	1.0	NA		NA		NA	
1,2-Dichloroethane	UG/L	ND	1.0	NA		NA		NA	
1,1-Dichloroethene	UG/L	ND	1.0	NA		NA		NA	
cis-1,2-Dichloroethene	UG/L	ND	1.0	NA		NA		NA	
trans-1,2-Dichloroethene	UG/L	ND	1.0	NA		NA		NA	
1,2-Dichloropropane	UG/L	ND	1.0	NA		NA		NA	
cis-1,3-Dichloropropene	UG/L	ND	1.0	NA		NA		NA	
trans-1,3-Dichloropropene	UG/L	ND	1.0	NA		NA		NA	
Ethylbenzene	UG/L	ND	1.0	NA		NA		NA	
2-Hexanone	UG/L	ND	5.0	NA		NA		NA	
Isopropylbenzene	UG/L	ND	1.0	NA		NA		NA	
Methyl acetate	UG/L	ND	1.0	NA		NA		NA	
Methylcyclohexane	UG/L	ND	1.0	NA		NA		NA	
Methylene chloride	UG/L	ND	1.0	NA		NA		NA	
4-Methyl-2-pentanone	UG/L	ND	5.0	NA		NA		NA	
Methyl-t-Butyl Ether (MTBE)	UG/L	ND	1.0	NA		NA		NA	
Styrene	UG/L	ND	1.0	NA		NA		NA	
1,1,2,2-Tetrachloroethane	UG/L	ND	1.0	NA		NA		NA	
Tetrachloroethene	UG/L	ND	1.0	NA		NA		NA	
Toluene	UG/L	ND	1.0	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/L	ND	1.0	NA		NA		NA	
1,1,1-Trichloroethane	UG/L	ND	1.0	NA		NA		NA	
1,1,2-Trichloroethane	UG/L	ND	1.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

Environmental Strategies Corporation
Ithaca Site
METHOD 8260 - TCL VOLATILE ORGANICS

Client ID		TBLANK							
Job No	Lab ID	A05-1765	A5176508						
Sample Date		02/25/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	1.0	NA		NA		NA	
Trichlorofluoromethane	UG/L	ND	1.0	NA		NA		NA	
Trichloroethene	UG/L	ND	1.0	NA		NA		NA	
Vinyl chloride	UG/L	ND	1.0	NA		NA		NA	
Total Xylenes	UG/L	ND	3.0	NA		NA		NA	
==========IS/SURROGATE(S)==========									
Chlorobenzene-D5	%	82	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	83	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	75	50-200	NA		NA		NA	
Toluene-D8	%	96	76-116	NA		NA		NA	
p-Bromofluorobenzene	%	93	73-117	NA		NA		NA	
1,2-Dichloroethane-D4	%	103	72-143	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		SBLK							
Job No	Lab ID	A05-1765	A5B0263902						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/L	ND	10	NA		NA		NA	
Acenaphthylene	UG/L	ND	10	NA		NA		NA	
Acetophenone	UG/L	ND	10	NA		NA		NA	
Anthracene	UG/L	ND	10	NA		NA		NA	
Atrazine	UG/L	ND	10	NA		NA		NA	
Benzaldehyde	UG/L	ND	50	NA		NA		NA	
Benzo(a)anthracene	UG/L	ND	10	NA		NA		NA	
Benzo(b)fluoranthene	UG/L	ND	10	NA		NA		NA	
Benzo(k)fluoranthene	UG/L	ND	10	NA		NA		NA	
Benzo(ghi)perylene	UG/L	ND	10	NA		NA		NA	
Benzo(a)pyrene	UG/L	ND	10	NA		NA		NA	
Benzoic acid	UG/L	ND	150	NA		NA		NA	
Benzyl alcohol	UG/L	ND	20	NA		NA		NA	
Biphenyl	UG/L	ND	10	NA		NA		NA	
Bis(2-chloroethoxy) methane	UG/L	ND	10	NA		NA		NA	
Bis(2-chloroethyl) ether	UG/L	ND	10	NA		NA		NA	
2,2'-Oxybis(1-Chloropropane)	UG/L	ND	10	NA		NA		NA	
Bis(2-ethylhexyl) phthalate	UG/L	ND	10	NA		NA		NA	
4-Bromophenyl phenyl ether	UG/L	ND	10	NA		NA		NA	
Butyl benzyl phthalate	UG/L	ND	10	NA		NA		NA	
4-Chloroaniline	UG/L	ND	10	NA		NA		NA	
4-Chloro-3-methylphenol	UG/L	ND	10	NA		NA		NA	
2-Chloronaphthalene	UG/L	ND	10	NA		NA		NA	
2-Chlorophenol	UG/L	ND	10	NA		NA		NA	
4-Chlorophenyl phenyl ether	UG/L	ND	10	NA		NA		NA	
Caprolactam	UG/L	ND	10	NA		NA		NA	
Chrysene	UG/L	ND	10	NA		NA		NA	
Dibenzo(a,h)anthracene	UG/L	ND	10	NA		NA		NA	
Dibenzofuran	UG/L	ND	10	NA		NA		NA	
Di-n-butyl phthalate	UG/L	ND	10	NA		NA		NA	
1,2-Dichlorobenzene	UG/L	ND	10	NA		NA		NA	
1,3-Dichlorobenzene	UG/L	ND	10	NA		NA		NA	
1,4-Dichlorobenzene	UG/L	ND	10	NA		NA		NA	
3,3'-Dichlorobenzidine	UG/L	ND	20	NA		NA		NA	
2,4-Dichlorophenol	UG/L	ND	10	NA		NA		NA	
Diethyl phthalate	UG/L	ND	10	NA		NA		NA	
2,4-Dimethylphenol	UG/L	ND	10	NA		NA		NA	
Dimethyl phthalate	UG/L	ND	10	NA		NA		NA	
4,6-Dinitro-2-methylphenol	UG/L	ND	50	NA		NA		NA	
2,4-Dinitrophenol	UG/L	ND	50	NA		NA		NA	
2,4-Dinitrotoluene	UG/L	ND	10	NA		NA		NA	
2,6-Dinitrotoluene	UG/L	ND	10	NA		NA		NA	
Di-n-octyl phthalate	UG/L	ND	10	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		SBLK							
Job No	Lab ID	A05-1765	A5B0263902						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Fluoranthene	UG/L	ND	10	NA		NA		NA	
Fluorene	UG/L	ND	10	NA		NA		NA	
Hexachlorobenzene	UG/L	ND	10	NA		NA		NA	
Hexachlorobutadiene	UG/L	ND	10	NA		NA		NA	
Hexachlorocyclopentadiene	UG/L	ND	45	NA		NA		NA	
Hexachloroethane	UG/L	ND	10	NA		NA		NA	
Indeno(1,2,3-cd)pyrene	UG/L	ND	10	NA		NA		NA	
Isophorone	UG/L	ND	10	NA		NA		NA	
2-Methylnaphthalene	UG/L	ND	10	NA		NA		NA	
2-Methylphenol	UG/L	ND	10	NA		NA		NA	
4-Methylphenol	UG/L	ND	10	NA		NA		NA	
Naphthalene	UG/L	ND	10	NA		NA		NA	
2-Nitroaniline	UG/L	ND	50	NA		NA		NA	
3-Nitroaniline	UG/L	ND	50	NA		NA		NA	
4-Nitroaniline	UG/L	ND	50	NA		NA		NA	
Nitrobenzene	UG/L	ND	10	NA		NA		NA	
2-Nitrophenol	UG/L	ND	10	NA		NA		NA	
4-Nitrophenol	UG/L	ND	50	NA		NA		NA	
N-nitrosodiphenylamine	UG/L	ND	10	NA		NA		NA	
N-Nitroso-Di-n-propylamine	UG/L	ND	10	NA		NA		NA	
Pentachlorophenol	UG/L	ND	50	NA		NA		NA	
Phenanthrene	UG/L	ND	10	NA		NA		NA	
Phenol	UG/L	ND	10	NA		NA		NA	
Pyrene	UG/L	ND	10	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/L	ND	10	NA		NA		NA	
2,4,5-Trichlorophenol	UG/L	ND	10	NA		NA		NA	
2,4,6-Trichlorophenol	UG/L	ND	10	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	97	50-200	NA		NA		NA	
Naphthalene-D8	%	99	50-200	NA		NA		NA	
Acenaphthene-D10	%	104	50-200	NA		NA		NA	
Phenanthrene-D10	%	106	50-200	NA		NA		NA	
Chrysene-D12	%	108	50-200	NA		NA		NA	
Perylene-D12	%	121	50-200	NA		NA		NA	
Nitrobenzene-D5	%	82	34-121	NA		NA		NA	
2-Fluorobiphenyl	%	78	42-126	NA		NA		NA	
p-Terphenyl-d14	%	89	36-145	NA		NA		NA	
Phenol-D5	%	30	10-110	NA		NA		NA	
2-Fluorophenol	%	42	14-120	NA		NA		NA	
2,4,6-Tribromophenol	%	100	42-158	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Matrix Spike Blank							
Job No	Lab ID	A05-1765	A5B0263901						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/L	82	10	NA		NA		NA	
Acenaphthylene	UG/L	ND	10	NA		NA		NA	
Acetophenone	UG/L	ND	10	NA		NA		NA	
Anthracene	UG/L	ND	10	NA		NA		NA	
Atrazine	UG/L	ND	10	NA		NA		NA	
Benzaldehyde	UG/L	ND	50	NA		NA		NA	
Benzo(a)anthracene	UG/L	ND	10	NA		NA		NA	
Benzo(b)fluoranthene	UG/L	ND	10	NA		NA		NA	
Benzo(k)fluoranthene	UG/L	ND	10	NA		NA		NA	
Benzo(ghi)perylene	UG/L	ND	10	NA		NA		NA	
Benzo(a)pyrene	UG/L	ND	10	NA		NA		NA	
Benzoic acid	UG/L	ND	150	NA		NA		NA	
Benzyl alcohol	UG/L	ND	20	NA		NA		NA	
Biphenyl	UG/L	ND	10	NA		NA		NA	
Bis(2-chloroethoxy) methane	UG/L	ND	10	NA		NA		NA	
Bis(2-chloroethyl) ether	UG/L	ND	10	NA		NA		NA	
2,2'-Oxybis(1-Chloropropane)	UG/L	ND	10	NA		NA		NA	
Bis(2-ethylhexyl) phthalate	UG/L	ND	10	NA		NA		NA	
4-Bromophenyl phenyl ether	UG/L	ND	10	NA		NA		NA	
Butyl benzyl phthalate	UG/L	ND	10	NA		NA		NA	
4-Chloroaniline	UG/L	ND	10	NA		NA		NA	
4-Chloro-3-methylphenol	UG/L	89	10	NA		NA		NA	
2-Chloronaphthalene	UG/L	ND	10	NA		NA		NA	
2-Chlorophenol	UG/L	68	10	NA		NA		NA	
4-Chlorophenyl phenyl ether	UG/L	ND	10	NA		NA		NA	
Caprolactam	UG/L	ND	10	NA		NA		NA	
Chrysene	UG/L	ND	10	NA		NA		NA	
Dibenzo(a,h)anthracene	UG/L	ND	10	NA		NA		NA	
Dibenzofuran	UG/L	ND	10	NA		NA		NA	
Di-n-butyl phthalate	UG/L	ND	10	NA		NA		NA	
1,2-Dichlorobenzene	UG/L	ND	10	NA		NA		NA	
1,3-Dichlorobenzene	UG/L	ND	10	NA		NA		NA	
1,4-Dichlorobenzene	UG/L	65	10	NA		NA		NA	
3,3'-Dichlorobenzidine	UG/L	ND	20	NA		NA		NA	
2,4-Dichlorophenol	UG/L	ND	10	NA		NA		NA	
Diethyl phthalate	UG/L	ND	10	NA		NA		NA	
2,4-Dimethylphenol	UG/L	ND	10	NA		NA		NA	
Dimethyl phthalate	UG/L	ND	10	NA		NA		NA	
4,6-Dinitro-2-methylphenol	UG/L	ND	50	NA		NA		NA	
2,4-Dinitrophenol	UG/L	ND	50	NA		NA		NA	
2,4-Dinitrotoluene	UG/L	87	10	NA		NA		NA	
2,6-Dinitrotoluene	UG/L	ND	10	NA		NA		NA	
Di-n-octyl phthalate	UG/L	ND	10	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Matrix Spike Blank							
Job No	Lab ID	A05-1765	A5B0263901						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Fluoranthene	UG/L	ND	10	NA		NA		NA	
Fluorene	UG/L	ND	10	NA		NA		NA	
Hexachlorobenzene	UG/L	ND	10	NA		NA		NA	
Hexachlorobutadiene	UG/L	ND	10	NA		NA		NA	
Hexachlorocyclopentadiene	UG/L	ND	45	NA		NA		NA	
Hexachloroethane	UG/L	ND	10	NA		NA		NA	
Indeno(1,2,3-cd)pyrene	UG/L	ND	10	NA		NA		NA	
Isophorone	UG/L	ND	10	NA		NA		NA	
2-Methylnaphthalene	UG/L	ND	10	NA		NA		NA	
2-Methylphenol	UG/L	ND	10	NA		NA		NA	
4-Methylphenol	UG/L	ND	10	NA		NA		NA	
Naphthalene	UG/L	ND	10	NA		NA		NA	
2-Nitroaniline	UG/L	ND	50	NA		NA		NA	
3-Nitroaniline	UG/L	ND	50	NA		NA		NA	
4-Nitroaniline	UG/L	ND	50	NA		NA		NA	
Nitrobenzene	UG/L	ND	10	NA		NA		NA	
2-Nitrophenol	UG/L	ND	10	NA		NA		NA	
4-Nitrophenol	UG/L	34 J	50	NA		NA		NA	
N-nitrosodiphenylamine	UG/L	ND	10	NA		NA		NA	
N-Nitroso-Di-n-propylamine	UG/L	90	10	NA		NA		NA	
Pentachlorophenol	UG/L	84	50	NA		NA		NA	
Phenanthrene	UG/L	ND	10	NA		NA		NA	
Phenol	UG/L	28	10	NA		NA		NA	
Pyrene	UG/L	97	10	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/L	69	10	NA		NA		NA	
2,4,5-Trichlorophenol	UG/L	ND	10	NA		NA		NA	
2,4,6-Trichlorophenol	UG/L	ND	10	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	101	50-200	NA		NA		NA	
Naphthalene-D8	%	105	50-200	NA		NA		NA	
Acenaphthene-D10	%	107	50-200	NA		NA		NA	
Phenanthrene-D10	%	108	50-200	NA		NA		NA	
Chrysene-D12	%	103	50-200	NA		NA		NA	
Perylene-D12	%	121	50-200	NA		NA		NA	
Nitrobenzene-D5	%	83	34-121	NA		NA		NA	
2-Fluorobiphenyl	%	82	42-126	NA		NA		NA	
p-Terphenyl-d14	%	97	36-145	NA		NA		NA	
Phenol-D5	%	28	10-110	NA		NA		NA	
2-Fluorophenol	%	39	14-120	NA		NA		NA	
2,4,6-Tribromophenol	%	105	42-158	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		Method Blank A05-1765 A5B0260302		Method Blank A05-1765 A5B0270103					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/L	ND	0.50	ND	0.50	NA		NA	
Aroclor 1221	UG/L	ND	0.50	ND	0.50	NA		NA	
Aroclor 1232	UG/L	ND	0.50	ND	0.50	NA		NA	
Aroclor 1242	UG/L	ND	0.50	ND	0.50	NA		NA	
Aroclor 1248	UG/L	ND	0.50	ND	0.50	NA		NA	
Aroclor 1254	UG/L	ND	0.50	ND	0.50	NA		NA	
Aroclor 1260	UG/L	ND	0.50	ND	0.50	NA		NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	76	36-132	76	36-132	NA		NA	
Decachlorobiphenyl	%	80	28-132	48	28-132	NA		NA	

NA = Not Applicable ND = Not Detected

Date: 05/06/2005
Time: 12:58:24

Environmental Strategies Corporation
Ithaca Site
ESC - METHOD 8082 - POLYCHLORINATED BIPHENYLS - W

Rept: AN0326

Client ID Job No Lab ID Sample Date		Matrix Spike Blank A05-1765 A5B0260301		Matrix Spike Blank A05-1765 A5B0270101		Matrix Spike Blk Dup A05-1765 A5B0270102			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/L	5.1	0.50	3.7	0.50	3.7	0.50	NA	
Aroclor 1221	UG/L	ND	0.50	ND	0.50	ND	0.50	NA	
Aroclor 1232	UG/L	ND	0.50	ND	0.50	ND	0.50	NA	
Aroclor 1242	UG/L	ND	0.50	ND	0.50	ND	0.50	NA	
Aroclor 1248	UG/L	ND	0.50	ND	0.50	ND	0.50	NA	
Aroclor 1254	UG/L	ND	0.50	ND	0.50	ND	0.50	NA	
Aroclor 1260	UG/L	5.0	0.50	4.6	0.50	4.8	0.50	NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	80	36-132	72	36-132	74	36-132	NA	
Decachlorobiphenyl	%	80	28-132	53	28-132	54	28-132	NA	

30/50

NA = Not Applicable ND = Not Detected

STL Buffalo

SDG: 1765

Client Sample ID: VBLK65 MSB65

Lab Sample ID: A5B0269902 A5B0269901

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
METHOD 8260 - TCL VOLATILE ORGANICS					
1,1-Dichloroethene	UG/L	11.2	10.0	112	65-138
Trichloroethene	UG/L	10.9	10.0	109	71-120
Benzene	UG/L	11.4	10.0	114	67-126
Toluene	UG/L	10.8	10.0	109	71-120
Chlorobenzene	UG/L	10.5	10.0	106	74-120

* Indicates Result is outside QC Limits

NC = Not Calculated ND = Not Detected

SDG: 1765
Client Sample ID: VBLK66 MSB66
Lab Sample ID: A5B0275602 A5B0275601

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
METHOD 8260 - TCL VOLATILE ORGANICS					
1,1-Dichloroethene	UG/L	12.3	10.0	123	65-138
Trichloroethene	UG/L	11.4	10.0	114	71-120
Benzene	UG/L	11.9	10.0	119	67-126
Toluene	UG/L	11.2	10.0	113	71-120
Chlorobenzene	UG/L	10.8	10.0	108	74-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SDG: 1765
Client Sample ID: SBLK Matrix Spike Blank
Lab Sample ID: A5B0263902 A5B0263901

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
ESC - 8270 - TCL SEMI-VOLATILE ORGANICS					
Phenol	UG/L	28.2	100	28	9-120
2-Chlorophenol	UG/L	68.3	100	68	33-120
1,4-Dichlorobenzene	UG/L	65.4	100	65	11-120
N-Nitroso-Di-n-propylamine	UG/L	90.4	100	90	36-124
1,2,4-Trichlorobenzene	UG/L	68.6	100	69	27-120
4-Chloro-3-methylphenol	UG/L	89.4	100	89	48-135
Acenaphthene	UG/L	81.5	100	82	46-121
4-Nitrophenol	UG/L	34.5	100	34	4-120
2,4-Dinitrotoluene	UG/L	87.3	100	87	49-135
Pentachlorophenol	UG/L	83.9	100	84	29-156
Pyrene	UG/L	96.9	100	97	53-142

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SDG: 1765
Client Sample ID: Method Blank Matrix Spike Blank
Lab Sample ID: A5B0260302 A5B0260301

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
ESC - METHOD 8082 - POLYCHLORINATED BIPH					
Aroclor 1260	UG/L	5.01	5.00	100	50-122
Aroclor 1016	UG/L	5.09	5.00	102	29-123

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SDG: 1765
Client Sample ID: Method Blank Matrix Spike Blank Matrix Spike Blk Dup
Lab Sample ID: A5B0270103 A5B0270101 A5B0270102

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			%	QC LIMITS	
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	Avg	RPD	RPD	REC.
ESC - METHOD 8082 - POLYCHLORINATED BIPH											
Aroclor 1260	UG/L	4.65	4.85	5.00	5.00	93	97	95	4	30.0	50-122
Aroclor 1016	UG/L	3.70	3.72	5.00	5.00	74	74	74	0	30.0	29-123

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	MW-18A A05-1765 A5176503	MW-19A A05-1765 A5176504	MW-23B A05-1765 A5176506	MW-24B A05-1765 A5176507	MW19A100 A05-1765 A5176505
Sample Date	02/25/2005 11:00	02/25/2005 12:20	02/25/2005 13:10	02/25/2005 13:30	02/25/2005 12:25
Received Date	02/26/2005 09:00	02/26/2005 09:00	02/26/2005 09:00	02/26/2005 09:00	02/26/2005 09:00
Extraction Date					
Analysis Date	03/02/2005 05:30	03/02/2005 04:58	03/02/2005 03:53	03/02/2005 03:21	03/02/2005 04:26
Extraction HT Met?	-	-	-	-	-
Analytical HT Met?	YES	YES	YES	YES	YES
Sample Matrix	WATER	WATER	WATER	WATER	WATER
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Sample wt/vol	0.025 LITERS	0.025 LITERS	0.025 LITERS	0.025 LITERS	0.025 LITERS
% Dry					

NA = Not Applicable

METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	SEEP 1 A05-1765 A5176501				
Sample Date	02/24/2005 15:14				
Received Date	02/26/2005 09:00				
Extraction Date					
Analysis Date	03/02/2005 06:02				
Extraction HT Met?	-				
Analytical HT Met?	YES				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	0.025 LITERS				
% Dry					

37/50

NA = Not Applicable

METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	TBLANK A05-1765 A5176508				
Sample Date	02/25/2005				
Received Date	02/26/2005 09:00				
Extraction Date					
Analysis Date	03/01/2005 13:16				
Extraction HT Met?	-				
Analytical HT Met?	YES				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	0.025 LITERS				
% Dry					

NA = Not Applicable

METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	MSB65 A05-1765 A5B0269901	MSB66 A05-1765 A5B0275601			
Sample Date					
Received Date					
Extraction Date					
Analysis Date	03/01/2005 11:28	03/01/2005 19:04			
Extraction HT Met?	-	-			
Analytical HT Met?	-	-			
Sample Matrix	WATER	WATER			
Dilution Factor	1.0	1.0			
Sample wt/vol	0.025 LITERS	0.025 LITERS			
% Dry					

NA = Not Applicable

METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	VBLK65 A05-1765 A5B0269902	VBLK66 A05-1765 A5B0275602			
Sample Date					
Received Date					
Extraction Date					
Analysis Date	03/01/2005 12:01	03/01/2005 19:36			
Extraction HT Met?	-	-			
Analytical HT Met?	-	-			
Sample Matrix	WATER	WATER			
Dilution Factor	1.0	1.0			
Sample wt/vol	0.025 LITERS	0.025 LITERS			
% Dry					

NA = Not Applicable

ESC - 8270 - TCL SEMI-VOLATILE ORGANICS - W

Client Sample ID Job No & Lab Sample ID	MW-18A A05-1765 A5176503	MW-19A A05-1765 A5176504	MW-23B A05-1765 A5176506	MW-24B A05-1765 A5176507	MW19A100 A05-1765 A5176505
Sample Date	02/25/2005 11:00	02/25/2005 12:20	02/25/2005 13:10	02/25/2005 13:30	02/25/2005 12:25
Received Date	02/26/2005 09:00	02/26/2005 09:00	02/26/2005 09:00	02/26/2005 09:00	02/26/2005 09:00
Extraction Date	03/01/2005 07:00	03/01/2005 07:00	03/01/2005 07:00	03/01/2005 07:00	03/01/2005 07:00
Analysis Date	03/03/2005 13:15	03/03/2005 13:41	03/03/2005 14:34	03/03/2005 15:00	03/03/2005 14:07
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	YES	YES	YES	YES	YES
Sample Matrix	WATER	WATER	WATER	WATER	WATER
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Sample wt/vol	1.02 LITERS	1.01 LITERS	1.05 LITERS	1.0 LITERS	1.06 LITERS
% Dry					

