

A photograph of a forest stream with mossy rocks and a green overlay.

REVISED SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT

Emerson Power Transmission Facility

Ithaca, New York

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Client

Steve Clarke
Director Environmental Affairs and Real Estate
Emerson
8000 W. Florissant Avenue
St. Louis, MO 63136

Consultant

WSP
11190 Sunrise Valley Drive, Suite 300
Reston, VA 20191
Tel: 703 709 6500
Fax: 703 709 8505

WSP Contacts

Scott Haitz
Scott.haitz@wspgroup.com

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1 Introduction

On behalf of Emerson Electric Co. and its subsidiary, Emerson Power Transmission Corp. (EPT), WSP Environment & Energy, now part of WSP USA Corp. (WSP) conducted a series of supplemental pre-design investigations at the former EPT Site in Ithaca, New York. As detailed in the approved scope of work, dated February 13, 2012, and a follow up revision, dated April 24, 2012, the objectives of the investigations were to gather additional data on soil quality immediately below the floor slab in Building 3 and below the former 507 Degreaser Area in Building 4; further evaluate the bedding plane fractures encountered at monitoring well MW-14C; and assess soil quality below the sanitary sewer line located east of the fire water reservoir. This report details the scope and results of the supplemental pre-design investigations.

The supplemental pre-design investigations were conducted between March and October 2012. The scope of the investigations included the following:

- Performing packer testing and groundwater sampling on the two bedding plane fractures identified within monitoring well MW-14C south of the firewater reservoir;
- Removing portions of the concrete floor slab in Buildings 3 and 4, and performing visual inspections and screening of the underlying soil;
- Excavating test pits throughout the investigation areas, locating the top of the sanitary sewer line immediately west of the former degreaser, and investigating subsurface features identified beneath the floor slab in Buildings 3 and 4;
- Sampling and analyzing soils below Building 2, Building 3, Building 4 and along the sanitary sewer east of the fire water reservoir;
- Inspecting and cleaning structures identified during the slab removal and test pit activities, and inspecting underground utilities with video equipment;
- Installing and sampling eight additional groundwater monitoring wells including three wells within Building 3, two wells within Building 4, and three wells to the west of Building 4 adjacent to existing well MW-10B; and
- Conducting a step drawdown, recovery, and short-term constant rate pumping test at monitoring well MW-10B located west of the former degreaser area.

This report has been prepared in accordance with an Administrative Order on Consent (Index #A7-0125-87-09) entered into by the New York State Department of Environmental Conservation (NYSDEC) and EPT on July 13, 1987.

This report is divided into the following sections:

Section 1	Provides an introduction to the project and presents the project goals and objectives of the investigation
Section 2	Provides a background and description of the Buildings 3 and 4 investigation areas
Section 3	Presents the scope of work completed
Section 4	Discusses the results of sampling and analysis
Section 5	Discusses the disposition of investigation-derived wastes

2 Site Description

The EPT facility is located at 620 South Aurora Street in Ithaca, New York (Figure 1). The site consists of three main buildings along the northeast and southwest portions of South Hill. The facility buildings are located at an elevation of approximately 600 feet above mean sea level. The main building is flanked by a number of smaller buildings to the southwest and a series of access roads and parking lots that terrace the hillside above the plant to the east. Further to the east are South Aurora Street and the campus of Ithaca College. Undeveloped woodland borders the site to the southwest along the steep embankments of the hill. West Spencer Street, which runs parallel to the EPT property, marks the western limit of the wooded area and the base of South Hill. Beyond Spencer Street to the west and in areas along the steep northern approach to South Hill and the EPT site are residential areas. Six Mile Creek, located further to the west, flows north along the base of South Hill and eventually empties into Cayuga Lake approximately 2 miles northwest of the site. Figure 2 shows the facility layout and the surrounding areas.

The original building at the EPT site was built in 1906 by Morse Industrial Corporation, which manufactured steel roller chain for the automobile industry. From approximately 1928 to 1983, Borg Warner Corporation owned the property and manufactured automotive components and power transmission equipment. Up until the late 1970s, Borg-Warner Corporation used trichloroethene (TCE), a widely-used solvent at the time, for degreasing metal parts. In 1983, Morse Industrial Corporation was purchased from Borg-Warner Corporation by Emerson and became known as EPT. EPT manufactured industrial roller chain, bearings, and clutching for the power transmission industry until the facility was closed in 2011.

2.1 Department 507 – Building 3 and 4

According to historic site documents, metal stamping, solvent degreasing and solvent recovery operations were conducted in Department 507, which was located on the main floor of Building 3 and Building 4. Solvents used in the degreasing operations included mainly TCE and Safe-Tee Solvent 128, which contained PCE and methylene chloride. TCE usage occurred from the 1960's to approximately 1978. Safe-Tee Solvent was used from approximately 1973 to 1983. Two degreaser units, which were located in near a depressed floor area of Building 4 are no longer present, and TCE and Safe-Tee Solvent have not been used since Emerson purchased the facility in 1983. According to the available files, the degreasers were placed in the 507 Department (Building 4) in the 1960's to clean metal parts and scrap metal.

Building 3 is located to the east of the fire water reservoir and Building 4 is located immediately south of Building 3. As shown in Figure 2, Building 4 housed the former 507 Vapor Degreasers, which were located roughly between support columns 85 and 93 (outer wall of building).

2.2 Onsite Groundwater

As part of previous investigations, downhole logging and sampling of monitoring wells installed in the area of the fire water reservoir were conducted to develop a comprehensive understanding of potential migration pathways within bedrock underlying the area and to build on the data collected from previous investigations. The geophysical logging confirmed that two types of well-defined fractures are present beneath the area of the firewater reservoir. The first type is horizontal bedding plane fractures while the second type consists of three orientations of nearly vertical joint sets. The bedding plane fractures extend laterally a few inches or feet and intersect to create an interconnecting network of relatively planar, paper-thin, horizontal planes of effective porosity. The individual vertical joint sets extend tens of feet laterally and vertically to create an intersecting network of permeable vertical conduits that are bounded by blocks of bedrock.

Groundwater generally occurs within the upper portion of the fractured bedrock (B-zone) and within bedding plane fractures encountered at 550 and 544 feet above mean sea level (ft-msl) and 515 ft-msl (C-zone). The bedding plane fractures and associated vertical joint sets are the primary migration pathways for affected groundwater.

Two shallow fractures were encountered during the installation of MW-14C, which is located approximately 5 feet south of the fire water reservoir. The fractures were encountered between 17 and 21 feet below the base of the reservoir at approximately 550 and 544 ft-msl, respectively. These fractures appear to discharge directly into the B-zone within the remediation area west of the firewater reservoir.

3 Scope of Work

This section describes the scope of work completed to further evaluate the hydrogeologic conditions in the vicinity of the fire water reservoir area, and soil and groundwater quality below Buildings 3 and 4. The work was conducted in several phases between March and December 2012. A photographic log is provided in Appendix A and boring logs are provided in Appendix C.

3.1 MW-14C Groundwater Investigation

During a meeting with NYSDEC in January 2012, Emerson agreed to perform additional packer testing on the two bedding plane fractures identified within the open borehole of monitoring well MW-14C located south of the fire water reservoir (Figure 2). Based on the findings of previous downhole logging and sampling, it was determined that MW-14C intercepted a discrete set of horizontal water-bearing fractures in the upper portion of the C-zone aquifer. Previous groundwater samples collected from MW-14C showed that elevated levels of volatile organic compounds (VOCs) were present within one or both of these fractures. In order to assess groundwater quality in each fracture zone, inflatable packers were placed in the MW-14C borehole to isolate each fracture for discrete sampling. The scope of the packer testing and sampling is described below.

3.1.1 Sample Collection

On March 19, 2012 Parratt-Wolff, Inc. of Syracuse, New York installed an inflatable straddle-packer assembly in MW-14C to isolate the open fracture identified during down-hole geophysical logging at approximately 550 ft-msl or 37.5 feet below ground surface (bgs) (top fracture). The straddle-packer assembly was set-up with a 2.5-foot interval between the upper and lower packers with a 2-inch diameter, perforated drop pipe in the open interval. Before initiating sampling activities, MW-14C was allowed to equilibrate for 20 hours following packer assembly installation.

Following the equilibration of MW-14C, a bladder pump (capable of flow rates between 0.1 and 0.5 liters per minute) was used to perform low-flow purging of the top fracture on March 20th. During purging, an In-situ® Troll® flow-through cell was used to measure temperature, pH, specific conductance, dissolved oxygen (DO), oxidation reduction potential (ORP), and turbidity (Appendix B). Drawdown water levels were monitored using the electronic water-level indicator. Field parameters, including the water level, were recorded in the field log book. Following purging, a discrete groundwater sample and quality control samples, as appropriate, were collected from the isolated top fracture. All samples were stored and packed on ice for subsequent submittal to Pace Analytical for VOC analysis using EPA Method SW846 8260B. A total of 2 gallons of groundwater was purged from the isolated top fracture at a rate of 50 ml/min.

Once sampling of the top fracture was complete, the packer assembly was pulled from the well and decontaminated. As appropriate, an equipment rinse blank sample was collected following decontamination.

Parratt-Wolff then installed a single inflatable packer assembly in the open borehole of MW-14C to isolate the lower fracture observed at 544 ft-msl or 43.5 feet bgs. The single packer assembly was set-up with a 3-foot interval between the packer and the bottom of the well, with a 2-inch diameter, perforated drop pipe installed below the packer within the open interval. Before initiating sampling activities, the well and packer assembly were allowed to equilibrate for approximately 19 hours.

On March 21, 2012, similar low-flow purging methods were again used to purge the lower fracture, and a groundwater sample was collected. The sample was placed on ice and submitted to Pace Analytical of Greensburg, Pennsylvania. All samples were analyzed for VOCs using EPA Method SW846 8260B. A total of 4 gallons of groundwater was purged from the lower fracture at a variable rate of 40 to 100 ml/min before sample collection.

Water generated during the well purging was subsequently processed through the Interim Remedial Measure (IRM) dual-phase extraction (DPE) system at the Site. The results of this sampling program are discussed in Section 4.1.

3.2 Concrete Slab Removal

The concrete slabs were removed to facilitate the collection of additional data on soil quality immediately below Building 3 and in the area below the former 507 Degreaser Area in Building 4. Figure 3 shows the slab removal areas as well as the sample locations.

3.2.1 Utility Survey

Underground Services, Inc. was retained by WSP to survey and mark out underground utilities within the areas to be investigated using ground penetrating radar and radio frequency locating equipment. All identified utilities were marked on the pavement and sketched on daily job sheets that were provided to WSP. Facility drawings were then reviewed to confirm the type and location of the utilities.

3.2.2 Concrete Slab Characterization Sampling

Prior to commencing the concrete slab removal, 2-inch diameter concrete core samples were collected from three paired locations in Building 3 and three paired locations in Building 4. Each paired sample was then pulverized and composited to create a total of three composite samples from each building. For example, cores CS-1a and CS-1b were collected from two different locations, pulverized, composited and submitted to the laboratory as sample CS-1. Figure 3 shows the concrete core sample locations.

Sample collection, management, and chain of custody procedures were performed in accordance with WSP Standard Operating Procedures (SOPs). The composite samples were submitted to Pace Analytical Services, Inc., in Greensburg, Pennsylvania for analysis of the following parameters.

- Target compound list (TCL) volatile organic compounds (VOCs) by U.S. Environmental Protection Agency (EPA) Method SW846 8260B
- TCL semi-volatile organic compounds (SVOCs) by EPA Method SW846 8270C
- TCL organochlorine pesticides and polychlorinated biphenyls (PCBs) by EPA Method SW846 8081/8082
- Target analyte list (TAL) metals, including mercury, by EPA Method SW846 6010/7471
- Total petroleum hydrocarbons, diesel range organics by EPA Method SW846 8015B
- Toxicity characteristic leaching procedure (TCLP) VOCs, SVOCs, pesticides, and metals by EPA Method SW846 1311 and methods above
- Total petroleum hydrocarbons (TPH) by EPA method SW846 8015B
- Reactivity, corrosivity, and ignitability, by EPA methods SW846 7.3.3.2/7.3.4.2, 1110A, and 1010, respectively

The analytical results for the concrete samples and the slab characterization are discussed in Section 4.2. Final disposition of the concrete slab debris, and other waste management activities, are discussed in Section 5.0.

3.2.3 Building 3

Concrete slab removal activities commenced on May 22, 2012. Initially, a saw-cut was made approximately 1- foot off each wall and column. A skid-steer, equipped with a hydraulic concrete breaker, was then used to break apart the concrete slab into manageable pieces (Appendix A; Photographs 6 and 7). Following the demolition of the

concrete, a mini-excavator was used to remove the concrete and load it into a skid-steer bucket. The skid-steer then loaded the concrete into a dump truck which transported the concrete to a staging area located in the upper parking lot east of the facility (Appendix A, Photograph 8).

During the removal activities, blowers and industrial fans were used to provide ventilation and air circulation, mitigating any potential indoor air concerns. Dust controls consisting of misting with potable water, were also undertaken to reduce the airborne dust in the work areas (see 3.4 intro).

From May 22 to June 7, 2012, approximately 7,400 square feet of the concrete slab was removed from Building 3. The removal area included a large section of slab between columns 102 and 116, as shown in Figure 3.

Bedrock was encountered directly below the concrete slab along the eastern limit and between 12 inches and 50 inches below the slab on the western limit. An unknown concrete utility trench installed into bedrock was discovered in the center of the area which extended north to south. The location of the utility trench is shown in Figure 3, and a photograph is included in Appendix A (Photograph 5). Based on a review of available plant drawings, WSP determined that the trench was used as a utility chase and had been backfilled south of column 110. The inner dimensions of the trench are approximately 3 feet wide by 4 feet deep. Upon inspection, WSP determined that the base and walls of the trench were not tightly joined and appeared to have been constructed during separate concrete pours.

The facility drawing also indicated that a second underground trench, designated "conveyor trench", extended parallel to the utility trench. WSP confirmed the presence of the conveyor trench during subsequent field work conducted on June 7, 2012 (Photograph 10, Appendix A). Figure 3 illustrates the location and limits of the conveyor trench.

The conveyor trench contained fill material with a sludge-like consistency. The fill material was removed from the conveyor trench between June 12 and 13, 2012. The material was noted to have a dark staining and a petroleum odor. Also, an oily sheen was observed on the liquid. Due to the low solids content, the material was stabilized by mixing with Portland cement following removal. Grab samples were collected of the solids and the liquids in the trench and sent to Pace Analytical. The solid material (TrenchSludge061112) was analyzed for target compound list (TCL) VOCs, TPH-diesel range organics (DRO), TPH-gasoline range organics (GRO), and percent moisture. The liquid sample was analyzed for TCL VOCs (TrenchLiquid061112).

The NYSDEC was onsite when the fill material was removed from the trench and, together with WSP, conducted a visual inspection of the conveyor trench to ascertain the source of the oily sheen. The NYSDEC confirmed that the oily substance was attributable to seepage from the fill material and was not entering the trench. This oily material was pumped from the trench in the area between columns 103 and 105, and later between 113 and 116.

The conveyor trench sludge removal work was discontinued on June 13, 2012, as the removal had progressed to the vicinity of the electrical floor transformer and an elevator shaft (Figure 3) and additional sludge removal would involve a permit-required confined space entry. Between June 28th and July 2nd, the removal of the sludge from the conveyor trench continued as a confined space activity until completion at the elevator shaft. This work was performed by Clean Harbors Environmental. Based on the geometry of the trench, approximately 360 cubic feet (approximately 21 tons) of soil/sludge was removed, solidified and stockpiled during the excavation activities. Subsequently, during the vacuum cleaning activities, an additional seven 55-gallon drums of sludge (approximately 4,000 pounds) and four totes of water (6,500 pounds) were collected during the trench cleanout task. Characterization of the liquid and solid wastes generated during this activity is discussed in Section 4 and disposal of the wastes is discussed in Section 5.

3.2.4 Building 4

In Building 4 approximately 1,100 square feet of the concrete slab between columns 89 and 93 was removed between May 22 and June 1, 2012. The approximate boundaries of the Building 4 concrete slab removal are illustrated in Figure 3. The area included a section of the concrete slab that had been constructed at a lower elevation (approximately 10 inches lower than the surrounding floor) which had been filled with concrete. This depressed floor area was reportedly the location of the former 507 vapor degreaser unit. Facility drawings

indicated that the depressed floor area was approximately 30 feet by 30 feet by 10 inches deep. The full thickness of concrete in this section was approximately 16 inches. A photoionization detector (PID) was used to screen the sub-slab sand bedding material, and readings ranged from 0.0 to 1.9 parts per million (ppm). No visual staining was present.

In early June 2012, an additional section of the concrete slab, measuring approximately 19 feet by 29 feet, was removed from an area further south to column 97 to expose soils in the entire degreaser area upgradient of monitoring well MW-10B. No PID readings were measured, and no visual staining was observed below the concrete slab in this area.

3.3 Test Pit and Soil Boring Investigations

3.3.1 Foundation Test Pit

On May 23, 2012, two test pits were excavated in the site roadway adjacent to columns 107 and 108 of Building 3 (TP-4 and TP-5, respectively; Figure 4) to assess the foundation type and depth to bedrock along the west side of the building (i.e. column and footer depths and depth to bedrock). Bedrock was encountered at 5.82 feet bgs at column 108 and 7.83 feet bgs at column 107. At each test pit, the building foundation was confirmed to be set on the top of bedrock.

At column 107, staining was noted at the base of the excavation (between approximately 7 feet and 7.83 feet bgs) (Photograph 4, Appendix A). Visibly stained soil was segregated from clean material and staged inside the building for characterization at a later time. On June 11, 2012, a sample was collected of the visibly impacted material (Column107Spoils) and sent to Pace Analytical for analysis of TCL VOCs, TCLP VOCs and SVOCs, and TPH-DRO. The sample analytical results are presented in Section 4.3. Characterization and disposal of the soil is discussed in Section 5.0.

3.3.2 Building 3 Test Pits – East of Fire Water Reservoir

Two test pits (TP-6 and TP-7) were excavated in Building 3 on June 7 and 8, 2012, to evaluate soil adjacent to columns 105 and 107 opposite where test pits TP-4 and TP-5 had been previously excavated outside the building. Figure 4 shows the location of the test pits. The test pits were also intended to ascertain the construction of equipment isolation pads found along the west wall of Building 3. Visual observations confirmed that the isolation pads were constructed directly on top of bedrock and that the depth to bedrock was approximately 3.67 feet bgs.

A third test pit (TP-8) was excavated on the east side of the utility trench (at column line 110) to target a pipe penetration. During this excavation, a 4-inch pipe was identified which extended to the east. A subsurface concrete wall was identified approximately 3 feet to the east of the utility trench. This wall was subsequently identified as the east wall of the “conveyor trench” (Figure 4; photograph 10, Appendix A). The pipe (4-inch diameter) is also shown in the photograph. Visually impacted soil from this excavation was stockpiled for off-site disposal. On June 11, 2012, a sample was collected of the stockpiled soil (Stockpile061112) for characterization purposes and submitted to Pace Analytical for analysis of TCL VOCs, TPH-DRO, TPH-GRO, and percent moisture.

The fourth test pit (TP-9) was excavated in the bay between columns 112 and 113 to target the existing facility water line entering the building from the west (at column 112) and a drain line from the former wash bay area exiting the building to the west (at column 113). No visibly impacted soil was identified.

Discussion of the results of inspections and head space testing, as well as the sampling and analyses performed in support of these test pits is provided in Section 4.3.

3.3.3 Building 4 Test Pits – Former Degreaser Area (AOC -1)

Between June 8 and June 9, 2012, three test pits were excavated inside Building 4, in the location of the former degreaser area. Two test pits (TP-10- and TP-11) were excavated on either side of the sanitary sewer between columns 88 and 89. The third test pit (TP-12) was excavated north of SB-1h, where elevated PID readings were detected in a soil boring previously installed between columns 90 and 91. Figure 4 shows the locations of the three test pits.