41/50

NA = Not Applicable

ESC - 8270 - TCL SEMI-VOLATILE ORGANICS - W

Client Sample ID Job No & Lab Sample ID	SEEP 1 A05-1765 A5176502				
Sample Date	02/24/2005 15:35				
Received Date	02/26/2005 09:00				
Extraction Date	03/01/2005 07:00				
Analysis Date	03/03/2005 00:55				
Extraction HT Met?	YES				
Analytical HT Met?	YES				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	1.03 LITERS				
% Dry					

NA = Not Applicable

ESC - 8270 - TCL SEMI-VOLATILE ORGANICS - W

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A05-1765 A5B0263901				
Sample Date					
Received Date					
Extraction Date	03/01/2005 07:00				
Analysis Date	03/02/2005 17:05				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	1.0 LITERS				
% Dry					

NA = Not Applicable

ESC - 8270 - TCL SEMI-VOLATILE ORGANICS - W

Client Sample ID Job No & Lab Sample ID	SBLK A05-1765 A5B0263902				
Sample Date					
Received Date					
Extraction Date	03/01/2005 07:00				
Analysis Date	03/02/2005 17:31				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	1.0 LITERS				
% Dry					

NA = Not Applicable

ESC - METHOD 8082 - POLYCHLORINATED BIPHENYLS - W

Client Sample ID Job No & Lab Sample ID	MW-18A A05-1765 A5176503	MW-19A A05-1765 A5176504RE	MW-23B A05-1765 A5176506	MW-24B A05-1765 A5176507	MW19A100 A05-1765 A5176505
Sample Date	02/25/2005 11:00	02/25/2005 12:20	02/25/2005 13:10	02/25/2005 13:30	02/25/2005 12:25
Received Date	02/26/2005 09:00	02/26/2005 09:00	02/26/2005 09:00	02/26/2005 09:00	02/26/2005 09:00
Extraction Date	02/28/2005 07:00	03/02/2005 07:00	02/28/2005 07:00	02/28/2005 07:00	02/28/2005 07:00
Analysis Date	03/02/2005 02:02	03/03/2005 16:32	03/02/2005 02:56	03/02/2005 03:14	03/02/2005 02:38
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	YES	YES	YES	YES	YES
Sample Matrix	WATER	WATER	WATER	WATER	WATER
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Sample wt/vol	1.01 LITERS	1.045 LITERS	1.04 LITERS	0.98 LITERS	1.01 LITERS
% Dry					

NA = Not Applicable

ESC - METHOD 8082 - POLYCHLORINATED BIPHENYLS - W

Client Sample ID Job No & Lab Sample ID	SEEP 1 A05-1765 A5176502				
Sample Date	02/24/2005 15:35				
Received Date	02/26/2005 09:00				
Extraction Date	02/28/2005 07:00				
Analysis Date	03/02/2005 01:44				
Extraction HT Met?	YES				
Analytical HT Met?	YES				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	1.045 LITERS				
% Dry					

NA = Not Applicable

ESC - METHOD 8082 - POLYCHLORINATED BIPHENYLS - W

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A05-1765 A5B0260301	Matrix Spike Blank A05-1765 A5B0270101	Matrix Spike Blk Dup A05-1765 A5B0270102		
Sample Date					
Received Date					
Extraction Date	02/28/2005 07:00	03/02/2005 07:00	03/02/2005 07:00		
Analysis Date	03/01/2005 21:15	03/03/2005 15:38	03/03/2005 15:56		
Extraction HT Met?	-	-	-		
Analytical HT Met?	-	-	-		
Sample Matrix	WATER	WATER	WATER		
Dilution Factor	1.0	1.0	1.0		
Sample wt/vol	1.0 LITERS	1.0 LITERS	1.0 LITERS		
% Dry					

NA = Not Applicable

ESC - METHOD 8082 - POLYCHLORINATED BIPHENYLS - W

Client Sample ID Job No & Lab Sample ID	Method Blank A05-1765 A5B0260302	Method Blank A05-1765 A5B0270103			
Sample Date					
Received Date					
Extraction Date	02/28/2005 07:00	03/02/2005 07:00			
Analysis Date	03/01/2005 21:33	03/03/2005 16:14			
Extraction HT Met?	-	-			
Analytical HT Met?	-	-			
Sample Matrix	WATER	WATER			
Dilution Factor	1.0	1.0			
Sample wt/vol	1.0 LITERS	1.0 LITERS			
% Dry					

NA = Not Applicable

Chain of Custody

CHAIN OF CUSTODY RECORD

Page 1 of 1

No. 029085

Project Number:	Site and Location:
127491	EPT-Ithaca, NY

Sampler's Name(s): Brian Nicklen, Kaye Powell

Sampler's Signature(s):

Matrices: S = Soil; Aq = Water; A = Air; Bu = Bulk; W = Wipe; Bi = Biota; OW = Oily Waste; O = Other

Requested Analyses: 8260B - VOCs; 8082 - PCBs; 8270 - SVOCs

Sample Identification:	Date	Time	Matrix	Number of Containers	8260B - VOCs	8082 - PCBs	8270 - SVOCs	Remarks
SEEP 1	2/24/05	1514	Aq	2	X			
SEEP 1	2/24/05	1535	Aq	4		X	X	
MW-18A	2/25/05	1100	Aq	2	X			
MW-18A	2/25/05	1100	Aq	4		X	X	
MW-19A	2/25/05	1220	Aq	2	X			
MW-19A	2/25/05	1220	Aq	4		X	X	
MW-19A-100	2/25/05	1225	Aq	2	X			
MW-19A-100	2/25/05	1225	Aq	4		X	X	
MW-23B	2/25/05	1310	Aq	2	X			
MW-23B	2/25/05	1310	Aq	4		X	X	
MW-24B	2/25/05	1330	Aq	2	X			
MW-24B	2/25/05	1330	Aq	4		X	X	

Relinquished by (Signature):	Date: 2/25/05 Time: 1530	Received by (Signature): 0226 0900	Laboratory Name: STL-Buffalo
Relinquished by (Signature):	Date: Time:	Received by (Signature):	Laboratory Location:
Turn-Around Time: 2 Weeks		Tracking Number:	Custody Seal Numbers: STL 133745, 133746, 133747
			Method of Shipment: UPS

3@20°C

ENVIRONMENTAL STRATEGIES CORPORATION
MANAGING THE BUSINESS OF THE ENVIRONMENT

☒ Reston Office: 11911 Freedom Dr, # 900, Reston, VA 20190
Tel: (703) 709-6500, Fax: (703) 709-8505 John Johnson
☐ Pittsburgh Office: 300 Corporate Center Dr, # 200, Moon Twp, PA 15108
Tel: (412) 604-1040, Fax: (412) 604-1055
☐ Denver Office: 4600 South Ulster, # 930, Denver, CO 80237
Tel: (303) 850-9200, Fax: (303) 850-9214
☐ Minneapolis Office: 123 North 3rd St, #706, Minneapolis, MN 55401
Tel: (612) 343-0510, Fax: (612) 343-0506

50/50

ANALYTICAL REPORT

Job#: A05-3377

STL Project#: NY4A9171
Site Name: Environmental Strategies Corporation
Task: Ithaca Site

Mr. Brian Silfer
Environmental Strategies Corp.
9 Albany Street
Cazenovia, NY 13035

STL Buffalo

Candace L. Fox
Project Manager

05/06/2005

STL Buffalo
Current Certifications

STATE	Program	Cert # / Lab ID
Arkansas	SDWA, CWA, RCRA, SOIL	03-054-D/88-0686
California	NELAP SDWA, CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida	NELAP RCRA	E87672
Georgia	SDWA	956
Illinois	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	CWA, RCRA	036-999-337
New Hampshire	NELAP SDWA, CWA	233701
New Jersey	SDWA, CWA, RCRA, CLP	NY455
New York	NELAP, AIR, SDWA, CWA, RCRA	10026
North Carolina	CWA	411
North Dakota	SDWA, CWA, RCRA	R-176
Oklahoma	CWA, RCRA	9421
Pennsylvania	Env. Lab Reg.	68-281
South Carolina	RCRA	91013
USDA	FOREIGN SOIL PERMIT	S-41579
Virginia	SDWA	278
Washington	CWA	C254
West Virginia	CWA	252
Wisconsin	CWA	998310390

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A5337705	MW-17-40	WATER	04/07/2005	15:40	04/09/2005	10:15
A5337706	MW-17-40 (1000)	WATER	04/07/2005	16:00	04/09/2005	10:15
A5337713	MW-18A	WATER	04/08/2005	12:40	04/09/2005	10:15
A5337711	MW-19A	WATER	04/08/2005	10:55	04/09/2005	10:15
A5337701	MW-20B	WATER	04/07/2005	17:50	04/09/2005	10:15
A5337704	MW-21B	WATER	04/07/2005	19:20	04/09/2005	10:15
A5337703	MW-22B	WATER	04/07/2005	18:55	04/09/2005	10:15
A5337714	MW-23B	WATER	04/08/2005	16:00	04/09/2005	10:15
A5337712	MW-24B	WATER	04/08/2005	11:40	04/09/2005	10:15
A5337709	MW-25A	WATER	04/08/2005	09:20	04/09/2005	10:15
A5337710	MW-26A	WATER	04/08/2005	10:00	04/09/2005	10:15
A5337707	MW-5-40	WATER	04/07/2005	11:30	04/09/2005	10:15
A5337702	MW-9-100	WATER	04/07/2005	18:15	04/09/2005	10:15
A5337708	MW-9-40 4-8	WATER	04/08/2005	08:15	04/09/2005	10:15
A5337715	TRIP BLANK	WATER	04/08/2005		04/09/2005	10:15

METHODS SUMMARY

Job#: A05-3377

STL Project#: NY4A9171
Site Name: Environmental Strategies Corporation

PARAMETER	ANALYTICAL METHOD
METHOD 8260 - TCL VOLATILE ORGANICS	SW8463 8260
ESC - 8270 - TCL SEMI-VOLATILE ORGANICS - W	SW8463 8270
ESC - METHOD 8082 - POLYCHLORINATED BIPHENYLS - W	SW8463 8082

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

NON-CONFORMANCE SUMMARY

Job#: A05-3377

STL Project#: NY4A9171
Site Name: Environmental Strategies Corporation

General Comments

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A05-3377
Sample Cooler(s) were received at the following temperature(s); 5@2.0 °C
All samples were received in good condition.

GC/MS Volatile Data

No deviations from protocol were encountered during the analytical procedures.

GC/MS Semivolatile Data

The analyte Bis(2-ethylhexyl) phthalate was detected in the Method Blank A5B0508802 at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

GC Extractable Data

No deviations from protocol were encountered during the analytical procedures.

****

Client Sample ID	Lab Sample ID	Parameter (Inorganic)/Method (Organic)	Dilution	Code
MW-5-40	A5337707	8260	20.00	008
MW-5-40	A5337707DL	8260	1000.00	008

Dilution Code Definition:

002 - sample matrix effects
003 - excessive foaming
004 - high levels of non-target compounds
005 - sample matrix resulted in method non-compliance for an Internal Standard
006 - sample matrix resulted in method non-compliance for Surrogate
007 - nature of the TCLP matrix
008 - high concentration of target analyte(s)
009 - sample turbidity
010 - sample color
011 - insufficient volume for lower dilution
012 - sample viscosity
013 - other

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected at or above the reporting limit.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
[1]	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected at or above the reporting limit.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
K	Indicates the post digestion spike recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
M	Indicates duplicate injection results exceeded quality control limits.
W	Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
*	Indicates analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Sample Data Package

Date: 05/06/2005
Time: 13:00:01

Environmental Strategies Corporation
Ithaca Site
METHOD 8260 - TCL VOLATILE ORGANICS

Rept: AN0326

Client ID		MW-17-40		MW-17-40 (1000)		MW-18A		MW-19A	
Job No	Lab ID	A05-3377	A5337705	A05-3377	A5337706	A05-3377	A5337713	A05-3377	A5337711
Sample Date		04/07/2005		04/07/2005		04/08/2005		04/08/2005	

Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Benzene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromodichloromethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromoform	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromomethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Butanone	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Carbon Disulfide	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Carbon Tetrachloride	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroform	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloromethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Cyclohexane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromoethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Dibromochloromethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromo-3-chloropropane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,3-Dichlorobenzene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Dichlorodifluoromethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
cis-1,2-Dichloroethene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
trans-1,2-Dichloroethene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloropropane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
cis-1,3-Dichloropropene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
trans-1,3-Dichloropropene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Hexanone	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Isopropylbenzene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methyl acetate	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methylcyclohexane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methylene chloride	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
4-Methyl-2-pentanone	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Methyl-t-Butyl Ether (MTBE)	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Styrene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Toluene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,1-Trichloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0

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NA = Not Applicable ND = Not Detected

STL Buffalo

Client ID		MW-24B		MW-25A		MW-26A		MW-5-40	
Job No	Lab ID	A05-3377	A5337712	A05-3377	A5337709	A05-3377	A5337710	A05-3377	A5337707
Sample Date		04/08/2005		04/08/2005		04/08/2005		04/07/2005	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	20
Trichlorofluoromethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	20
Trichloroethene	UG/L	ND	1.0	ND	1.0	ND	1.0	14000 E	20
Vinyl chloride	UG/L	ND	1.0	ND	1.0	ND	1.0	350	20
Total Xylenes	UG/L	ND	3.0	ND	3.0	ND	3.0	ND	60
==========IS/SURROGATE(S)==========									
Chlorobenzene-D5	%	98	50-200	92	50-200	92	50-200	98	50-200
1,4-Difluorobenzene	%	100	50-200	97	50-200	96	50-200	108	50-200
1,4-Dichlorobenzene-D4	%	93	50-200	89	50-200	85	50-200	92	50-200
Toluene-D8	%	100	76-116	98	76-116	99	76-116	102	76-116
p-Bromofluorobenzene	%	100	73-117	101	73-117	97	73-117	100	73-117
1,2-Dichloroethane-D4	%	100	72-143	100	72-143	98	72-143	89	72-143

NA = Not Applicable ND = Not Detected

Client ID		MW-5-40		MW-9-100					
Job No / Lab ID		A05-3377	A5337707DL	A05-3377	A5337702				
Sample Date		04/07/2005		04/07/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	5000	ND	5.0	NA		NA	
Benzene	UG/L	ND	1000	1.8	1.0	NA		NA	
Bromodichloromethane	UG/L	ND	1000	ND	1.0	NA		NA	
Bromoform	UG/L	ND	1000	ND	1.0	NA		NA	
Bromomethane	UG/L	ND	1000	ND	1.0	NA		NA	
2-Butanone	UG/L	ND	5000	ND	5.0	NA		NA	
Carbon Disulfide	UG/L	ND	1000	ND	1.0	NA		NA	
Carbon Tetrachloride	UG/L	ND	1000	ND	1.0	NA		NA	
Chlorobenzene	UG/L	ND	1000	ND	1.0	NA		NA	
Chloroethane	UG/L	ND	1000	ND	1.0	NA		NA	
Chloroform	UG/L	ND	1000	ND	1.0	NA		NA	
Chloromethane	UG/L	ND	1000	ND	1.0	NA		NA	
Cyclohexane	UG/L	ND	1000	ND	1.0	NA		NA	
1,2-Dibromoethane	UG/L	ND	1000	ND	1.0	NA		NA	
Dibromochloromethane	UG/L	ND	1000	ND	1.0	NA		NA	
1,2-Dibromo-3-chloropropane	UG/L	ND	1000	ND	1.0	NA		NA	
1,2-Dichlorobenzene	UG/L	ND	1000	ND	1.0	NA		NA	
1,3-Dichlorobenzene	UG/L	ND	1000	ND	1.0	NA		NA	
1,4-Dichlorobenzene	UG/L	ND	1000	ND	1.0	NA		NA	
Dichlorodifluoromethane	UG/L	ND	1000	ND	1.0	NA		NA	
1,1-Dichloroethane	UG/L	ND	1000	ND	1.0	NA		NA	
1,2-Dichloroethane	UG/L	ND	1000	ND	1.0	NA		NA	
1,1-Dichloroethene	UG/L	ND	1000	ND	1.0	NA		NA	
cis-1,2-Dichloroethene	UG/L	27000 D	1000	ND	1.0	NA		NA	
trans-1,2-Dichloroethene	UG/L	ND	1000	ND	1.0	NA		NA	
1,2-Dichloropropane	UG/L	ND	1000	ND	1.0	NA		NA	
cis-1,3-Dichloropropene	UG/L	ND	1000	ND	1.0	NA		NA	
trans-1,3-Dichloropropene	UG/L	ND	1000	ND	1.0	NA		NA	
Ethylbenzene	UG/L	ND	1000	ND	1.0	NA		NA	
2-Hexanone	UG/L	ND	5000	ND	5.0	NA		NA	
Isopropylbenzene	UG/L	ND	1000	ND	1.0	NA		NA	
Methyl acetate	UG/L	ND	1000	ND	1.0	NA		NA	
Methylcyclohexane	UG/L	ND	1000	ND	1.0	NA		NA	
Methylene chloride	UG/L	ND	1000	ND	1.0	NA		NA	
4-Methyl-2-pentanone	UG/L	ND	5000	ND	5.0	NA		NA	
Methyl-t-Butyl Ether (MTBE)	UG/L	ND	1000	ND	1.0	NA		NA	
Styrene	UG/L	ND	1000	ND	1.0	NA		NA	
1,1,2,2-Tetrachloroethane	UG/L	ND	1000	ND	1.0	NA		NA	
Tetrachloroethene	UG/L	ND	1000	ND	1.0	NA		NA	
Toluene	UG/L	ND	1000	1.5	1.0	NA		NA	
1,2,4-Trichlorobenzene	UG/L	ND	1000	ND	1.0	NA		NA	
1,1,1-Trichloroethane	UG/L	ND	1000	ND	1.0	NA		NA	
1,1,2-Trichloroethane	UG/L	ND	1000	ND	1.0	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		MW-5-40		MW-9-100					
Job No	Lab ID	A05-3377	A5337707DL	A05-3377	A5337702				
Sample Date		04/07/2005		04/07/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	1000	ND	1.0	NA		NA	
Trichlorofluoromethane	UG/L	ND	1000	ND	1.0	NA		NA	
Trichloroethene	UG/L	31000 D	1000	ND	1.0	NA		NA	
Vinyl chloride	UG/L	ND	1000	ND	1.0	NA		NA	
Total Xylenes	UG/L	ND	3000	ND	3.0	NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	89	50-200	88	50-200	NA		NA	
1,4-Difluorobenzene	%	92	50-200	96	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	80	50-200	79	50-200	NA		NA	
Toluene-D8	%	101	76-116	102	76-116	NA		NA	
p-Bromofluorobenzene	%	96	73-117	94	73-117	NA		NA	
1,2-Dichloroethane-D4	%	100	72-143	91	72-143	NA		NA	

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NA = Not Applicable ND = Not Detected

Client ID		MW-17-40		MW-17-40 (1000)		MW-18A		MW-19A	
Job No / Lab ID		A05-3377	A5337705	A05-3377	A5337706	A05-3377	A5337713	A05-3377	A5337711
Sample Date		04/07/2005		04/07/2005		04/08/2005		04/08/2005	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/L	ND	10	ND	10	ND	10	ND	10
Acenaphthylene	UG/L	ND	10	ND	10	ND	10	ND	10
Acetophenone	UG/L	ND	10	ND	10	ND	10	ND	10
Anthracene	UG/L	ND	10	ND	10	ND	10	ND	10
Atrazine	UG/L	ND	10	ND	10	ND	10	ND	10
Benzaldehyde	UG/L	ND	52	ND	50	ND	48	ND	48
Benzo(a)anthracene	UG/L	ND	10	ND	10	ND	10	ND	10
Benzo(b)fluoranthene	UG/L	ND	10	ND	10	ND	10	ND	10
Benzo(k)fluoranthene	UG/L	ND	10	ND	10	ND	10	ND	10
Benzo(ghi)perylene	UG/L	ND	10	ND	10	ND	10	ND	10
Benzo(a)pyrene	UG/L	ND	10	ND	10	ND	10	ND	10
Benzoic acid	UG/L	ND	150	ND	150	ND	140	ND	140
Benzyl alcohol	UG/L	ND	21	ND	20	ND	19	ND	19
Biphenyl	UG/L	ND	10	ND	10	ND	10	ND	10
Bis(2-chloroethoxy) methane	UG/L	ND	10	ND	10	ND	10	ND	10
Bis(2-chloroethyl) ether	UG/L	ND	10	ND	10	ND	10	ND	10
2,2'-Oxybis(1-Chloropropane)	UG/L	ND	10	ND	10	ND	10	ND	10
Bis(2-ethylhexyl) phthalate	UG/L	ND	10	ND	10	ND	10	ND	10
4-Bromophenyl phenyl ether	UG/L	ND	10	ND	10	ND	10	ND	10
Butyl benzyl phthalate	UG/L	ND	10	ND	10	ND	10	ND	10
4-Chloroaniline	UG/L	ND	10	ND	10	ND	10	ND	10
4-Chloro-3-methylphenol	UG/L	ND	10	ND	10	ND	10	ND	10
2-Chloronaphthalene	UG/L	ND	10	ND	10	ND	10	ND	10
2-Chlorophenol	UG/L	ND	10	ND	10	ND	10	ND	10
4-Chlorophenyl phenyl ether	UG/L	ND	10	ND	10	ND	10	ND	10
Caprolactam	UG/L	ND	10	ND	10	ND	10	ND	10
Chrysene	UG/L	ND	10	ND	10	ND	10	ND	10
Dibenzo(a,h)anthracene	UG/L	ND	10	ND	10	ND	10	ND	10
Dibenzofuran	UG/L	ND	10	ND	10	ND	10	ND	10
Di-n-butyl phthalate	UG/L	ND	10	ND	10	ND	10	ND	10
1,2-Dichlorobenzene	UG/L	ND	10	ND	10	ND	10	ND	10
1,3-Dichlorobenzene	UG/L	ND	10	ND	10	ND	10	ND	10
1,4-Dichlorobenzene	UG/L	ND	10	ND	10	ND	10	ND	10
3,3'-Dichlorobenzidine	UG/L	ND	21	ND	20	ND	19	ND	19
2,4-Dichlorophenol	UG/L	ND	10	ND	10	ND	10	ND	10
Diethyl phthalate	UG/L	ND	10	ND	10	ND	10	ND	10
2,4-Dimethylphenol	UG/L	ND	10	ND	10	ND	10	ND	10
Dimethyl phthalate	UG/L	ND	10	ND	10	ND	10	ND	10
4,6-Dinitro-2-methylphenol	UG/L	ND	52	ND	50	ND	48	ND	48
2,4-Dinitrophenol	UG/L	ND	52	ND	50	ND	48	ND	48
2,4-Dinitrotoluene	UG/L	ND	10	ND	10	ND	10	ND	10
2,6-Dinitrotoluene	UG/L	ND	10	ND	10	ND	10	ND	10
Di-n-octyl phthalate	UG/L	ND	10	ND	10	ND	10	ND	10

NA = Not Applicable ND = Not Detected

Client ID		MW-17-40		MW-17-40 (1000)		MW-18A		MW-19A	
Job No / Lab ID		A05-3377 / A5337705		A05-3377 / A5337706		A05-3377 / A5337713		A05-3377 / A5337711	
Sample Date		04/07/2005		04/07/2005		04/08/2005		04/08/2005	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Fluoranthene	UG/L	ND	10	ND	10	ND	10	ND	10
Fluorene	UG/L	ND	10	ND	10	ND	10	ND	10
Hexachlorobenzene	UG/L	ND	10	ND	10	ND	10	ND	10
Hexachlorobutadiene	UG/L	ND	10	ND	10	ND	10	ND	10
Hexachlorocyclopentadiene	UG/L	ND	46	ND	45	ND	43	ND	43
Hexachloroethane	UG/L	ND	10	ND	10	ND	10	ND	10
Indeno(1,2,3-cd)pyrene	UG/L	ND	10	ND	10	ND	10	ND	10
Isophorone	UG/L	ND	10	ND	10	ND	10	ND	10
2-Methylnaphthalene	UG/L	ND	10	ND	10	ND	10	ND	10
2-Methylphenol	UG/L	ND	10	ND	10	ND	10	ND	10
4-Methylphenol	UG/L	ND	10	ND	10	57	10	ND	10
Naphthalene	UG/L	ND	10	ND	10	ND	10	ND	10
2-Nitroaniline	UG/L	ND	52	ND	50	ND	48	ND	48
3-Nitroaniline	UG/L	ND	52	ND	50	ND	48	ND	48
4-Nitroaniline	UG/L	ND	52	ND	50	ND	48	ND	48
Nitrobenzene	UG/L	ND	10	ND	10	ND	10	ND	10
2-Nitrophenol	UG/L	ND	10	ND	10	ND	10	ND	10
4-Nitrophenol	UG/L	ND	52	ND	50	ND	48	ND	48
N-nitrosodiphenylamine	UG/L	ND	10	ND	10	ND	10	ND	10
N-Nitroso-Di-n-propylamine	UG/L	ND	10	ND	10	ND	10	ND	10
Pentachlorophenol	UG/L	ND	52	ND	50	ND	48	ND	48
Phenanthrene	UG/L	ND	10	ND	10	ND	10	ND	10
Phenol	UG/L	ND	10	ND	10	ND	10	ND	10
Pyrene	UG/L	ND	10	ND	10	ND	10	ND	10
1,2,4-Trichlorobenzene	UG/L	ND	10	ND	10	ND	10	ND	10
2,4,5-Trichlorophenol	UG/L	ND	10	ND	10	ND	10	ND	10
2,4,6-Trichlorophenol	UG/L	ND	10	ND	10	ND	10	ND	10
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	77	50-200	76	50-200	76	50-200	74	50-200
Naphthalene-D8	%	80	50-200	78	50-200	80	50-200	76	50-200
Acenaphthene-D10	%	79	50-200	77	50-200	78	50-200	76	50-200
Phenanthrene-D10	%	79	50-200	78	50-200	79	50-200	77	50-200
Chrysene-D12	%	85	50-200	77	50-200	85	50-200	80	50-200
Perylene-D12	%	83	50-200	81	50-200	83	50-200	80	50-200
Nitrobenzene-D5	%	79	52-120	76	52-120	84	52-120	87	52-120
2-Fluorobiphenyl	%	85	21-120	80	21-120	92	21-120	91	21-120
p-Terphenyl-d14	%	78	36-138	79	36-138	79	36-138	81	36-138
Phenol-D5	%	35	13-120	31	13-120	37	13-120	32	13-120
2-Fluorophenol	%	46	21-120	42	21-120	50	21-120	45	21-120
2,4,6-Tribromophenol	%	99	62-133	94	62-133	106	62-133	105	62-133

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NA = Not Applicable ND = Not Detected

Client ID		MW-20B		MW-21B		MW-22B		MW-23B	
Job No	Lab ID	A05-3377	A5337701	A05-3377	A5337704	A05-3377	A5337703	A05-3377	A5337714
Sample Date		04/07/2005		04/07/2005		04/07/2005		04/08/2005	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/L	ND	10	ND	12	ND	12	ND	14
Acenaphthylene	UG/L	ND	10	ND	12	ND	12	ND	14
Acetophenone	UG/L	ND	10	ND	12	ND	12	ND	14
Anthracene	UG/L	ND	10	ND	12	ND	12	ND	14
Atrazine	UG/L	ND	10	ND	12	ND	12	ND	14
Benzaldehyde	UG/L	ND	52	ND	58	ND	59	ND	69
Benzo(a)anthracene	UG/L	ND	10	ND	12	ND	12	ND	14
Benzo(b)fluoranthene	UG/L	ND	10	ND	12	ND	12	ND	14
Benzo(k)fluoranthene	UG/L	ND	10	ND	12	ND	12	ND	14
Benzo(ghi)perylene	UG/L	ND	10	ND	12	ND	12	ND	14
Benzo(a)pyrene	UG/L	ND	10	ND	12	ND	12	ND	14
Benzoic acid	UG/L	ND	160	ND	170	ND	180	ND	210
Benzyl alcohol	UG/L	ND	21	ND	23	ND	24	ND	28
Biphenyl	UG/L	ND	10	ND	12	ND	12	ND	14
Bis(2-chloroethoxy) methane	UG/L	ND	10	ND	12	ND	12	ND	14
Bis(2-chloroethyl) ether	UG/L	ND	10	ND	12	ND	12	ND	14
2,2'-Oxybis(1-Chloropropane)	UG/L	ND	10	ND	12	ND	12	ND	14
Bis(2-ethylhexyl) phthalate	UG/L	ND	10	ND	12	ND	12	ND	14
4-Bromophenyl phenyl ether	UG/L	ND	10	ND	12	ND	12	ND	14
Butyl benzyl phthalate	UG/L	ND	10	ND	12	ND	12	ND	14
4-Chloroaniline	UG/L	ND	10	ND	12	ND	12	ND	14
4-Chloro-3-methylphenol	UG/L	ND	10	ND	12	ND	12	ND	14
2-Chloronaphthalene	UG/L	ND	10	ND	12	ND	12	ND	14
2-Chlorophenol	UG/L	ND	10	ND	12	ND	12	ND	14
4-Chlorophenyl phenyl ether	UG/L	ND	10	ND	12	ND	12	ND	14
Caprolactam	UG/L	ND	10	ND	12	ND	12	ND	14
Chrysene	UG/L	ND	10	ND	12	ND	12	ND	14
Dibenzo(a,h)anthracene	UG/L	ND	10	ND	12	ND	12	ND	14
Dibenzofuran	UG/L	ND	10	ND	12	ND	12	ND	14
Di-n-butyl phthalate	UG/L	ND	10	ND	12	ND	12	ND	14
1,2-Dichlorobenzene	UG/L	ND	10	ND	12	ND	12	ND	14
1,3-Dichlorobenzene	UG/L	ND	10	ND	12	ND	12	ND	14
1,4-Dichlorobenzene	UG/L	ND	10	ND	12	ND	12	ND	14
3,3'-Dichlorobenzidine	UG/L	ND	21	ND	23	ND	24	ND	28
2,4-Dichlorophenol	UG/L	ND	10	ND	12	ND	12	ND	14
Diethyl phthalate	UG/L	ND	10	ND	12	ND	12	ND	14
2,4-Dimethylphenol	UG/L	ND	10	ND	12	ND	12	ND	14
Dimethyl phthalate	UG/L	ND	10	ND	12	ND	12	ND	14
4,6-Dinitro-2-methylphenol	UG/L	ND	52	ND	58	ND	59	ND	69
2,4-Dinitrophenol	UG/L	ND	52	ND	58	ND	59	ND	69
2,4-Dinitrotoluene	UG/L	ND	10	ND	12	ND	12	ND	14
2,6-Dinitrotoluene	UG/L	ND	10	ND	12	ND	12	ND	14
Di-n-octyl phthalate	UG/L	ND	10	ND	12	ND	12	ND	14

NA = Not Applicable ND = Not Detected

Client ID		MW-20B		MW-21B		MW-22B		MW-23B	
Job No	Lab ID	A05-3377	A5337701	A05-3377	A5337704	A05-3377	A5337703	A05-3377	A5337714
Sample Date		04/07/2005		04/07/2005		04/07/2005		04/08/2005	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Fluoranthene	UG/L	ND	10	ND	12	ND	12	ND	14
Fluorene	UG/L	ND	10	ND	12	ND	12	ND	14
Hexachlorobenzene	UG/L	ND	10	ND	12	ND	12	ND	14
Hexachlorobutadiene	UG/L	ND	10	ND	12	ND	12	ND	14
Hexachlorocyclopentadiene	UG/L	ND	47	ND	52	ND	53	ND	62
Hexachloroethane	UG/L	ND	10	ND	12	ND	12	ND	14
Indeno(1,2,3-cd)pyrene	UG/L	ND	10	ND	12	ND	12	ND	14
Isophorone	UG/L	ND	10	ND	12	ND	12	ND	14
2-Methylnaphthalene	UG/L	ND	10	ND	12	ND	12	ND	14
2-Methylphenol	UG/L	ND	10	ND	12	ND	12	ND	14
4-Methylphenol	UG/L	ND	10	ND	12	ND	12	ND	14
Naphthalene	UG/L	ND	10	ND	12	ND	12	ND	14
2-Nitroaniline	UG/L	ND	52	ND	58	ND	59	ND	69
3-Nitroaniline	UG/L	ND	52	ND	58	ND	59	ND	69
4-Nitroaniline	UG/L	ND	52	ND	58	ND	59	ND	69
Nitrobenzene	UG/L	ND	10	ND	12	ND	12	ND	14
2-Nitrophenol	UG/L	ND	10	ND	12	ND	12	ND	14
4-Nitrophenol	UG/L	ND	52	ND	58	ND	59	ND	69
N-nitrosodiphenylamine	UG/L	ND	10	ND	12	ND	12	ND	14
N-Nitroso-Di-n-propylamine	UG/L	ND	10	ND	12	ND	12	ND	14
Pentachlorophenol	UG/L	ND	52	ND	58	ND	59	ND	69
Phenanthrene	UG/L	ND	10	ND	12	ND	12	ND	14
Phenol	UG/L	ND	10	ND	12	ND	12	ND	14
Pyrene	UG/L	ND	10	ND	12	ND	12	ND	14
1,2,4-Trichlorobenzene	UG/L	ND	10	ND	12	ND	12	ND	14
2,4,5-Trichlorophenol	UG/L	ND	10	ND	12	ND	12	ND	14
2,4,6-Trichlorophenol	UG/L	ND	10	ND	12	ND	12	ND	14
======IS/SURROGATE(S)=									
1,4-Dichlorobenzene-D4	%	78	50-200	76	50-200	76	50-200	79	50-200
Naphthalene-D8	%	82	50-200	79	50-200	79	50-200	80	50-200
Acenaphthene-D10	%	79	50-200	78	50-200	78	50-200	79	50-200
Phenanthrene-D10	%	80	50-200	79	50-200	79	50-200	79	50-200
Chrysene-D12	%	86	50-200	84	50-200	84	50-200	84	50-200
Perylene-D12	%	82	50-200	81	50-200	81	50-200	83	50-200
Nitrobenzene-D5	%	83	52-120	83	52-120	83	52-120	90	52-120
2-Fluorobiphenyl	%	92	21-120	86	21-120	86	21-120	94	21-120
p-Terphenyl-d14	%	76	36-138	69	36-138	69	36-138	51	36-138
Phenol-D5	%	34	13-120	40	13-120	40	13-120	45	13-120
2-Fluorophenol	%	46	21-120	51	21-120	51	21-120	57	21-120
2,4,6-Tribromophenol	%	103	62-133	102	62-133	102	62-133	104	62-133

NA = Not Applicable ND = Not Detected

Client ID		MW-24B		MW-25A		MW-26A		MW-5-40	
Job No / Lab ID		A05-3377	A5337712	A05-3377	A5337709	A05-3377	A5337710	A05-3377	A5337707
Sample Date		04/08/2005		04/08/2005		04/08/2005		04/07/2005	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/L	ND	10	ND	10	ND	10	ND	10
Acenaphthylene	UG/L	ND	10	ND	10	ND	10	ND	10
Acetophenone	UG/L	ND	10	ND	10	ND	10	ND	10
Anthracene	UG/L	ND	10	ND	10	ND	10	ND	10
Atrazine	UG/L	ND	10	ND	10	ND	10	ND	10
Benzaldehyde	UG/L	ND	48	ND	48	ND	48	ND	48
Benzo(a)anthracene	UG/L	ND	10	ND	10	ND	10	ND	10
Benzo(b)fluoranthene	UG/L	ND	10	ND	10	ND	10	ND	10
Benzo(k)fluoranthene	UG/L	ND	10	ND	10	ND	10	ND	10
Benzo(ghi)perylene	UG/L	ND	10	ND	10	ND	10	ND	10
Benzo(a)pyrene	UG/L	ND	10	ND	10	ND	10	ND	10
Benzoic acid	UG/L	ND	140	ND	140	ND	140	ND	140
Benzyl alcohol	UG/L	ND	19	ND	19	ND	19	ND	19
Biphenyl	UG/L	ND	10	ND	10	ND	10	ND	10
Bis(2-chloroethoxy) methane	UG/L	ND	10	ND	10	ND	10	ND	10
Bis(2-chloroethyl) ether	UG/L	ND	10	ND	10	ND	10	ND	10
2,2'-Oxybis(1-Chloropropane)	UG/L	ND	10	ND	10	ND	10	ND	10
Bis(2-ethylhexyl) phthalate	UG/L	ND	10	ND	10	ND	10	ND	10
4-Bromophenyl phenyl ether	UG/L	ND	10	ND	10	ND	10	ND	10
Butyl benzyl phthalate	UG/L	ND	10	ND	10	ND	10	ND	10
4-Chloroaniline	UG/L	ND	10	ND	10	ND	10	ND	10
4-Chloro-3-methylphenol	UG/L	ND	10	ND	10	ND	10	ND	10
2-Chloronaphthalene	UG/L	ND	10	ND	10	ND	10	ND	10
2-Chlorophenol	UG/L	ND	10	ND	10	ND	10	ND	10
4-Chlorophenyl phenyl ether	UG/L	ND	10	ND	10	ND	10	ND	10
Caprolactam	UG/L	ND	10	ND	10	ND	10	ND	10
Chrysene	UG/L	ND	10	ND	10	ND	10	ND	10
Dibenzo(a,h)anthracene	UG/L	ND	10	ND	10	ND	10	ND	10
Dibenzofuran	UG/L	ND	10	ND	10	ND	10	ND	10
Di-n-butyl phthalate	UG/L	ND	10	ND	10	ND	10	ND	10
1,2-Dichlorobenzene	UG/L	ND	10	ND	10	ND	10	ND	10
1,3-Dichlorobenzene	UG/L	ND	10	ND	10	ND	10	ND	10
1,4-Dichlorobenzene	UG/L	ND	10	ND	10	ND	10	ND	10
3,3'-Dichlorobenzidine	UG/L	ND	19	ND	19	ND	19	ND	19
2,4-Dichlorophenol	UG/L	ND	10	ND	10	ND	10	ND	10
Diethyl phthalate	UG/L	ND	10	ND	10	ND	10	ND	10
2,4-Dimethylphenol	UG/L	ND	10	ND	10	ND	10	ND	10
Dimethyl phthalate	UG/L	ND	10	ND	10	ND	10	ND	10
4,6-Dinitro-2-methylphenol	UG/L	ND	48	ND	48	ND	48	ND	48
2,4-Dinitrophenol	UG/L	ND	48	ND	48	ND	48	ND	48
2,4-Dinitrotoluene	UG/L	ND	10	ND	10	ND	10	ND	10
2,6-Dinitrotoluene	UG/L	ND	10	ND	10	ND	10	ND	10
Di-n-octyl phthalate	UG/L	ND	10	ND	10	ND	10	ND	10

NA = Not Applicable ND = Not Detected

Client ID	MW-24B		MW-25A		MW-26A		MW-5-40	
Job No / Lab ID	A05-3377	A5337712	A05-3377	A5337709	A05-3377	A5337710	A05-3377	A5337707
Sample Date	04/08/2005		04/08/2005		04/08/2005		04/07/2005	

Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Fluoranthene	UG/L	ND	10	ND	10	ND	10	ND	10
Fluorene	UG/L	ND	10	ND	10	ND	10	ND	10
Hexachlorobenzene	UG/L	ND	10	ND	10	ND	10	ND	10
Hexachlorobutadiene	UG/L	ND	10	ND	10	ND	10	ND	10
Hexachlorocyclopentadiene	UG/L	ND	43	ND	43	ND	43	ND	43
Hexachloroethane	UG/L	ND	10	ND	10	ND	10	ND	10
Indeno(1,2,3-cd)pyrene	UG/L	ND	10	ND	10	ND	10	ND	10
Isophorone	UG/L	ND	10	ND	10	ND	10	ND	10
2-Methylnaphthalene	UG/L	ND	10	ND	10	ND	10	ND	10
2-Methylphenol	UG/L	ND	10	ND	10	ND	10	ND	10
4-Methylphenol	UG/L	ND	10	ND	10	ND	10	ND	10
Naphthalene	UG/L	ND	10	ND	10	ND	10	ND	10
2-Nitroaniline	UG/L	ND	48	ND	48	ND	48	ND	48
3-Nitroaniline	UG/L	ND	48	ND	48	ND	48	ND	48
4-Nitroaniline	UG/L	ND	48	ND	48	ND	48	ND	48
Nitrobenzene	UG/L	ND	10	ND	10	ND	10	ND	10
2-Nitrophenol	UG/L	ND	10	ND	10	ND	10	ND	10
4-Nitrophenol	UG/L	ND	48	ND	48	ND	48	ND	48
N-nitrosodiphenylamine	UG/L	ND	10	ND	10	ND	10	ND	10
N-Nitroso-Di-n-propylamine	UG/L	ND	10	ND	10	ND	10	ND	10
Pentachlorophenol	UG/L	ND	48	ND	48	ND	48	ND	48
Phenanthrene	UG/L	ND	10	ND	10	ND	10	ND	10
Phenol	UG/L	ND	10	ND	10	ND	10	ND	10
Pyrene	UG/L	ND	10	ND	10	ND	10	ND	10
1,2,4-Trichlorobenzene	UG/L	ND	10	ND	10	ND	10	ND	10
2,4,5-Trichlorophenol	UG/L	ND	10	ND	10	ND	10	ND	10
2,4,6-Trichlorophenol	UG/L	ND	10	ND	10	ND	10	ND	10
==========IS/SURROGATE(S)==========									
1,4-Dichlorobenzene-D4	%	76	50-200	74	50-200	74	50-200	70	50-200
Naphthalene-D8	%	79	50-200	79	50-200	77	50-200	75	50-200
Acenaphthene-D10	%	78	50-200	77	50-200	76	50-200	75	50-200
Phenanthrene-D10	%	78	50-200	77	50-200	76	50-200	73	50-200
Chrysene-D12	%	81	50-200	82	50-200	86	50-200	73	50-200
Perylene-D12	%	83	50-200	80	50-200	80	50-200	77	50-200
Nitrobenzene-D5	%	79	52-120	80	52-120	85	52-120	79	52-120
2-Fluorobiphenyl	%	86	21-120	89	21-120	96	21-120	87	21-120
p-Terphenyl-d14	%	79	36-138	77	36-138	79	36-138	72	36-138
Phenol-D5	%	32	13-120	29	13-120	34	13-120	31	13-120
2-Fluorophenol	%	43	21-120	40	21-120	45	21-120	37	21-120
2,4,6-Tribromophenol	%	99	62-133	103	62-133	109	62-133	79	62-133

22/65

NA = Not Applicable ND = Not Detected

Date: 05/06/2005
Time: 13:00:21

Environmental Strategies Corporation
Ithaca Site
ESC - 8270 - TCL SEMI-VOLATILE ORGANICS - W

Rept: AN0326

Client ID		MW-9-40 4-8							
Job No	Lab ID	A05-3377	A5337708						
Sample Date		04/08/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/L	ND	10	NA		NA		NA	
Acenaphthylene	UG/L	ND	10	NA		NA		NA	
Acetophenone	UG/L	ND	10	NA		NA		NA	
Anthracene	UG/L	ND	10	NA		NA		NA	
Atrazine	UG/L	ND	10	NA		NA		NA	
Benzaldehyde	UG/L	ND	50	NA		NA		NA	
Benzo(a)anthracene	UG/L	ND	10	NA		NA		NA	
Benzo(b)fluoranthene	UG/L	ND	10	NA		NA		NA	
Benzo(k)fluoranthene	UG/L	ND	10	NA		NA		NA	
Benzo(ghi)perylene	UG/L	ND	10	NA		NA		NA	
Benzo(a)pyrene	UG/L	ND	10	NA		NA		NA	
Benzoic acid	UG/L	ND	150	NA		NA		NA	
Benzyl alcohol	UG/L	ND	20	NA		NA		NA	
Biphenyl	UG/L	ND	10	NA		NA		NA	
Bis(2-chloroethoxy) methane	UG/L	ND	10	NA		NA		NA	
Bis(2-chloroethyl) ether	UG/L	ND	10	NA		NA		NA	
2,2'-Oxybis(1-Chloropropane)	UG/L	ND	10	NA		NA		NA	
Bis(2-ethylhexyl) phthalate	UG/L	ND	10	NA		NA		NA	
4-Bromophenyl phenyl ether	UG/L	ND	10	NA		NA		NA	
Butyl benzyl phthalate	UG/L	ND	10	NA		NA		NA	
4-Chloroaniline	UG/L	ND	10	NA		NA		NA	
4-Chloro-3-methylphenol	UG/L	ND	10	NA		NA		NA	
2-Chloronaphthalene	UG/L	ND	10	NA		NA		NA	
2-Chlorophenol	UG/L	ND	10	NA		NA		NA	
4-Chlorophenyl phenyl ether	UG/L	ND	10	NA		NA		NA	
Caprolactam	UG/L	ND	10	NA		NA		NA	
Chrysene	UG/L	ND	10	NA		NA		NA	
Dibenzo(a,h)anthracene	UG/L	ND	10	NA		NA		NA	
Dibenzofuran	UG/L	ND	10	NA		NA		NA	
Di-n-butyl phthalate	UG/L	ND	10	NA		NA		NA	
1,2-Dichlorobenzene	UG/L	ND	10	NA		NA		NA	
1,3-Dichlorobenzene	UG/L	ND	10	NA		NA		NA	
1,4-Dichlorobenzene	UG/L	ND	10	NA		NA		NA	
3,3'-Dichlorobenzidine	UG/L	ND	20	NA		NA		NA	
2,4-Dichlorophenol	UG/L	ND	10	NA		NA		NA	
Diethyl phthalate	UG/L	ND	10	NA		NA		NA	
2,4-Dimethylphenol	UG/L	ND	10	NA		NA		NA	
Dimethyl phthalate	UG/L	ND	10	NA		NA		NA	
4,6-Dinitro-2-methylphenol	UG/L	ND	50	NA		NA		NA	
2,4-Dinitrophenol	UG/L	ND	50	NA		NA		NA	
2,4-Dinitrotoluene	UG/L	ND	10	NA		NA		NA	
2,6-Dinitrotoluene	UG/L	ND	10	NA		NA		NA	
Di-n-octyl phthalate	UG/L	ND	10	NA		NA		NA	