The first test pit (TP-10) was excavated parallel to the west edge of the sanitary sewer, and between columns 88 and 89. The excavation reached a total depth of approximately 9.6 feet bgs, where bedrock was encountered (photograph 14, Appendix A). The sanitary sewer was completely exposed and appeared to have been cast into concrete at the location of the test pit. Headspace testing was used to screen the excavated material using a PID (refer to Section 4.3 for results).

The second test (TP-11) pit was excavated on the east side of the sanitary sewer, between columns 88 and 89 to approximately 6 feet bgs, where bedrock was encountered (photograph 15, Appendix A). Headspace testing was used to screen the excavated material using the PID, the results of which are discussed in Section 4.3.

The third test pit (TP-12) was excavated to evaluate subsurface soils beneath the former depressed floor area (reportedly housed the former degreaser – photograph 16, Appendix A). At this location bedrock was encountered at approximately 9 feet bgs (photograph 17, Appendix A). Headspace testing was used to screen the excavated material using the PID, the results of which are discussed in Section 4.3.

Between December 17 and 20, 2012, an additional test pit (TP-13) was excavated west of the former degreaser area between monitoring wells MW-10B and MW-25B. A test pit (18' x 20'; Figure 4) was excavated collinear with the two monitoring wells and between columns 88 and 90 of Building 4 west of the former degreaser (photographs 31 through 39, Appendix A). Concrete and asphalt overlaying the excavation was removed and transferred to a roll-off container. The test pit was divided into four quadrants. Continuous head space testing was performed throughout quadrants 1 and 2 down to the final excavation depth of 3 feet bgs. In quadrants 3 and 4, head space testing was continued to a depth of 6 feet bgs in the vicinity of MW-10B and MW-25B and 8 feet bgs near the sanitary sewer line (photograph 36 and 37, Appendix A). All removed material was stockpiled next to the excavation on polyethylene sheeting (photograph 34, Appendix A), and eventually returned to the excavation and compacted. In general, head space testing was performed at approximately 1 cubic yard intervals within each quadrant. In total, screening was completed at 37 locations, which were marked using survey flags, and which are depicted in photograph 35, Appendix A. A discussion of the results is presented in Section 4.3.

The test pit was subsequently backfilled with the excavated material. The backfilled area was covered with crushed stone and compacted (photograph 39, Appendix A).

3.3.4 Soil Sampling Program

The following subsections discuss the scope of the soil sampling program conducted in the four target areas (Buildings 2, 3, 4, and Sanitary Sewer south of fire water reservoir).

3.3.4.1 Sanitary Sewer Soil Sampling

A mini-excavator was used to excavate three test trenches (TP-1, TP-2, and TP-3) to uncover and locate the top of the sanitary sewer line located west of Buildings 3 and 4. At each test trench location, the elevation of the top of the sewer pipe was measured and proposed soil boring locations were staked and marked in order to clear the sewer pipe for drilling. The sewer elevation was measured at depths of 3.58 feet bgs, 3.56 feet bgs, and 2.92 feet bgs, at TP-1, TP-2 and TP-3, respectively (Figure 4).

Following the excavation of the test trenches, three direct push soil borings (SB-TP1, SB-TP2, and SB-TP3) were advanced to assess soil quality directly below the sewer pipe (Figure 5). One subsurface soil sample was collected from each boring at intervals between 4.0 to 6.5 feet bgs, which correspond to the zone below the invert elevation

of the sewer line. All soil samples were shipped to Pace Analytical and analyzed for VOCs using EPA Method 8260B. Analytical results are discussed in Section 4.3, and soil boring logs are provided in Appendix C.

Soil cuttings were placed in the existing soil stockpiles generated from previous test pit and trench cleaning activities. The soil stockpiles were subsequently sampled, characterized, profiled, and shipped off-site for disposal as discussed in Section 5.0. Decontamination water was discharged into, and treated by, the IRM DPE system.

3.3.4.2 Former Degreaser Area Soil Sampling

Three direct push borings (SB-1g, SB-1h, and SB-101112-7) were advanced at the location of the former degreaser area in Building 4. Soil borings SB-1g and SB-1h were selected to further evaluate soils in proximity to previous soil borings SB-1c and SB-1d, respectively, where low levels of VOCs had previously been identified during field screening using a PID. SB-101112-7 was selected to evaluate soil quality in the area immediately west of the location of the former degreaser.

In addition, six direct push soil borings, designated SB-101112-1 through SB-101112-6, were advanced to the west of the degreaser area outside Building 4 to evaluate soil quality upgradient of monitoring well MW-10B where elevated VOC concentrations have been detected.

The soil borings were installed using direct-push drilling methods and continuous soil samples were collected using 5-foot-long samplers fitted with new, clear acetate liners. Each soil sample was screened in the field for organic vapors using a PID. PID readings and sample lithologic descriptions were recorded in the field logbook. Boring logs are included in Appendix C.

Based on field screening, two soil samples were collected from soil borings SB-1g (2.0- to 5.0 feet bgs and 12.0 to 13.5 feet bgs) and SB-1h (5.0 to 6.0 feet bgs and 12.0 to 14.0 feet bgs). No samples were collected from soil boring SB-101112-7.

A total of four soil samples were collected from the six borings installed west of the former degreaser area. At soil boring SB101112-1, one soil sample was collected just above bedrock between 13.75 and 15.5 feet bgs. Two soil samples were collected from soil boring SB-101112-2 (2.25 to 3.0 feet bgs and 14.0 to 15.5 feet bgs). One soil sample was collected from soil boring SB-101112-6 from a depth of 14.1 to 15.7 feet bgs.

The samples were shipped to Pace Analytical for analysis of VOCs using EPA Method SW846 8260B. Analytical results are discussed in Section 4.3, and soil boring logs are provided in Appendix C.

Soil cuttings were placed in the existing soil stockpiles generated from test pitting activities. The soil stockpiles were subsequently sampled, characterized, profiled, and shipped off-site for disposal as discussed in Section 5.0. Decontamination water was added to the IRM treatment system.

3.3.4.3 Catch Basin Soil Sampling

One soil boring (SB-24a) was advanced at the southern corner of the catch basin located immediately east of the south tank of the fire water reservoir (Figure 5). Headspace testing was performed on soils and PID readings noted for each depth interval. Samples were collected from 0 to 2 feet bgs and 2 to 4 feet bgs for laboratory analysis. The two samples plus a duplicate were shipped to Pace Analytical for analysis of VOCs using EPA method SW846 8260B. Analytical results are discussed in Section 4.3, and soil boring logs are provided in Appendix C.

3.3.4.4 Building 2 Soil Sampling

Two soil borings SB-070512-1 and SB-070512-2 were advanced in Building 2 to evaluate soil quality below the slab and one boring SB-070512-3 was advanced outside the south portion of Building 2 to evaluate soil quality west of the building (Figure 5). The three soil borings were each advanced to bedrock refusal, which occurred at 1.9 feet bgs, 3.2 feet bgs, and 5.9 feet bgs, respectively. Headspace testing was performed on soils, and PID

readings were recorded for each interval. One sample was collected from each boring at intervals of approximately 0 to 2 feet, 0 to 3 feet and 4 to 6 feet bgs. Each of the three soil samples were shipped to Pace Analytical for analysis of VOCs using EPA Method SW846 8260B. Analytical results are discussed in Section 4.3, and soil boring logs are provided in Appendix C.

3.4 Groundwater Investigations

Seven additional groundwater monitoring wells were installed in and around Buildings 3 and 4 to further characterize bedrock groundwater quality. The well installations are described below.

3.4.1 Building 4 and MW-10B

Based on a review of previous groundwater samples collected from monitoring wells MW-9B and MW-10B, four additional B-zone monitoring wells were installed to further evaluate groundwater quality east and west of the former degreaser area. Monitoring well MW-18B was installed upgradient and immediately east of the former degreaser area (Figure 6) to determine whether a B-zone bedding plane fracture was present below the degreaser area and determine groundwater quality. The other three monitoring wells (MW-24B, MW-25B, and MW-26B) were installed west of the degreaser area to further define the extent of affected groundwater and to evaluate the hydraulic connectivity of the aquifer surrounding MW-10B. The monitoring wells were installed in June and August 2012, and construction details are included in Appendix C.

3.4.1.1 Monitoring Well Installation

The boreholes for the monitoring wells were drilled using hollow-stem auger, air rotary, and rock coring methods. Parratt-Wolff, Inc., of East Syracuse, New York, a driller licensed in the state of New York in accordance with § 15 1525 of the New York Environmental Conservation Law, provided the drilling services. Each boring was drilled through the overburden using 6.25-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 PID. Sample descriptions and PID readings were recorded in a field notebook and are included in the well logs in Appendix C.

The MW-18B borehole was advanced through the hollow stem auger rods 2 feet into competent bedrock using nominal 6-inch air rotary methods. A 4-inch steel surface casing was then installed in the borehole and set into the rock boring. The annular space between the casing and the overburden was then backfilled with a bentonite-cement slurry grout mixture (tremie piped from the bottom to the top as the hollow stem augers were removed) and allowed to set for at least 18 hours.

Once the overburden casing was set, the open rock core hole was advanced to the well depth of 28 feet bgs (559 ft-msl) using HX rock coring methods. Each section of rock core recovered from the core hole was logged for lithology, structure, weathering, and fracture characterization and notations were recorded in a field notebook. The total recovery, modified recovery, and Rock Quality Designation (RQD) were also calculated for each coring run. A large fracture was identified in MW-18B at approximately 23 feet bgs (564 ft-msl).

Monitoring well MW-18B was then constructed using 2-inch diameter, threaded, flush jointed, type 304 stainless steel blank casing attached to compatible stainless steel well screen with 0.010-inch horizontal slots. The MW-18B well was screened from 23 to 28 feet bgs (564 to 559 ft-msl). A clean sand filter pack was placed from the bottom of the well borehole to approximately 2 feet above the top of the screen. The annular space from the top of the sand filter pack up to 11 feet bgs (576 ft-msl) was backfilled with hydrated bentonite chips. The remaining annular space was filled with cement-bentonite grout from the top of the bentonite seal to 1 foot bgs.

Wells MW-24B, MW-25B, and MW-26B were installed using hollow-stem auger, air rotary, and rock coring methods. Each boring was drilled through the overburden using 6.25-inch ID hollow-stem augers. The soils

recovered from the cuttings were screened for organic vapors in the field using a PID. Sample descriptions and PID readings were recorded in a field notebook.

Each borehole was advanced through the hollow stem auger rods into competent bedrock using nominal 6-inch air rotary methods. Rock cores were collected and logged from approximately 15 to 30 feet bgs at each location using HX rock coring methods. Each section of rock core recovered from the borings was logged (e.g. lithology, structure, weathering, and fracture characterization) and descriptions were recorded in a field notebook. The total recovery, modified recovery, and RQD were also calculated for each coring run. Following core collection and logging, a 4-inch steel surface casing was installed in the borehole. The annular space was backfilled with a bentonite-cement slurry grout mixture (tremie piped from the bottom to the top as the hollow stem augers were removed) and allowed to set for at least 18 hours. The length of the surface casing was 12 feet for MW-24B, 20 feet for MW-25B, and 23 feet for MW-26B. The boreholes were then advanced to the terminal depth of approximately 29 feet bgs (558 ft msl) using nominal 4-inch air rotary drilling methods.

Wells MW-24B, MW-25B, and MW-26B, were completed as open boreholes with a flush mounted well assembly 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 well after completion of the field activities (Appendix C). MW-18B was constructed with approximately 2 feet of casing above ground surface for later completion and was fitted with a watertight expandable plug.

The remaining monitoring wells were completed with flush-mount protective steel well covers, and the casing for each well was fitted with a watertight expandable plug and padlock.

Following installation, the monitoring wells were developed by pumping and surging groundwater using a submersible pump to remove sediments, to ensure effective communication between the open borehole and fractures in the surrounding formation, and to prepare the wells for groundwater sampling. Development continued until the discharge was relatively free of suspended sediments. Water generated during well development activities was collected in drums and managed in the same manner as other investigation-derived waste. All development activities were conducted with clean equipment to prevent potential cross-contamination between well locations.

As discussed below, pumping tests were also performed on this set of wells to establish flow characteristics and determine whether these wells share a significant hydraulic connection.

3.4.1.2 Groundwater Sampling and Analysis

Between July 18 and September 6, 2012, groundwater samples were collected from the new and select existing wells (MW-18B, MW-24B, MW-25B, and MW-26B). On December 5, 2012, well MW-10B was re-sampled to verify previous sampling results. Prior to sampling, the wells were purged of three well volumes, or until the well went dry. The pH, specific conductance, temperature, turbidity, and dissolved oxygen were monitored during the purging process with a water quality meter to ensure that representative groundwater quality samples were collected. A bladder pump (capable of flow rates between 0.1 and 0.5 liters per minute) was used to perform low-flow purging and sampling. The samples were collected, labeled, packed on ice, and shipped to Pace Analytical for VOC analysis using EPA Method SW846 8260B. The analytical results for the groundwater investigation are discussed in Section 4.4.

3.4.2 MW-10B Pumping Test

From October 17 to 25, 2012, aquifer testing was conducted at monitoring well MW-10B and newly installed monitoring wells MW-24B, MW-25B and MW-26B (Figure 6). The tests were conducted to determine the formational yield, transmissivity, and potential hydraulic connection of the surrounding wells.

3.4.2.1 Monitoring Well Construction and Pumping Test Design

The pumping test network was comprised of one pumping well, MW-10B, and three observation wells, MW-24B, MW-25B, and MW-26B. The pumping well is constructed of 2-inch diameter stainless steel screen and riser and has a total depth of 27.5 feet bgs. The screened interval is from 22.4 feet bgs (565.8 ft-msl) and 27.4 feet bgs (560.84 ft-msl). The observation wells, MW-24B (575 to 558 ft-msl), MW 25B (567 and 558 ft-msl) and MW-26B (564 to 558 ft-msl), are bedrock wells open to the same approximate depth interval as the pumping well (565 to 560 ft-msl) and located at radial distances of 18.5, 16.2, and 14.1 feet, respectively, from MW-10B.

3.4.2.2 Pumping Test Procedures

The pumping test was conducted in three phases: a step drawdown test; a recovery test; and a constant rate test. The step-drawdown test was conducted on October 17, 2012, to determine the maximum yield of MW-10B. This was followed by a long-term recovery test conducted from October 17 through 25, 2012 to monitor recharge in the pumping well. On October 25, 2012, a constant rate test was conducted to obtain a longer-term record of drawdown at a sustainable pumping rate and monitor the response in the surrounding observation wells.

Water levels in the pumping and observation wells were monitored using In-Situ Inc.'s Level Troll® 700 data-logging pressure transducers. Transducers were set at depths of approximately 26 feet bgs in MW-10B (i.e., near the bottom of the well and just below the pump intake), 15 feet bgs in MW-24B, 18 feet bgs in MW-25B, and 25 feet bgs in MW-26B.

Pumping at MW-10B was performed using a peristaltic pump fitted with 3/8-inch diameter, low-density, polyethylene tubing that was inserted to a depth of approximately 1.5 feet above the bottom of the well. During the step drawdown test, the pumping rate was monitored using an electronic flow gauge and verified using timed collection of measured purge volumes. During the constant rate test the pumping rate was monitored using only timed collection of measured purge volumes.

The pumping test results are discussed in Section 4.4.

3.4.3 Building 3 Groundwater Investigation

Three monitoring wells (MW-16C, MW-16B/C, and MW-17B) were installed in Building 3 to evaluate groundwater quality (Figure 6). Well MW-16C was designed to characterize the C-zone groundwater quality upgradient of MW-05-40 where elevated concentrations of 1,2-DCE, TCE, and vinyl chloride have been identified. MW-16B/C was designed to evaluate groundwater quality in the B-zone upgradient of MW-05-40 (located between the fire water reservoir and Building 3). Monitoring well MW-17B was designed to evaluate the potential presence of light non-aqueous phase liquid (LNAPL) west of the conveyor trench.

3.4.3.1.1 Monitoring Well Installation

The boreholes for the wells were drilled using hollow-stem auger, air rotary, and rock coring methods. Parratt-Wolff, Inc., of East Syracuse, New York, a driller licensed in the state of New York in accordance with § 15-1525 of the New York Environmental Conservation Law, provided the drilling services. Each boring was drilled through the overburden using hollow-stem auger techniques. The soils recovered during drilling were screened for organic vapors in the field using the PID. Sample descriptions and PID readings were recorded in a field notebook and are included in the well logs in Appendix C.

The MW-16C borehole was constructed as an open rock core hole. Once rock was contacted, air rotary drilling was used to open the rock hole down to approximately 25 feet bgs (approximately 562 ft-msl). A steel casing was set in cement grout inside the rock hole as described in previous sections. Once the casing was installed, an open 4-inch rock core was completed to an overall depth of 45 feet bgs (approximately 542 ft-msl) (each well) using NX rock coring methods. Each section of rock core recovered from the core hole was logged (e.g., lithology, structure,

weathering, and fracture characterization), and appropriate field notations were recorded in a field notebook. The total recovery, modified recovery, and RQD were also calculated for each coring run and recorded.

MW-16B/C was drilled in the same manner. Once the top of rock was contacted, air rotary drilling was used to advance the rock borehole down to a total depth of 30 feet bgs (557 ft-msl). Monitoring well MW-16B/C was then constructed using 2-inch diameter, threaded, flush jointed, schedule type 304 stainless steel blank casing attached to compatible stainless steel well screen with 0.010-inch horizontal slots. The MW-16B/C well was screened from 25 to 30 feet bgs (562 to 557 ft-msl). A clean sand filter pack was placed from the bottom of the well borehole to approximately 2.5 feet above the top of the screen. Above the sand filter pack, a 2-foot thick, hydrated bentonite seal was installed. The remaining annular space was filled with cement-bentonite grout from the top of the bentonite seal to 1 foot bgs.

Monitoring well MW-17B was constructed using the same process as MW-16B/C and consists of 2-inch diameter, threaded, flush jointed type 304 stainless steel blank casing attached to compatible stainless steel well screen with 0.010-inch horizontal slots. MW-17B well was screened from 4 to 14 feet bgs (583 to 572 ft-msl). A clean sand filter pack was placed from the bottom of the well borehole to approximately 2 feet above the top of the screen. Above the sand filter pack, a 2-foot thick, hydrated bentonite seal was installed. The remaining annular space was filled with cement-bentonite grout from the top of the bentonite seal to the ground surface.

MW-16B was completed with a flush-mount protective steel well cover, and the casing for the well was fitted with a watertight expandable plug and padlock. MW-16B/C and MW-17B were not completed with surface mountings. The stainless steel risers for both wells were left approximately 2 feet above ground surface for later completion and fitted with a watertight expandable plug.

Following installation, the monitoring wells were developed by pumping and surging groundwater using a submersible pump to remove sediments, ensure effective communication between the open borehole and fractures in the surrounding formation, and prepare the wells for groundwater sampling. Development continued until the discharge was relatively free of suspended sediments or until the wells were pumped to remove at least three well volumes. Water generated during well development activities was collected in drums and managed in the same manner as other investigation-derived waste. All development activities were conducted with clean equipment to prevent potential cross-contamination between well locations.

3.4.3.1.2 Groundwater Sampling and Analysis

On July 17 and 18, 2012, groundwater samples were collected from MW-16B/C, MW-17B, and MW-16C. Prior to sampling, the wells were purged of three well volumes, or until they were purged dry. All of the purge water was subsequently processed through the IRM DPE System. The pH, specific conductance, temperature, turbidity, and dissolved oxygen were monitored during the purging process with a water quality meter to ensure that representative groundwater quality samples were collected. MW-16B/C and MW-16C were purged and sampled using the low flow groundwater sampling procedures discussed previously. MW-17B was purged and sampled using a peristaltic pump with dedicated polyethylene and silicone tubing. The wells were allowed to recharge for a period of no more than 2 hours, or until water was present in the borehole, before samples were collected. All well sampling was performed in accordance with WSP SOPs. The groundwater samples were analyzed for VOCs by EPA Method 8260B. Analytical results for this groundwater investigation are discussed in Section 4.4.

3.5 Catch Basin and Manhole Clean-Out

During the Pre-Design activities, several feet of petroleum affected sediment were identified in the catch basin east of the fire water reservoir (Figure 2), and LNAPL was observed in a manhole located in the southern portion of Building 2. As discussed and approved by NYSDEC, these structures were targeted for dewatering, sludge removal and characterization, and inspection.