23/65

NA = Not Applicable ND = Not Detected

STL Buffalo

Client ID		MW-9-40 4-8							
Job No	Lab ID	A05-3377	A5337708						
Sample Date		04/08/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Fluoranthene	UG/L	ND	10	NA		NA		NA	
Fluorene	UG/L	ND	10	NA		NA		NA	
Hexachlorobenzene	UG/L	ND	10	NA		NA		NA	
Hexachlorobutadiene	UG/L	ND	10	NA		NA		NA	
Hexachlorocyclopentadiene	UG/L	ND	45	NA		NA		NA	
Hexachloroethane	UG/L	ND	10	NA		NA		NA	
Indeno(1,2,3-cd)pyrene	UG/L	ND	10	NA		NA		NA	
Isophorone	UG/L	ND	10	NA		NA		NA	
2-Methylnaphthalene	UG/L	ND	10	NA		NA		NA	
2-Methylphenol	UG/L	ND	10	NA		NA		NA	
4-Methylphenol	UG/L	ND	10	NA		NA		NA	
Naphthalene	UG/L	ND	10	NA		NA		NA	
2-Nitroaniline	UG/L	ND	50	NA		NA		NA	
3-Nitroaniline	UG/L	ND	50	NA		NA		NA	
4-Nitroaniline	UG/L	ND	50	NA		NA		NA	
Nitrobenzene	UG/L	ND	10	NA		NA		NA	
2-Nitrophenol	UG/L	ND	10	NA		NA		NA	
4-Nitrophenol	UG/L	ND	50	NA		NA		NA	
N-nitrosodiphenylamine	UG/L	ND	10	NA		NA		NA	
N-Nitroso-Di-n-propylamine	UG/L	ND	10	NA		NA		NA	
Pentachlorophenol	UG/L	ND	50	NA		NA		NA	
Phenanthrene	UG/L	ND	10	NA		NA		NA	
Phenol	UG/L	ND	10	NA		NA		NA	
Pyrene	UG/L	ND	10	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/L	ND	10	NA		NA		NA	
2,4,5-Trichlorophenol	UG/L	ND	10	NA		NA		NA	
2,4,6-Trichlorophenol	UG/L	ND	10	NA		NA		NA	
==========IS/SURROGATE(S)==========									
1,4-Dichlorobenzene-D4	%	80	50-200	NA		NA		NA	
Naphthalene-D8	%	82	50-200	NA		NA		NA	
Acenaphthene-D10	%	80	50-200	NA		NA		NA	
Phenanthrene-D10	%	83	50-200	NA		NA		NA	
Chrysene-D12	%	90	50-200	NA		NA		NA	
Perylene-D12	%	87	50-200	NA		NA		NA	
Nitrobenzene-D5	%	77	52-120	NA		NA		NA	
2-Fluorobiphenyl	%	85	21-120	NA		NA		NA	
p-Terphenyl-d14	%	82	36-138	NA		NA		NA	
Phenol-D5	%	32	13-120	NA		NA		NA	
2-Fluorophenol	%	42	21-120	NA		NA		NA	
2,4,6-Tribromophenol	%	100	62-133	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Environmental Strategies Corporation
Ithaca Site
ESC - METHOD 8082 - POLYCHLORINATED BIPHENYLS - W

Client ID		MW-17-40		MW-17-40 (1000)		MW-18A		MW-19A	
Job No / Lab ID		A05-3377 / A5337705		A05-3377 / A5337706		A05-3377 / A5337713		A05-3377 / A5337711	
Sample Date		04/07/2005		04/07/2005		04/08/2005		04/08/2005	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/L	ND	0.48	ND	0.48	ND	0.48	ND	0.48
Aroclor 1221	UG/L	ND	0.48	ND	0.48	ND	0.48	ND	0.48
Aroclor 1232	UG/L	ND	0.48	ND	0.48	ND	0.48	ND	0.48
Aroclor 1242	UG/L	ND	0.48	ND	0.48	ND	0.48	ND	0.48
Aroclor 1248	UG/L	ND	0.48	ND	0.48	ND	0.48	ND	0.48
Aroclor 1254	UG/L	ND	0.48	ND	0.48	ND	0.48	ND	0.48
Aroclor 1260	UG/L	ND	0.48	ND	0.48	ND	0.48	ND	0.48
SURROGATE(S)									
Tetrachloro-m-xylene	%	72	36-132	63	36-132	72	36-132	73	36-132
Decachlorobiphenyl	%	50	28-132	44	28-132	42	28-132	50	28-132

Client ID		MW-20B		MW-21B		MW-22B		MW-23B	
Job No / Lab ID		A05-3377 / A5337701		A05-3377 / A5337704		A05-3377 / A5337703		A05-3377 / A5337714	
Sample Date		04/07/2005		04/07/2005		04/07/2005		04/08/2005	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/L	ND	0.50	ND	0.57	ND	0.50	ND	0.53
Aroclor 1221	UG/L	ND	0.50	ND	0.57	ND	0.50	ND	0.53
Aroclor 1232	UG/L	ND	0.50	ND	0.57	ND	0.50	ND	0.53
Aroclor 1242	UG/L	ND	0.50	ND	0.57	ND	0.50	ND	0.53
Aroclor 1248	UG/L	ND	0.50	ND	0.57	ND	0.50	ND	0.53
Aroclor 1254	UG/L	ND	0.50	ND	0.57	ND	0.50	ND	0.53
Aroclor 1260	UG/L	ND	0.50	ND	0.57	ND	0.50	ND	0.53
SURROGATE(S)									
Tetrachloro-m-xylene	%	66	36-132	54	36-132	67	36-132	65	36-132
Decachlorobiphenyl	%	60	28-132	29	28-132	48	28-132	52	28-132

NA = Not Applicable ND = Not Detected

Date: 05/06/2005
Time: 13:00:27

Environmental Strategies Corporation
Ithaca Site
ESC - METHOD 8082 - POLYCHLORINATED BIPHENYLS - W

Rept: AN0326

Client ID		MW-24B		MW-25A		MW-26A		MW-5-40	
Job No	Lab ID	A05-3377	A5337712	A05-3377	A5337709	A05-3377	A5337710	A05-3377	A5337707
Sample Date		04/08/2005		04/08/2005		04/08/2005		04/07/2005	

Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/L	ND	0.53	ND	0.47	ND	0.48	ND	0.48
Aroclor 1221	UG/L	ND	0.53	ND	0.47	ND	0.48	ND	0.48
Aroclor 1232	UG/L	ND	0.53	ND	0.47	ND	0.48	ND	0.48
Aroclor 1242	UG/L	ND	0.53	ND	0.47	ND	0.48	ND	0.48
Aroclor 1248	UG/L	ND	0.53	ND	0.47	ND	0.48	ND	0.48
Aroclor 1254	UG/L	ND	0.53	ND	0.47	ND	0.48	ND	0.48
Aroclor 1260	UG/L	ND	0.53	ND	0.47	ND	0.48	ND	0.48
SURROGATE(S)									
Tetrachloro-m-xylene	%	73	36-132	66	36-132	68	36-132	64	36-132
Decachlorobiphenyl	%	52	28-132	57	28-132	54	28-132	40	28-132

Client ID		MW-9-40 4-8							
Job No	Lab ID	A05-3377	A5337708						
Sample Date		04/08/2005							

Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/L	ND	0.50	NA		NA		NA	
Aroclor 1221	UG/L	ND	0.50	NA		NA		NA	
Aroclor 1232	UG/L	ND	0.50	NA		NA		NA	
Aroclor 1242	UG/L	ND	0.50	NA		NA		NA	
Aroclor 1248	UG/L	ND	0.50	NA		NA		NA	
Aroclor 1254	UG/L	ND	0.50	NA		NA		NA	
Aroclor 1260	UG/L	ND	0.50	NA		NA		NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	66	36-132	NA		NA		NA	
Decachlorobiphenyl	%	44	28-132	NA		NA		NA	

26/65

NA = Not Applicable ND = Not Detected

STL Buffalo

Chronology and QC Summary Package

Client ID	VBLK83		vblk81		vblk82		vblk84	
Job No / Lab ID	A05-3377	A5B0559902	A05-3377	A5B0551802	A05-3377	A5B0552902	A05-3377	A5B0560402
Sample Date								
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Benzene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromodichloromethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromoform	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromomethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Butanone	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Carbon Disulfide	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Carbon Tetrachloride	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroform	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloromethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Cyclohexane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromoethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Dibromochloromethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromo-3-chloropropane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,3-Dichlorobenzene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Dichlorodifluoromethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
cis-1,2-Dichloroethene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
trans-1,2-Dichloroethene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloropropane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
cis-1,3-Dichloropropene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
trans-1,3-Dichloropropene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Hexanone	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Isopropylbenzene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methyl acetate	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methylcyclohexane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methylene chloride	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
4-Methyl-2-pentanone	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Methyl-t-Butyl Ether (MTBE)	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Styrene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Toluene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,1-Trichloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0

NA = Not Applicable ND = Not Detected

Client ID		VBLK83		vblk81		vblk82		vblk84	
Job No	Lab ID	A05-3377	A5B0559902	A05-3377	A5B0551802	A05-3377	A5B0552902	A05-3377	A5B0560402
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Vinyl chloride	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Total Xylenes	UG/L	ND	3.0	ND	3.0	ND	3.0	ND	3.0
========IS/SURROGATE(S)==========									
Chlorobenzene-D5	%	91	50-200	98	50-200	93	50-200	97	50-200
1,4-Difluorobenzene	%	95	50-200	98	50-200	99	50-200	98	50-200
1,4-Dichlorobenzene-D4	%	87	50-200	98	50-200	88	50-200	90	50-200
Toluene-D8	%	100	76-116	96	76-116	101	76-116	98	76-116
p-Bromofluorobenzene	%	99	73-117	101	73-117	98	73-117	98	73-117
1,2-Dichloroethane-D4	%	104	72-143	103	72-143	98	72-143	99	72-143

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NA = Not Applicable ND = Not Detected

Client ID		MSB83		msb81		msb82		msb84	
Job No / Lab ID		A05-3377	A5B0559901	A05-3377	A5B0551801	A05-3377	A5B0552901	A05-3377	A5B0560401
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Benzene	UG/L	9.6	1.0	8.9	1.0	9.9	1.0	10	1.0
Bromodichloromethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromoform	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromomethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Butanone	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Carbon Disulfide	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Carbon Tetrachloride	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	UG/L	9.3	1.0	8.8	1.0	9.5	1.0	9.6	1.0
Chloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroform	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloromethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Cyclohexane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromoethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Dibromochloromethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromo-3-chloropropane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,3-Dichlorobenzene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Dichlorodifluoromethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethene	UG/L	9.0	1.0	7.0	1.0	8.9	1.0	8.4	1.0
cis-1,2-Dichloroethene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
trans-1,2-Dichloroethene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloropropane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
cis-1,3-Dichloropropene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
trans-1,3-Dichloropropene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Hexanone	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Isopropylbenzene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methyl acetate	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methylcyclohexane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methylene chloride	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
4-Methyl-2-pentanone	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Methyl-t-Butyl Ether (MTBE)	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Styrene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Toluene	UG/L	9.1	1.0	8.6	1.0	9.5	1.0	9.3	1.0
1,2,4-Trichlorobenzene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,1-Trichloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0

NA = Not Applicable ND = Not Detected

STL Buffalo

Client ID		MSB83		msb81		msb82		msb84	
Job No / Lab ID		A05-3377	A5B0559901	A05-3377	A5B0551801	A05-3377	A5B0552901	A05-3377	A5B0560401
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	UG/L	10	1.0	9.4	1.0	10	1.0	10	1.0
Vinyl chloride	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Total Xylenes	UG/L	ND	3.0	ND	3.0	ND	3.0	ND	3.0
IS/SURROGATE(S)									
Chlorobenzene-D5	%	100	50-200	100	50-200	98	50-200	103	50-200
1,4-Difluorobenzene	%	99	50-200	98	50-200	99	50-200	101	50-200
1,4-Dichlorobenzene-D4	%	87	50-200	95	50-200	89	50-200	92	50-200
Toluene-D8	%	94	76-116	94	76-116	98	76-116	94	76-116
p-Bromofluorobenzene	%	96	73-117	97	73-117	95	73-117	93	73-117
1,2-Dichloroethane-D4	%	100	72-143	103	72-143	103	72-143	100	72-143

NA = Not Applicable ND = Not Detected

Client ID	TRIP BLANK							
Job No Lab ID	A05-3377 A5337715							
Sample Date	04/08/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	5.0	NA		NA		NA	
Benzene	UG/L	ND	1.0	NA		NA		NA	
Bromodichloromethane	UG/L	ND	1.0	NA		NA		NA	
Bromoform	UG/L	ND	1.0	NA		NA		NA	
Bromomethane	UG/L	ND	1.0	NA		NA		NA	
2-Butanone	UG/L	ND	5.0	NA		NA		NA	
Carbon Disulfide	UG/L	ND	1.0	NA		NA		NA	
Carbon Tetrachloride	UG/L	ND	1.0	NA		NA		NA	
Chlorobenzene	UG/L	ND	1.0	NA		NA		NA	
Chloroethane	UG/L	ND	1.0	NA		NA		NA	
Chloroform	UG/L	ND	1.0	NA		NA		NA	
Chloromethane	UG/L	ND	1.0	NA		NA		NA	
Cyclohexane	UG/L	ND	1.0	NA		NA		NA	
1,2-Dibromoethane	UG/L	ND	1.0	NA		NA		NA	
Dibromochloromethane	UG/L	ND	1.0	NA		NA		NA	
1,2-Dibromo-3-chloropropane	UG/L	ND	1.0	NA		NA		NA	
1,2-Dichlorobenzene	UG/L	ND	1.0	NA		NA		NA	
1,3-Dichlorobenzene	UG/L	ND	1.0	NA		NA		NA	
1,4-Dichlorobenzene	UG/L	ND	1.0	NA		NA		NA	
Dichlorodifluoromethane	UG/L	ND	1.0	NA		NA		NA	
1,1-Dichloroethane	UG/L	ND	1.0	NA		NA		NA	
1,2-Dichloroethane	UG/L	ND	1.0	NA		NA		NA	
1,1-Dichloroethene	UG/L	ND	1.0	NA		NA		NA	
cis-1,2-Dichloroethene	UG/L	ND	1.0	NA		NA		NA	
trans-1,2-Dichloroethene	UG/L	ND	1.0	NA		NA		NA	
1,2-Dichloropropane	UG/L	ND	1.0	NA		NA		NA	
cis-1,3-Dichloropropene	UG/L	ND	1.0	NA		NA		NA	
trans-1,3-Dichloropropene	UG/L	ND	1.0	NA		NA		NA	
Ethylbenzene	UG/L	ND	1.0	NA		NA		NA	
2-Hexanone	UG/L	ND	5.0	NA		NA		NA	
Isopropylbenzene	UG/L	ND	1.0	NA		NA		NA	
Methyl acetate	UG/L	ND	1.0	NA		NA		NA	
Methylcyclohexane	UG/L	ND	1.0	NA		NA		NA	
Methylene chloride	UG/L	ND	1.0	NA		NA		NA	
4-Methyl-2-pentanone	UG/L	ND	5.0	NA		NA		NA	
Methyl-t-Butyl Ether (MTBE)	UG/L	ND	1.0	NA		NA		NA	
Styrene	UG/L	ND	1.0	NA		NA		NA	
1,1,2,2-Tetrachloroethane	UG/L	ND	1.0	NA		NA		NA	
Tetrachloroethene	UG/L	ND	1.0	NA		NA		NA	
Toluene	UG/L	ND	1.0	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/L	ND	1.0	NA		NA		NA	
1,1,1-Trichloroethane	UG/L	ND	1.0	NA		NA		NA	
1,1,2-Trichloroethane	UG/L	ND	1.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		TRIP BLANK							
Job No	Lab ID	A05-3377	A5337715						
Sample Date		04/08/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	1.0	NA		NA		NA	
Trichlorofluoromethane	UG/L	ND	1.0	NA		NA		NA	
Trichloroethene	UG/L	ND	1.0	NA		NA		NA	
Vinyl chloride	UG/L	ND	1.0	NA		NA		NA	
Total Xylenes	UG/L	ND	3.0	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	98	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	100	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	99	50-200	NA		NA		NA	
Toluene-D8	%	93	76-116	NA		NA		NA	
p-Bromofluorobenzene	%	99	73-117	NA		NA		NA	
1,2-Dichloroethane-D4	%	106	72-143	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		SBLK							
Job No	Lab ID	A05-3377	A5B0508802						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/L	ND	10	NA		NA		NA	
Acenaphthylene	UG/L	ND	10	NA		NA		NA	
Acetophenone	UG/L	ND	10	NA		NA		NA	
Anthracene	UG/L	ND	10	NA		NA		NA	
Atrazine	UG/L	ND	10	NA		NA		NA	
Benzaldehyde	UG/L	ND	50	NA		NA		NA	
Benzo(a)anthracene	UG/L	ND	10	NA		NA		NA	
Benzo(b)fluoranthene	UG/L	ND	10	NA		NA		NA	
Benzo(k)fluoranthene	UG/L	ND	10	NA		NA		NA	
Benzo(ghi)perylene	UG/L	ND	10	NA		NA		NA	
Benzo(a)pyrene	UG/L	ND	10	NA		NA		NA	
Benzoic acid	UG/L	ND	150	NA		NA		NA	
Benzyl alcohol	UG/L	ND	20	NA		NA		NA	
Biphenyl	UG/L	ND	10	NA		NA		NA	
Bis(2-chloroethoxy) methane	UG/L	ND	10	NA		NA		NA	
Bis(2-chloroethyl) ether	UG/L	ND	10	NA		NA		NA	
2,2'-Oxybis(1-Chloropropane)	UG/L	ND	10	NA		NA		NA	
Bis(2-ethylhexyl) phthalate	UG/L	4 J	10	NA		NA		NA	
4-Bromophenyl phenyl ether	UG/L	ND	10	NA		NA		NA	
Butyl benzyl phthalate	UG/L	ND	10	NA		NA		NA	
4-Chloroaniline	UG/L	ND	10	NA		NA		NA	
4-Chloro-3-methylphenol	UG/L	ND	10	NA		NA		NA	
2-Chloronaphthalene	UG/L	ND	10	NA		NA		NA	
2-Chlorophenol	UG/L	ND	10	NA		NA		NA	
4-Chlorophenyl phenyl ether	UG/L	ND	10	NA		NA		NA	
Caprolactam	UG/L	ND	10	NA		NA		NA	
Chrysene	UG/L	ND	10	NA		NA		NA	
Dibenzo(a,h)anthracene	UG/L	ND	10	NA		NA		NA	
Dibenzofuran	UG/L	ND	10	NA		NA		NA	
Di-n-butyl phthalate	UG/L	ND	10	NA		NA		NA	
1,2-Dichlorobenzene	UG/L	ND	10	NA		NA		NA	
1,3-Dichlorobenzene	UG/L	ND	10	NA		NA		NA	
1,4-Dichlorobenzene	UG/L	ND	10	NA		NA		NA	
3,3'-Dichlorobenzidine	UG/L	ND	20	NA		NA		NA	
2,4-Dichlorophenol	UG/L	ND	10	NA		NA		NA	
Diethyl phthalate	UG/L	ND	10	NA		NA		NA	
2,4-Dimethylphenol	UG/L	ND	10	NA		NA		NA	
Dimethyl phthalate	UG/L	ND	10	NA		NA		NA	
4,6-Dinitro-2-methylphenol	UG/L	ND	50	NA		NA		NA	
2,4-Dinitrophenol	UG/L	ND	50	NA		NA		NA	
2,4-Dinitrotoluene	UG/L	ND	10	NA		NA		NA	
2,6-Dinitrotoluene	UG/L	ND	10	NA		NA		NA	
Di-n-octyl phthalate	UG/L	ND	10	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		SBLK							
Job No	Lab ID	A05-3377	A5B0508802						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Fluoranthene	UG/L	ND	10	NA		NA		NA	
Fluorene	UG/L	ND	10	NA		NA		NA	
Hexachlorobenzene	UG/L	ND	10	NA		NA		NA	
Hexachlorobutadiene	UG/L	ND	10	NA		NA		NA	
Hexachlorocyclopentadiene	UG/L	ND	45	NA		NA		NA	
Hexachloroethane	UG/L	ND	10	NA		NA		NA	
Indeno(1,2,3-cd)pyrene	UG/L	ND	10	NA		NA		NA	
Isophorone	UG/L	ND	10	NA		NA		NA	
2-Methylnaphthalene	UG/L	ND	10	NA		NA		NA	
2-Methylphenol	UG/L	ND	10	NA		NA		NA	
4-Methylphenol	UG/L	ND	10	NA		NA		NA	
Naphthalene	UG/L	ND	10	NA		NA		NA	
2-Nitroaniline	UG/L	ND	50	NA		NA		NA	
3-Nitroaniline	UG/L	ND	50	NA		NA		NA	
4-Nitroaniline	UG/L	ND	50	NA		NA		NA	
Nitrobenzene	UG/L	ND	10	NA		NA		NA	
2-Nitrophenol	UG/L	ND	10	NA		NA		NA	
4-Nitrophenol	UG/L	ND	50	NA		NA		NA	
N-nitrosodiphenylamine	UG/L	ND	10	NA		NA		NA	
N-Nitroso-Di-n-propylamine	UG/L	ND	10	NA		NA		NA	
Pentachlorophenol	UG/L	ND	50	NA		NA		NA	
Phenanthrene	UG/L	ND	10	NA		NA		NA	
Phenol	UG/L	ND	10	NA		NA		NA	
Pyrene	UG/L	ND	10	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/L	ND	10	NA		NA		NA	
2,4,5-Trichlorophenol	UG/L	ND	10	NA		NA		NA	
2,4,6-Trichlorophenol	UG/L	ND	10	NA		NA		NA	
==========IS/SURROGATE(S)==========									
1,4-Dichlorobenzene-D4	%	76	50-200	NA		NA		NA	
Naphthalene-D8	%	79	50-200	NA		NA		NA	
Acenaphthene-D10	%	78	50-200	NA		NA		NA	
Phenanthrene-D10	%	78	50-200	NA		NA		NA	
Chrysene-D12	%	83	50-200	NA		NA		NA	
Perylene-D12	%	82	50-200	NA		NA		NA	
Nitrobenzene-D5	%	85	52-120	NA		NA		NA	
2-Fluorobiphenyl	%	91	21-120	NA		NA		NA	
p-Terphenyl-d14	%	87	36-138	NA		NA		NA	
Phenol-D5	%	36	13-120	NA		NA		NA	
2-Fluorophenol	%	47	21-120	NA		NA		NA	
2,4,6-Tribromophenol	%	98	62-133	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		MW-17-40 (1000)		MW-17-40 (1000)		Matrix Spike Blank			
Job No Lab ID		A05-3377 A5337706MS		A05-3377 A5337706SD		A05-3377 A5B0508801			
Sample Date		04/07/2005		04/07/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/L	170	20	180	20	86	10	NA	
Acenaphthylene	UG/L	ND	20	ND	20	ND	10	NA	
Acetophenone	UG/L	ND	20	ND	20	ND	10	NA	
Anthracene	UG/L	ND	20	ND	20	ND	10	NA	
Atrazine	UG/L	ND	20	ND	20	ND	10	NA	
Benzaldehyde	UG/L	ND	100	ND	100	ND	50	NA	
Benzo(a)anthracene	UG/L	ND	20	ND	20	ND	10	NA	
Benzo(b)fluoranthene	UG/L	ND	20	ND	20	ND	10	NA	
Benzo(k)fluoranthene	UG/L	ND	20	ND	20	ND	10	NA	
Benzo(ghi)perylene	UG/L	ND	20	ND	20	ND	10	NA	
Benzo(a)pyrene	UG/L	ND	20	ND	20	ND	10	NA	
Benzoic acid	UG/L	ND	300	ND	300	ND	150	NA	
Benzyl alcohol	UG/L	ND	40	ND	40	ND	20	NA	
Biphenyl	UG/L	ND	20	ND	20	ND	10	NA	
Bis(2-chloroethoxy) methane	UG/L	ND	20	ND	20	ND	10	NA	
Bis(2-chloroethyl) ether	UG/L	ND	20	ND	20	ND	10	NA	
2,2'-Oxybis(1-Chloropropane)	UG/L	ND	20	ND	20	ND	10	NA	
Bis(2-ethylhexyl) phthalate	UG/L	ND	20	ND	20	4 BJ	10	NA	
4-Bromophenyl phenyl ether	UG/L	ND	20	ND	20	ND	10	NA	
Butyl benzyl phthalate	UG/L	ND	20	ND	20	ND	10	NA	
4-Chloroaniline	UG/L	ND	20	ND	20	ND	10	NA	
4-Chloro-3-methylphenol	UG/L	190	20	190	20	88	10	NA	
2-Chloronaphthalene	UG/L	ND	20	ND	20	ND	10	NA	
2-Chlorophenol	UG/L	140	20	160	20	70	10	NA	
4-Chlorophenyl phenyl ether	UG/L	ND	20	ND	20	ND	10	NA	
Caprolactam	UG/L	ND	20	ND	20	ND	10	NA	
Chrysene	UG/L	ND	20	ND	20	ND	10	NA	
Dibenzo(a,h)anthracene	UG/L	ND	20	ND	20	ND	10	NA	
Dibenzofuran	UG/L	ND	20	ND	20	ND	10	NA	
Di-n-butyl phthalate	UG/L	ND	20	ND	20	ND	10	NA	
1,2-Dichlorobenzene	UG/L	ND	20	ND	20	ND	10	NA	
1,3-Dichlorobenzene	UG/L	ND	20	ND	20	ND	10	NA	
1,4-Dichlorobenzene	UG/L	120	20	140	20	64	10	NA	
3,3'-Dichlorobenzidine	UG/L	ND	40	ND	40	ND	20	NA	
2,4-Dichlorophenol	UG/L	ND	20	ND	20	ND	10	NA	
Diethyl phthalate	UG/L	ND	20	ND	20	ND	10	NA	
2,4-Dimethylphenol	UG/L	ND	20	ND	20	ND	10	NA	
Dimethyl phthalate	UG/L	ND	20	ND	20	ND	10	NA	
4,6-Dinitro-2-methylphenol	UG/L	ND	100	ND	100	ND	50	NA	
2,4-Dinitrophenol	UG/L	ND	100	ND	100	ND	50	NA	
2,4-Dinitrotoluene	UG/L	190	20	190	20	91	10	NA	
2,6-Dinitrotoluene	UG/L	ND	20	ND	20	ND	10	NA	
Di-n-octyl phthalate	UG/L	ND	20	ND	20	ND	10	NA	