3.5.1 Catch Basin Inspection and Clean-Out

On June 13, 2012, Drain Bain Company conducted a video inspection of the catch basin to the east of the fire water reservoir to confirm the location of subsurface pipe connections and determine if any potential groundwater infiltration points may be present.

On July 2, 2012, a total of seven 55-gallon drums of sludge material (approximately 4,000 pounds) were generated during cleanout of the catch basin. This material was removed by Clean Harbors, Inc. and placed directly in 55-gallon drums. A characterization sample was collected of the sludge material on July 7, 2012 (CatchBasin070712) and shipped under chain of custody to Pace Analytical for analysis of TCL VOCs, SVOCs, and pesticides/PCBs, TAL metals, TPH-DRO, TPH-GRO, and percent moisture. The analytical results are discussed in Section 4 and disposal of the material is discussed in Section 5.

3.5.2 Building 2 Manhole Clean-Out

During investigation of utility trenches inside Building 3, a manhole was discovered in Building 2, near the Building 3 common wall. The manhole was uncovered and found to contain water with a LNAPL layer. Prior to clean-out and inspection, samples of the LNAPL and the water were collected and placed in 1-liter amber jars.

The manhole was evacuated on June 13, 2012, by Clean Harbors, and subsequently inspected by WSP. All of the liquid removed was placed in seven 55-gallon drums totaling approximately 2,800 pounds. Inspection of the manhole indicated the presence of pipe connections extending toward the north and south and a deeper pipe near the bottom of the manhole that extended to the east. Figure 2 illustrates the approximate location of the manhole and identifies the pipe alignment. None of the pipes connected to this manhole were suspected to have connected to the utility trench or conveyor trench, or the storm sewer network.

On June 20, 2012, samples of the water and LNAPL were shipped to Pace Analytical. The water sample was analyzed for TCL VOCs and SVOCs, PCBs, TPH GRO, TPH-DRO, and cyanide. The LNAPL sample was analyzed against the fuel oil fingerprints listed in the previous section (ManholeLNAPL062012). Also, an aqueous sample was collected from the 55-gallon drums that were used to hold the contents from the manhole and analyzed for TCL VOCs and SVOCs, PCBs, and TPH-GRO and -DRO. The analytical results for these samples are discussed in Section 4.5.

3.5.3 Former Cooling Water Pit Investigation

The former cooling water pit located at the north end of Building 4 (Figure 2) was investigated to identify any potentially significant penetrations. Prior to the work, a sample of the static water was collected and analyzed for TCL VOCs. The pit was subsequently dewatered and inspected on July 2, 2012. Water removed from the pit was processed through the IRM DPE System onsite.

Following an inspection, a concrete core drill was used to penetrate the floor of the pit and evaluate the potential for groundwater infiltration (static pressure on the pit). The core (CORE-2, Figure 2) was completed on July 2, 2012. Groundwater infiltration was not noted during the inspection, and bedrock was encountered directly below the concrete floor of the coolant pit. Following inspection the core hole was back filled with bentonite chips and grouted.

4 Results

4.1 MW-14C Groundwater Investigation Results

Table 1 provides a summary of the groundwater sampling results for MW-14C. Analytical results were compared to the New York State Ambient Water Quality Standards or Guidance Values for Class GA groundwater (provided in the New York State Department of Environmental Conservation Division of Water Technical and Operational Guidance Series (1.1.1), dated June 1998, and the April 2000 Addendum).

The primary VOCs detected in the groundwater samples from both the top (550 ft-msl) and lower (544 ft-msl) B-zone fractures during the packer testing of well MW-14C were TCE, cis-1,2-dichloroethene (cis-1,2-DCE), and vinyl chloride, and the concentrations were essentially equal. For example, TCE was detected in the top fracture (550 ft-msl) at a concentration of 58,900 micrograms per liter (µg/l) and in the lower fracture (544 ft-msl) at concentration of 57,800 µg/l. Concentrations of cis-1,2-DCE and vinyl chloride also were similar in the groundwater samples collected from the top (550 ft-msl) and lower (544 ft-msl) fractures. In summary, the packer test results show that VOC concentrations are present at similar levels within both bedding plane fractures observed at MW 14C, which in turn indicates that the fractures are in hydraulic communication and are the primary migration pathways for affected groundwater at the site.

4.2 Concrete Slab and Surface Soil Investigation Results

4.2.1 Concrete Slab Waste Characterization

A total of six concrete core samples plus a duplicate were collected prior to the slab removal (CS-1 through CS-7) in Building 3 and 4. The analytical results are provided in Table 2. Acetone and the PCB congener Aroclor 1254 were the only constituents detected at concentrations above applicable regulatory criteria. Acetone ranged from 284 micrograms per kilogram (µg/kg) up to 25,700 µg/kg, compared to the Unrestricted Use Soil Cleanup Objective (UU-SCO) in New York Codes, Rules and Regulations (NYCRR) Part 375-6.8 (Table 375-6.8(a)) of 50 µg/kg. Aroclor 1254 was detected in one sample at a concentration of 133 µg/kg compared to the UU-SCO of 100 µg/kg. DRO was detected in all samples at concentrations ranging from 43.3 milligrams per kilogram (mg/kg) up to 3,340 mg/kg. None of the TCLP parameters exceeded applicable regulatory criteria for characterization as hazardous waste.

TCE was detected in one concrete core sample (CS-6) at a concentration of 5.0 µg/kg, which although below the applicable regulatory criteria, indicated that the concrete removed from the area between columns 92 and 93 should be profiled as an F-listed hazardous waste. The remaining concrete was characterized as non-hazardous. Disposal of the investigation derived wastes (IDW) is summarized in Section 5 of this report.

4.2.2 Conveyor Trench Sampling Results

During the removal of the concrete slab in Building 3, a conveyor trench was discovered. Samples of the sludge-fill material (both liquid and solids) contained in the trench were sampled and analyzed. (TrenchSludge061112, Table 3, and TrenchLiquid061112, Table 4).

No VOCs were detected in the sludge sample. Total petroleum hydrocarbons (diesel range) were detected at a concentration of 21,900 mg/kg. The liquid sample contained one VOC; naphthalene, which was detected at 2.3 µg/l, which is well below applicable ambient water standards in NYSDEC's Technical and Operational Guidance Series 1.1.1 – Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (TOGS 1.1.1), dated June 1998 (class GA groundwater guidance value = 10 µg/l for naphthalene).

The sludge sample was also analyzed against several different fuel oil fingerprints including number 2 fuel oil, number 4 fuel oil, and number 5 fuel oil, as well as gasoline, kerosene, and lubricating oil (TrenchSludge061112, Table 5). The finger printing analysis was inconclusive and did not align with any of the petroleum products tested (unidentified).

4.3 Test Pit and Soil Boring Investigations

4.3.1 Test Pit Excavations

4.3.1.1 Sanitary Sewer Test Pit Investigations

Two test pits TP-4 and TP-5 were excavated at columns 107 and 108 of Building 3 to assess the foundation type and depth to bedrock west of the building. Visibly stained soil was identified at the base of test pit TP-4. Results of the characterization sample (Column107Spoils; Table 3) showed no detections of TCLP VOCs or SVOCs. TPH-DRO were detected at a concentration of 491 mg/kg. The soil was characterized as non-hazardous, and disposed of off-site. The waste management activities undertaken in support of the investigation and removal work are discussed in Section 5.

4.3.1.2 Building 3 Test Pits Results

Following the slab removal, four exploratory test pits were excavated within Building 3. Two of the test pits were excavated adjacent to columns 105 (TP-6) and 107 (TP-7) and no elevated organic vapors or staining were observed. PID readings at test pit TP-6 ranged from 0 to 1.2 ppm and at test pit TP-7, the maximum PID reading was 0.5 ppm. Because no staining was observed and no elevated PID readings were measured, no soil samples were collected as specified in the approved work plan.

A third test pit (TP-8) was excavated adjacent to the utility trench, near column line 109/110. Headspace testing of excavated soils measured no organic vapors above background. However, once the excavation reached the lower limit of the conveyor trench, oily soil was observed at the base of the conveyor trench. The conveyor trench was subsequently scheduled for further investigation as discussed earlier in Section 3.3.3. Visually impacted soil from this excavation was segregated, and a sample was collected (Stockpile061112, Table 3) for disposal characterization. No VOCs were detected in the soil sample and TPH-DRO were detected at a concentration of 743 mg/kg.

A fourth test pit (TP-9) was excavated in the bay between columns 112 and 113. Because no staining was observed and no elevated PID readings were measured, in accordance with the approved work plan no soil samples were collected.

4.3.1.3 Building 4 and MW-10B Test Pits

Two test pits were excavated on either side of the sanitary sewer that extends through the former degreaser area (TP-10 and TP-11) and a third test pit (TP-12) was excavated to the north of previous soil boring SB-1D (Figure 4); the location where elevated PID readings were previously measured. Figure 4 shows the locations of the three test pits.

Excavated soils were screened in the field using a PID (headspace method) and no PID readings were measured above background in any of the soil samples. Also, no visible indications of stained soils or odors were noted in the excavated soil and excavation cavity. Based on the PID measurements and lack of evidence of impacts, no soil samples were collected for laboratory analysis.

In addition, a single test pit (18 feet x 20 feet) was excavated west of the former degreaser area (Figure 4). The test pit (TP-13) was located between columns 88 and 90 of Building 4 and extended west between monitoring well MW 10B and MW-25B. Head space testing using the PID was completed throughout the excavation to a general excavation depth of 3 feet. In addition, near the locations of MW-10B and MW-25, the screening was conducted at 1 foot intervals down to a final depth of 6 feet bgs. Also, in the vicinity of soil boring SB-101112-1, head space screening was conducted at 1 foot intervals down to a final depth of 8 feet bgs. Photographs of the test pit TP-13 excavation work are included in Appendix A.

No visible staining, odors, or obvious signs of contamination were observed. The maximum organic vapor measurement using the PID was 26.2 ppm in the vicinity of MW-25B at the 0 to 1 foot interval. Due to the low PID readings and lack evidence of any impacts, as specified in the approved work plan, no environmental samples were collected.

4.3.2 Soil Sampling Results

The following subsections discuss the results of soil sampling conducted in the four target areas.

4.3.2.1 Sanitary Sewer Soil Sampling Results

Three direct push soil borings (SB-TP1, SB-TP2, and SB-TP3) were drilled and sampled to assess soil quality directly within the bedding material below the sanitary sewer to the west of Buildings 3 and 4. The analytical results are included in Table 6 [SB-TP-1(4.5-6.5), SB-TP-2(4.5-6.5), and SB-TP-3(4-6)].

Low concentrations of acetone and methylene chloride were detected in SB-TP1 (17.6 µg/kg and 7.2 µg/kg, respectively) and SB-TP2 (14 µg/kg and 7.4 µg/kg, respectively). The concentrations were well below the UU-SCO of 50 µg/kg (same for both constituents). The only constituent detected in SB-TP3 was TCE, which was reported at 3.9 µg/kg which is well below the UU-SCO of 470 µg/kg.

4.3.2.2 Former Degreaser Area Sub-Surface Soil Sampling Results

Soil boring SB-1g and SB-1h were installed within Building 4 at the request of NYSDEC to confirm the results of previous sampling. Soil borings SB-101112-1 through SB-101112-7 were installed west of the former degreaser area to evaluate soil quality upgradient of monitoring well MW-10B.

Based on PID screening, two samples were collected from each of borings SB-1g and SB-1h (4 samples total), and four samples were collected from three of the remaining borings (SB-101112-1, SB-101112-2 and SB-101112-6). Analytical results for these samples are provided in Table 6.

At location SB-1g, TCE (30.7 µg/kg) was the only compound detected in the shallow sample (2 to 5 feet bgs). Both acetone (79.8 µg/kg) and methylene chloride (5.5 µg/kg) were detected in the deeper sample (12 to 13.5 feet bgs) from this location. Acetone was the only parameter that was detected at a concentration above its respective UU-SCO of 50 µg/kg. These results are consistent with previous sampling.

At location SB-1h, there were no detections of VOCs in the shallow sample collected at 5 to 6 feet bgs, and only acetone (12.5 µg/kg), cis-1, 2-DCE (239 µg/kg), and TCE (5.1 µg/kg) were detected in the deeper sample (12 to 14 feet bgs). None of these detections exceeded the respective UU-SCOs, and the results are consistent with previous sampling.

The results of soil samples collected from the area west of the former degreaser show elevated levels of VOCs in one sample (SB-101112-1) collected from an interval immediately above bedrock. The sample from SB-101112-1, which was collected approximately 10 feet west of the former degreaser area at a depth of 13.75 to 15.5 feet bgs, contained cis-1,2-DCE (5,870 µg/kg) and vinyl chloride (9,400 µg/kg) at concentrations above the UU-SCOs (20 µg/kg for each constituent). The sample from SB-101112-2 (collected at a depth of 2.5 to 3.0 feet bgs) contained acetone (74 µg/kg) and vinyl chloride (206 µg/kg) at concentrations above the UU-SCOs (50 µg/kg and 20 µg/kg,

respectively). The deeper sample from SB-101112-2 (14.5 to 15.5 feet bgs) and the sample from SB-101112-6 did not contain any VOCs at concentrations that exceeded the UU-SCOs.

4.3.2.3 Catch Basin Soil Sampling Results

Soil boring SB-24a was installed to investigate the subsurface soil in the vicinity of a catch basin located east of the fire water reservoir (Figure 5). Two soil samples were collected along the southeast corner of the catch basin from intervals of 0 to 2 feet and 2 to 4 feet bgs. The results are summarized in Table 6.

Low concentrations of TCE were detected in each sample, ranging from 43.9 µg/kg to 96.6 µg/kg. The level of TCE in these samples was well below the UU-SCO of 470 µg/kg.

4.3.2.4 Building 2 Soil Sampling Results

Results of soil samples collected to evaluate soil quality below the floor slab in Building 2 and to the west, show that no VOCs were detected in the three samples (SB-070512-1, SB-070512-2, and SB-070512-3) collected from this area. The results are summarized in Table 6 and the locations are depicted in Figure 5.

4.4 Groundwater Investigation Results

4.4.1 Building 4 and AOC – 1 Groundwater Results

Groundwater sample results for wells MW-10B, MW-18B, MW-24B, MW-25B, and MW-26B are summarized in Table 7 and laboratory reports are included in Appendix D.

The total VOC concentrations detected in the September 2012 groundwater sample collected from MW-10B was 96,609 µg/l, and is largely composed of cis-1,2-DCE (57,800 µg/l) and vinyl chloride (35,500 µg/l). TCE and trans-1,2-DCE were also detected in this sample at concentrations of 53.8 µg/l and 2,680 µg/l, respectively. This well is located approximately 15 feet west of the former degreaser area as shown in Figure 6. The results of follow up sampling completed in December 2012 indicated that the sum of these four constituents was 25,738 µg/l.

The sample from MW-18B (Figure 6) did not contain VOCs above the TOGS 1.1.1 standards and guidance values for class GA groundwater criteria. Monitoring well MW-18B is located upgradient and immediately east of the former degreaser area. The groundwater sample from monitoring well MW-24B, which is located inside Building 4 and immediately west of the degreaser area, contained 6.3 µg/l of TCE, 107 µg/l of cis-1,2-DCE, and 9.9 µg/l of vinyl chloride. The groundwater sample from MW-25B contained 24.3 µg/l TCE, 774 µg/l cis-1,2-DCE, and 1,100 µg/l vinyl chloride. Monitoring well MW-25B is located north of MW-10B. The groundwater sample from MW 26B, which is located approximately 10 feet east of the retaining wall contained 47.4 µg/l of TCE, 6,160 µg/l of cis-1,2-DCE, and 3,930 of vinyl chloride. These VOC concentrations, including the groundwater sample collected from MW-10B, exceed the groundwater standards of 5 µg/l for TCE and cis-1,2-DCE, and 2 µg/l for vinyl chloride.

The results of groundwater samples collected from monitoring wells near and within the former degreaser area were used to evaluate the distribution of affected groundwater in the shallow B-zone bedrock. The results indicate that the zone of affected groundwater within shallow bedrock is limited to an area immediately west of the former degreaser in two discontinuous bedding plane fractures at depths of 550 and 544 feet-msl (Figure 8). VOCs were previously not detected to the north (MW-9B) of the former degreaser area and low concentrations of VOCs were detected in groundwater samples collected from wells located to the south (MW-11B) and west (MW-12B).

4.4.2 Building 3 Groundwater Results

Groundwater samples were collected from monitoring wells MW-16C, MW-16B/C, and MW-17B (Figure 6). Table 8 provides the results of the analyses.

In general, the results of the Building 3 groundwater investigation confirmed the findings reported in the “Supplemental Pre-Design Investigation, Fire Water Reservoir, Emerson Power Transmission Facility, Ithaca, New York”, dated June 30, 2011. The specific contaminants that were identified in samples collected in previous sampling (TCE, cis-1,2-DCE, and vinyl chloride) were not detected in any of the groundwater samples collected from either B- or C-zone wells installed beneath Building 3 (Table 8). The groundwater sample from MW-16C contained concentrations of acetone (167 µg/l), toluene (10.2 µg/l), and xylene (16.7 µg/l) that slightly exceeded the respective TOGS 1.1.1 standards and guidance values for class GA groundwater. Only acetone was found in the MW-16B/C sample (113 µg/l) at a concentration above the TOGS 1.1.1 class GA groundwater standard. There were no VOCs detected in the groundwater from MW-17B or in the duplicate sample from that well.

No LNAPL was detected at any of the sampling locations including MW-17B, which was designed as a LNAPL observation well.

4.4.3 MW-10B Pumping Test Results

The results for the MW-10B pumping test are discussed below. Raw transducer data are provided in Appendix E. Initial and final water levels for each test are provided in Table 9. Graphical plots of the drawdown data are provided in Figure 7.

4.4.3.1 Short-Term Step Test Results

The initial pumping rate during the step test was 0.05 gallons per minute (gpm) and was increased at 15 minute increments to a final pumping rate of 0.7 gpm (Table 9). Total drawdown of 4.89 feet was observed 1 hour after initiation of the step test, which corresponds approximately with the depth of the pump intake. The normalized water column height (H/H_0) at the end of the test was 0.084 (Figure 7). The total volume purged during the step test was approximately 3 gallons, which is slightly greater than the calculated well volume of 2.7 gallons based on an assumed porosity of the annular filter pack of 0.3.

Minimal water level declines were observed in the observation wells during the step test, with the water levels in MW-24B, MW-25B, and MW-26B declining 0.01, 0.03, and 0.02 foot respectively during the 1-hour test (Table 9). The magnitude of these changes is comparable to background water level fluctuations in the wells, and the drawdown curves do not indicate systematic declines during the duration of the tests (Figure 7).

4.4.3.2 Recovery Test Results

Water levels in MW-10B began recharging immediately after cessation of pumping and for the subsequent 5.5 hours. During this time period, the response data followed an asymptotic curve typical of recovery after aquifer tests (Figure 7). No discernible response to the cessation of pumping is recorded in any of the observation wells during the immediate time period after the end of the step test. Background water levels in MW-26B continued to decline along a relatively steady slope even as recovery occurs in MW-10B. The response curves for MW-24B and MW-25B remained flat.

The long-term recovery data for MW-10B indicate a remarkably steady recharge rate of 0.27 feet per day for the duration of the week-long recovery test. No peaks or major fluctuations occur in the response curve that would correlate with changes in the water levels in the observation wells discussed below.

Two rainfall events occurred during the recovery test between October 18 and 19, 2012 and on October 23, 2012. Climate data collected at a weather station located in Binghamton, New York, by the National Oceanic and Atmospheric Association indicate precipitation amounts of approximately 1.1 inch and 0.6 inch, respectively, on

these dates. The water level in MW-26B increased by approximately 4 feet during the first event and 3 feet during the second event, indicating that surface runoff likely entered the open wellhead. These increases were followed by periods of slowly declining water levels (e.g., less than 1 foot per day) after the cessation of rainfall. Similar fluctuations in water levels occurred at MW-25B during these two precipitation events, where water levels increased by approximately 0.4 foot, on both October 19 and October 23, 2012.