NA = Not Applicable ND = Not Detected

Client ID		MW-17-40 (1000)		MW-17-40 (1000)		Matrix Spike Blank			
Job No / Lab ID		A05-3377	A5337706MS	A05-3377	A5337706SD	A05-3377	A5B0508801		
Sample Date		04/07/2005		04/07/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Fluoranthene	UG/L	ND	20	ND	20	ND	10	NA	
Fluorene	UG/L	ND	20	ND	20	ND	10	NA	
Hexachlorobenzene	UG/L	ND	20	ND	20	ND	10	NA	
Hexachlorobutadiene	UG/L	ND	20	ND	20	ND	10	NA	
Hexachlorocyclopentadiene	UG/L	ND	90	ND	90	ND	45	NA	
Hexachloroethane	UG/L	ND	20	ND	20	ND	10	NA	
Indeno(1,2,3-cd)pyrene	UG/L	ND	20	ND	20	ND	10	NA	
Isophorone	UG/L	ND	20	ND	20	ND	10	NA	
2-Methylnaphthalene	UG/L	ND	20	ND	20	ND	10	NA	
2-Methylphenol	UG/L	ND	20	ND	20	ND	10	NA	
4-Methylphenol	UG/L	ND	20	ND	20	ND	10	NA	
Naphthalene	UG/L	ND	20	ND	20	ND	10	NA	
2-Nitroaniline	UG/L	ND	100	ND	100	ND	50	NA	
3-Nitroaniline	UG/L	ND	100	ND	100	ND	50	NA	
4-Nitroaniline	UG/L	ND	100	ND	100	ND	50	NA	
Nitrobenzene	UG/L	ND	20	ND	20	ND	10	NA	
2-Nitrophenol	UG/L	ND	20	ND	20	ND	10	NA	
4-Nitrophenol	UG/L	120	100	120	100	35 J	50	NA	
N-nitrosodiphenylamine	UG/L	ND	20	ND	20	ND	10	NA	
N-Nitroso-Di-n-propylamine	UG/L	160	20	180	20	85	10	NA	
Pentachlorophenol	UG/L	180	100	180	100	82	50	NA	
Phenanthrene	UG/L	ND	20	ND	20	ND	10	NA	
Phenol	UG/L	96	20	110	20	30	10	NA	
Pyrene	UG/L	190	20	190	20	94	10	NA	
1,2,4-Trichlorobenzene	UG/L	120	20	150	20	69	10	NA	
2,4,5-Trichlorophenol	UG/L	ND	20	ND	20	ND	10	NA	
2,4,6-Trichlorophenol	UG/L	ND	20	ND	20	ND	10	NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	77	50-200	74	50-200	76	50-200	NA	
Naphthalene-D8	%	79	50-200	78	50-200	80	50-200	NA	
Acenaphthene-D10	%	76	50-200	77	50-200	79	50-200	NA	
Phenanthrene-D10	%	75	50-200	76	50-200	80	50-200	NA	
Chrysene-D12	%	77	50-200	80	50-200	80	50-200	NA	
Perylene-D12	%	78	50-200	79	50-200	83	50-200	NA	
Nitrobenzene-D5	%	75	52-120	86	52-120	78	52-120	NA	
2-Fluorobiphenyl	%	88	21-120	92	21-120	86	21-120	NA	
p-Terphenyl-d14	%	86	36-138	84	36-138	90	36-138	NA	
Phenol-D5	%	49	13-120	56	13-120	31	13-120	NA	
2-Fluorophenol	%	56	21-120	61	21-120	43	21-120	NA	
2,4,6-Tribromophenol	%	104	62-133	104	62-133	96	62-133	NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		Method Blank A05-3377 A5B0508902							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/L	ND	0.50	NA		NA		NA	
Aroclor 1221	UG/L	ND	0.50	NA		NA		NA	
Aroclor 1232	UG/L	ND	0.50	NA		NA		NA	
Aroclor 1242	UG/L	ND	0.50	NA		NA		NA	
Aroclor 1248	UG/L	ND	0.50	NA		NA		NA	
Aroclor 1254	UG/L	ND	0.50	NA		NA		NA	
Aroclor 1260	UG/L	ND	0.50	NA		NA		NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	64	36-132	NA		NA		NA	
Decachlorobiphenyl	%	66	28-132	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Environmental Strategies Corporation
Ithaca Site
ESC - METHOD 8082 - POLYCHLORINATED BIPHENYLS - W

Client ID Job No Sample Date	Lab ID	MW-22B A05-3377 04/07/2005	A5337703MS	MW-22B A05-3377 04/07/2005	A5337703SD	Matrix Spike Blank A05-3377	A5B0508901		
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/L	8.3	1.0	8.0	1.0	4.5	0.50	NA	
Aroclor 1221	UG/L	ND	1.0	ND	1.0	ND	0.50	NA	
Aroclor 1232	UG/L	ND	1.0	ND	1.0	ND	0.50	NA	
Aroclor 1242	UG/L	ND	1.0	ND	1.0	ND	0.50	NA	
Aroclor 1248	UG/L	ND	1.0	ND	1.0	ND	0.50	NA	
Aroclor 1254	UG/L	ND	1.0	ND	1.0	ND	0.50	NA	
Aroclor 1260	UG/L	6.8	1.0	6.2	1.0	4.3	0.50	NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	69	36-132	70	36-132	70	36-132	NA	
Decachlorobiphenyl	%	62	28-132	54	28-132	64	28-132	NA	

NA = Not Applicable ND = Not Detected

Client Sample ID: VBLK83 MSB83
Lab Sample ID: A5B0559902 A5B0559901

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
METHOD 8260 - TCL VOLATILE ORGANICS					
1,1-Dichloroethene	UG/L	9.04	10.0	90	65-138
Trichloroethene	UG/L	9.95	10.0	100	71-120
Benzene	UG/L	9.63	10.0	96	67-126
Toluene	UG/L	9.08	10.0	91	71-120
Chlorobenzene	UG/L	9.32	10.0	93	74-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: vblk81 msb81
Lab Sample ID: A5B0551802 A5B0551801

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
METHOD 8260 - TCL VOLATILE ORGANICS					
1,1-Dichloroethene	UG/L	7.05	10.0	70	65-138
Trichloroethene	UG/L	9.43	10.0	94	71-120
Benzene	UG/L	8.92	10.0	89	67-126
Toluene	UG/L	8.63	10.0	86	71-120
Chlorobenzene	UG/L	8.81	10.0	88	74-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: vblk82 msb82
Lab Sample ID: A5B0552902 A5B0552901

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
METHOD 8260 - TCL VOLATILE ORGANICS					
1,1-Dichloroethene	UG/L	8.88	10.0	89	65-138
Trichloroethene	UG/L	10.0	10.0	100	71-120
Benzene	UG/L	9.93	10.0	99	67-126
Toluene	UG/L	9.46	10.0	95	71-120
Chlorobenzene	UG/L	9.47	10.0	95	74-120

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* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: vblk84 msb84
Lab Sample ID: A5B0560402 A5B0560401

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
METHOD 8260 - TCL VOLATILE ORGANICS					
1,1-Dichloroethene	UG/L	8.42	10.0	84	65-138
Trichloroethene	UG/L	9.96	10.0	100	71-120
Benzene	UG/L	10.0	10.0	101	67-126
Toluene	UG/L	9.31	10.0	93	71-120
Chlorobenzene	UG/L	9.57	10.0	96	74-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: MW-17-40 (1000) MW-17-40 (1000) MW-17-40 (1000)
Lab Sample ID: A5337706 A5337706MS A5337706SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
ESC - 8270 - TCL SEMI-VOLATILE ORGANICS												
Phenol	UG/L	0	96.5	109	200	200	48	55	52	14	39.0	16-120
2-Chlorophenol	UG/L	0	139	158	200	200	70	79	75	12	33.0	42-120
1,4-Dichlorobenzene	UG/L	0	117	136	200	200	58	68	63	16	35.0	28-120
N-Nitroso-Di-n-propylamine	UG/L	0	165	184	200	200	83	92	88	10	38.0	53-120
1,2,4-Trichlorobenzene	UG/L	0	125	152	200	200	63	76	70	19	35.0	36-120
4-Chloro-3-methylphenol	UG/L	0	186	192	200	200	93	96	95	3	25.0	54-131
Acenaphthene	UG/L	0	174	184	200	200	87	92	90	6	23.0	55-120
4-Nitrophenol	UG/L	0	122	120	200	200	61	60	61	2	30.0	11-120
2,4-Dinitrotoluene	UG/L	0	192	190	200	200	96	95	96	1	20.0	53-125
Pentachlorophenol	UG/L	0	178	182	200	200	89	91	90	2	27.0	33-143
Pyrene	UG/L	0	186	189	200	200	93	95	94	2	25.0	50-151

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: SBLK Matrix Spike Blank
Lab Sample ID: A5B0508802 A5B0508801

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
ESC - 8270 - TCL SEMI-VOLATILE ORGANICS					
Phenol	UG/L	30.2	100	30	16-120
2-Chlorophenol	UG/L	70.4	100	70	42-120
1,4-Dichlorobenzene	UG/L	64.1	100	64	28-120
N-Nitroso-Di-n-propylamine	UG/L	85.4	100	85	53-120
1,2,4-Trichlorobenzene	UG/L	69.1	100	69	36-120
4-Chloro-3-methylphenol	UG/L	87.9	100	88	54-131
Acenaphthene	UG/L	85.6	100	86	55-120
4-Nitrophenol	UG/L	35.0	100	35	11-120
2,4-Dinitrotoluene	UG/L	91.4	100	91	53-125
Pentachlorophenol	UG/L	82.2	100	82	33-143
Pyrene	UG/L	94.0	100	94	50-151

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SAMPLE DATE 04/07/2005

Client Sample ID: MW-22B MW-22B MW-22B
Lab Sample ID: A5337703 A5337703MS A5337703SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
ESC - METHOD 8082 - POLYCHLORINATED BIPH												
Aroclor 1260	UG/L	0	6.82	6.22	10.0	10.0	68	62	65	9	30.0	50-122
Aroclor 1016	UG/L	0	8.32	8.01	10.0	10.0	83	80	82	4	30.0	29-123

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank
Lab Sample ID: A5B0508902

Matrix Spike Blank
A5B0508901

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
ESC - METHOD 8082 - POLYCHLORINATED BIPH					
Aroclor 1260	UG/L	4.33	5.00	87	50-122
Aroclor 1016	UG/L	4.46	5.00	89	29-123

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	MW-17-40 A05-3377 A5337705	MW-17-40 (1000) A05-3377 A5337706	MW-18A A05-3377 A5337713	MW-19A A05-3377 A5337711	MW-20B A05-3377 A5337701
Sample Date	04/07/2005 15:40	04/07/2005 16:00	04/08/2005 12:40	04/08/2005 10:55	04/07/2005 17:50
Received Date	04/09/2005 10:15	04/09/2005 10:15	04/09/2005 10:15	04/09/2005 10:15	04/09/2005 10:15
Extraction Date					
Analysis Date	04/19/2005 15:36	04/19/2005 16:08	04/20/2005 04:28	04/20/2005 03:24	04/19/2005 05:28
Extraction HT Met?	-	-	-	-	-
Analytical HT Met?	YES	YES	YES	YES	YES
Sample Matrix	WATER	WATER	WATER	WATER	WATER
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Sample wt/vol	0.025 LITERS	0.025 LITERS	0.025 LITERS	0.025 LITERS	0.025 LITERS
% Dry					

NA = Not Applicable

METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	MW-21B A05-3377 A5337704	MW-22B A05-3377 A5337703	MW-23B A05-3377 A5337714	MW-24B A05-3377 A5337712	MW-25A A05-3377 A5337709
Sample Date	04/07/2005 19:20	04/07/2005 18:55	04/08/2005 16:00	04/08/2005 11:40	04/08/2005 09:20
Received Date	04/09/2005 10:15	04/09/2005 10:15	04/09/2005 10:15	04/09/2005 10:15	04/09/2005 10:15
Extraction Date					
Analysis Date	04/19/2005 15:04	04/19/2005 06:30	04/20/2005 05:00	04/20/2005 03:56	04/19/2005 18:16
Extraction HT Met?	-	-	-	-	-
Analytical HT Met?	YES	YES	YES	YES	YES
Sample Matrix	WATER	WATER	WATER	WATER	WATER
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Sample wt/vol	0.025 LITERS	0.025 LITERS	0.025 LITERS	0.025 LITERS	0.025 LITERS
% Dry					

49/65

NA = Not Applicable

METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	MW-26A A05-3377 A5337710	MW-5-40 A05-3377 A5337707	MW-5-40 A05-3377 A5337707DL	MW-9-100 A05-3377 A5337702	
Sample Date	04/08/2005 10:00	04/07/2005 11:30	04/07/2005 11:30	04/07/2005 18:15	
Received Date	04/09/2005 10:15	04/09/2005 10:15	04/09/2005 10:15	04/09/2005 10:15	
Extraction Date					
Analysis Date	04/19/2005 18:48	04/19/2005 08:33	04/19/2005 21:27	04/19/2005 05:59	
Extraction HT Met?	-	-	-	-	
Analytical HT Met?	YES	YES	YES	YES	
Sample Matrix	WATER	WATER	WATER	WATER	
Dilution Factor	1.0	20.0	1000.0	1.0	
Sample wt/vol	0.025 LITERS	0.025 LITERS	0.025 LITERS	0.025 LITERS	
% Dry					

50/65

NA = Not Applicable

METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	TRIP BLANK A05-3377 A5337715				
Sample Date	04/08/2005				
Received Date	04/09/2005 10:15				
Extraction Date					
Analysis Date	04/18/2005 12:43				
Extraction HT Met?	-				
Analytical HT Met?	YES				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	0.025 LITERS				
% Dry					

51/65

NA = Not Applicable

METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	MSB83 A05-3377 A5B0559901	msb81 A05-3377 A5B0551801	msb82 A05-3377 A5B0552901	msb84 A05-3377 A5B0560401	
Sample Date					
Received Date					
Extraction Date					
Analysis Date	04/19/2005 11:18	04/18/2005 11:01	04/18/2005 23:27	04/20/2005 00:13	
Extraction HT Met?	-	-	-	-	
Analytical HT Met?	-	-	-	-	
Sample Matrix	WATER	WATER	WATER	WATER	
Dilution Factor	1.0	1.0	1.0	1.0	
Sample wt/vol	0.025 LITERS	0.025 LITERS	0.025 LITERS	0.025 LITERS	
% Dry					

52/65

NA = Not Applicable

METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	VBLK83 A05-3377 A5B0559902	vblk81 A05-3377 A5B0551802	vblk82 A05-3377 A5B0552902	vblk84 A05-3377 A5B0560402	
Sample Date					
Received Date					
Extraction Date					
Analysis Date	04/19/2005 11:50	04/18/2005 11:36	04/19/2005 00:04	04/20/2005 00:44	
Extraction HT Met?	-	-	-	-	
Analytical HT Met?	-	-	-	-	
Sample Matrix	WATER	WATER	WATER	WATER	
Dilution Factor	1.0	1.0	1.0	1.0	
Sample Wt/vol	0.025 LITERS	0.025 LITERS	0.025 LITERS	0.025 LITERS	
% Dry					

53/65

NA = Not Applicable

ESC - 8270 - TCL SEMI-VOLATILE ORGANICS - W

Client Sample ID Job No & Lab Sample ID	MW-17-40 A05-3377 A5337705	MW-17-40 (1000) A05-3377 A5337706	MW-18A A05-3377 A5337713	MW-19A A05-3377 A5337711	MW-20B A05-3377 A5337701
Sample Date	04/07/2005 15:40	04/07/2005 16:00	04/08/2005 12:40	04/08/2005 10:55	04/07/2005 17:50
Received Date	04/09/2005 10:15	04/09/2005 10:15	04/09/2005 10:15	04/09/2005 10:15	04/09/2005 10:15
Extraction Date	04/13/2005 14:30	04/13/2005 14:30	04/13/2005 14:30	04/13/2005 14:30	04/13/2005 14:30
Analysis Date	04/15/2005 12:57	04/15/2005 13:23	04/15/2005 17:18	04/15/2005 16:26	04/15/2005 11:39
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	YES	YES	YES	YES	YES
Sample Matrix	WATER	WATER	WATER	WATER	WATER
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Sample wt/vol	0.97 LITERS	1.0 LITERS	1.04 LITERS	1.035 LITERS	0.96 LITERS
% Dry					

NA = Not Applicable

ESC - 8270 - TCL SEMI-VOLATILE ORGANICS - W

Client Sample ID Job No & Lab Sample ID	MW-21B A05-3377 A5337704	MW-22B A05-3377 A5337703	MW-23B A05-3377 A5337714	MW-24B A05-3377 A5337712	MW-25A A05-3377 A5337709
Sample Date	04/07/2005 19:20	04/07/2005 18:55	04/08/2005 16:00	04/08/2005 11:40	04/08/2005 09:20
Received Date	04/09/2005 10:15	04/09/2005 10:15	04/09/2005 10:15	04/09/2005 10:15	04/09/2005 10:15
Extraction Date	04/13/2005 14:30	04/13/2005 14:30	04/13/2005 14:30	04/13/2005 14:30	04/13/2005 14:30
Analysis Date	04/15/2005 12:05	04/15/2005 12:05	04/15/2005 17:44	04/15/2005 16:52	04/15/2005 15:34
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	YES	YES	YES	YES	YES
Sample Matrix	WATER	WATER	WATER	WATER	WATER
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Sample wt/vol	0.86 LITERS	0.85 LITERS	0.72 LITERS	1.045 LITERS	1.05 LITERS
% Dry					

55/65

NA = Not Applicable

ESC - 8270 - TCL SEMI-VOLATILE ORGANICS - W

Client Sample ID Job No & Lab Sample ID	MW-26A A05-3377 A5337710	MW-5-40 A05-3377 A5337707	MW-9-40 4-8 A05-3377 A5337708		
Sample Date	04/08/2005 10:00	04/07/2005 11:30	04/08/2005 08:15		
Received Date	04/09/2005 10:15	04/09/2005 10:15	04/09/2005 10:15		
Extraction Date	04/13/2005 14:30	04/13/2005 14:30	04/13/2005 14:30		
Analysis Date	04/15/2005 16:00	04/16/2005 10:47	04/15/2005 15:08		
Extraction HT Met?	YES	YES	YES		
Analytical HT Met?	YES	YES	YES		
Sample Matrix	WATER	WATER	WATER		
Dilution Factor	1.0	1.0	1.0		
Sample wt/vol	1.04 LITERS	1.045 LITERS	1.0 LITERS		
% Dry					

56/65

ESC - 8270 - TCL SEMI-VOLATILE ORGANICS - W

Client Sample ID Job No & Lab Sample ID	MW-17-40 (1000) A05-3377 A5337706MS	MW-17-40 (1000) A05-3377 A5337706SD	Matrix Spike Blank A05-3377 A5B0508801		
Sample Date	04/07/2005 16:00	04/07/2005 16:00			
Received Date	04/09/2005 10:15	04/09/2005 10:15			
Extraction Date	04/13/2005 14:30	04/13/2005 14:30	04/13/2005 14:30		
Analysis Date	04/15/2005 13:49	04/15/2005 14:15	04/15/2005 10:47		
Extraction HT Met?	YES	YES	-		
Analytical HT Met?	YES	YES	-		
Sample Matrix	WATER	WATER	WATER		
Dilution Factor	1.0	1.0	1.0		
Sample wt/vol	0.5 LITERS	0.5 LITERS	1.0 LITERS		
% Dry					

5/16/05

NA = Not Applicable

ESC - 8270 - TCL SEMI-VOLATILE ORGANICS - W

Client Sample ID Job No & Lab Sample ID	SBLK A05-3377 A5B0508802				
Sample Date					
Received Date					
Extraction Date	04/13/2005 14:30				
Analysis Date	04/15/2005 11:13				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	1.0 LITERS				
% Dry					

58/65

NA = Not Applicable

ESC - METHOD 8082 - POLYCHLORINATED BIPHENYLS - W

Client Sample ID Job No & Lab Sample ID	MW-17-40 A05-3377 A5337705	MW-17-40 (1000) A05-3377 A5337706	MW-18A A05-3377 A5337713	MW-19A A05-3377 A5337711	MW-20B A05-3377 A5337701
Sample Date	04/07/2005 15:40	04/07/2005 16:00	04/08/2005 12:40	04/08/2005 10:55	04/07/2005 17:50
Received Date	04/09/2005 10:15	04/09/2005 10:15	04/09/2005 10:15	04/09/2005 10:15	04/09/2005 10:15
Extraction Date	04/14/2005 07:00	04/14/2005 07:00	04/14/2005 07:00	04/14/2005 07:00	04/14/2005 07:00
Analysis Date	04/15/2005 12:48	04/15/2005 13:07	04/15/2005 15:49	04/15/2005 15:13	04/15/2005 11:18
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	YES	YES	YES	YES	YES
Sample Matrix	WATER	WATER	WATER	WATER	WATER
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Sample wt/vol	1.03 LITERS	1.035 LITERS	1.03 LITERS	1.04 LITERS	1.01 LITERS
% Dry					