The water level data monitoring results from MW-24B, which is located inside Building No. 4, indicate a delayed aquifer response to the two rainfall events observed in MW-25B and MW-26B (Figure 7). Groundwater elevations at MW-24B increased by approximately 0.1 foot during the subsequent 16-hour time period after the rainfall event on October 19, 2012. This increase was followed by three days of declining water levels. A similar increase of approximately 0.06 foot occurred during the subsequent 12-hour time period after the October 23, 2012, precipitation event.

In contrast to the responses to precipitation discussed above, no response was observed in the water level data collected from MW-10B. The response curve for this well indicates a remarkably steady recharge rate of 0.27 feet per day for the duration of the week-long recovery test with no peaks or fluctuations correlative with changes in the response curves from the observation wells. This recharge rate corresponds to a volumetric recharge of approximately 0.1 gallons per day, assuming a porosity of 0.3 in the annular filter pack. At the end of the recovery test, residual drawdown in MW-10B on October 25, 2012, was still 2.23 feet below the initial water level recorded on October 17, 2012 (Table 9), indicating water levels in the well had not fully recovered.

4.4.3.3 Constant Rate Test Results

The constant rate test produced similar results to the step test. The pumping rate was set at 0.03 to 0.04 gpm, which was the minimum sustainable pumping rate that could be achieved by the peristaltic pump. Nevertheless, drawdown occurred immediately, and total drawdown of 2.69 feet, corresponding with the pump intake at the bottom of the well, occurred within 49 minutes of initiation of the test. A total of approximately 1.5 gallons of water was purged from MW-10B during the constant rate test, which is equivalent to the calculated volume of the saturated length of the borehole, assuming a porosity of 0.3 for the annular filter pack. No drawdown response was observed in any of the three observation wells.

4.4.3.4 Summary

During both the step test and the constant rate test, steady state pumping conditions could not be achieved due to the very low yield of the aquifer, and pumping was terminated when drawdown reached the pump intake at the bottom of the well. The results indicate that there is little hydraulic connection between MW-10B and the three observation wells (MW-24B, MW-25B, and MW-26B). The data from the three observation wells indicated no systematic drawdown during pumping at MW-10B or recovery at the cessation of pumping. Additionally, the slow recovery rate (approximately 2.5 feet over 1 week) measured at MW-10B indicates that the open interval of this well does not intercept any major conductive fractures. The steady response curve is absent of any data artifacts associated with two observed precipitation events, or changes in barometric pressure, and is therefore most indicative of the primary porosity of the siltstone bedrock underlying the EPT site.

Connectivity between the three observation wells cannot be fully assessed by the current data set. Although the results of the step test and constant rate test do not indicate systematic responses in water levels in the three observation wells during pumping, systematic changes were observed in the observation wells during the 2-week long recovery test in response to rainfall events. In the case of MW-25B and MW-26B, the pronounced increases in water levels during the rainfall events likely indicate that surface runoff entered the open wells. The delayed water level response to rainfall in MW-24B is probably indicative of bulk aquifer recharge in response to the precipitation events.

In March and April 2014, WSP conducted additional aquifer characterization testing in Area of Concern 1 and the results were reported to the NYSDEC on June 10, 2014. The results of this testing were consistent with the MW 10B aquifer characterization testing. Accordingly, no additional aquifer testing is proposed at this time.

4.5 Catch Basin and Manhole Sludge Sample Results

Sludge material and liquids removed from the fire water reservoir catch basin and the Building 2 manhole were sampled and analyzed for waste characterization purposes and to determine whether either should be further investigated as a potential source of VOCs in groundwater. Table 3 provides the results of the sample analysis.

The results indicate that no VOCs or TPH-GRO were detected in the sludge sample, and none of the metals detected exceeded the UU-SCOs. There was a single pesticide (endosulfan I, 3.1 µg/kg) with a concentration that slightly exceeded the UU-SCO (2.4 µg/kg). The PCB congener aroclor-1254 was detected at a concentration of 918 µg/kg, which also slightly exceeded the UU-SCO (100 µg/kg). There were various SVOCs detected at concentrations that exceeded the UU-SCOs by more than 2 orders of magnitude. Similar to the trench sludge (Section 4.2.3), the sample constituents were largely dominated by TPH-DRO, which were detected at a concentration of 18,300 mg/kg.

This catch basin sample was also analyzed against several different fuel oil fingerprints including number 2 fuel oil, number 4 fuel oil, and number 5 fuel oil, as well as gasoline, kerosene, and lubricating oil (CatchBasin070212, Table 5). The finger printing analysis was inconclusive (unidentified) and did not align with any of the petroleum products tested.

Water and LNAPL samples were collected from the Building 2 manhole. The water sample (Manhole062012) results are in Table 4. The LNAPL sample (ManholeLNAPL062012) results are in Table 5. The drum liquid sample (ManholeDrums062012) results are also in Table 4.

The results of the water sample collected from the manhole indicate that no VOCs or SVOCs were detected. Cyanide was detected at a very low concentration (0.015 mg/l) compared to the TOGS 1.1.1 class GA groundwater standard of 0.2 mg/l. The dominant parameters found in the sample were TPH-DRO which were detected at a concentration of 36.3 mg/l. The fingerprint analysis was inconclusive and did not align well with any of the petroleum products tested (unidentified).

There were no VOCs detected in the water sample collected from the drums filled during the manhole clean-out work, and only a trace detection of SVOCs [bis(2-ethylhexyl)phthalate: 1 µg/l] identified. TPH-DRO was also detected in the sample at a very low concentration (0.66 mg/l) compared to the in-situ grab sample. Cyanide was detected at a very low concentration (0.0099 mg/l) compared to the TOGS 1.1.1 class GA groundwater standard of 0.2 mg/l.

The LNAPL sample that was analyzed using the petroleum fingerprint analysis did not contain any of the specific petroleum products, but instead was classified as Unidentified (550,000 mg/kg). This sample was analyzed as a solid due to the high solids content of the LNAPL (sludge).

4.6 Summary of Results

4.6.1 MW-14C Packer Testing and Building 3 Investigation

Two discrete groundwater samples were collected within the B-zone at MW-14C (installed across two fracture zones; 550 and 544 ft-msl) to determine whether the constituents in this well could be isolated to one of the two fractures. Using a packer assembly, discrete samples were collected from each fracture. In summary, the concentrations detected in each discrete sample were comparable. For example, TCE was detected at 58,900 µg/l and 57,800 µg/l in the two samples (within 2% variance). This finding confirms that the two fracture zones are hydraulically connected.

The purpose of the Building 3 slab removal work was to gather additional data on soil quality immediately below the floor slab in Building 3 east of the fire water reservoir area. A summary of the investigation results is presented below:

-
- Visual inspection and head-space screening did not identify impacted soil or fill material below the Building 3 floor slab.
 - Two concrete structures were found beneath the floor slab - the utility trench (open trench with electrical conduit) and the conveyor trench (concrete trench found filled with soil and oily sludge material). Upon removal of the oily soil (approximately 360 cubic feet (21 tons)) and sludge (seven 55-gallon drums) from the conveyor trench, LNAPL was identified, sampled and collected. The LNAPL did not contain the site-related VOCs (TCE, cis-1,2-DCE, and vinyl chloride), and largely comprised of TPH-DRO. The LNAPL and sludge were removed to the extent of the elevator shaft to the south, where an oily sheen and staining were observed. Sludge removal was also completed to the limit of the floor removal to the north.
 - Numerous test pits were excavated during the investigation including the vicinity of the sanitary sewer running beneath the site roadway; along the interior and exterior of the west wall of Building 3; and at several locations inside the concrete removal area in Building 3. Soil staining was identified in one test pit located along the exterior wall of Building 3. The impacted soil was sampled and removed. No soil impacts were identified in Building 3.
 - Soil samples were collected adjacent to the sanitary sewer beneath the site roadway, and adjacent to the Fire Water Reservoir. Although the samples did contain low levels of TCE (below the UU-SCOs), no potential sources of contamination or migration pathways were identified.
 - Three groundwater monitoring wells were installed upgradient of MW-05-40 in order to evaluate the area beneath Building 3 as a potential source area. No Site-related VOCs or LNAPL were detected in any of the samples collected from these three wells. Based on the groundwater investigation, no new potential sources of contamination were identified beneath Building 3.

A manhole was discovered north of Building 3, which contained water, LNAPL, and oily sludge. Samples of these materials were collected and analyzed for characterization purposes. Neither the LNAPL nor the sludge contained the site-related VOCs (TCE, cis-1, 2-DCE, and vinyl chloride). Concentrations of TPH-DRO were detected in all samples; similar to what was detected the sample of the conveyor trench sludge. A total of seven 55-gallon drums of liquids were collected and containerized for disposal.

4.6.2 Building 4 and AOC -1 Investigation

The primary objective of the investigation in Building 4 and AOC-1 was to define the extent of elevated concentrations of site-related constituents (TCE and the degradation by-products, cis-1, 2-DCE and vinyl chloride) at MW-10B and evaluate potential sources of the VOCs. A summary of the findings is presented below:

- Removal and characterization of the concrete floor slab in a section of Building 4 identified trace levels of TCE in the concrete. The concentrations were not considered a significant finding in terms of identifying a source of the contamination downgradient of the area.
- Visual inspection, head-space screening, and sampling results did not identify impacted soil or fill material below the Building 4 floor slab, west of the building, or within the bedding material along the sanitary sewer west of Building 4.
- Three groundwater monitoring wells (MW-24B, MW-25B, and MW-26B) were installed surrounding MW-10B (upgradient, cross-gradient, and down-gradient), and one groundwater monitoring well was installed further upgradient inside Building 4 (MW-18B). No Site-related VOCs were detected in the upgradient well in Building 4. Site-related VOCs were identified in the monitoring wells surrounding MW-10B, but no potential source of the VOCs was identified (Figure 8). The area of affected groundwater around MW-10B has not been fully defined. As requested by the NYSDEC, additional investigation, including bedrock elevation mapping, groundwater VOC delineation, source identification, and a remedial alternatives evaluation, will be conducted.
- A groundwater pumping test was performed at MW-10B to evaluate the hydraulic connection of surrounding wells (MW-24B, MW-25B, and MW-26B). In summary, the wells were found to be poorly connected, with little hydraulic response to pumping at MW-10B. The poor hydraulic connection between MW-10B and the

surrounding aquifer may help to explain the restricted area of affected groundwater that persists around MW 10B.

- A series of seven subsurface soil borings were installed in the area between MW-10B and the former degreaser (two inside Building 4 and the remainder outside). Elevated levels of VOCs were detected in a soil sample collected from immediately above bedrock in one boring (SB-101112-1). This boring is located approximately 10 feet northeast of MW-10B and appears to be an isolated area of affected soil.

5 Investigation-Derived Waste Disposal Summary

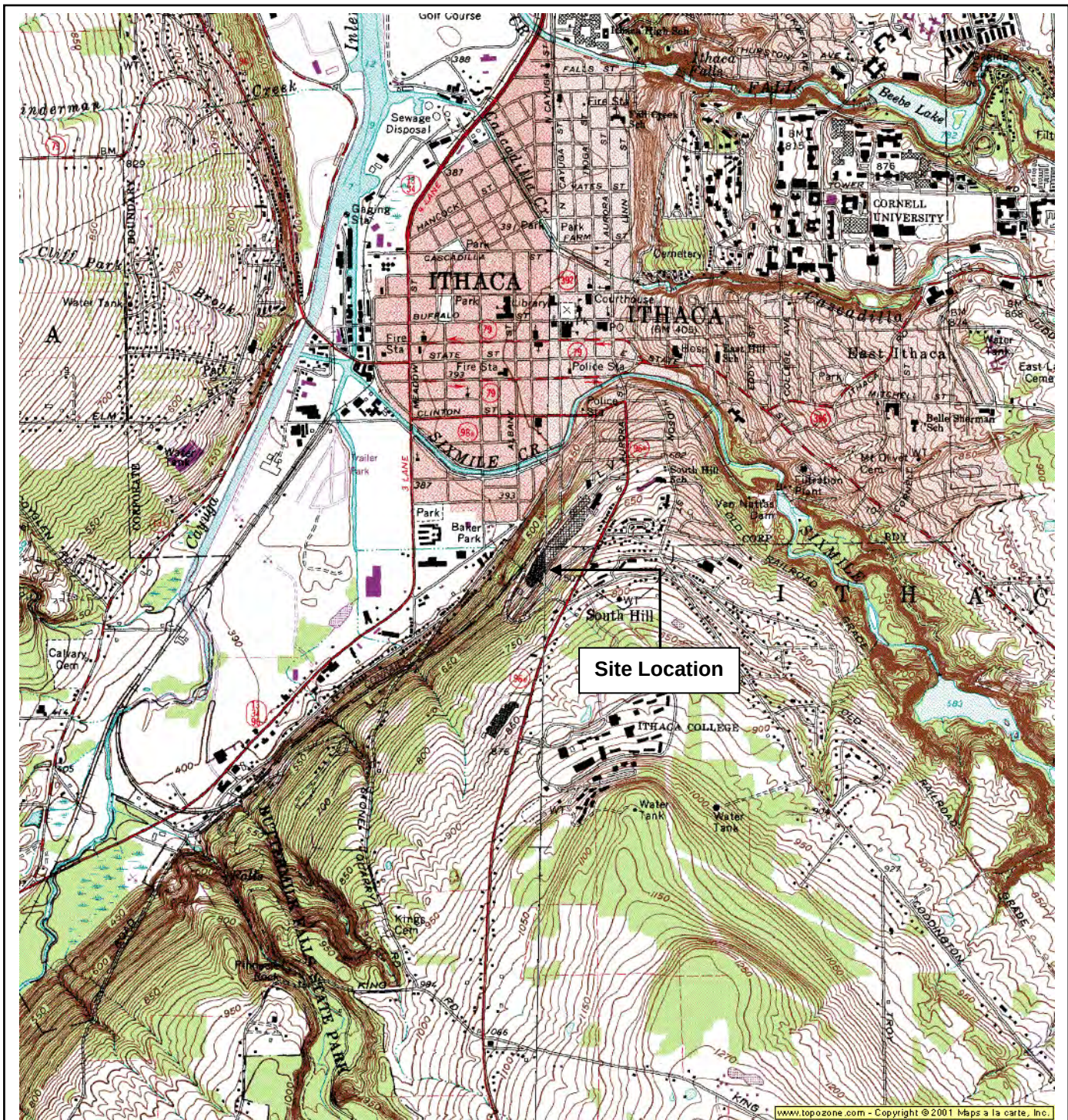
The following six waste streams were generated during the Pre-Design Investigation:

1. Hazardous Waste Concrete Debris: Due to the presence of TCE in sample CS-6, located in the former Degreaser Area in Building 4, the concrete area between columns 92 and 93 was managed as an F-listed hazardous waste. The concrete was placed into thirteen 55-gallon Department of Transportation (DOT)-compliant drums and designated (F001 – RQ NA3077, Hazardous Waste, Solid, N.O.S., (Trichloroethene), 9, PG III). The drums were transported by Clean Harbors Environmental Services Inc., on September 10, 2012, to the Clean Harbors' El Dorado Facility, in El Dorado, Arkansas. The hazardous waste manifest and waste disposal certificate are included in Appendix F.
2. Non-Hazardous Waste Concrete Debris: The remaining concrete from Buildings 3 and 4 was characterized as non-hazardous and stockpiled in a staging area in the upper parking lot following removal. The staging area consisted of a polyethylene under-liner, a 3-inch perimeter gravel berm, and a polyethylene sheeting and tarp cover (photograph 8, Appendix A). All non-hazardous concrete debris waste was transported by Mix Brother, Inc. to High Acres Landfill, operated by Waste Management, in Fairport, New York. A total of 372.41 tons of non-hazardous concrete was transported offsite between June 6 and June 13, 2012. The non-hazardous waste manifests and scale tickets for the 13 shipments are included in Appendix F.
3. Non-Hazardous Soil – Building 3 Conveyor Trench Cleanout and Column 107 Test Pit: A total of 30.13 tons of non-hazardous waste soil was generated during the trench cleanout and test pit activities in Building 3. The soil and solidified sludge were staged inside the building, adjacent to the work area. Waste characterization samples were collected on June 11, 2012 (Column107Spoils and Stockpile061112, Table 3), and are discussed in Section 3.3. These materials were loaded into two roll-off containers and subsequently shipped to the Waste Management High Acres Landfill in Fairport, New York and the paperwork for is included in Appendix F.
4. Non-Hazardous Sludge – Building 3 Conveyor Trench: A total of seven 55-gallon drums of sludge material (approximately 4,000 pounds) were generated during the conveyor trench cleanout. This material was removed by Clean Harbors, Inc., and was placed directly in 55-gallon DOT-compliant drums. A waste characterization sample was collected on June 11, 2012 (TrenchSludge061112, Table 3), and is discussed in Section 3.3. This material was transported by Clean Harbors to the Spring Grove Resource Recovery, Inc. facility in Cincinnati, Ohio. The manifests are included in Appendix F.
5. Non-Hazardous Groundwater/Oil Mixture – Building 3 Conveyor Trench: A total of four totes of water containing oil (approximately 6,500 pounds) were generated during the conveyor trench cleanout work and subsequent testing activities. A waste characterization sample was collected on June 11, 2012 (TrenchLiquid061112, Table 4) and is discussed in Section 3.3. This material was transported by Clean Harbors, to the Spring Grove Resource Recovery, Inc. facility in Cincinnati, Ohio. The manifest is included in Appendix F.
6. Non-Hazardous Soil/Oil/Wood Debris/Water – Catch Basin East of Reservoir: A total of 7 55-gallon drums of sludge material (approximately 4,000 pounds) were generated during cleanout of the catch basin located to the east of the reservoir. This material was placed in 55-gallon drums. A waste characterization sample was collected on July 7, 2012 (CatchBasin070712, Table 3) and is discussed in Section 3.5. This material was transported by Clean Harbors to the Spring Grove Resource Recovery, Inc. facility Cincinnati, Ohio. The paperwork including manifest, is included in Appendix F.
7. Non-Hazardous Drilling Fluids and Decon Water: A total of seven 55-gallon drums of liquid material (approximately 2,800 pounds) were generated during the cleaning of the manhole discovered in Building 3. This material was placed directly in 55-gallon drums. A waste characterization sample was collected on June 20, 2012 (ManholeDrums062012, Table 4), and is discussed in Section 3.5.2. This material was transported by Clean Harbors to the Spring Grove Resource Recovery, Inc. facility in Cincinnati, Ohio. The paperwork, including the manifest, is included in Appendix F.

6 Acronyms

bgs	below ground surface
cis-1,2-DCE	<i>cis</i> -1,2-dichloroethene
DOT	Department of Transportation
DRO	diesel range organics
EPA	U.S. Environmental Protection Agency
EPT	Emerson Power Transmission
ER	electrical resistivity
GRO	gasoline range organics
ID	inside diameter
IRM	Interim Remedial Measure
LNAPL	light non-aqueous phase liquid
μg/kg	micrograms per kilogram
μg/l	micrograms per liter
NYSDEC	New York State Department of Environmental Conservation
PID	photoionization detector
PPM	parts per million
RQD	Rock Quality Designation
SOPs	standard operating procedures
TAL	target analyte list
TCE	trichloroethene
TCL	target compound list
TCLP	toxicity characteristic leaching procedures
TPH	total petroleum hydrocarbons
VOC	volatile organic compounds

Figures



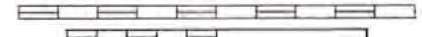
Reference

7.5 Minute Series Topographic Quadrangle
Ithaca East, New York
Photorevised 1976 Scale 1:25,000 Metric



Scale in Meters

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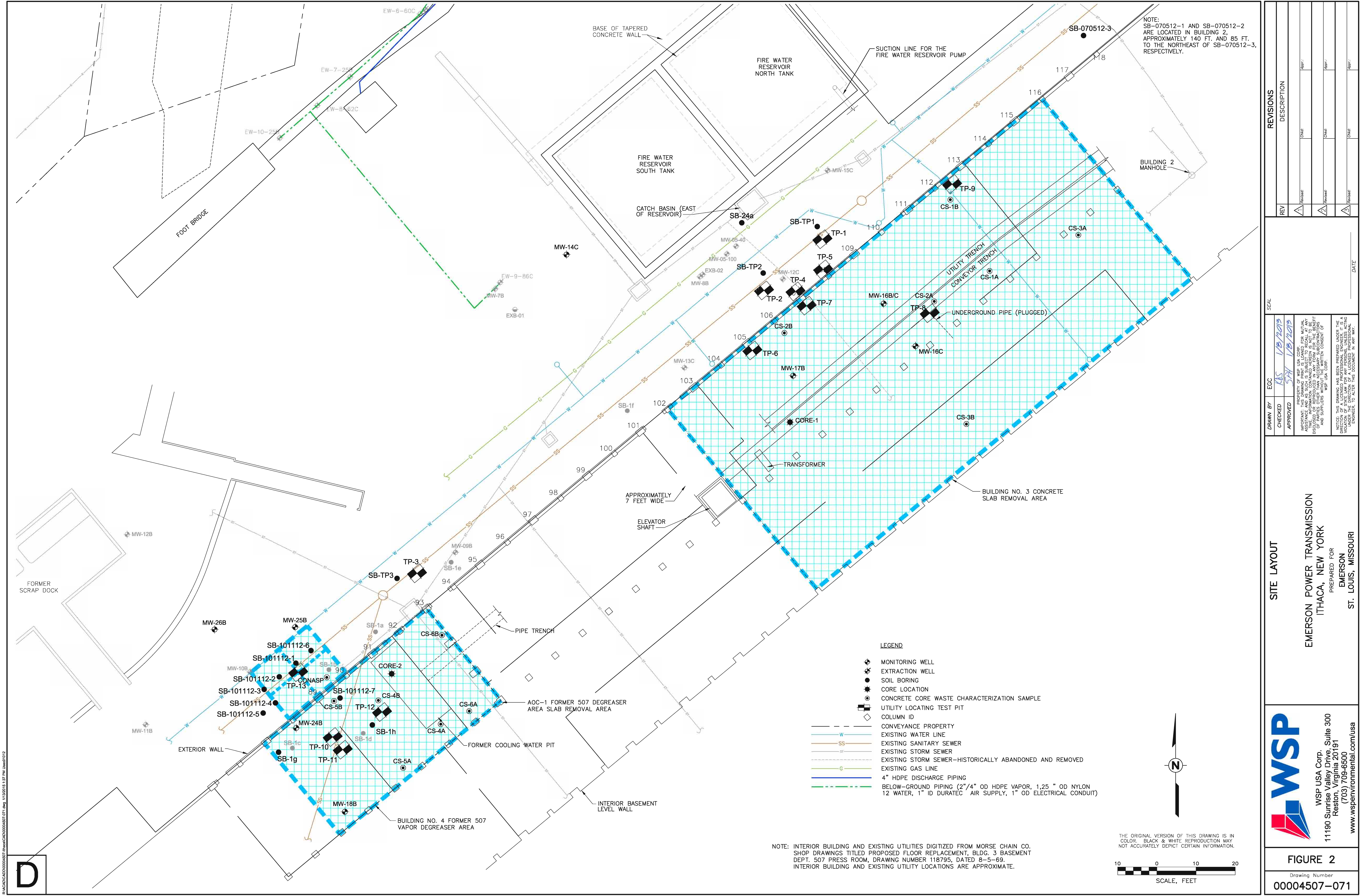
0 1000 2000

Scale in Feet



WSP USA Corp.
11190 Sunrise Valley Drive
Suite 300
Reston, Virginia 20191
703-709-6500

Figure 1
Site Location
Emerson Power Transmission
Ithaca, New York



REVISIONS	
REV	DESCRIPTION

DATE	BY	APP'D	DATE	BY	APP'D

SEAL

DATE

DRAWN BY: EEC

CHECKED: KAS 1/8/2013

APPROVED: SHH 1/8/2013

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SITE LAYOUT

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PREPARED FOR

EMERSON

ST. LOUIS, MISSOURI

WSP

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Reston, Virginia 20191

(703) 709-6500

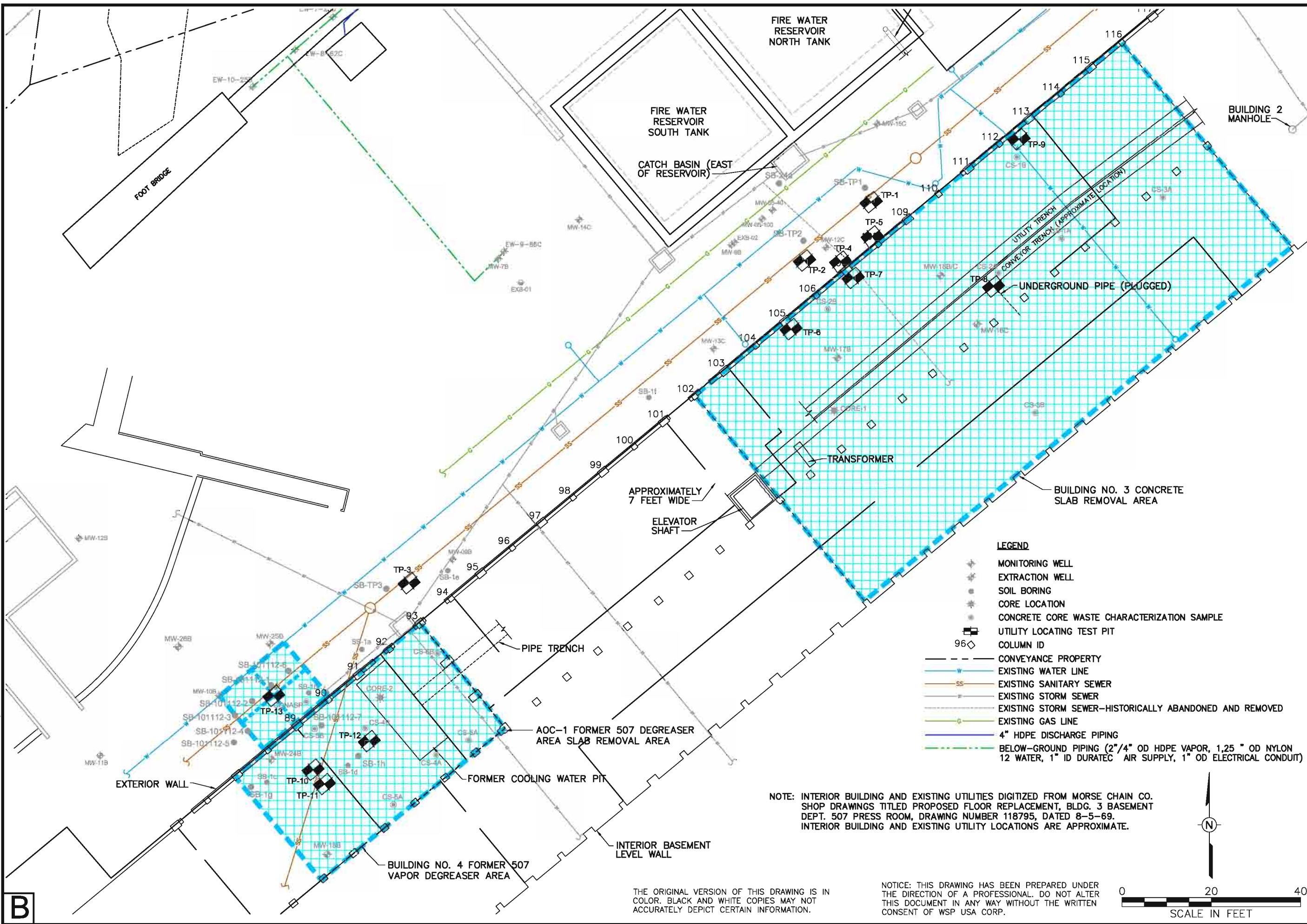
www.wspenvironmental.com/usa

FIGURE 2

Drawing Number

00004507-071

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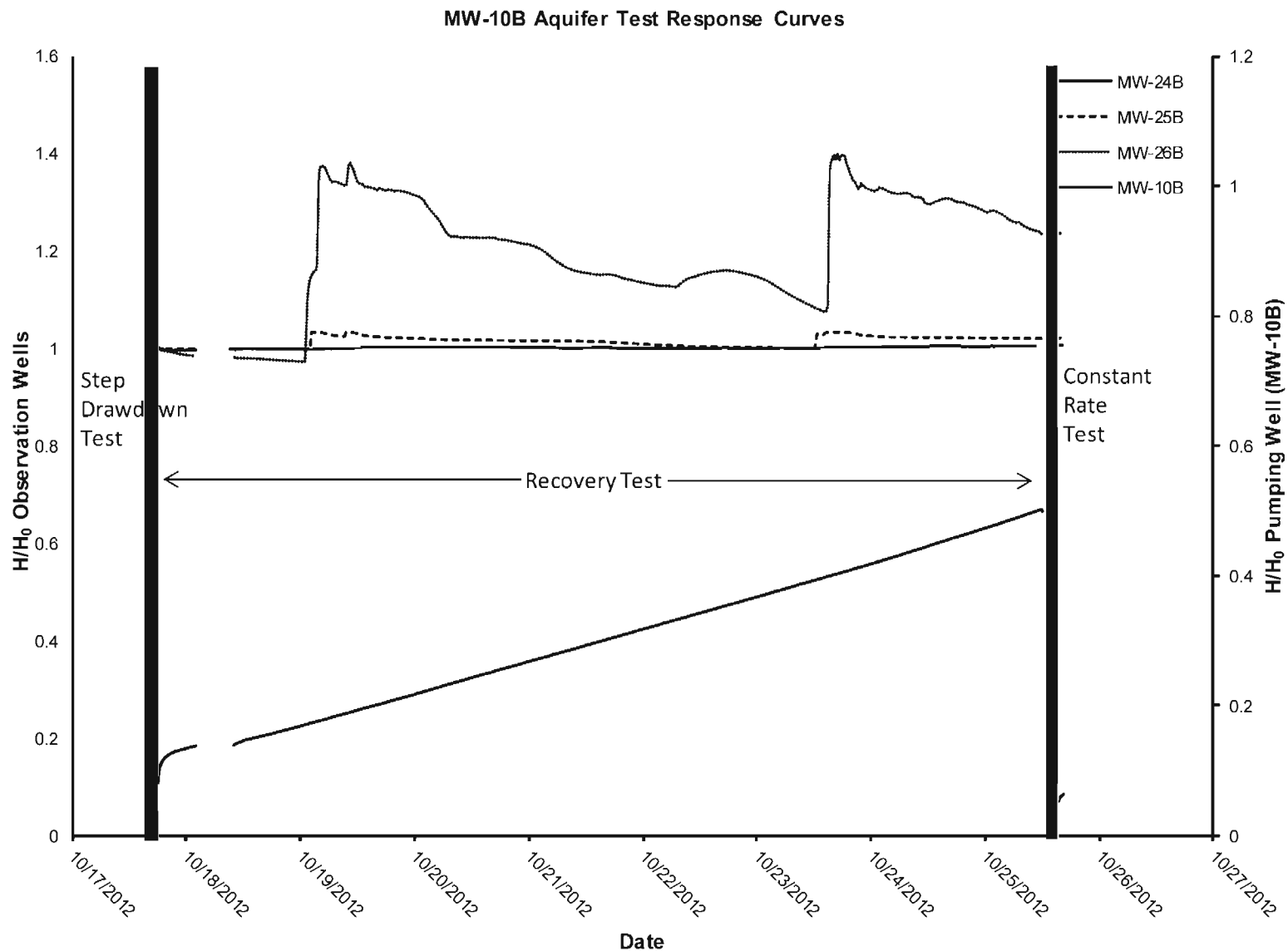
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ITHACA, NEW YORK

Figure 4
TEST PIT LOCATIONS

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Checked: DL 1/23/2013
Approved: KJS 1/23/2013
DWG Name: 00004507-084





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Figure 7
MW-10B
PUMPING TEST PLOTS

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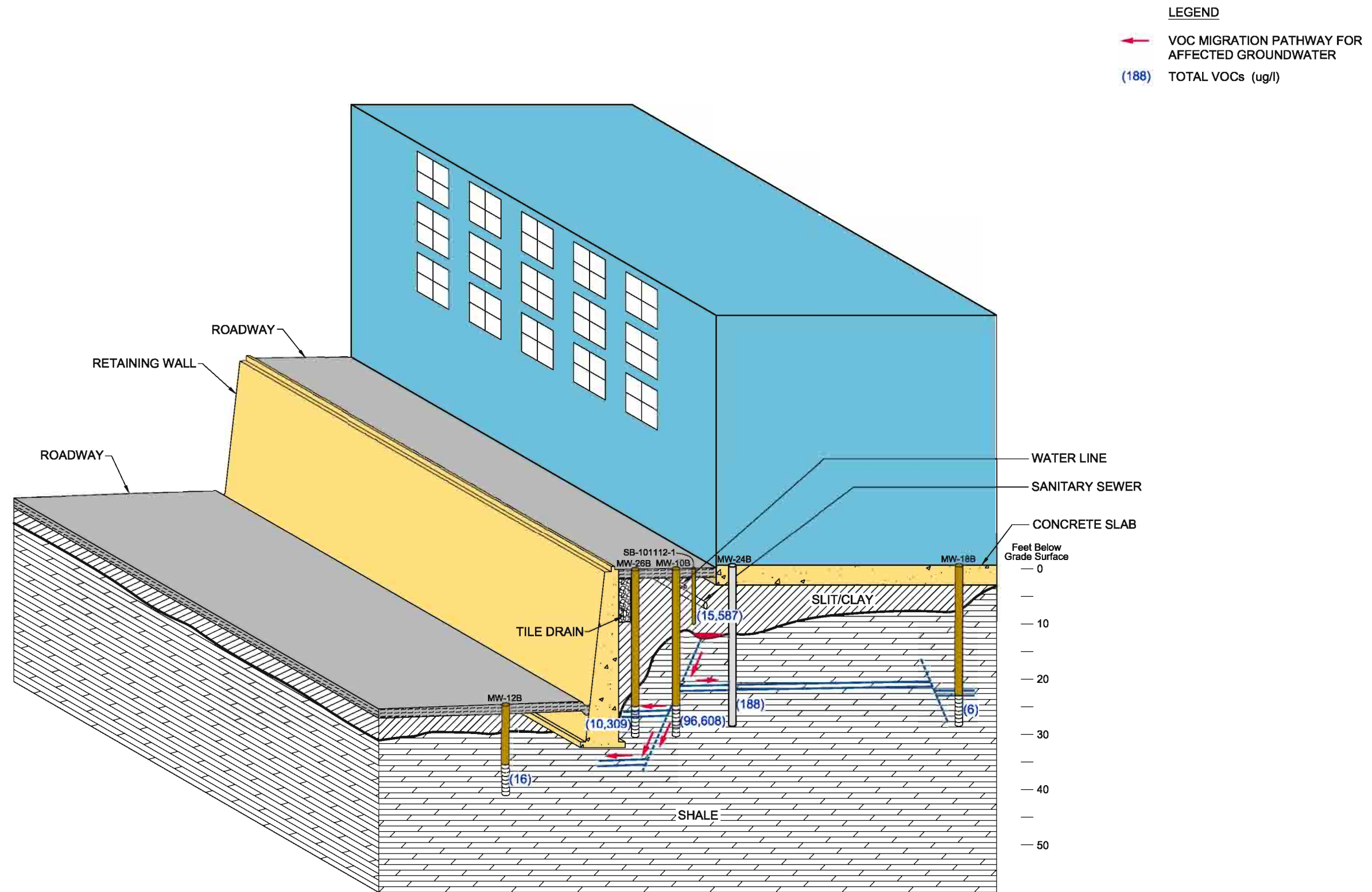
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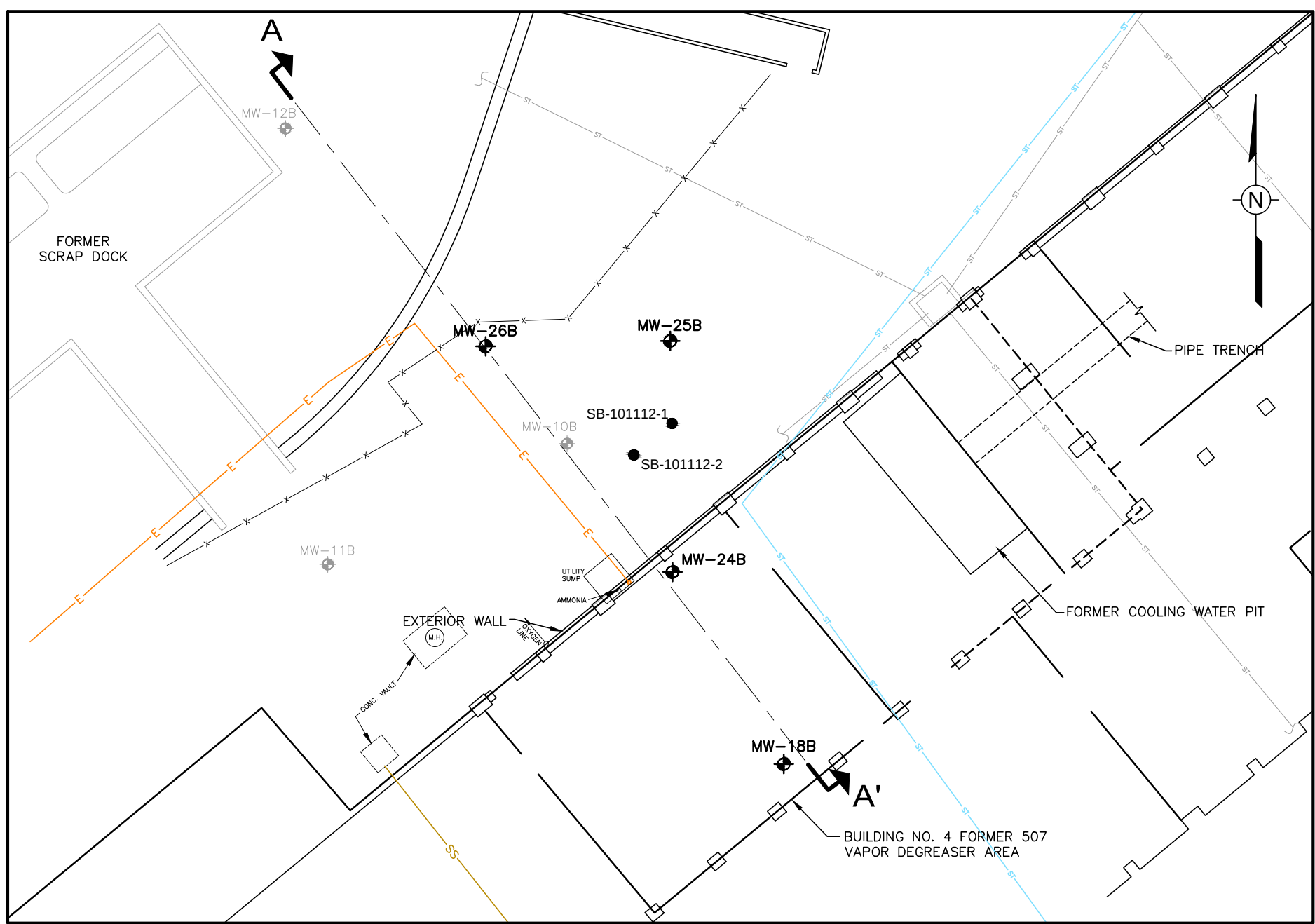
Figure 8