59/65

NA = Not Applicable

ESC - METHOD 8082 - POLYCHLORINATED BIPHENYLS - W

Client Sample ID Job No & Lab Sample ID	MW-21B A05-3377 A5337704	MW-22B A05-3377 A5337703	MW-23B A05-3377 A5337714	MW-24B A05-3377 A5337712	MW-25A A05-3377 A5337709
Sample Date	04/07/2005 19:20	04/07/2005 18:55	04/08/2005 16:00	04/08/2005 11:40	04/08/2005 09:20
Received Date	04/09/2005 10:15	04/09/2005 10:15	04/09/2005 10:15	04/09/2005 10:15	04/09/2005 10:15
Extraction Date	04/14/2005 07:00	04/14/2005 07:00	04/14/2005 07:00	04/14/2005 07:00	04/14/2005 07:00
Analysis Date	04/15/2005 12:30	04/15/2005 11:36	04/15/2005 16:07	04/15/2005 15:32	04/15/2005 14:37
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	YES	YES	YES	YES	YES
Sample Matrix	WATER	WATER	WATER	WATER	WATER
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Sample wt/vol	0.87 LITERS	1.0 LITERS	0.94 LITERS	0.94 LITERS	1.055 LITERS
% Dry					

60/65

NA = Not Applicable

ESC - METHOD 8082 - POLYCHLORINATED BIPHENYLS - W

Client Sample ID Job No & Lab Sample ID	MW-26A A05-3377 A5337710	MW-5-40 A05-3377 A5337707	MW-9-40 4-8 A05-3377 A5337708		
Sample Date	04/08/2005 10:00	04/07/2005 11:30	04/08/2005 08:15		
Received Date	04/09/2005 10:15	04/09/2005 10:15	04/09/2005 10:15		
Extraction Date	04/14/2005 07:00	04/14/2005 07:00	04/14/2005 07:00		
Analysis Date	04/15/2005 14:55	04/15/2005 13:25	04/15/2005 14:19		
Extraction HT Met?	YES	YES	YES		
Analytical HT Met?	YES	YES	YES		
Sample Matrix	WATER	WATER	WATER		
Dilution Factor	1.0	1.0	1.0		
Sample wt/vol	1.03 LITERS	1.05 LITERS	1.0 LITERS		
% Dry					

61/65

NA = Not Applicable

ESC - METHOD 8082 - POLYCHLORINATED BIPHENYLS - W

Client Sample ID Job No & Lab Sample ID	MW-22B A05-3377 A5337703MS	MW-22B A05-3377 A5337703SD	Matrix Spike Blank A05-3377 A5B0508901		
Sample Date	04/07/2005 18:55	04/07/2005 18:55			
Received Date	04/09/2005 10:15	04/09/2005 10:15			
Extraction Date	04/14/2005 07:00	04/14/2005 07:00	04/14/2005 07:00		
Analysis Date	04/15/2005 11:54	04/15/2005 12:12	04/15/2005 10:42		
Extraction HT Met?	YES	YES	-		
Analytical HT Met?	YES	YES	-		
Sample Matrix	WATER	WATER	WATER		
Dilution Factor	1.0	1.0	1.0		
Sample wt/vol	0.5 LITERS	0.5 LITERS	1.0 LITERS		
% Dry					

62/65

NA = Not Applicable

ESC - METHOD 8082 - POLYCHLORINATED BIPHENYLS - W

Client Sample ID Job No & Lab Sample ID	Method Blank A05-3377 A5B0508902				
Sample Date					
Received Date					
Extraction Date	04/14/2005 07:00				
Analysis Date	04/15/2005 11:00				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	1.0 LITERS				
% Dry					

NA = Not Applicable

Chain of Custody

CHAIN OF CUSTODY RECORD

No. 029153

Project Number:	Site and Location:
127491.	EPT-Ithaca, Ithaca, NY

Sampler's Name(s): Erik Reinert Brian Nicklen Tim Huff

Sampler's Signature(s): Erik Reinert Tim Huff

Matrices: S = Soil; Aq = Water; A = Air; Bu = Bulk; W = Wipe; Bi = Biota; OW = Oily Waste; O = Other

Requested Analyses: VOCs by EPA 8260; SVOCs by EPA 8270; PCBs by EPA 8082

Sample Identification:	Date	Time	Matrix	Number of Containers	VOCs by EPA 8260	SVOCs by EPA 8270	PCBs by EPA 8082	Remarks
MW-20B	040705	1750	water		3	2	2	
MW-9-40	040705	1815	water		3			Changed to MW-9-100 at the client's request (CLF 4/22/05)
MW-22B	040705	1855	water		3	2	2	
MW-21B	040705	1920	water		3	2 TH 1	1	
MW-17-40	040705	1540	water		3	2	2	
MW-17-40 (1000)	040705	1600	water		3	2	2	
MW-5-40	040705	1130	water		3	2	2	
MW-9-40	040805	0815	water			2	1	
MW-25A	040805	0920	water		3	2	2	
~~MW-19A~~ (DUP) MW-26A	040805	1000	water		3	2	2	
MW-19A	040805	1055	water		3	2	2	
MW-24B	040805	1140	water		3	2	2	
MW-18A	040805	1240	water		3	2	2	
MW-23B	040805	1600	water		3	1	1	

Relinquished by (Signature):	Date / Time	Received by (Signature):	Laboratory Name:
Tim Huff	040805 1630		STL-Buffalo
Relinquished by (Signature):	Date / Time	Received by (Signature): 040905 0910	Laboratory Location: Buffalo, NY
			Custody Seal Numbers: 14548 - 14555 & 14390-14391
Turn-Around Time: 2 weeks		Tracking Number: 8511 6805 5936	Method of Shipment: Fedex

ENVIRONMENTAL STRATEGIES CORPORATION
MANAGING THE BUSINESS OF THE ENVIRONMENT

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☐ Pittsburgh Office: 300 Corporate Center Dr, # 200, Moon Twp, PA 15108
Tel: (412) 604-1040, Fax: (412) 604-1055
☐ Denver Office: 4600 South Ulster, # 930, Denver, CO 80237
Tel: (303) 850-9200, Fax: (303) 850-9214
☐ Minneapolis Office: 123 North 3rd St, #706, Minneapolis, MN 55401
Tel: (612) 343-0510, Fax: (612) 343-0506

65/65

ANALYTICAL REPORT

Job#: A05-5142

STL Project#: NY4A9171
Site Name: Environmental Strategies Corporation
Task: Ithaca Site

Mr. Brian Silfer
Environmental Strategies Corp.
5 Sullivan Street
Cazenovia, NY 13035

STL Buffalo

Candace L. Fox
Project Manager

06/06/2005

STL Buffalo
Current Certifications

STATE	Program	Cert # / Lab ID
Arkansas	SDWA, CWA, RCRA, SOIL	03-054-D/88-0686
California	NELAP SDWA, CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida	NELAP RCRA	E87672
Georgia	SDWA	956
Illinois	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	CWA, RCRA	036-999-337
New Hampshire	NELAP SDWA, CWA	233701
New Jersey	SDWA, CWA, RCRA, CLP	NY455
New York	NELAP, AIR, SDWA, CWA, RCRA	10026
North Carolina	CWA	411
North Dakota	SDWA, CWA, RCRA	R-176
Oklahoma	CWA, RCRA	9421
Pennsylvania	Env. Lab Reg.	68-281
South Carolina	RCRA	91013
USDA	FOREIGN SOIL PERMIT	S-41579
Virginia	SDWA	278
Washington	CWA	C254
West Virginia	CWA	252
Wisconsin	CWA	998310390

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A5514203	MW-7 40	WATER	05/19/2005	14:00	05/20/2005	10:00
A5514204	MW-8 40	WATER	05/19/2005	15:00	05/20/2005	10:00
A5514201	SW-01	WATER	05/19/2005	12:30	05/20/2005	10:00
A5514202	SW-01 100	WATER	05/19/2005	13:15	05/20/2005	10:00
A5514205	TRIP BLANK	WATER	05/19/2005		05/20/2005	10:00

METHODS SUMMARY

Job#: A05-5142

STL Project#: NY4A9171
Site Name: Environmental Strategies Corporation

PARAMETER	ANALYTICAL METHOD
METHOD 8260 - TCL VOLATILE ORGANICS	SW8463 8260
ESC - 8270 - TCL SEMI-VOLATILE ORGANICS - W	SW8463 8270
ESC - METHOD 8082 - POLYCHLORINATED BIPHENYLS - W	SW8463 8082

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

NON-CONFORMANCE SUMMARY

Job#: A05-5142

STL Project#: NY4A9171
Site Name: Environmental Strategies Corporation

General Comments

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A05-5142
Sample Cooler(s) were received at the following temperature(s); 2@2.0 °C
All samples were received in good condition.

GC/MS Volatile Data

The spike recovery of the analytes 1,1-Dichloroethene, Benzene, and Trichloroethene in the Matrix Spike and the analytes 1,1-Dichloroethene and Trichloroethene in the Matrix Spike Duplicate of sample MW-7 40 exceeded quality control limits. The Matrix Spike Blank recoveries were compliant, so no corrective action is required.

GC/MS Semivolatile Data

No deviations from protocol were encountered during the analytical procedures.

GC Extractable Data

For method 8082, the recovery of surrogate Decachlorobiphenyl in sample MW-7 40 is outside of established quality control limits due to the sample matrix. The recovery of surrogate Tetrachloro-m-xylene is within quality control limits; no corrective action is required.

****

Client Sample ID	Lab Sample ID	Parameter (Inorganic)/Method (Organic)	Dilution	Code
MW-7 40	A5514203DL	8260	5.00	008
MW-7 40	A5514203MS	8260	5.00	008
MW-7 40	A5514203SD	8260	5.00	008

Dilution Code Definition:

002 - sample matrix effects
003 - excessive foaming
004 - high levels of non-target compounds
005 - sample matrix resulted in method non-compliance for an Internal Standard
006 - sample matrix resulted in method non-compliance for Surrogate
007 - nature of the TCLP matrix
008 - high concentration of target analyte(s)
009 - sample turbidity
010 - sample color
011 - insufficient volume for lower dilution
012 - sample viscosity
013 - other

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected at or above the reporting limit.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
1	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected at or above the reporting limit.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
K	Indicates the post digestion spike recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
M	Indicates duplicate injection results exceeded quality control limits.
W	Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
*	Indicates analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Date: 06/06/2005
Time: 13:42:25

Environmental Strategies Corporation
Ithaca Site
METHOD 8260 - TCL VOLATILE ORGANICS

Rept: AN0326

Client ID		MW-7 40		MW-7 40		MW-8 40		SW-01	
Job No	Lab ID	A05-5142	A5514203	A05-5142	A5514203DL	A05-5142	A5514204	A05-5142	A5514201
Sample Date		05/19/2005		05/19/2005		05/19/2005		05/19/2005	

Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	5.0	ND	25	ND	5.0	ND	5.0
Benzene	UG/L	ND	1.0	ND	5.0	ND	1.0	ND	1.0
Bromodichloromethane	UG/L	ND	1.0	ND	5.0	ND	1.0	ND	1.0
Bromoform	UG/L	ND	1.0	ND	5.0	ND	1.0	ND	1.0
Bromomethane	UG/L	ND	1.0	ND	5.0	ND	1.0	ND	1.0
2-Butanone	UG/L	ND	5.0	ND	25	ND	5.0	ND	5.0
Carbon Disulfide	UG/L	ND	1.0	ND	5.0	ND	1.0	ND	1.0
Carbon Tetrachloride	UG/L	ND	1.0	ND	5.0	ND	1.0	ND	1.0
Chlorobenzene	UG/L	ND	1.0	ND	5.0	ND	1.0	ND	1.0
Chloroethane	UG/L	ND	1.0	ND	5.0	ND	1.0	ND	1.0
Chloroform	UG/L	ND	1.0	ND	5.0	ND	1.0	ND	1.0
Chloromethane	UG/L	ND	1.0	ND	5.0	ND	1.0	ND	1.0
Cyclohexane	UG/L	ND	1.0	ND	5.0	ND	1.0	ND	1.0
1,2-Dibromoethane	UG/L	ND	1.0	ND	5.0	ND	1.0	ND	1.0
Dibromochloromethane	UG/L	ND	1.0	ND	5.0	ND	1.0	ND	1.0
1,2-Dibromo-3-chloropropane	UG/L	ND	1.0	ND	5.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	UG/L	ND	1.0	ND	5.0	ND	1.0	ND	1.0
1,3-Dichlorobenzene	UG/L	ND	1.0	ND	5.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	UG/L	ND	1.0	ND	5.0	ND	1.0	ND	1.0
Dichlorodifluoromethane	UG/L	ND	1.0	ND	5.0	ND	1.0	ND	1.0
1,1-Dichloroethane	UG/L	ND	1.0	ND	5.0	ND	1.0	ND	1.0
1,2-Dichloroethane	UG/L	ND	1.0	ND	5.0	ND	1.0	ND	1.0
1,1-Dichloroethene	UG/L	ND	1.0	ND	5.0	ND	1.0	ND	1.0
cis-1,2-Dichloroethene	UG/L	100 E	1.0	120 D	5.0	ND	1.0	5.5	1.0
trans-1,2-Dichloroethene	UG/L	3.3	1.0	ND	5.0	ND	1.0	ND	1.0
1,2-Dichloropropane	UG/L	ND	1.0	ND	5.0	ND	1.0	ND	1.0
cis-1,3-Dichloropropene	UG/L	ND	1.0	ND	5.0	ND	1.0	ND	1.0
trans-1,3-Dichloropropene	UG/L	ND	1.0	ND	5.0	ND	1.0	ND	1.0
Ethylbenzene	UG/L	ND	1.0	ND	5.0	ND	1.0	ND	1.0
2-Hexanone	UG/L	ND	5.0	ND	25	ND	5.0	ND	5.0
Isopropylbenzene	UG/L	ND	1.0	ND	5.0	ND	1.0	ND	1.0
Methyl acetate	UG/L	ND	1.0	ND	5.0	ND	1.0	ND	1.0
Methylcyclohexane	UG/L	ND	1.0	ND	5.0	ND	1.0	ND	1.0
Methylene chloride	UG/L	ND	1.0	ND	5.0	ND	1.0	ND	1.0
4-Methyl-2-pentanone	UG/L	ND	5.0	ND	25	ND	5.0	ND	5.0
Methyl-t-Butyl Ether (MTBE)	UG/L	ND	1.0	ND	5.0	ND	1.0	ND	1.0
Styrene	UG/L	ND	1.0	ND	5.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	UG/L	ND	1.0	ND	5.0	ND	1.0	ND	1.0
Tetrachloroethene	UG/L	ND	1.0	ND	5.0	ND	1.0	ND	1.0
Toluene	UG/L	ND	1.0	ND	5.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	UG/L	ND	1.0	ND	5.0	ND	1.0	ND	1.0
1,1,1-Trichloroethane	UG/L	ND	1.0	ND	5.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	UG/L	ND	1.0	ND	5.0	ND	1.0	ND	1.0

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 06/06/2005
Time: 13:42:25

Environmental Strategies Corporation
Ithaca Site
METHOD 8260 - TCL VOLATILE ORGANICS

Rept: AN0326

Client ID		MW-7 40		MW-7 40		MW-8 40		SW-01	
Job No	Lab ID	A05-5142	A5514203	A05-5142	A5514203DL	A05-5142	A5514204	A05-5142	A5514201
Sample Date		05/19/2005		05/19/2005		05/19/2005		05/19/2005	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	1.0	ND	5.0	ND	1.0	ND	1.0
Trichlorofluoromethane	UG/L	ND	1.0	ND	5.0	ND	1.0	ND	1.0
Trichloroethene	UG/L	ND	1.0	ND	5.0	ND	1.0	ND	1.0
Vinyl chloride	UG/L	35	1.0	49 D	5.0	ND	1.0	ND	1.0
Total Xylenes	UG/L	ND	3.0	ND	15	ND	3.0	ND	3.0
======IS/SURROGATE(S)=									
Chlorobenzene-D5	%	89	50-200	83	50-200	90	50-200	89	50-200
1,4-Difluorobenzene	%	90	50-200	82	50-200	88	50-200	90	50-200
1,4-Dichlorobenzene-D4	%	81	50-200	76	50-200	84	50-200	81	50-200
Toluene-D8	%	98	76-116	101	76-116	101	76-116	103	76-116
p-Bromofluorobenzene	%	97	73-117	96	73-117	97	73-117	96	73-117
1,2-Dichloroethane-D4	%	109	72-143	111	72-143	109	72-143	109	72-143

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NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 06/06/2005
Time: 13:42:25

Environmental Strategies Corporation
Ithaca Site
METHOD 8260 - TCL VOLATILE ORGANICS

Rept: AN0326

Client ID		SW-01 100							
Job No	Lab ID	A05-5142	A5514202						
Sample Date		05/19/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	5.0	NA		NA		NA	
Benzene	UG/L	ND	1.0	NA		NA		NA	
Bromodichloromethane	UG/L	ND	1.0	NA		NA		NA	
Bromoform	UG/L	ND	1.0	NA		NA		NA	
Bromomethane	UG/L	ND	1.0	NA		NA		NA	
2-Butanone	UG/L	ND	5.0	NA		NA		NA	
Carbon Disulfide	UG/L	ND	1.0	NA		NA		NA	
Carbon Tetrachloride	UG/L	ND	1.0	NA		NA		NA	
Chlorobenzene	UG/L	ND	1.0	NA		NA		NA	
Chloroethane	UG/L	ND	1.0	NA		NA		NA	
Chloroform	UG/L	ND	1.0	NA		NA		NA	
Chloromethane	UG/L	ND	1.0	NA		NA		NA	
Cyclohexane	UG/L	ND	1.0	NA		NA		NA	
1,2-Dibromoethane	UG/L	ND	1.0	NA		NA		NA	
Dibromochloromethane	UG/L	ND	1.0	NA		NA		NA	
1,2-Dibromo-3-chloropropane	UG/L	ND	1.0	NA		NA		NA	
1,2-Dichlorobenzene	UG/L	ND	1.0	NA		NA		NA	
1,3-Dichlorobenzene	UG/L	ND	1.0	NA		NA		NA	
1,4-Dichlorobenzene	UG/L	ND	1.0	NA		NA		NA	
Dichlorodifluoromethane	UG/L	ND	1.0	NA		NA		NA	
1,1-Dichloroethane	UG/L	ND	1.0	NA		NA		NA	
1,2-Dichloroethane	UG/L	ND	1.0	NA		NA		NA	
1,1-Dichloroethene	UG/L	ND	1.0	NA		NA		NA	
cis-1,2-Dichloroethene	UG/L	5.5	1.0	NA		NA		NA	
trans-1,2-Dichloroethene	UG/L	ND	1.0	NA		NA		NA	
1,2-Dichloropropane	UG/L	ND	1.0	NA		NA		NA	
cis-1,3-Dichloropropene	UG/L	ND	1.0	NA		NA		NA	
trans-1,3-Dichloropropene	UG/L	ND	1.0	NA		NA		NA	
Ethylbenzene	UG/L	ND	1.0	NA		NA		NA	
2-Hexanone	UG/L	ND	5.0	NA		NA		NA	
Isopropylbenzene	UG/L	ND	1.0	NA		NA		NA	
Methyl acetate	UG/L	ND	1.0	NA		NA		NA	
Methylcyclohexane	UG/L	ND	1.0	NA		NA		NA	
Methylene chloride	UG/L	ND	1.0	NA		NA		NA	
4-Methyl-2-pentanone	UG/L	ND	5.0	NA		NA		NA	
Methyl-t-Butyl Ether (MTBE)	UG/L	ND	1.0	NA		NA		NA	
Styrene	UG/L	ND	1.0	NA		NA		NA	
1,1,2,2-Tetrachloroethane	UG/L	ND	1.0	NA		NA		NA	
Tetrachloroethene	UG/L	ND	1.0	NA		NA		NA	
Toluene	UG/L	ND	1.0	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/L	ND	1.0	NA		NA		NA	
1,1,1-Trichloroethane	UG/L	ND	1.0	NA		NA		NA	
1,1,2-Trichloroethane	UG/L	ND	1.0	NA		NA		NA	

10/47

NA = Not Applicable ND = Not Detected

STL Buffalo

Client ID		SW-01 100							
Job No	Lab ID	A05-5142	A5514202						
Sample Date		05/19/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	1.0	NA		NA		NA	
Trichlorofluoromethane	UG/L	ND	1.0	NA		NA		NA	
Trichloroethene	UG/L	ND	1.0	NA		NA		NA	
Vinyl chloride	UG/L	ND	1.0	NA		NA		NA	
Total Xylenes	UG/L	ND	3.0	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	95	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	96	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	84	50-200	NA		NA		NA	
Toluene-D8	%	104	76-116	NA		NA		NA	
p-Bromofluorobenzene	%	96	73-117	NA		NA		NA	
1,2-Dichloroethane-D4	%	111	72-143	NA		NA		NA	

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NA = Not Applicable ND = Not Detected

Client ID		MW-7 40		SW-01		SW-01 100			
Job No	Lab ID	A05-5142	A5514203	A05-5142	A5514201	A05-5142	A5514202		
Sample Date		05/19/2005		05/19/2005		05/19/2005			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/L	ND	22	ND	10	ND	10	NA	
Acenaphthylene	UG/L	ND	22	ND	10	ND	10	NA	
Acetophenone	UG/L	ND	22	ND	10	ND	10	NA	
Anthracene	UG/L	ND	22	ND	10	ND	10	NA	
Atrazine	UG/L	ND	22	ND	10	ND	10	NA	
Benzaldehyde	UG/L	ND	110	ND	48	ND	48	NA	
Benzo(a)anthracene	UG/L	ND	22	ND	10	ND	10	NA	
Benzo(b)fluoranthene	UG/L	ND	22	ND	10	ND	10	NA	
Benzo(k)fluoranthene	UG/L	ND	22	ND	10	ND	10	NA	
Benzo(ghi)perylene	UG/L	ND	22	ND	10	ND	10	NA	
Benzo(a)pyrene	UG/L	ND	22	ND	10	ND	10	NA	
Benzoic acid	UG/L	ND	330	ND	140	ND	140	NA	
Benzyl alcohol	UG/L	ND	43	ND	19	ND	19	NA	
Biphenyl	UG/L	ND	22	ND	10	ND	10	NA	
Bis(2-chloroethoxy) methane	UG/L	ND	22	ND	10	ND	10	NA	
Bis(2-chloroethyl) ether	UG/L	ND	22	ND	10	ND	10	NA	
2,2'-Oxybis(1-Chloropropane)	UG/L	ND	22	ND	10	ND	10	NA	
Bis(2-ethylhexyl) phthalate	UG/L	ND	22	ND	10	ND	10	NA	
4-Bromophenyl phenyl ether	UG/L	ND	22	ND	10	ND	10	NA	
Butyl benzyl phthalate	UG/L	ND	22	ND	10	ND	10	NA	
4-Chloroaniline	UG/L	ND	22	ND	10	ND	10	NA	
4-Chloro-3-methylphenol	UG/L	ND	22	ND	10	ND	10	NA	
2-Chloronaphthalene	UG/L	ND	22	ND	10	ND	10	NA	
2-Chlorophenol	UG/L	ND	22	ND	10	ND	10	NA	
4-Chlorophenyl phenyl ether	UG/L	ND	22	ND	10	ND	10	NA	
Caprolactam	UG/L	ND	22	ND	10	ND	10	NA	
Chrysene	UG/L	ND	22	ND	10	ND	10	NA	
Dibenzo(a,h)anthracene	UG/L	ND	22	ND	10	ND	10	NA	
Dibenzofuran	UG/L	ND	22	ND	10	ND	10	NA	
Di-n-butyl phthalate	UG/L	ND	22	ND	10	ND	10	NA	
1,2-Dichlorobenzene	UG/L	ND	22	ND	10	ND	10	NA	
1,3-Dichlorobenzene	UG/L	ND	22	ND	10	ND	10	NA	
1,4-Dichlorobenzene	UG/L	ND	22	ND	10	ND	10	NA	
3,3'-Dichlorobenzidine	UG/L	ND	43	ND	19	ND	19	NA	
2,4-Dichlorophenol	UG/L	ND	22	ND	10	ND	10	NA	
Diethyl phthalate	UG/L	ND	22	ND	10	ND	10	NA	
2,4-Dimethylphenol	UG/L	ND	22	ND	10	ND	10	NA	
Dimethyl phthalate	UG/L	ND	22	ND	10	ND	10	NA	
4,6-Dinitro-2-methylphenol	UG/L	ND	110	ND	48	ND	48	NA	
2,4-Dinitrophenol	UG/L	ND	110	ND	48	ND	48	NA	
2,4-Dinitrotoluene	UG/L	ND	22	ND	10	ND	10	NA	
2,6-Dinitrotoluene	UG/L	ND	22	ND	10	ND	10	NA	
Di-n-octyl phthalate	UG/L	ND	22	ND	10	ND	10	NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		MW-7 40 A05-5142 A5514203 05/19/2005		SW-01 A05-5142 A5514201 05/19/2005		SW-01 100 A05-5142 A5514202 05/19/2005			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Fluoranthene	UG/L	ND	22	ND	10	ND	10	NA	
Fluorene	UG/L	ND	22	ND	10	ND	10	NA	
Hexachlorobenzene	UG/L	ND	22	ND	10	ND	10	NA	
Hexachlorobutadiene	UG/L	ND	22	ND	10	ND	10	NA	
Hexachlorocyclopentadiene	UG/L	ND	98	ND	43	ND	43	NA	
Hexachloroethane	UG/L	ND	22	ND	10	ND	10	NA	
Indeno(1,2,3-cd)pyrene	UG/L	ND	22	ND	10	ND	10	NA	
Isophorone	UG/L	ND	22	ND	10	ND	10	NA	
2-Methylnaphthalene	UG/L	ND	22	ND	10	ND	10	NA	
2-Methylphenol	UG/L	ND	22	ND	10	ND	10	NA	
4-Methylphenol	UG/L	ND	22	ND	10	ND	10	NA	
Naphthalene	UG/L	ND	22	ND	10	ND	10	NA	
2-Nitroaniline	UG/L	ND	110	ND	48	ND	48	NA	
3-Nitroaniline	UG/L	ND	110	ND	48	ND	48	NA	
4-Nitroaniline	UG/L	ND	110	ND	48	ND	48	NA	
Nitrobenzene	UG/L	ND	22	ND	10	ND	10	NA	
2-Nitrophenol	UG/L	ND	22	ND	10	ND	10	NA	
4-Nitrophenol	UG/L	ND	110	ND	48	ND	48	NA	
N-nitrosodiphenylamine	UG/L	ND	22	ND	10	ND	10	NA	
N-Nitroso-Di-n-propylamine	UG/L	ND	22	ND	10	ND	10	NA	
Pentachlorophenol	UG/L	ND	110	ND	48	ND	48	NA	
Phenanthrene	UG/L	ND	22	ND	10	ND	10	NA	
Phenol	UG/L	ND	22	ND	10	ND	10	NA	
Pyrene	UG/L	ND	22	ND	10	ND	10	NA	
1,2,4-Trichlorobenzene	UG/L	ND	22	ND	10	ND	10	NA	
2,4,5-Trichlorophenol	UG/L	ND	22	ND	10	ND	10	NA	
2,4,6-Trichlorophenol	UG/L	ND	22	ND	10	ND	10	NA	
==========IS/SURROGATE(S)==========									
1,4-Dichlorobenzene-D4	%	95	50-200	96	50-200	94	50-200	NA	
Naphthalene-D8	%	93	50-200	96	50-200	92	50-200	NA	
Acenaphthene-D10	%	92	50-200	96	50-200	90	50-200	NA	
Phenanthrene-D10	%	95	50-200	97	50-200	92	50-200	NA	
Chrysene-D12	%	94	50-200	97	50-200	93	50-200	NA	
Perylene-D12	%	99	50-200	99	50-200	92	50-200	NA	
Nitrobenzene-D5	%	71	52-120	83	52-120	84	52-120	NA	
2-Fluorobiphenyl	%	70	21-120	86	21-120	87	21-120	NA	
p-Terphenyl-d14	%	40	36-138	88	36-138	87	36-138	NA	
Phenol-D5	%	65	13-120	32	13-120	28	13-120	NA	
2-Fluorophenol	%	62	21-120	47	21-120	44	21-120	NA	
2,4,6-Tribromophenol	%	90	62-133	108	62-133	106	62-133	NA	

NA = Not Applicable ND = Not Detected

Date: 06/06/2005
Time: 13:42:41

Environmental Strategies Corporation
Ithaca Site
ESC - METHOD 8082 - POLYCHLORINATED BIPHENYLS - W

Rept: AN0326

Client ID		MW-7 40		SW-01		SW-01 100			
Job No	Lab ID	A05-5142	A5514203	A05-5142	A5514201	A05-5142	A5514202		
Sample Date		05/19/2005		05/19/2005		05/19/2005			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/L	ND	0.50	ND	0.50	ND	0.48	NA	
Aroclor 1221	UG/L	ND	0.50	ND	0.50	ND	0.48	NA	
Aroclor 1232	UG/L	ND	0.50	ND	0.50	ND	0.48	NA	
Aroclor 1242	UG/L	ND	0.50	ND	0.50	ND	0.48	NA	
Aroclor 1248	UG/L	ND	0.50	ND	0.50	ND	0.48	NA	
Aroclor 1254	UG/L	ND	0.50	ND	0.50	ND	0.48	NA	
Aroclor 1260	UG/L	ND	0.50	ND	0.50	ND	0.48	NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	51	36-132	76	36-132	83	36-132	NA	
Decachlorobiphenyl	%	19 *	28-132	65	28-132	74	28-132	NA	

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NA = Not Applicable ND = Not Detected

STL Buffalo

Batch Quality Control Data

Date: 06/06/2005 13:42:06
Batch No: A5B07568

MS/MSD Batch QC Results

Rept: AN1392

Lab Sample ID: A5512103 A5512103MS A5512103SD

Analyte	Units of Measure	Concentration Sample	Matrix Spike	Spike Duplicate	Spike Amount MS	Spike Amount MSD	% Recovery MS	% Recovery MSD	% Recovery Avg	% RPD	QC LIMITS RPD	QC LIMITS REC.
METHOD 8270 - SEMI-VOLATILE ORGANICS												
4-Chloro-3-methylphenol	UG/L	0	78.9	80.4	181	181	43 *	44 *	44	2	27.0	54-131
2-Chlorophenol	UG/L	0	130	134	181	181	72	74	73	3	25.0	42-120
2,4-Dichlorophenol	UG/L	0	147	154	181	181	81	85	83	5	19.0	63-120
2,4-Dimethylphenol	UG/L	0	0	0	181	181	0 *	0 *	0	0	42.0	55-122
4,6-Dinitro-2-methylphenol	UG/L	0	170	167	181	181	94	92	93	2	15.0	62-140
2,4-Dinitrophenol	UG/L	0	169	173	181	181	93	95	94	2	22.0	43-133
2-Nitrophenol	UG/L	0	189	197	181	181	104	108	106	4	18.0	56-120
4-Nitrophenol	UG/L	0	131	131	181	181	72	72	72	0	48.0	11-120
Pentachlorophenol	UG/L	0	167	160	181	181	92	88	90	4	37.0	33-143
Phenol	UG/L	0	55.5	60.8	181	181	30	33	32	10	34.0	16-120
2,4,6-Trichlorophenol	UG/L	0	180	185	181	181	99	102	101	3	19.0	52-124

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* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

STL Buffalo

Date: 06/06/2005 13:42:06
Batch No: A5B07593

MS/MSD Batch QC Results

Rept: AN1392

Lab Sample ID: A5514201 A5514201MS A5514201SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS RPD	QC LIMITS REC.
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg			
ESC - METHOD 8082 - POLYCHLORINATED BIPH												
Aroclor 1260	UG/L	0	9.07	8.85	9.25	9.25	98	96	97	2	30.0	50-122
Aroclor 1016	UG/L	0	8.68	8.44	9.25	9.25	94	91	93	3	30.0	29-123

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Chronology and QC Summary Package

Date: 06/06/2005
Time: 13:42:55

Environmental Strategies Corporation
Ithaca Site
METHOD 8260 - TCL VOLATILE ORGANICS

Rept: AN0326

Client ID		vblk65		vblk66					
Job No	Lab ID	A05-5142	A5B0801402	A05-5142	A5B0813402				
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	5.0	ND	5.0	NA		NA	
Benzene	UG/L	ND	1.0	ND	1.0	NA		NA	
Bromodichloromethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Bromoform	UG/L	ND	1.0	ND	1.0	NA		NA	
Bromomethane	UG/L	ND	1.0	ND	1.0	NA		NA	
2-Butanone	UG/L	ND	5.0	ND	5.0	NA		NA	
Carbon Disulfide	UG/L	ND	1.0	ND	1.0	NA		NA	
Carbon Tetrachloride	UG/L	ND	1.0	ND	1.0	NA		NA	
Chlorobenzene	UG/L	ND	1.0	ND	1.0	NA		NA	
Chloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Chloroform	UG/L	ND	1.0	ND	1.0	NA		NA	
Chloromethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Cyclohexane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,2-Dibromoethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Dibromochloromethane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,2-Dibromo-3-chloropropane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,2-Dichlorobenzene	UG/L	ND	1.0	ND	1.0	NA		NA	
1,3-Dichlorobenzene	UG/L	ND	1.0	ND	1.0	NA		NA	
1,4-Dichlorobenzene	UG/L	ND	1.0	ND	1.0	NA		NA	
Dichlorodifluoromethane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,1-Dichloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,2-Dichloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,1-Dichloroethene	UG/L	ND	1.0	ND	1.0	NA		NA	
cis-1,2-Dichloroethene	UG/L	ND	1.0	ND	1.0	NA		NA	
trans-1,2-Dichloroethene	UG/L	ND	1.0	ND	1.0	NA		NA	
1,2-Dichloropropane	UG/L	ND	1.0	ND	1.0	NA		NA	
cis-1,3-Dichloropropene	UG/L	ND	1.0	ND	1.0	NA		NA	
trans-1,3-Dichloropropene	UG/L	ND	1.0	ND	1.0	NA		NA	
Ethylbenzene	UG/L	ND	1.0	ND	1.0	NA		NA	
2-Hexanone	UG/L	ND	5.0	ND	5.0	NA		NA	
Isopropylbenzene	UG/L	ND	1.0	ND	1.0	NA		NA	
Methyl acetate	UG/L	ND	1.0	ND	1.0	NA		NA	
Methylcyclohexane	UG/L	ND	1.0	ND	1.0	NA		NA	
Methylene chloride	UG/L	ND	1.0	ND	1.0	NA		NA	
4-Methyl-2-pentanone	UG/L	ND	5.0	ND	5.0	NA		NA	
Methyl-t-Butyl Ether (MTBE)	UG/L	ND	1.0	ND	1.0	NA		NA	
Styrene	UG/L	ND	1.0	ND	1.0	NA		NA	
1,1,2,2-Tetrachloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Tetrachloroethene	UG/L	ND	1.0	ND	1.0	NA		NA	
Toluene	UG/L	ND	1.0	ND	1.0	NA		NA	
1,2,4-Trichlorobenzene	UG/L	ND	1.0	ND	1.0	NA		NA	
1,1,1-Trichloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,1,2-Trichloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

Client ID Job No Lab ID Sample Date		vblk65 A05-5142 A5B0801402		vblk66 A05-5142 A5B0813402					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	1.0	ND	1.0	NA		NA	
Trichlorofluoromethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Trichloroethene	UG/L	ND	1.0	ND	1.0	NA		NA	
Vinyl chloride	UG/L	ND	1.0	ND	1.0	NA		NA	
Total Xylenes	UG/L	ND	3.0	ND	3.0	NA		NA	
=====IS/SURROGATE(S)=====									
Chlorobenzene-D5	%	102	50-200	95	50-200	NA		NA	
1,4-Difluorobenzene	%	104	50-200	94	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	88	50-200	83	50-200	NA		NA	
Toluene-D8	%	106	76-116	106	76-116	NA		NA	
p-Bromofluorobenzene	%	96	73-117	97	73-117	NA		NA	
1,2-Dichloroethane-D4	%	110	72-143	110	72-143	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		MW-7 40 A05-5142 05/19/2005 A5514203MS		MW-7 40 A05-5142 05/19/2005 A5514203SD		msb65 A05-5142 A5B0801401		msb66 A05-5142 A5B0813401	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	25	ND	25	ND	5.0	ND	5.0
Benzene	UG/L	64	5.0	63	5.0	11	1.0	9.5	1.0
Bromodichloromethane	UG/L	ND	5.0	ND	5.0	ND	1.0	ND	1.0
Bromoform	UG/L	ND	5.0	ND	5.0	ND	1.0	ND	1.0
Bromomethane	UG/L	ND	5.0	ND	5.0	ND	1.0	ND	1.0
2-Butanone	UG/L	ND	25	ND	25	ND	5.0	ND	5.0
Carbon Disulfide	UG/L	ND	5.0	ND	5.0	ND	1.0	ND	1.0
Carbon Tetrachloride	UG/L	ND	5.0	ND	5.0	ND	1.0	ND	1.0
Chlorobenzene	UG/L	59	5.0	58	5.0	11	1.0	8.9	1.0
Chloroethane	UG/L	ND	5.0	ND	5.0	ND	1.0	ND	1.0
Chloroform	UG/L	ND	5.0	ND	5.0	ND	1.0	ND	1.0
Chloromethane	UG/L	ND	5.0	ND	5.0	ND	1.0	ND	1.0
Cyclohexane	UG/L	ND	5.0	ND	5.0	ND	1.0	ND	1.0
1,2-Dibromoethane	UG/L	ND	5.0	ND	5.0	ND	1.0	ND	1.0
Dibromochloromethane	UG/L	ND	5.0	ND	5.0	ND	1.0	ND	1.0
1,2-Dibromo-3-chloropropane	UG/L	ND	5.0	ND	5.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	UG/L	ND	5.0	ND	5.0	ND	1.0	ND	1.0
1,3-Dichlorobenzene	UG/L	ND	5.0	ND	5.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	UG/L	ND	5.0	ND	5.0	ND	1.0	ND	1.0
Dichlorodifluoromethane	UG/L	ND	5.0	ND	5.0	ND	1.0	ND	1.0
1,1-Dichloroethane	UG/L	ND	5.0	ND	5.0	ND	1.0	ND	1.0
1,2-Dichloroethane	UG/L	ND	5.0	ND	5.0	ND	1.0	ND	1.0
1,1-Dichloroethene	UG/L	78	5.0	75	5.0	13	1.0	11	1.0
cis-1,2-Dichloroethene	UG/L	100	5.0	98	5.0	ND	1.0	ND	1.0
trans-1,2-Dichloroethene	UG/L	ND	5.0	ND	5.0	ND	1.0	ND	1.0
1,2-Dichloropropane	UG/L	ND	5.0	ND	5.0	ND	1.0	ND	1.0
cis-1,3-Dichloropropene	UG/L	ND	5.0	ND	5.0	ND	1.0	ND	1.0
trans-1,3-Dichloropropene	UG/L	ND	5.0	ND	5.0	ND	1.0	ND	1.0
Ethylbenzene	UG/L	ND	5.0	ND	5.0	ND	1.0	ND	1.0
2-Hexanone	UG/L	ND	25	ND	25	ND	5.0	ND	5.0
Isopropylbenzene	UG/L	ND	5.0	ND	5.0	ND	1.0	ND	1.0
Methyl acetate	UG/L	ND	5.0	ND	5.0	ND	1.0	ND	1.0
Methylcyclohexane	UG/L	ND	5.0	ND	5.0	ND	1.0	ND	1.0
Methylene chloride	UG/L	ND	5.0	ND	5.0	ND	1.0	ND	1.0
4-Methyl-2-pentanone	UG/L	ND	25	ND	25	ND	5.0	ND	5.0
Methyl-t-Butyl Ether (MTBE)	UG/L	ND	5.0	ND	5.0	ND	1.0	ND	1.0
Styrene	UG/L	ND	5.0	ND	5.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	UG/L	ND	5.0	ND	5.0	ND	1.0	ND	1.0
Tetrachloroethene	UG/L	ND	5.0	ND	5.0	ND	1.0	ND	1.0
Toluene	UG/L	59	5.0	58	5.0	11	1.0	8.9	1.0
1,2,4-Trichlorobenzene	UG/L	ND	5.0	ND	5.0	ND	1.0	ND	1.0
1,1,1-Trichloroethane	UG/L	ND	5.0	ND	5.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	UG/L	ND	5.0	ND	5.0	ND	1.0	ND	1.0

NA = Not Applicable ND = Not Detected

Client ID Job No Sample Date	Lab ID	MW-7 40 A05-5142 05/19/2005	A5514203MS	MW-7 40 A05-5142 05/19/2005	A5514203SD	msb65 A05-5142	A5B0801401	msb66 A05-5142	A5B0813401
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	5.0	ND	5.0	ND	1.0	ND	1.0
Trichlorofluoromethane	UG/L	ND	5.0	ND	5.0	ND	1.0	ND	1.0
Trichloroethene	UG/L	64	5.0	62	5.0	11	1.0	9.3	1.0
Vinyl chloride	UG/L	40	5.0	37	5.0	ND	1.0	ND	1.0
Total Xylenes	UG/L	ND	15	ND	15	ND	3.0	ND	3.0
======IS/SURROGATE(S)=									
Chlorobenzene-D5	%	84	50-200	88	50-200	95	50-200	94	50-200
1,4-Difluorobenzene	%	83	50-200	88	50-200	96	50-200	94	50-200
1,4-Dichlorobenzene-D4	%	76	50-200	80	50-200	86	50-200	85	50-200
Toluene-D8	%	103	76-116	104	76-116	105	76-116	104	76-116
p-Bromofluorobenzene	%	96	73-117	98	73-117	101	73-117	97	73-117
1,2-Dichloroethane-D4	%	105	72-143	108	72-143	110	72-143	110	72-143