SITE CONCEPTUAL MODEL (BLOCK DIAGRAM)
AFFECTED GROUNDWATER MIGRATION PATHWAYS

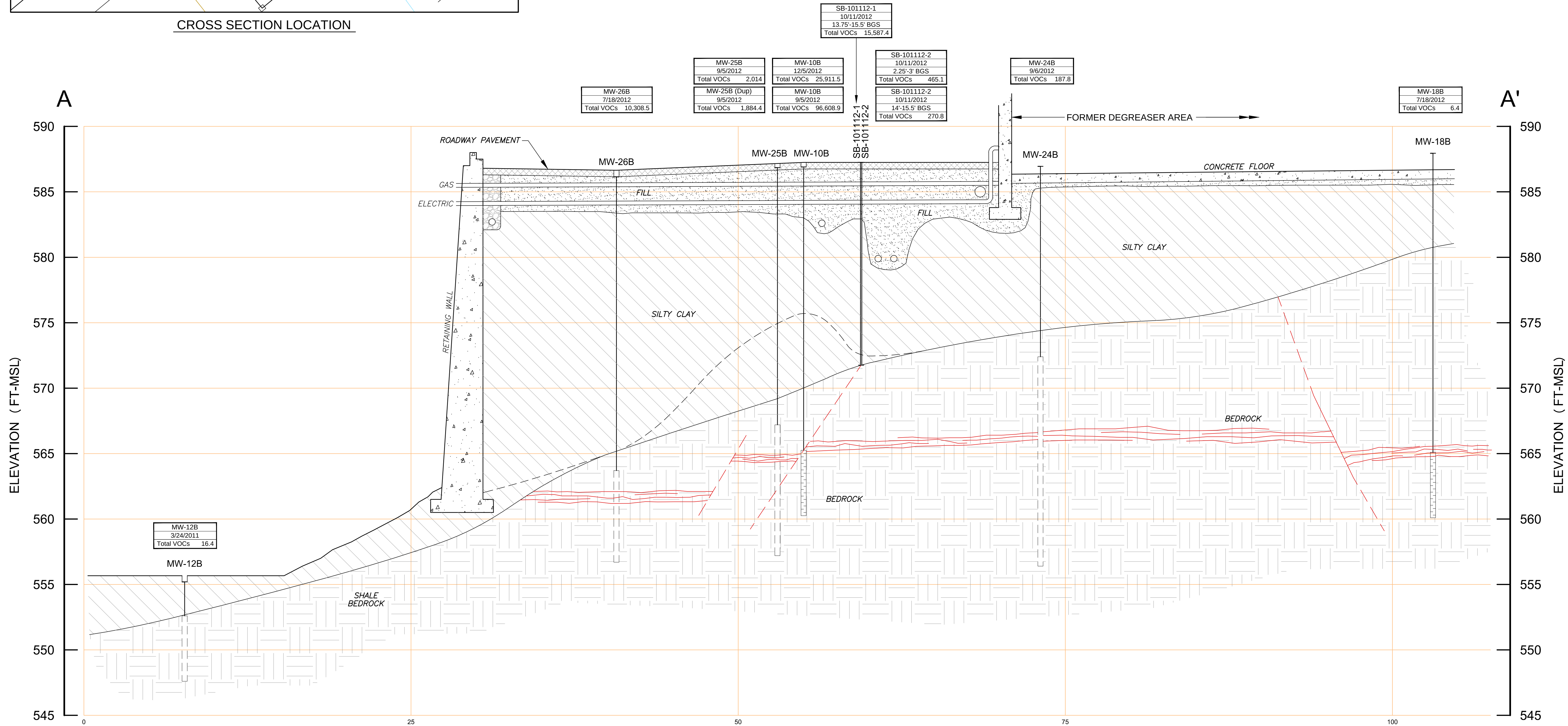
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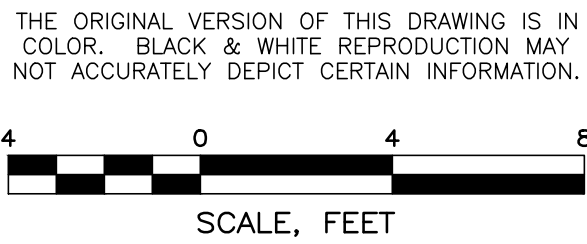
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CROSS SECTION LOCATION



CROSS SECTION A-A'



REVISIONS		DESCRIPTION
REV	DATE	
1	7/18/2012	Initial
2	7/18/2012	Revised
3	7/18/2012	Revised
4	7/18/2012	Revised
5	7/18/2012	Revised

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WSP
WSP USA Corp.
750 Holiday Drive, Suite 410
Pittsburgh, Pennsylvania 15220
(412) 604-1040
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FIGURE 9

Drawing Number
00004507-D09

Tables

Table 1
MW-14C Groundwater Sampling Analytical Results
Supplemental Pre-Design Investigation
Emerson Power Transmission
Ithaca, New York

Sample ID: Matrix: Date: Description:		MW-14C (TF) Groundwater 03/20/12 Top Fracture Groundwater Sample	MW-14C (TF) Dup Groundwater 03/20/12 Top Fracture Groundwater Sample	MW-14C (LF) Groundwater 03/21/12 Lower Fracture Groundwater Sample
VOCs (ug/l)^a	TOGS 1.1.1 (ug/l)			
Benzene	1.0	2.4	2.3	2.6
1,1-Dichloroethane	5.0	4.2	4.5	4.4
1,2-Dichloroethane	0.6	1.4	1.6	1.6
1,1-Dichloroethene	5.0	71.4	80.1	76.9
cis-1,2-Dichloroethene	5.0	20,400	21,400	19,800
Ethylbenzene	5.0	1.0 U	1.0	1.1
trans-1,2-Dichloroethene	5.0	1.0 U	268	174
Tetrachloroethene	5.0	14.5	15.1	17.0
Toluene	5.0	6.8	7.1	311
Trichloroethene	5.0	58,900	61,800	57,800
Vinyl Chloride	2.0	531	566	458
Xylene	5.0	3.0 U	3.0	6.8

Bold value indicates concentration above the evaluation criteria

a/ ug/L = micrograms per liter.

Eval. Criteria = Evaluation criteria are the New York State Ambient Water Quality Standards or Guidance Values for Class GA groundwater provided in the NYSDEC Division of Water Technical and Operational Guidance Series (1.1.1), dated June 1998, and the April 2000 Addendum.

TF = 'Top Fracture', encountered at 37.5' below ground surface.

LF = 'Lower Fracture', encountered at 43.5' below ground surface.

Data Qualifiers:

U = analyte not detected above laboratory reporting limit

Table 2
Concrete Core Samples - Waste Characterization Analytical Results
Supplemental Pre-Design Investigation
Emerson Power Transmission
Ithaca, New York

Sample ID:	CS-1	CS-2	CS-3	CS-4	CS-5	CS-6	CS-7
Matrix:	Solid	Solid	Solid	Solid	Solid	Solid	Solid
Date:	5/21/2012	5/21/2012	5/21/2012	5/21/2012	5/21/2012	5/21/2012	5/21/2012
Time:	14:20	14:50	17:15	15:49	16:05	16:35	11:40
Description:	Concrete Core Sample	Concrete Core Sample	Concrete Core Sample	Concrete Core Sample	Concrete Core Sample	Concrete Core Sample	Concrete Core Sample
VOCs (µg/kg)							
Acetone	284	3,450	10,400	21,400	3,600	7,450	25,700
Benzene	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	7.8	ND	ND	ND	ND
Tetrachloroethene	18	ND	ND	ND	173	ND	ND
Toluene	ND	16.9	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	5.0	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND
Xylene (Total)	ND	ND	ND	ND	ND	ND	ND
Total VOCs	18	3,467	10,408	21,400	3,773	7,455	25,700

Table 2
Concrete Core Samples - Waste Characterization Analytical Results
Supplemental Pre-Design Investigation
Emerson Power Transmission
Ithaca, New York

Sample ID:	CS-1	CS-2	CS-3	CS-4	CS-5	CS-6	CS-7
Matrix:	Solid	Solid	Solid	Solid	Solid	Solid	Solid
Date:	5/21/2012	5/21/2012	5/21/2012	5/21/2012	5/21/2012	5/21/2012	5/21/2012
Time:	14:20	14:50	17:15	15:49	16:05	16:35	11:40
Description:	Concrete Core Sample	Concrete Core Sample	Concrete Core Sample	Concrete Core Sample	Concrete Core Sample	Concrete Core Sample	Concrete Core Sample
SVOCs (µg/kg)							
Acenaphthene	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	ND	ND	ND	ND	ND	ND	ND
Butylbenzylphthalate	ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND
3&4-Methylphenol(m&p Cresol)	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol(o-Cresol)	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND	ND	ND
Phenol	ND	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND	ND
Total SVOCs	ND	ND	ND	ND	ND	ND	ND

Table 2
Concrete Core Samples - Waste Characterization Analytical Results
Supplemental Pre-Design Investigation
Emerson Power Transmission
Ithaca, New York

Sample ID:	CS-1	CS-2	CS-3	CS-4	CS-5	CS-6	CS-7
Matrix:	Solid	Solid	Solid	Solid	Solid	Solid	Solid
Date:	5/21/2012	5/21/2012	5/21/2012	5/21/2012	5/21/2012	5/21/2012	5/21/2012
Time:	14:20	14:50	17:15	15:49	16:05	16:35	11:40
Description:	Concrete Core Sample	Concrete Core Sample	Concrete Core Sample	Concrete Core Sample	Concrete Core Sample	Concrete Core Sample	Concrete Core Sample
Metals (mg/kg)							
Aluminum	3,350	6,690	9,540	5,920	5,420	6,240	9,640
Antimony	ND	ND	ND	ND	ND	ND	ND
Arsenic	2.1	3.8	5.7	7.1	3.9	3.3	4.8
Barium	37.6	80.1	122	87.5	175	79.8	54.6
Beryllium	ND	ND	0.36	ND	ND	ND	ND
Boron	7.9	11.2	10.8	13.7	10.6	11.7	12.2
Cadmium	ND	ND	0.3	1.5	ND	ND	ND
Calcium	336,000	243,000	124,000	245,000	267,000	244,000	202,000
Chromium	4.5	13.3	10.3	8.7	7.3	25.3	30
Cobalt	6.2	6.3	19.8	30.2	5.6	5.4	5.9
Copper	9.5	11	22	25.9	8.5	8.9	17.4
Iron	6,130	8,650	11,900	8,280	7,750	8,160	13,400
Lead	4.3	6.7	8.4	10.5	4.9	5.3	11.5
Magnesium	6,590	13,700	8,270	11,700	12,400	12,200	11,900
Manganese	1,080	571	391	691	778	615	391
Mercury	ND	ND	ND	ND	ND	ND	ND
Molybdenum	ND	1.3	ND	2.7	ND	2	ND
Nickel	7.5	11.1	13.2	14.4	9.7	14.5	15
Potassium	689	1,080	1,260	1,410	943	1,290	949
Selenium	ND	0.62	0.84	1.1	0.86	0.59	0.99
Silver	ND	ND	0.52	0.69	ND	ND	ND
Sodium	ND	533	410	357	ND	328	ND
Thallium	ND	ND	ND	ND	ND	ND	ND
Vanadium	5.4	10.9	15.6	9.8	8.7	10	16.7
Zinc	10.3	22.9	79.8	419	17.8	17.8	85.6

Table 2
Concrete Core Samples - Waste Characterization Analytical Results
Supplemental Pre-Design Investigation
Emerson Power Transmission
Ithaca, New York

Sample ID:	CS-1	CS-2	CS-3	CS-4	CS-5	CS-6	CS-7
Matrix:	Solid	Solid	Solid	Solid	Solid	Solid	Solid
Date:	5/21/2012	5/21/2012	5/21/2012	5/21/2012	5/21/2012	5/21/2012	5/21/2012
Time:	14:20	14:50	17:15	15:49	16:05	16:35	11:40
Description:	Concrete Core Sample	Concrete Core Sample	Concrete Core Sample	Concrete Core Sample	Concrete Core Sample	Concrete Core Sample	Concrete Core Sample
Pesticides (µg/kg)							
Aldrin	ND	ND	ND	ND	ND	ND	ND
alpha-BHC	ND	ND	ND	ND	ND	ND	ND
alpha-Chlordane	ND	ND	ND	ND	ND	ND	ND
beta-BHC	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	ND	ND	ND	ND	ND	ND	ND
delta-BHC	ND	ND	ND	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	3.1	ND	3.8	ND	2.9	ND	ND
Endosulfan II	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND	ND	ND	ND
Endrin	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	8.7	ND	10.3	ND	6.3	ND	ND
Endrin ketone	ND	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	ND	ND	ND	ND	ND	ND	ND
gamma-Chlordane	ND	ND	ND	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND	ND	ND	ND

Table 2
Concrete Core Samples - Waste Characterization Analytical Results
Supplemental Pre-Design Investigation
Emerson Power Transmission
Ithaca, New York

Sample ID:	CS-1	CS-2	CS-3	CS-4	CS-5	CS-6	CS-7
Matrix:	Solid	Solid	Solid	Solid	Solid	Solid	Solid
Date:	5/21/2012	5/21/2012	5/21/2012	5/21/2012	5/21/2012	5/21/2012	5/21/2012
Time:	14:20	14:50	17:15	15:49	16:05	16:35	11:40
Description:	Concrete Core Sample	Concrete Core Sample	Concrete Core Sample	Concrete Core Sample	Concrete Core Sample	Concrete Core Sample	Concrete Core Sample
PCBs (µg/kg)							
PCB-1016 (Aroclor 1016)	ND	ND	ND	ND	ND	ND	ND
PCB-1221 (Aroclor 1221)	ND	ND	ND	ND	ND	ND	ND
PCB-1232 (Aroclor 1232)	ND	ND	ND	ND	ND	ND	ND
PCB-1242 (Aroclor 1242)	ND	ND	ND	ND	ND	ND	ND
PCB-1248 (Aroclor 1248)	ND	ND	ND	ND	ND	ND	ND
PCB-1254 (Aroclor 1254)	ND	71	40.3	ND	133	21.3	25
PCB-1260 (Aroclor 1260)	ND	ND	ND	ND	ND	ND	ND
Total PCBs	ND	71	40.3	ND	133	21.3	25
TPH-DRO (mg/kg)							
Diesel Components	1,440	2,380	3,340	43.3	1,770	818	183
TPH-GRO (mg/kg)							
Gasoline Range Organics	ND	ND	ND	ND	48.5	ND	ND
TPH (C06-C10)	ND	ND	ND	ND	45.1	ND	ND
Reactivity (mg/kg)							
Cyanide, Reactive	ND	ND	ND	ND	ND	ND	ND
Sulfide, Reactive	ND	ND	ND	ND	ND	ND	ND
Miscellaneous Parameters (units listed below)							
pH at 25 Degrees °C (S.U.)	12.4	12.5	12.3	12.3	12.5	12.6	12.3
Percent Moisture	4.5	4.9	6	4	4.8	3.7	3.1
Flashpoint (°F)	>200	>200	>200	>200	>200	>200	>200

Table 2
Concrete Core Samples - Waste Characterization Analytical Results
Supplemental Pre-Design Investigation
Emerson Power Transmission
Ithaca, New York

Sample ID:	CS-1	CS-2	CS-3	CS-4	CS-5	CS-6	CS-7
Matrix:	Solid	Solid	Solid	Solid	Solid	Solid	Solid
Date:	5/21/2012	5/21/2012	5/21/2012	5/21/2012	5/21/2012	5/21/2012	5/21/2012
Time:	14:20	14:50	17:15	15:49	16:05	16:35	11:40
Description:	Concrete Core Sample	Concrete Core Sample	Concrete Core Sample	Concrete Core Sample	Concrete Core Sample	Concrete Core Sample	Concrete Core Sample
VOCs - TCLP (µg/l)							
Benzene	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND
SVOCs - TCLP (µg/l)							
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
Hexachloro-1,3-butadiene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND
3&4-Methylphenol(m&p Cresol)	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol(o-Cresol)	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND
Pyridine	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND

Table 2
Concrete Core Samples - Waste Characterization Analytical Results
Supplemental Pre-Design Investigation
Emerson Power Transmission
Ithaca, New York

Sample ID:	CS-1	CS-2	CS-3	CS-4	CS-5	CS-6	CS-7
Matrix:	Solid	Solid	Solid	Solid	Solid	Solid	Solid
Date:	5/21/2012	5/21/2012	5/21/2012	5/21/2012	5/21/2012	5/21/2012	5/21/2012
Time:	14:20	14:50	17:15	15:49	16:05	16:35	11:40
Description:	Concrete Core Sample	Concrete Core Sample	Concrete Core Sample	Concrete Core Sample	Concrete Core Sample	Concrete Core Sample	Concrete Core Sample
Metals - TCLP (mg/l)							
Arsenic	ND	ND	ND	ND	ND	ND	ND
Barium	ND	ND	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND	ND	ND
Chromium	ND	ND	ND	ND	ND	0.12	0.21
Lead	ND	ND	ND	ND	ND	ND	ND
Mercury	ND	ND	ND	ND	ND	ND	ND
Selenium	ND	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND
Pesticides - TCLP (µg/l)							
Chlordane (Technical)	ND	ND	ND	ND	ND	ND	ND
Endrin	ND	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND	ND	ND	ND

a/ Abbreviations: VOCs = volatile organic compounds; SVOCs = semi-volatile organic compounds; PCBs = polychlorinated biphenyls; µg/kg = micrograms per kilogram; mg/kg = milligram per kilogram; µg/l = micrograms per liter; mg/l = milligram per liter; S.U. Standard Units; TCLP = toxicity characteristic leaching procedure; ND = analyte not detected above Reporting Limit; TPH-DRO = total petroleum hydrocarbons - diesel range organics; TPH-GRO = total petroleum hydrocarbons - gasoline range organics.

Table 3
Grab Samples - Soil and Sludge Sampling Analytical Results
Supplemental Pre-Design Investigation
Emerson Power Transmission
Ithaca, New York

Sample ID:	TrenchSludge061112	Column107Spoils	Stockpile061112	CatchBasin070212
Matrix:	Sludge	Soil	Soil	Sludge
Date:	6/11/2012	6/11/2012	6/11/2012	7/2/2012
Time:	13:22	13:40	13:55	15:30
Description:	Sludge Grab Sample	Soil Grab Sample	Soil Grab Sample	Sludge Grab Sample
VOCs (µg/kg)				
Acetone	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
2-Butanone (MEK)	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND
m&p-Xylene	NS	NS	NS	ND
Methyl acetate	ND	ND	ND	NS
4-Methyl-2-pentanone (MIBK)	ND	ND	ND	ND
Methylcyclohexane	ND	ND	ND	NS
Methylene Chloride	ND	ND	ND	ND
Naphthalene	ND	ND	ND	NS
Tetrachloroethene	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND
Xylene (Total)	ND	ND	ND	ND
Total VOCs	ND	ND	ND	ND

Table 3
Grab Samples - Soil and Sludge Sampling Analytical Results
Supplemental Pre-Design Investigation
Emerson Power Transmission
Ithaca, New York

Sample ID:	TrenchSludge061112	Column107Spoils	Stockpile061112	CatchBasin070212
Matrix:	Sludge	Soil	Soil	Sludge
Date:	6/11/2012	6/11/2012	6/11/2012	7/2/2012
Time:	13:22	13:40	13:55	15:30
Description:	Sludge Grab Sample	Soil Grab Sample	Soil Grab Sample	Sludge Grab Sample
SVOCs (µg/kg)				
Acenaphthene	NS	NS	NS	78,400
Acenaphthylene	NS	NS	NS	2,950
Anthracene	NS	NS	NS	105,000
Benzo(a)anthracene	NS	NS	NS	244,000
Benzo(a)pyrene	NS	NS	NS	221,000
Benzo(b)fluoranthene	NS	NS	NS	287,000
Benzo(g,h,i)perylene	NS	NS	NS	90,100
Benzo(k)fluoranthene	NS	NS	NS	120,000
bis(2-Ethylhexyl)phthalate	NS	NS	NS	29,500
Butylbenzylphthalate	NS	NS	NS	30,200
Chrysene	NS	NS	NS	257,000
Dibenz(a,h)anthracene	NS	NS	NS	24,300
Dibenzofuran	NS	NS	NS	70,200
Fluoranthene	NS	NS	NS	652,000
Fluorene	NS	NS	NS	93,500
Indeno(1,2,3-cd)pyrene	NS	NS	NS	92,000
2-Methylnaphthalene	NS	NS	NS	37,400
3&4-Methylphenol(m&p Cresol)	NS	NS	NS	6,610
2-Methylphenol(o-Cresol)	NS	NS	NS	1,980
Naphthalene	NS	NS	NS	134,000
Phenanthrene	NS	NS	NS	741,000
Phenol	NS	NS	NS	4,960
Pyrene	NS	NS	NS	593,000
Total SVOCs	NS	NS	NS	3,916,100

Table 3
Grab Samples - Soil and Sludge Sampling Analytical Results
Supplemental Pre-Design Investigation
Emerson Power Transmission
Ithaca, New York

Sample ID:	TrenchSludge061112	Column107Spoils	Stockpile061112	CatchBasin070212
Matrix:	Sludge	Soil	Soil	Sludge
Date:	6/11/2012	6/11/2012	6/11/2012	7/2/2012
Time:	13:22	13:40	13:55	15:30
Description:	Sludge Grab Sample	Soil Grab Sample	Soil Grab Sample	Sludge Grab Sample
Metals (mg/kg)				
Aluminum	NS	NS	NS	3,350
Antimony	NS	NS	NS	ND
Arsenic	NS	NS	NS	2.1
Barium	NS	NS	NS	37.6
Beryllium	NS	NS	NS	ND
Boron	NS	NS	NS	7.9
Cadmium	NS	NS	NS	ND
Calcium	NS	NS	NS	336,000
Chromium	NS	NS	NS	4.5
Cobalt	NS	NS	NS	6.2
Copper	NS	NS	NS	9.5
Iron	NS	NS	NS	6,130
Lead	NS	NS	NS	4.3
Magnesium	NS	NS	NS	6,590
Manganese	NS	NS	NS	1,080
Mercury	NS	NS	NS	ND
Molybdenum	NS	NS	NS	ND
Nickel	NS	NS	NS	7.5
Potassium	NS	NS	NS	689
Selenium	NS	NS	NS	ND
Silver	NS	NS	NS	ND
Sodium	NS	NS	NS	ND
Thallium	NS	NS	NS	ND
Vanadium	NS	NS	NS	5.4
Zinc	NS	NS	NS	10.3

Table 3
Grab Samples - Soil and Sludge Sampling Analytical Results
Supplemental Pre-Design Investigation
Emerson Power Transmission
Ithaca, New York

Sample ID:	TrenchSludge061112	Column107Spoils	Stockpile061112	CatchBasin070212
Matrix:	Sludge	Soil	Soil	Sludge
Date:	6/11/2012	6/11/2012	6/11/2012	7/2/2012
Time:	13:22	13:40	13:55	15:30
Description:	Sludge Grab Sample	Soil Grab Sample	Soil Grab Sample	Sludge Grab Sample
Pesticides (µg/kg)				
Aldrin	NS	NS	NS	ND
alpha-BHC	NS	NS	NS	ND
alpha-Chlordane	NS	NS	NS	ND
beta-BHC	NS	NS	NS	ND
4,4'-DDD	NS	NS	NS	ND
4,4'-DDE	NS	NS	NS	ND
4,4'-DDT	NS	NS	NS	ND
delta-BHC	NS	NS	NS	ND
Dieldrin	NS	NS	NS	ND
Endosulfan I	NS	NS	NS	3.1
Endosulfan II	NS	NS	NS	ND
Endosulfan sulfate	NS	NS	NS	ND
Endrin	NS	NS	NS	ND
Endrin aldehyde	NS	NS	NS	8.7
Endrin ketone	NS	NS	NS	ND
gamma-BHC (Lindane)	NS	NS	NS	ND
gamma-Chlordane	NS	NS	NS	ND
Heptachlor	NS	NS	NS	ND
Heptachlor epoxide	NS	NS	NS	ND
Methoxychlor	NS	NS	NS	ND
Toxaphene	NS	NS	NS	ND

Table 3
Grab Samples - Soil and Sludge Sampling Analytical Results
Supplemental Pre-Design Investigation
Emerson Power Transmission
Ithaca, New York

Sample ID:	TrenchSludge061112	Column107Spoils	Stockpile061112	CatchBasin070212
Matrix:	Sludge	Soil	Soil	Sludge
Date:	6/11/2012	6/11/2012	6/11/2012	7/2/2012
Time:	13:22	13:40	13:55	15:30
Description:	Sludge Grab Sample	Soil Grab Sample	Soil Grab Sample	Sludge Grab Sample
PCBs (µg/kg)				
PCB-1016 (Aroclor 1016)	NS	NS	NS	ND
PCB-1221 (Aroclor 1221)	NS	NS	NS	ND
PCB-1232 (Aroclor 1232)	NS	NS	NS	ND
PCB-1242 (Aroclor 1242)	NS	NS	NS	ND
PCB-1248 (Aroclor 1248)	NS	NS	NS	ND
PCB-1254 (Aroclor 1254)	NS	NS	NS	918
PCB-1260 (Aroclor 1260)	NS	NS	NS	ND
Total PCBs	NS	NS	NS	918
TPH-DRO (mg/kg)				
Diesel Components	21,900	491	743	18,300
TPH-GRO (mg/kg)				
Gasoline Range Organics	ND	ND	ND	ND
TPH (C06-C10)	ND	ND	ND	ND
Miscellaneous Parameter				
Percent Moisture	18.1	14.1	13.0	45.3

Table 3
Grab Samples - Soil and Sludge Sampling Analytical Results
Supplemental Pre-Design Investigation
Emerson Power Transmission
Ithaca, New York

Sample ID:	TrenchSludge061112	Column107Spoils	Stockpile061112	CatchBasin070212
Matrix:	Sludge	Soil	Soil	Sludge
Date:	6/11/2012	6/11/2012	6/11/2012	7/2/2012
Time:	13:22	13:40	13:55	15:30
Description:	Sludge Grab Sample	Soil Grab Sample	Soil Grab Sample	Sludge Grab Sample
VOCs - TCLP (µg/l)				
Benzene	NS	ND	NS	NS
2-Butanone (MEK)	NS	ND	NS	NS
Carbon tetrachloride	NS	ND	NS	NS
Chlorobenzene	NS	ND	NS	NS
Chloroform	NS	ND	NS	NS
1,1-Dichloroethene	NS	ND	NS	NS
1,2-Dichloroethane	NS	ND	NS	NS
Tetrachloroethene	NS	ND	NS	NS
Trichloroethene	NS	ND	NS	NS
Vinyl chloride	NS	ND	NS	NS

Table 3
Grab Samples - Soil and Sludge Sampling Analytical Results
Supplemental Pre-Design Investigation
Emerson Power Transmission
Ithaca, New York

Sample ID:	TrenchSludge061112	Column107Spoils	Stockpile061112	CatchBasin070212
Matrix:	Sludge	Soil	Soil	Sludge
Date:	6/11/2012	6/11/2012	6/11/2012	7/2/2012
Time:	13:22	13:40	13:55	15:30
Description:	Sludge Grab Sample	Soil Grab Sample	Soil Grab Sample	Sludge Grab Sample
SVOCs - TCLP (µg/l)				
1,4-Dichlorobenzene	NS	ND	NS	NS
2,4-Dinitrotoluene	NS	ND	NS	NS
Hexachloro-1,3-butadiene	NS	ND	NS	NS
Hexachlorobenzene	NS	ND	NS	NS
Hexachloroethane	NS	ND	NS	NS
3&4-Methylphenol(m&p Cresol)	NS	ND	NS	NS
2-Methylphenol(o-Cresol)	NS	ND	NS	NS
Nitrobenzene	NS	ND	NS	NS
Pentachlorophenol	NS	ND	NS	NS
Pyridine	NS	ND	NS	NS
2,4,5-Trichlorophenol	NS	ND	NS	NS
2,4,6-Trichlorophenol	NS	ND	NS	NS

a/ Abbreviations: VOCs = volatile organic compounds; SVOCs = semi-volatile organic compounds; PCBs = polychlorinated biphenyls; µg/kg = micrograms per kilogram; mg/kg = milligram per kilogram; µg/l = micrograms per liter; mg/l = milligram per liter; TCLP = toxicity characteristic leaching procedure; ND = analyte not detected above Reporting Limit; NS = the sample was not analyzed for the listed parameter; TPH = total petroleum hydrocarbons..

Table 4
Grab Samples - Aqueous Sampling Analytical Results
Supplemental Pre-Design Investigation
Emerson Power Transmission
Ithaca, New York

Sample ID:	TrenchLiquid06112	Building4Pit061112	Manhole062012	ManholeDrums062012
Matrix:	Aqueous	Aqueous	Aqueous	Aqueous
Date:	6/11/2012	6/11/2012	6/20/2012	6/20/2012
Time:	13:30	14:10	12:10	13:00
Description:	Groundwater Grab Sample	Water Grab Sample	Water Grab Sample	Water Grab Sample
VOCs (µg/L)				
Acetone	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
2-Butanone (MEK)	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND
Isopropylbenzene (Cumene)	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND
Naphthalene	2.3	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND
Xylene (Total)	ND	ND	ND	ND
Total VOCs	2.3	ND	ND	ND

Table 4
Grab Samples - Aqueous Sampling Analytical Results
Supplemental Pre-Design Investigation
Emerson Power Transmission
Ithaca, New York

Sample ID:	TrenchLiquid06112	Building4Pit061112	Manhole062012	ManholeDrums062012
Matrix:	Aqueous	Aqueous	Aqueous	Aqueous
Date:	6/11/2012	6/11/2012	6/20/2012	6/20/2012
Time:	13:30	14:10	12:10	13:00
Description:	Groundwater Grab Sample	Water Grab Sample	Water Grab Sample	Water Grab Sample
SVOCs (µg/L)				
Acenaphthene	NS	NS	ND	ND
Acenaphthylene	NS	NS	ND	ND
Anthracene	NS	NS	ND	ND
Benzo(a)anthracene	NS	NS	ND	ND
Benzo(a)pyrene	NS	NS	ND	ND
Benzo(b)fluoranthene	NS	NS	ND	ND
Benzo(g,h,i)perylene	NS	NS	ND	ND
Benzo(k)fluoranthene	NS	NS	ND	ND
bis(2-Ethylhexyl)phthalate	NS	NS	ND	1.0
Butylbenzylphthalate	NS	NS	ND	ND
Chrysene	NS	NS	ND	ND
Dibenz(a,h)anthracene	NS	NS	ND	ND
Dibenzofuran	NS	NS	ND	ND
Fluoranthene	NS	NS	ND	ND
Fluorene	NS	NS	ND	ND
Indeno(1,2,3-cd)pyrene	NS	NS	ND	ND
2-Methylnaphthalene	NS	NS	ND	ND
3&4-Methylphenol(m&p Cresol)	NS	NS	ND	ND
2-Methylphenol(o-Cresol)	NS	NS	ND	ND
Naphthalene	NS	NS	ND	ND
Phenanthrene	NS	NS	ND	ND
Phenol	NS	NS	ND	ND
Pyrene	NS	NS	ND	ND
Total SVOCs	NS	NS	ND	1.0

Table 4
Grab Samples - Aqueous Sampling Analytical Results
Supplemental Pre-Design Investigation
Emerson Power Transmission
Ithaca, New York

Sample ID:	TrenchLiquid06112	Building4Pit06112	Manhole062012	ManholeDrums062012
Matrix:	Aqueous	Aqueous	Aqueous	Aqueous
Date:	6/11/2012	6/11/2012	6/20/2012	6/20/2012
Time:	13:30	14:10	12:10	13:00
Description:	Groundwater Grab Sample	Water Grab Sample	Water Grab Sample	Water Grab Sample
Cyanide (mg/L) Cyanide	NS	NS	0.015	0.0099
PCBs (µg/L) PCB-1016 (Aroclor 1016)	NS	NS	ND	ND
PCB-1221 (Aroclor 1221)	NS	NS	ND	ND
PCB-1232 (Aroclor 1232)	NS	NS	ND	ND
PCB-1242 (Aroclor 1242)	NS	NS	ND	ND
PCB-1248 (Aroclor 1248)	NS	NS	ND	ND
PCB-1254 (Aroclor 1254)	NS	NS	ND	ND
PCB-1260 (Aroclor 1260)	NS	NS	ND	ND
Total PCBs	NS	NS	ND	ND
TPH - DRO (mg/L) Diesel Components	NS	NS	36.3	0.66
TPH - GRO (µg/l) TPH (C06-C10)	NS	NS	ND	ND

a/ Abbreviations: VOCs = volatile organic compounds; SVOCs = semi-volatile organic compounds; PCBs = polychlorinated biphenyls; µg/kg = micrograms per kilogram; mg/kg = milligram per kilogram; µg/l = micrograms per liter; mg/l = milligram per liter; ND = analyte not detected above Reporting Limit; NS = the sample was not analyzed for the listed parameter; TPH-DRO = total petroleum hydrocarbons - diesel range organics; TPH-GRO = total petroleum hydrocarbons - gasoline range organics.

Table 5
Petroleum Fingerprinting Analytical Results
Supplemental Pre-Design Investigation
Emerson Power Transmission
Ithaca, New York

Sample ID:	TrenchSludge061112	ManholeLNAPL062012	CatchBasin070212
Matrix:	Sludge	LNAPL	Sludge
Date:	6/11/2012	6/20/2012	7/2/2012
Time:	13:22	12:00	15:30
Description:	Sludge Grab Sample	LNAPL Grab Sample	Sludge Grab Sample
Analyte (mg/kg) (a)			
Fuel Oil #2	ND	ND	ND
Fuel Oil #4	ND	ND	ND
Fuel Oil #5	ND	ND	ND
Gasoline (b)	ND	ND	ND
Kerosene	ND	ND	ND
Lubricating Oil	(c)	(d)	(c)
Unidentified	57,000	550,000	24,000

a/ Abbreviations: mg/kg = milligrams per kilogram; ND = analyte not detected above Reporting Limit; LNAPL = light non-aqueous phase liquid.

b/ Analyzed using NYSDOH Method 310.13.

Parameter is reported as either present or not present.

c/ Petroleum hydrocarbon chromatogram was not a perfect match with any of the standards, but most closely resembles motor oil.

d/ Petroleum hydrocarbon chromatogram was not a perfect match with any of the standards, but contains a distribution in the C12 to C29 carbon range. The result was quantified using a C9 to C36 alkane standard.

Table 6
Sub-Surface Soil Sampling Analytical Results
Supplemental Pre-Design Investigation
Emerson Power Transmission
Ithaca, New York

Sample ID: Matrix: Date: Sample Interval (ft bgs): Description:	SB-TP1 Solid 6/25/2012 4.5 to 6.5 Soil Sample	SB-TP2 Solid 6/25/2012 4.5 to 6.6 Soil Sample	SB-TP3 Solid 6/25/2012 4 to 6 Soil Sample	SB-1g Solid 6/26/2012 2 to 5 Soil Sample	SB-1g Solid 6/26/2012 12 to 13.5 Soil Sample	SB-1h Solid 6/26/2012 12 to 14 Soil Sample	SB-1h Solid 6/26/2012 5 to 6 Soil Sample	SB-24a Solid 6/26/2012 0 to 2 Soil Sample	SB-24a Solid 6/26/2012 2 to 4 Soil Sample	SB-24a (dup) Solid 6/26/2012 2 to 4 Soil Sample	SB-24a Solid 6/26/2012 10 to 11 Soil Sample
VOCs (µg/kg)											
Acetone	17.6	14	ND	ND	79.8	12.5	ND	ND	ND	ND	65.5
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	239	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7
4-Methyl-2-pentanone (MIBK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	7.2	7.4	ND	ND	5.5	ND	ND	ND	ND	ND	4.7
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	3.9	30.7	ND	5.1	ND	43.8	96.6	56.2	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (Total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs	7.2	7.4	3.9	30.7	5.5	244.1	ND	43.8	96.6	56.2	11.7

a/ VOCs = volatile organic compounds; µg/kg = micrograms per kilogram; ND = analyte not detected above Reporting Limit.
b/ SB-0612 (2-4) is a blind duplicate of SB-24a (2-4).

Table 6
Sub-Surface Soil Sampling Analytical Results
Supplemental Pre-Design Investigation
Emerson Power Transmission
Ithaca, New York

Sample ID:	SB-070512-1	SB-070512-2	SB-070512-3	SB-101112-1	SB-101112-2	SB-101112-2	SB-101112-6
Matrix:	Solid	Solid	Solid	Solid	Solid	Solid	Solid
Date:	7/5/2012	7/5/2012	7/5/2012	10/11/2012	10/11/2012	10/11/2012	10/11/2012
Sample Interval (ft bgs):	0 to 1.9	0 to 3.2	4 to 5.9	13.75 to 15.5	2.25 to 3	14 to 15.5	14.1 to 15.7
Description:	Soil Sample	Soil Sample	Soil Sample	Soil Sample	Soil Sample	Soil Sample	Soil Sample
VOCs (µg/kg)							
Acetone	ND	ND	ND	29.4	74	24	21.3
2-Butanone (MEK)	ND	ND	ND	ND	11.7	ND	ND
Carbon disulfide	ND	ND	ND	4.6	8.2	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	12.6	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	5,870	7.2	ND	ND
1,1-Dichloroethene	ND	ND	ND	16.7	ND	ND	ND
Isopropylbenzene (Cumene)	ND	ND	ND	14.9	13.3	15.9	18.7
4-Methyl-2-pentanone (MIBK)	ND	ND	ND	41.5	38.6	38.7	48.2
Methylene Chloride	ND	ND	ND	ND	ND	9.8	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	9.8	10.8	8	ND
trans-1,3-Dichloropropene	ND	ND	ND	15.3	8.3	16.4	10.6
Trichloroethene	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	9,400	206	ND	8.2
Xylene (Total)	ND	ND	ND	202	161	182	199
Total VOCs	ND	ND	ND	15587.4	465.1	270.8	284.7

Table 7
Building 4 Groundwater Sampling Analytical Results
Supplemental Pre-Design Investigation
Emerson Power Transmission
Ithaca, New York

Sample ID:	MW-25B	MW-25B (Dup)	MW-10B	MW-10B	MW-24B	MW-26B	MW-18B
Matrix:	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous
Date:	9/5/2012	9/5/2012	9/5/2012	12/5/2012	9/6/2012	7/18/2012	7/18/2012
Time:	17:35	13:00	18:55	10:25	8:25	14:40	14:40
Description:	Low-Flow Groundwater	Low-Flow Groundwater	Low-Flow Groundwater	Low-Flow Groundwater	Low-Flow Groundwater	Low-Flow Groundwater	Low-Flow Groundwater
VOCs (µg/l)							
Acetone	45.4	44.3	ND	ND	ND	35	ND
Chloroethane	16.6	11.1	8.8	ND	ND	ND	ND
Chloroform	1.3	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	4.4	4.3	302	101	ND	12.8	ND
1,1-Dichloroethene	ND	ND	244	61.2	ND	5.1	ND
cis-1,2-Dichloroethene	774	724	57800	25200	107	6160	3.2
trans-1,2-Dichloroethene	10.5	8.5	2680	276	1.5	117	ND
1,2-Dichloroethene (Total)	NA	NA	NA	NA	NA	NA	3.2
Ethylbenzene	2.8	2.8	ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)	4	4.8	ND	NA	ND	ND	NA
Tetrachloroethene	1.2	1.1	ND	1.6	ND	ND	ND
Toluene	4.1	3.9	2.9	ND	ND	1.2	ND
1,1,1-Trichloroethane	ND	ND	17.4	7.4	ND	ND	ND
Trichloroethene	24.3	23.5	53.8	178	6.3	47.4	ND
Vinyl chloride	1100	1030	35500	84.2	73	3930	ND
Xylene (Total)	25.1	26.1	ND	ND	ND	ND	ND
Total VOCs	2,014	1884.4	96608.9	25911.5	187.8	10308.5	6.4

- a/ Abbreviations: VOCs = volatile organic compounds; µg/l = micrograms per liter; ND = analyte not detected above Reporting Limit; NS = the sample was not analyzed for the listed parameter.
- b/ MW-100 is a blind duplicate of MW-25B.
- NA Constituent not analyzed/reported

Table 8
Building 3 Groundwater Sampling Analytical Results
Supplemental Pre-Design Investigation
Emerson Power Transmission
Ithaca, New York

Sample ID:	MW-16B/C	MW-17B	MW-17B (Dup)	MW-16C
Matrix:	Aqueous	Aqueous	Aqueous	Aqueous
Date:	7/17/2012	7/17/2012	7/17/2012	7/18/2012
Time:	14:55	17:05	12:00	9:20
Description:	Grab Sample	Low-Flow Sample	Low-Flow Sample	Grab Sample
VOCs (µg/l)				
Acetone	113	ND	ND	167
2-Butanone (MEK)	ND	ND	ND	19.7
Chloroform	1.3	ND	ND	ND
Ethylbenzene	ND	ND	ND	2.6
Toluene	1.4	ND	ND	10.2
Xylene (Total)	ND	ND	ND	16.7
m&p-Xylene	ND	ND	ND	9.7
o-Xylene	ND	ND	ND	6.9
Total VOCs	116	ND	ND	232.8
TPH DRO (mg/l)	NS	0.78	0.68	NS

a/ Abbreviations: VOCs = volatile organic compounds; TPH DRO = total petroleum hydrocarbons - diesel range organics; µg/l = micrograms per liter; mg/l = milligram per liter; ND = analyte not

b/ MW-100 is a blind duplicate of MW-17B.