NA = Not Applicable ND = Not Detected

Client ID		TRIP BLANK							
Job No	Lab ID	A05-5142	A5514205						
Sample Date		05/19/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	5.0	NA		NA		NA	
Benzene	UG/L	ND	1.0	NA		NA		NA	
Bromodichloromethane	UG/L	ND	1.0	NA		NA		NA	
Bromoform	UG/L	ND	1.0	NA		NA		NA	
Bromomethane	UG/L	ND	1.0	NA		NA		NA	
2-Butanone	UG/L	ND	5.0	NA		NA		NA	
Carbon Disulfide	UG/L	ND	1.0	NA		NA		NA	
Carbon Tetrachloride	UG/L	ND	1.0	NA		NA		NA	
Chlorobenzene	UG/L	ND	1.0	NA		NA		NA	
Chloroethane	UG/L	ND	1.0	NA		NA		NA	
Chloroform	UG/L	ND	1.0	NA		NA		NA	
Chloromethane	UG/L	ND	1.0	NA		NA		NA	
Cyclohexane	UG/L	ND	1.0	NA		NA		NA	
1,2-Dibromoethane	UG/L	ND	1.0	NA		NA		NA	
Dibromochloromethane	UG/L	ND	1.0	NA		NA		NA	
1,2-Dibromo-3-chloropropane	UG/L	ND	1.0	NA		NA		NA	
1,2-Dichlorobenzene	UG/L	ND	1.0	NA		NA		NA	
1,3-Dichlorobenzene	UG/L	ND	1.0	NA		NA		NA	
1,4-Dichlorobenzene	UG/L	ND	1.0	NA		NA		NA	
Dichlorodifluoromethane	UG/L	ND	1.0	NA		NA		NA	
1,1-Dichloroethane	UG/L	ND	1.0	NA		NA		NA	
1,2-Dichloroethane	UG/L	ND	1.0	NA		NA		NA	
1,1-Dichloroethene	UG/L	ND	1.0	NA		NA		NA	
cis-1,2-Dichloroethene	UG/L	ND	1.0	NA		NA		NA	
trans-1,2-Dichloroethene	UG/L	ND	1.0	NA		NA		NA	
1,2-Dichloropropane	UG/L	ND	1.0	NA		NA		NA	
cis-1,3-Dichloropropene	UG/L	ND	1.0	NA		NA		NA	
trans-1,3-Dichloropropene	UG/L	ND	1.0	NA		NA		NA	
Ethylbenzene	UG/L	ND	1.0	NA		NA		NA	
2-Hexanone	UG/L	ND	5.0	NA		NA		NA	
Isopropylbenzene	UG/L	ND	1.0	NA		NA		NA	
Methyl acetate	UG/L	ND	1.0	NA		NA		NA	
Methylcyclohexane	UG/L	ND	1.0	NA		NA		NA	
Methylene chloride	UG/L	ND	1.0	NA		NA		NA	
4-Methyl-2-pentanone	UG/L	ND	5.0	NA		NA		NA	
Methyl-t-Butyl Ether (MTBE)	UG/L	ND	1.0	NA		NA		NA	
Styrene	UG/L	ND	1.0	NA		NA		NA	
1,1,2,2-Tetrachloroethane	UG/L	ND	1.0	NA		NA		NA	
Tetrachloroethene	UG/L	ND	1.0	NA		NA		NA	
Toluene	UG/L	ND	1.0	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/L	ND	1.0	NA		NA		NA	
1,1,1-Trichloroethane	UG/L	ND	1.0	NA		NA		NA	
1,1,2-Trichloroethane	UG/L	ND	1.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		TRIP BLANK							
Job No	Lab ID	A05-5142	A5514205						
Sample Date		05/19/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	1.0	NA		NA		NA	
Trichlorofluoromethane	UG/L	ND	1.0	NA		NA		NA	
Trichloroethene	UG/L	ND	1.0	NA		NA		NA	
Vinyl chloride	UG/L	ND	1.0	NA		NA		NA	
Total Xylenes	UG/L	ND	3.0	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	85	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	85	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	77	50-200	NA		NA		NA	
Toluene-D8	%	105	76-116	NA		NA		NA	
p-Bromofluorobenzene	%	98	73-117	NA		NA		NA	
1,2-Dichloroethane-D4	%	111	72-143	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		SBLK							
Job No	Lab ID	A05-5142	A5B0756802						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/L	ND	10	NA		NA		NA	
Acenaphthylene	UG/L	ND	10	NA		NA		NA	
Acetophenone	UG/L	ND	10	NA		NA		NA	
Anthracene	UG/L	ND	10	NA		NA		NA	
Atrazine	UG/L	ND	10	NA		NA		NA	
Benzaldehyde	UG/L	ND	50	NA		NA		NA	
Benzo(a)anthracene	UG/L	ND	10	NA		NA		NA	
Benzo(b)fluoranthene	UG/L	ND	10	NA		NA		NA	
Benzo(k)fluoranthene	UG/L	ND	10	NA		NA		NA	
Benzo(ghi)perylene	UG/L	ND	10	NA		NA		NA	
Benzo(a)pyrene	UG/L	ND	10	NA		NA		NA	
Benzoic acid	UG/L	ND	150	NA		NA		NA	
Benzyl alcohol	UG/L	ND	20	NA		NA		NA	
Biphenyl	UG/L	ND	10	NA		NA		NA	
Bis(2-chloroethoxy) methane	UG/L	ND	10	NA		NA		NA	
Bis(2-chloroethyl) ether	UG/L	ND	10	NA		NA		NA	
2,2'-Oxybis(1-Chloropropane)	UG/L	ND	10	NA		NA		NA	
Bis(2-ethylhexyl) phthalate	UG/L	ND	10	NA		NA		NA	
4-Bromophenyl phenyl ether	UG/L	ND	10	NA		NA		NA	
Butyl benzyl phthalate	UG/L	ND	10	NA		NA		NA	
4-Chloroaniline	UG/L	ND	10	NA		NA		NA	
4-Chloro-3-methylphenol	UG/L	ND	10	NA		NA		NA	
2-Chloronaphthalene	UG/L	ND	10	NA		NA		NA	
2-Chlorophenol	UG/L	ND	10	NA		NA		NA	
4-Chlorophenyl phenyl ether	UG/L	ND	10	NA		NA		NA	
Caprolactam	UG/L	ND	10	NA		NA		NA	
Chrysene	UG/L	ND	10	NA		NA		NA	
Dibenzo(a,h)anthracene	UG/L	ND	10	NA		NA		NA	
Dibenzofuran	UG/L	ND	10	NA		NA		NA	
Di-n-butyl phthalate	UG/L	ND	10	NA		NA		NA	
1,2-Dichlorobenzene	UG/L	ND	10	NA		NA		NA	
1,3-Dichlorobenzene	UG/L	ND	10	NA		NA		NA	
1,4-Dichlorobenzene	UG/L	ND	10	NA		NA		NA	
3,3'-Dichlorobenzidine	UG/L	ND	20	NA		NA		NA	
2,4-Dichlorophenol	UG/L	ND	10	NA		NA		NA	
Diethyl phthalate	UG/L	ND	10	NA		NA		NA	
2,4-Dimethylphenol	UG/L	ND	10	NA		NA		NA	
Dimethyl phthalate	UG/L	ND	10	NA		NA		NA	
4,6-Dinitro-2-methylphenol	UG/L	ND	50	NA		NA		NA	
2,4-Dinitrophenol	UG/L	ND	50	NA		NA		NA	
2,4-Dinitrotoluene	UG/L	ND	10	NA		NA		NA	
2,6-Dinitrotoluene	UG/L	ND	10	NA		NA		NA	
Di-n-octyl phthalate	UG/L	ND	10	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		SBLK							
Job No	Lab ID	A05-5142	A5B0756802						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Fluoranthene	UG/L	ND	10	NA		NA		NA	
Fluorene	UG/L	ND	10	NA		NA		NA	
Hexachlorobenzene	UG/L	ND	10	NA		NA		NA	
Hexachlorobutadiene	UG/L	ND	10	NA		NA		NA	
Hexachlorocyclopentadiene	UG/L	ND	45	NA		NA		NA	
Hexachloroethane	UG/L	ND	10	NA		NA		NA	
Indeno(1,2,3-cd)pyrene	UG/L	ND	10	NA		NA		NA	
Isophorone	UG/L	ND	10	NA		NA		NA	
2-Methylnaphthalene	UG/L	ND	10	NA		NA		NA	
2-Methylphenol	UG/L	ND	10	NA		NA		NA	
4-Methylphenol	UG/L	ND	10	NA		NA		NA	
Naphthalene	UG/L	ND	10	NA		NA		NA	
2-Nitroaniline	UG/L	ND	50	NA		NA		NA	
3-Nitroaniline	UG/L	ND	50	NA		NA		NA	
4-Nitroaniline	UG/L	ND	50	NA		NA		NA	
Nitrobenzene	UG/L	ND	10	NA		NA		NA	
2-Nitrophenol	UG/L	ND	10	NA		NA		NA	
4-Nitrophenol	UG/L	ND	50	NA		NA		NA	
N-nitrosodiphenylamine	UG/L	ND	10	NA		NA		NA	
N-Nitroso-Di-n-propylamine	UG/L	ND	10	NA		NA		NA	
Pentachlorophenol	UG/L	ND	50	NA		NA		NA	
Phenanthrene	UG/L	ND	10	NA		NA		NA	
Phenol	UG/L	ND	10	NA		NA		NA	
Pyrene	UG/L	ND	10	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/L	ND	10	NA		NA		NA	
2,4,5-Trichlorophenol	UG/L	ND	10	NA		NA		NA	
2,4,6-Trichlorophenol	UG/L	ND	10	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	95	50-200	NA		NA		NA	
Naphthalene-D8	%	93	50-200	NA		NA		NA	
Acenaphthene-D10	%	93	50-200	NA		NA		NA	
Phenanthrene-D10	%	95	50-200	NA		NA		NA	
Chrysene-D12	%	88	50-200	NA		NA		NA	
Perylene-D12	%	98	50-200	NA		NA		NA	
Nitrobenzene-D5	%	89	52-120	NA		NA		NA	
2-Fluorobiphenyl	%	87	21-120	NA		NA		NA	
p-Terphenyl-d14	%	120	36-138	NA		NA		NA	
Phenol-D5	%	34	13-120	NA		NA		NA	
2-Fluorophenol	%	52	21-120	NA		NA		NA	
2,4,6-Tribromophenol	%	104	62-133	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Matrix Spike Blank							
Job No	Lab ID	A05-5142	A5B0756801						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/L	90	10	NA		NA		NA	
Acenaphthylene	UG/L	87	10	NA		NA		NA	
Acetophenone	UG/L	ND	10	NA		NA		NA	
Anthracene	UG/L	99	10	NA		NA		NA	
Atrazine	UG/L	ND	10	NA		NA		NA	
Benzaldehyde	UG/L	ND	50	NA		NA		NA	
Benzo(a)anthracene	UG/L	100	10	NA		NA		NA	
Benzo(b)fluoranthene	UG/L	98	10	NA		NA		NA	
Benzo(k)fluoranthene	UG/L	99	10	NA		NA		NA	
Benzo(ghi)perylene	UG/L	110	10	NA		NA		NA	
Benzo(a)pyrene	UG/L	100	10	NA		NA		NA	
Benzoic acid	UG/L	150	150	NA		NA		NA	
Benzyl alcohol	UG/L	70	20	NA		NA		NA	
Biphenyl	UG/L	ND	10	NA		NA		NA	
Bis(2-chloroethoxy) methane	UG/L	84	10	NA		NA		NA	
Bis(2-chloroethyl) ether	UG/L	74	10	NA		NA		NA	
2,2'-Oxybis(1-Chloropropane)	UG/L	77	10	NA		NA		NA	
Bis(2-ethylhexyl) phthalate	UG/L	110	10	NA		NA		NA	
4-Bromophenyl phenyl ether	UG/L	98	10	NA		NA		NA	
Butyl benzyl phthalate	UG/L	100	10	NA		NA		NA	
4-Chloroaniline	UG/L	86	10	NA		NA		NA	
4-Chloro-3-methylphenol	UG/L	91	10	NA		NA		NA	
2-Chloronaphthalene	UG/L	82	10	NA		NA		NA	
2-Chlorophenol	UG/L	71	10	NA		NA		NA	
4-Chlorophenyl phenyl ether	UG/L	92	10	NA		NA		NA	
Caprolactam	UG/L	ND	10	NA		NA		NA	
Chrysene	UG/L	100	10	NA		NA		NA	
Dibenzo(a,h)anthracene	UG/L	110	10	NA		NA		NA	
Dibenzofuran	UG/L	87	10	NA		NA		NA	
Di-n-butyl phthalate	UG/L	100	10	NA		NA		NA	
1,2-Dichlorobenzene	UG/L	65	10	NA		NA		NA	
1,3-Dichlorobenzene	UG/L	62	10	NA		NA		NA	
1,4-Dichlorobenzene	UG/L	64	10	NA		NA		NA	
3,3'-Dichlorobenzidine	UG/L	110	20	NA		NA		NA	
2,4-Dichlorophenol	UG/L	85	10	NA		NA		NA	
Diethyl phthalate	UG/L	97	10	NA		NA		NA	
2,4-Dimethylphenol	UG/L	83	10	NA		NA		NA	
Dimethyl phthalate	UG/L	94	10	NA		NA		NA	
4,6-Dinitro-2-methylphenol	UG/L	100	50	NA		NA		NA	
2,4-Dinitrophenol	UG/L	84	50	NA		NA		NA	
2,4-Dinitrotoluene	UG/L	93	10	NA		NA		NA	
2,6-Dinitrotoluene	UG/L	95	10	NA		NA		NA	
Di-n-octyl phthalate	UG/L	110	10	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Matrix Spike Blank							
Job No	Lab ID	A05-5142	A5B0756801						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Fluoranthene	UG/L	100	10	NA		NA		NA	
Fluorene	UG/L	94	10	NA		NA		NA	
Hexachlorobenzene	UG/L	98	10	NA		NA		NA	
Hexachlorobutadiene	UG/L	68	10	NA		NA		NA	
Hexachlorocyclopentadiene	UG/L	55	45	NA		NA		NA	
Hexachloroethane	UG/L	60	10	NA		NA		NA	
Indeno(1,2,3-cd)pyrene	UG/L	110	10	NA		NA		NA	
Isophorone	UG/L	86	10	NA		NA		NA	
2-Methylnaphthalene	UG/L	81	10	NA		NA		NA	
2-Methylphenol	UG/L	67	10	NA		NA		NA	
4-Methylphenol	UG/L	62	10	NA		NA		NA	
Naphthalene	UG/L	77	10	NA		NA		NA	
2-Nitroaniline	UG/L	94	50	NA		NA		NA	
3-Nitroaniline	UG/L	94	50	NA		NA		NA	
4-Nitroaniline	UG/L	99	50	NA		NA		NA	
Nitrobenzene	UG/L	78	10	NA		NA		NA	
2-Nitrophenol	UG/L	83	10	NA		NA		NA	
4-Nitrophenol	UG/L	ND	50	NA		NA		NA	
N-nitrosodiphenylamine	UG/L	97	10	NA		NA		NA	
N-Nitroso-Di-n-propylamine	UG/L	83	10	NA		NA		NA	
Pentachlorophenol	UG/L	100	50	NA		NA		NA	
Phenanthrene	UG/L	97	10	NA		NA		NA	
Phenol	UG/L	34	10	NA		NA		NA	
Pyrene	UG/L	100	10	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/L	71	10	NA		NA		NA	
2,4,5-Trichlorophenol	UG/L	90	10	NA		NA		NA	
2,4,6-Trichlorophenol	UG/L	87	10	NA		NA		NA	
======IS/SURROGATE(S)======									
1,4-Dichlorobenzene-D4	%	92	50-200	NA		NA		NA	
Naphthalene-D8	%	92	50-200	NA		NA		NA	
Acenaphthene-D10	%	93	50-200	NA		NA		NA	
Phenanthrene-D10	%	91	50-200	NA		NA		NA	
Chrysene-D12	%	92	50-200	NA		NA		NA	
Perylene-D12	%	98	50-200	NA		NA		NA	
Nitrobenzene-D5	%	74	52-120	NA		NA		NA	
2-Fluorobiphenyl	%	77	21-120	NA		NA		NA	
p-Terphenyl-d14	%	97	36-138	NA		NA		NA	
Phenol-D5	%	28	13-120	NA		NA		NA	
2-Fluorophenol	%	42	21-120	NA		NA		NA	
2,4,6-Tribromophenol	%	100	62-133	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		Method Blank A05-5142 A5B0759302							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/L	ND	0.50	NA		NA		NA	
Aroclor 1221	UG/L	ND	0.50	NA		NA		NA	
Aroclor 1232	UG/L	ND	0.50	NA		NA		NA	
Aroclor 1242	UG/L	ND	0.50	NA		NA		NA	
Aroclor 1248	UG/L	ND	0.50	NA		NA		NA	
Aroclor 1254	UG/L	ND	0.50	NA		NA		NA	
Aroclor 1260	UG/L	ND	0.50	NA		NA		NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	82	36-132	NA		NA		NA	
Decachlorobiphenyl	%	56	28-132	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Date: 06/06/2005
Time: 13:43:13

Environmental Strategies Corporation
Ithaca Site
ESC - METHOD 8082 - POLYCHLORINATED BIPHENYLS - W

Rept: AN0326

Client ID		Matrix Spike Blank		SW-01		SW-01			
Job No	Lab ID	A05-5142	A5B0759301	A05-5142	A5514201MS	A05-5142	A5514201SD		
Sample Date				05/19/2005		05/19/2005			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/L	4.6	0.50	8.7	0.92	8.4	0.92	NA	
Aroclor 1221	UG/L	ND	0.50	ND	0.92	ND	0.92	NA	
Aroclor 1232	UG/L	ND	0.50	ND	0.92	ND	0.92	NA	
Aroclor 1242	UG/L	ND	0.50	ND	0.92	ND	0.92	NA	
Aroclor 1248	UG/L	ND	0.50	ND	0.92	ND	0.92	NA	
Aroclor 1254	UG/L	ND	0.50	ND	0.92	ND	0.92	NA	
Aroclor 1260	UG/L	4.1	0.50	9.1	0.92	8.8	0.92	NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	82	36-132	80	36-132	80	36-132	NA	
Decachlorobiphenyl	%	50	28-132	90	28-132	88	28-132	NA	

30/47

NA = Not Applicable ND = Not Detected

STL Buffalo

SAMPLE DATE 05/19/2005

Client Sample ID: MW-7 40 MW-7 40 MW-7 40
Lab Sample ID: A5514203DL A5514203MS A5514203SD

Analyte	Units of Measure	Concentration Sample	Matrix Spike	Spike Duplicate	Spike Amount MS	MSD	% Recovery MS	MSD	Avg	% RPD	QC LIMITS RPD	REC.
METHOD 8260 - TCL VOLATILE ORGANICS												
1,1-Dichloroethene	UG/L	0	78.1	74.7	50.0	50.0	156 *	149 *	153	4	16.0	65-138
Trichloroethene	UG/L	0	64.3	62.1	50.0	50.0	129 *	124 *	127	4	14.0	71-120
Benzene	UG/L	0	64.3	62.9	50.0	50.0	129 *	126	128	2	11.0	67-126
Toluene	UG/L	0	59.4	58.1	50.0	50.0	119	116	118	2	15.0	71-120
Chlorobenzene	UG/L	0	58.8	57.9	50.0	50.0	118	116	117	2	13.0	74-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: vblk65 msb65
Lab Sample ID: A5B080140Z A5B0801401

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
METHOD 8260 - TCL VOLATILE ORGANICS					
1,1-Dichloroethene	UG/L	12.6	10.0	126	65-138
Trichloroethene	UG/L	11.0	10.0	110	71-120
Benzene	UG/L	11.2	10.0	112	67-126
Toluene	UG/L	10.7	10.0	107	71-120
Chlorobenzene	UG/L	10.8	10.0	109	74-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: vblk66 msb66
Lab Sample ID: A5B0813402 A5B0813401

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
METHOD 8260 - TCL VOLATILE ORGANICS					
1,1-Dichloroethene	UG/L	10.7	10.0	107	65-138
Trichloroethene	UG/L	9.33	10.0	93	71-120
Benzene	UG/L	9.53	10.0	95	67-126
Toluene	UG/L	8.91	10.0	89	71-120
Chlorobenzene	UG/L	8.92	10.0	89	74-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: SBLK Matrix Spike Blank
Lab Sample ID: A5B0756802 A5B0756801

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
ESC - 8270 - TCL SEMI-VOLATILE ORGANICS					
Phenol	UG/L	33.5	100	34	16-120
2-Chlorophenol	UG/L	70.7	100	71	42-120
1,4-Dichlorobenzene	UG/L	64.0	100	64	28-120
N-Nitroso-Di-n-propylamine	UG/L	83.3	100	83	53-120
1,2,4-Trichlorobenzene	UG/L	70.9	100	71	36-120
4-Chloro-3-methylphenol	UG/L	91.0	100	91	54-131
Acenaphthene	UG/L	90.2	100	90	55-120
4-Nitrophenol	UG/L	33.2	100	33	11-120
2,4-Dinitrotoluene	UG/L	93.1	100	93	53-125
Pentachlorophenol	UG/L	100	100	101	33-143
Pyrene	UG/L	102	100	103	50-151

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SAMPLE DATE 05/19/2005

Client Sample ID: SW-01 SW-01 SW-01
Lab Sample ID: A5514201 A5514201MS A5514201SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			%	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg	RPD	RPD	REC.
ESC - METHOD 8082 - POLYCHLORINATED BIPH												
Aroclor 1260	UG/L	0	9.07	8.85	9.25	9.25	98	96	97	2	30.0	50-122
Aroclor 1016	UG/L	0	8.68	8.44	9.25	9.25	94	91	93	3	30.0	29-123

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank
Lab Sample ID: A5B0759302

Matrix Spike Blank
A5B0759301

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
ESC - METHOD 8082 - POLYCHLORINATED BIPH					
Aroclor 1260	UG/L	4.06	5.00	81	50-122
Aroclor 1016	UG/L	4.56	5.00	91	29-123

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	MW-7 40 A05-5142 A5514203	MW-7 40 A05-5142 A5514203DL	MW-8 40 A05-5142 A5514204	SW-01 A05-5142 A5514201	SW-01 100 A05-5142 A5514202
Sample Date	05/19/2005 14:00	05/19/2005 14:00	05/19/2005 15:00	05/19/2005 12:30	05/19/2005 13:15
Received Date	05/20/2005 10:00	05/20/2005 10:00	05/20/2005 10:00	05/20/2005 10:00	05/20/2005 10:00
Extraction Date					
Analysis Date	05/31/2005 13:41	06/01/2005 05:00	06/01/2005 05:24	05/31/2005 12:54	05/31/2005 13:17
Extraction HT Met?	-	-	-	-	-
Analytical HT Met?	YES	YES	YES	YES	YES
Sample Matrix	WATER	WATER	WATER	WATER	WATER
Dilution Factor	1.0	5.0	1.0	1.0	1.0
Sample wt/vol	0.025 LITERS	0.025 LITERS	0.025 LITERS	0.025 LITERS	0.025 LITERS
% Dry					

NA = Not Applicable

METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	TRIP BLANK A05-5142 A5514205				
Sample Date	05/19/2005				
Received Date	05/20/2005 10:00				
Extraction Date					
Analysis Date	05/31/2005 15:15				
Extraction HT Met?	-				
Analytical HT Met?	YES				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	0.025 LITERS				
% Dry					

NA = Not Applicable

METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	MW-7 40 A05-5142 A5514203MS	MW-7 40 A05-5142 A5514203SD	msb65 A05-5142 A5B0801401	msb66 A05-5142 A5B0813401	
Sample Date	05/19/2005 14:00	05/19/2005 14:00			
Received Date	05/20/2005 10:00	05/20/2005 10:00			
Extraction Date					
Analysis Date	06/01/2005 05:47	06/01/2005 06:11	05/31/2005 11:09	05/31/2005 23:51	
Extraction HT Met?	-	-	-	-	
Analytical HT Met?	YES	YES	-	-	
Sample Matrix	WATER	WATER	WATER	WATER	
Dilution Factor	5.0	5.0	1.0	1.0	
Sample wt/vol	0.025 LITERS	0.025 LITERS	0.025 LITERS	0.025 LITERS	
% Dry					

NA = Not Applicable

ESC - 8270 - TCL SEMI-VOLATILE ORGANICS - W

Client Sample ID Job No & Lab Sample ID	MW-7 40 A05-5142 A5514203	SW-01 A05-5142 A5514201	SW-01 100 A05-5142 A5514202		
Sample Date	05/19/2005 14:00	05/19/2005 12:30	05/19/2005 13:15		
Received Date	05/20/2005 10:00	05/20/2005 10:00	05/20/2005 10:00		
Extraction Date	05/23/2005 07:00	05/23/2005 07:00	05/23/2005 07:00		
Analysis Date	05/25/2005 18:18	05/25/2005 17:26	05/25/2005 17:52		
Extraction HT Met?	YES	YES	YES		
Analytical HT Met?	YES	YES	YES		
Sample Matrix	WATER	WATER	WATER		
Dilution Factor	1.0	1.0	1.0		
Sample wt/vol	0.46 LITERS	1.04 LITERS	1.035 LITERS		
% Dry					

NA = Not Applicable

ESC - 8270 - TCL SEMI-VOLATILE ORGANICS - W

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A05-5142 A5B0756801				
Sample Date					
Received Date					
Extraction Date	05/23/2005 07:00				
Analysis Date	05/25/2005 12:11				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	1.0 LITERS				
% Dry					

NA = Not Applicable

ESC - 8270 - TCL SEMI-VOLATILE ORGANICS - W

Client Sample ID Job No & Lab Sample ID	SBLK A05-5142 A5B0756802				
Sample Date					
Received Date					
Extraction Date	05/23/2005 07:00				
Analysis Date	05/25/2005 12:38				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	1.0 LITERS				
% Dry					

NA = Not Applicable

ESC - METHOD 8082 - POLYCHLORINATED BIPHENYLS - W

Client Sample ID Job No & Lab Sample ID	MW-7 40 A05-5142 A5514203	SW-01 A05-5142 A5514201	SW-01 100 A05-5142 A5514202		
Sample Date	05/19/2005 14:00	05/19/2005 12:30	05/19/2005 13:15		
Received Date	05/20/2005 10:00	05/20/2005 10:00	05/20/2005 10:00		
Extraction Date	05/23/2005 14:30	05/23/2005 14:30	05/23/2005 14:30		
Analysis Date	05/24/2005 13:36	05/24/2005 10:41	05/24/2005 13:18		
Extraction HT Met?	YES	YES	YES		
Analytical HT Met?	YES	YES	YES		
Sample Matrix	WATER	WATER	WATER		
Dilution Factor	1.0	1.0	1.0		
Sample wt/vol	0.99 LITERS	1.0 LITERS	1.03 LITERS		
% Dry					

NA = Not Applicable

ESC - METHOD 8082 - POLYCHLORINATED BIPHENYLS - W

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A05-5142 A5B0759301	SW-01 A05-5142 A5514201MS	SW-01 A05-5142 A5514201SD		
Sample Date		05/19/2005 12:30	05/19/2005 12:30		
Received Date		05/20/2005 10:00	05/20/2005 10:00		
Extraction Date	05/23/2005 14:30	05/23/2005 14:30	05/23/2005 14:30		
Analysis Date	05/24/2005 09:47	05/24/2005 12:42	05/24/2005 13:00		
Extraction HT Met?	-	YES	YES		
Analytical HT Met?	-	YES	YES		
Sample Matrix	WATER	WATER	WATER		
Dilution Factor	1.0	1.0	1.0		
Sample wt/vol	1.0 LITERS	0.54 LITERS	0.54 LITERS		
% Dry					

NA = Not Applicable

ESC - METHOD 8082 - POLYCHLORINATED BIPHENYLS - W

Client Sample ID Job No & Lab Sample ID	Method Blank A05-5142 A5B0759302				
Sample Date					
Received Date					
Extraction Date	05/23/2005 14:30				
Analysis Date	05/24/2005 10:05				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	1.0 LITERS				
% Dry					

NA = Not Applicable

CHAIN OF CUSTODY RECORD

No. 029167

Project Number:	Site and Location:
12749	EPT - Ithaca

Sampler's Name(s): Brian L. Nicklen

Sampler's Signature(s):

Matrices: S = Soil; Aq = Water; A = Air; Bu = Bulk; W = Wipe; Bi = Biota; OW = Oily Waste; O = Other

Requested Analyses: VOCs, SVOCs, PCBs

Sample Identification:	Date	Time	Matrix	Number of Containers	VOCs	SVOCs	PCBs	Remarks
SW-01	5/19/05	1230	AQ	6	2	2	2	
SW-01 (100)	5/19/05	1315	AQ	6	2	2	2	
MW-7-40	5/19/05	1400	AQ	4	2	1	1	
MW-8-40	5/19/05	1500	AQ	2	2			

Relinquished by (Signature):	5/19/05 1650 Date | Time	Received by (Signature):	05-20-05 1000
Relinquished by (Signature):	Date | Time	Received by (Signature):	
Turn-Around Time: 2 weeks (std.)		Tracking Number: 8524 7345 5992	

Laboratory Name: STL - Buffalo

Laboratory Location: Buffalo, NY

Custody Seal Numbers: 14579 & 14578

Method of Shipment: fed EX

2@2.0°C

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MANAGING THE BUSINESS OF THE ENVIRONMENT

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