Table 9
MW-10B Pumping Test Data
Supplemental Pre-Design Investigation
Emerson Power Transmission
Ithaca, New York

	<u>Step Test</u>				<u>Recovery Test</u>			<u>Constant Rate Test</u>				
	October 17, 2012				October 17-25 2012			October 25, 2012				
Date												
Test Duration (hours)	1				187.8			0.82				
Pumping Rate (gpm)	0.05-0.07				NA			0.03-0.04				
Well	Initial Groundwater										Top of Casing	
	Elevation	Initial DTW	Final DTW	Drawdown	Initial DTW	Final DTW	Residual	Initial DTW	Final DTW	Drawdown	Elevation	Total Depth
	(ft AMSL)	(ft btoc)	(ft btoc)	(ft)	(ft btoc)	(ft btoc)	Drawdown (ft)	(ft btoc)	(ft btoc)	(ft)	(ft AMSL)	(ft btoc)
MW-10B	565.77	21.11	26.00	4.89	26.00	23.77	2.23	23.68	26.368	2.69	586.88	26.42
MW-24B	575.26	11.68	11.69	0.01	11.69	11.55	NA	11.58	11.56	-0.02	586.94	29.52
MW-25B	573.81	13.03	13.06	0.03	13.06	12.81	NA	12.81	12.80	-0.01	586.84	24.39
MW-26B	564.52	21.67	21.69	0.02	21.69	19.80	NA	19.76	19.76	0.00	586.19	29.61

a/ gpm = gallons per minute; ft AMSL = feet above mean sea level; TD = total depth; ft btoc = feet below top of casing; DTW = depth to water; NA = not applicable.

Appendix A – Site Photographs



Photo 1: Concrete Core 6a Sample Location – Waste Characterization



Photo 2: Test Pit 2 – Removal of Subgrade Material



Photo 3: Test Pit 2 – 2x4 Installation Next to Sanitary Sewer Line



Photo 4: Test Pit at Column 107



Photo 5: Utility Trench – Building 3



Photo 6: Skid Steer with Hydraulic Hammer – Building 3



Photo 7: Mini-Excavator Removing Hammered Concrete – Building 3



Photo 8: Concrete Stockpile - Bermed and Covered



Photo 9: Test Pit Between Two Isolation Pads – Building 3



Photo 10: Discovery of the Conveyor Trench at Column 110 – Building 3



Photo 11: Discovery of Petroleum Product in the Conveyor Trench at Column – Building 3



Photo 12: Saw-Cutting between Columns 87 and 89 – Building 4



Photo 13: Removal of Concrete between Columns 87 and 89 – Building 4



Photo 14: Test Pit West of the Sanitary Sewer Line – Building 4



Photo 15: Test Pit East of the Sanitary Sewer Line – Building 4



Photo 16: Former Depressed Floor Area – Building 4



Photo 17: Test Pit in the Former Depressed Floor Area – Building 4



Photo 18: Petroleum Product in the Conveyor Trench adjacent to column – Building 4



Photo 19: Removal of Impacted Soil from the Conveyor Trench – Building 3



Photo 20: Removal of Impacted Soil from the Conveyor Trench – Building 3



Photo 21: Loading the Final Truck for Concrete Disposal



Photo 22: Manhole with Containing Petroleum Product – Building 2



Photo 23: Core-1 Location – Building 3



Photo 24: Core-2 Location – Building 4



Photo 25: Dewatered Cooling Pit - Building 4



Photo 26: Cleaned Catch Basin Adjacent to the Fire Water Reservoir – East Compartment



Photo 27: Cleaned Catch Basin Adjacent to the Fire Water Reservoir – West Compartment



Photo 28: Removal of Impacted Soil Beneath the Transformer – Building 3



Photo 29: Removal of Impacted Soil Beneath the Transformer – Building 3



Photo 30: Removal of Impacted Soil Beneath the Transformer – Building 3



Photo 31: Test Pit Excavation between MW-10B and MW-25B (SB-101112-1) West of the Former Philips Degreaser



Photo 32: Concrete and Asphalt removal West of the Former Degreaser Area



Photo 33: Exposed Soil Surface at the Base of the Concrete



Photo 34: Excavated Material Stockpile



Photo 35: Total (23) Head Space Screening Locations to 0-3feet bgs



Photo 36: MW-10B Head Space Screening 3-6feet bgs



Photo 37: MW-25B Head Space Screening 3-6feet bgs



Photo 38: SB-101112-1 Head Space Screening 3-6feet bgs



Photo 39: Completed Excavation with Compacted Stone

Appendix B – Groundwater Sampling Logs

[illegible]

[illegible]

[illegible]

Low Flow Groundwater Sampling Monitoring Form

[illegible]

[illegible]



WSP Environment & Energy
5 Sullivan Street
Cazenovia, NY 13035 (315) 655-3900 • Fax (315) 655-3907

**Low-Flow Groundwater Sampling
Monitoring Form**

Well ID	MW-10 B		Site ID:	Emerson EPT - Ithaca, NY		Sample Date:		12/5/2012			
Well Diameter	2.00 in		Sampling Event:		Quarterly/Semi-Annual Groundwater Sampling						
Depth to Water	21.80 ft										
Total Well Depth	-	ft	Samplers		DML						
Screen Length	-	ft	Weather Conditions and		Cloudy 35 F						
Pump Intake	-	ft	Flow Rate		35mL/min						
Instrument Calibration Information											
pH Meter Calibration					Horiba U52 with flow-through cell						
7.00 Stand.	pH 4.01 Stand		Slope (mV/pH)		Notes on calibration: Calibrated to manufacturer's specifications using auto-calibration standard solution						
Air temp =	35.00		°F								
Well Purging Information					Start purge:		End purge:		Pump Type:		QED Sample pro w/ MP-15 and CO₂
Time	DTW	Purge Volume (L)	pH	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/l) *	T (°C)	ORP (mV)	Appearance of Purge Water	Flow Rate (mL/min)	
0955	21.80	-	7.18	2.28	53.0	2.72	11.04	162	Clear	35	
1000	21.82	-	6.62	2.17	45.3	2.19	10.47	164	Clear	35	
1005	21.85	-	6.61	2.15	43.1	2.18	10.45	164	Clear	35	
1010	21.95	-	6.67	2.14	43.2	2.19	9.71	164	Clear	40	
1015	22.00	-	6.61	2.16	43.6	2.12	9.69	164	Clear	35	
1020	22.75	-	6.59	2.16	42.9	2.18	9.63	164	Clear	35	
Sample collected by DML @ 1025 and stored on ice. Dup collected by DML @ stored on ice.										End	
Laboratory Analysis Information											
# of Bottles	Sample ID	Analytes		Collection Method	Preservative	Bottle Type	Anal. Lab.	Filtered/ Unfiltered	Sample Time	Comments	
3	MW-10B	VOCs (8260B)		Low Flow	HCl	40 mL VOA	Accutest	Unfiltered	1025		
3	MW-100	VOCs (8260B)		Low Flow	HCl	44 mL VOA	Accutest	Unfiltered	1029	DUP	

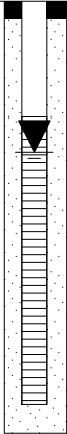
Appendix C – Soil Boring and Monitoring Well Construction Logs

Boring Log: MW-10B**Project:** Emerson Power Transmission**Surface Elevation (feet AMSL*):** 587.24**Project No.:** 4507/Legacy 127491**TOC Elevation (feet AMSL*):** 586.88**Location:** Ithaca, New York**Total Depth (feet):** 27.5**Completion Date:** April 27, 2010**Borehole Diameter (inches):** 8.25/6*AMSL = Above mean sea level

Sample Data					Subsurface Profile		Well Details
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	
						Ground Surface	
						Concrete	
2						Overburden Overburden (not sampled).	
4							
6							
8							
10							
12						Siltstone Weathered Siltstone bedrock (not sampled).	
14							
16							
18							
20							

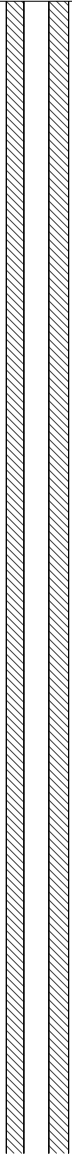
Geologist(s): Erik S. Reinert**WSP****Subcontractor:** Parratt Wolff, Inc.**Driller/Operator:** Bill Rice**Method:** Hollow Stem Auger/Air Rotary

Boring Log: MW-10B**Project:** Emerson Power Transmission**Surface Elevation (feet AMSL*):** 587.24**Project No.:** 4507/Legacy 127491**TOC Elevation (feet AMSL*):** 586.88**Location:** Ithaca, New York**Total Depth (feet):** 27.5**Completion Date:** April 27, 2010**Borehole Diameter (inches):** 8.25/6*AMSL = Above mean sea level

Sample Data					Subsurface Profile		Well Details
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	
22						Siltstone Weathered Siltstone bedrock (not sampled). <i>(continued)</i>	
24							
26							
28						Bottom of Boring at 27.5 feet	
30							
32							
34							
36							
38							
40							

Geologist(s): Erik S. Reinert**WSP****Subcontractor:** Parratt Wolff, Inc.**Driller/Operator:** Bill Rice**Method:** Hollow Stem Auger/Air Rotary

Boring Log: MW-16C**Project:** Emerson Power Transmission**Project No.:** 4507/Legacy 127491**Location:** Ithaca, New York**Completion Date:** June 29, 2012**Surface Elevation (feet AMSL*):** 586.89**TOC Elevation (feet AMSL*):** 589.24**Total Depth (feet):** 45**Borehole Diameter (inches):** 4*AMSL = Above mean sea level

Sample Data					Subsurface Profile		
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	Well Details
						Ground Surface	
1						Concrete	
2						Ithaca Shale Dark gray (N5) weathered shale: Fine-grained, thinly bedded, slightly disintegrated, competent, intensely fractured	
3							
4							
5							

Geologist(s): Rob Wallace**Subcontractor:** Parratt Wolff, Inc.**Driller/Operator:** Glen Lansing, Mick Foley**Method:** Hollow Stem Auger/Air Hammer**WSP Environment & Energy**

Boring Log: MW-16C**Project:** Emerson Power Transmission**Project No.:** 4507/Legacy 127491**Location:** Ithaca, New York**Completion Date:** June 29, 2012**Surface Elevation (feet AMSL*):** 586.89**TOC Elevation (feet AMSL*):** 589.24**Total Depth (feet):** 45**Borehole Diameter (inches):** 4*AMSL = Above mean sea level

Sample Data					Subsurface Profile		
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	Well Details
6						Ithaca Shale Dark gray (N5) weathered shale: Fine-grained, thinly bedded, slightly disintegrated, competent, intensely fractured (<i>continued</i>)	
7							
8							
9							
10							

Geologist(s): Rob Wallace**Subcontractor:** Parratt Wolff, Inc.**Driller/Operator:** Glen Lansing, Mick Foley**Method:** Hollow Stem Auger/Air Hammer**WSP Environment & Energy**

Boring Log: MW-16C**Project:** Emerson Power Transmission**Surface Elevation (feet AMSL*):** 586.89**Project No.:** 4507/Legacy 127491**TOC Elevation (feet AMSL*):** 589.24**Location:** Ithaca, New York**Total Depth (feet):** 45**Completion Date:** June 29, 2012**Borehole Diameter (inches):** 4*AMSL = Above mean sea level

Sample Data					Subsurface Profile		Well Details
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	
11						<i>Ithaca Shale</i> Dark gray (N5) weathered shale: Fine-grained, thinly bedded, slightly disintegrated, competent, intensely fractured (<i>continued</i>)	
12							
13							
14							
15							

Geologist(s): Rob Wallace**WSP Environment & Energy****Subcontractor:** Parratt Wolff, Inc.**Driller/Operator:** Glen Lansing, Mick Foley**Method:** Hollow Stem Auger/Air Hammer

Boring Log: MW-16C**Project:** Emerson Power Transmission**Surface Elevation (feet AMSL*):** 586.89**Project No.:** 4507/Legacy 127491**TOC Elevation (feet AMSL*):** 589.24**Location:** Ithaca, New York**Total Depth (feet):** 45**Completion Date:** June 29, 2012**Borehole Diameter (inches):** 4*AMSL = Above mean sea level

Sample Data					Subsurface Profile		
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	Well Details
16						Ithaca Shale Dark gray (N5) weathered shale: Fine-grained, thinly bedded, slightly disintegrated, competent, intensely fractured (<i>continued</i>)	
17							
18							
19							
20							

Geologist(s): Rob Wallace**WSP Environment & Energy****Subcontractor:** Parratt Wolff, Inc.**Driller/Operator:** Glen Lansing, Mick Foley**Method:** Hollow Stem Auger/Air Hammer

Boring Log: MW-16C**Project:** Emerson Power Transmission**Surface Elevation (feet AMSL*):** 586.89**Project No.:** 4507/Legacy 127491**TOC Elevation (feet AMSL*):** 589.24**Location:** Ithaca, New York**Total Depth (feet):** 45**Completion Date:** June 29, 2012**Borehole Diameter (inches):** 4*AMSL = Above mean sea level

Sample Data					Subsurface Profile		Well Details
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	
21						Ithaca Shale Dark gray (N5) weathered shale: Fine-grained, thinly bedded, slightly disintegrated, competent, intensely fractured (<i>continued</i>)	
22							
23							
24							
25							

Geologist(s): Rob Wallace**WSP Environment & Energy****Subcontractor:** Parratt Wolff, Inc.**Driller/Operator:** Glen Lansing, Mick Foley**Method:** Hollow Stem Auger/Air Hammer

Boring Log: MW-16C**Project:** Emerson Power Transmission**Surface Elevation (feet AMSL*):** 586.89**Project No.:** 4507/Legacy 127491**TOC Elevation (feet AMSL*):** 589.24**Location:** Ithaca, New York**Total Depth (feet):** 45**Completion Date:** June 29, 2012**Borehole Diameter (inches):** 4*AMSL = Above mean sea level

Sample Data					Subsurface Profile		Well Details
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	
26						<i>Ithaca Shale</i> Dark gray (N5) weathered shale: Fine-grained, thinly bedded, slightly disintegrated, competent, intensely fractured (<i>continued</i>)	
27							
28							
29							
30							

Geologist(s): Rob Wallace**WSP Environment & Energy****Subcontractor:** Parratt Wolff, Inc.**Driller/Operator:** Glen Lansing, Mick Foley**Method:** Hollow Stem Auger/Air Hammer

Boring Log: MW-16C**Project:** Emerson Power Transmission**Surface Elevation (feet AMSL*):** 586.89**Project No.:** 4507/Legacy 127491**TOC Elevation (feet AMSL*):** 589.24**Location:** Ithaca, New York**Total Depth (feet):** 45**Completion Date:** June 29, 2012**Borehole Diameter (inches):** 4*AMSL = Above mean sea level

Sample Data					Subsurface Profile		Well Details
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	
31						<i>Ithaca Shale</i> Dark gray (N5) weathered shale: Fine-grained, thinly bedded, slightly disintegrated, competent, intensely fractured (<i>continued</i>)	
32							
33							
34							
35							

Geologist(s): Rob Wallace**WSP Environment & Energy****Subcontractor:** Parratt Wolff, Inc.**Driller/Operator:** Glen Lansing, Mick Foley**Method:** Hollow Stem Auger/Air Hammer

Boring Log: MW-16C**Project:** Emerson Power Transmission**Surface Elevation (feet AMSL*):** 586.89**Project No.:** 4507/Legacy 127491**TOC Elevation (feet AMSL*):** 589.24**Location:** Ithaca, New York**Total Depth (feet):** 45**Completion Date:** June 29, 2012**Borehole Diameter (inches):** 4*AMSL = Above mean sea level

Sample Data					Subsurface Profile		Well Details
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	
36						<i>Ithaca Shale</i> Dark gray (N5) weathered shale: Fine-grained, thinly bedded, slightly disintegrated, competent, intensely fractured (<i>continued</i>)	
37							
38							
39							
40							

Geologist(s): Rob Wallace**WSP Environment & Energy****Subcontractor:** Parratt Wolff, Inc.**Driller/Operator:** Glen Lansing, Mick Foley**Method:** Hollow Stem Auger/Air Hammer

Boring Log: MW-16C**Project:** Emerson Power Transmission**Surface Elevation (feet AMSL*):** 586.89**Project No.:** 4507/Legacy 127491**TOC Elevation (feet AMSL*):** 589.24**Location:** Ithaca, New York**Total Depth (feet):** 45**Completion Date:** June 29, 2012**Borehole Diameter (inches):** 4*AMSL = Above mean sea level

Sample Data					Subsurface Profile		Well Details
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	
41						Ithaca Shale Dark gray (N5) weathered shale: Fine-grained, thinly bedded, slightly disintegrated, competent, intensely fractured (<i>continued</i>)	
42							
43							
44							
45							

Bottom of Boring at 45 feet

Geologist(s): Rob Wallace**WSP Environment & Energy****Subcontractor:** Parratt Wolff, Inc.**Driller/Operator:** Glen Lansing, Mick Foley**Method:** Hollow Stem Auger/Air Hammer

Boring Log: MW-16C/B**Project:** Emerson Power Transmission**Surface Elevation (feet AMSL*):** 586.89**Project No.:** 4507/Legacy 127491**TOC Elevation (feet AMSL*):** 589.24**Location:** Ithaca, New York**Total Depth (feet):** 30**Completion Date:** June 29, 2012**Borehole Diameter (inches):** 6*AMSL = Above mean sea level

Sample Data					Subsurface Profile		Well Details
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	
						Ground Surface	
1						Lean Clay with Gravel (CL) Gravelly clay overburden	
2							
3						Ithaca Shale Dark gray (N5) weathered shale: Fine-grained, thinly bedded, slightly disintegrated, competent, intensely fractured	
4							
5							

Geologist(s): Robert Wallace**WSP Environment & Energy****Subcontractor:** Parratt Wolff, Inc.**Driller/Operator:** Glen Lansing, Mick Foley**Method:** Hollow Stem Auger

Boring Log: MW-16C/B**Project:** Emerson Power Transmission**Surface Elevation (feet AMSL*):** 586.89**Project No.:** 4507/Legacy 127491**TOC Elevation (feet AMSL*):** 589.24**Location:** Ithaca, New York**Total Depth (feet):** 30**Completion Date:** June 29, 2012**Borehole Diameter (inches):** 6*AMSL = Above mean sea level

Sample Data					Subsurface Profile		
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	Well Details
6						Ithaca Shale Dark gray (N5) weathered shale: Fine-grained, thinly bedded, slightly disintegrated, competent, intensely fractured (<i>continued</i>)	
7							
8							
9							
10							

Geologist(s): Robert Wallace**WSP Environment & Energy****Subcontractor:** Parratt Wolff, Inc.**Driller/Operator:** Glen Lansing, Mick Foley**Method:** Hollow Stem Auger

Boring Log: MW-16C/B**Project:** Emerson Power Transmission**Project No.:** 4507/Legacy 127491**Location:** Ithaca, New York**Completion Date:** June 29, 2012**Surface Elevation (feet AMSL*):** 586.89**TOC Elevation (feet AMSL*):** 589.24**Total Depth (feet):** 30**Borehole Diameter (inches):** 6*AMSL = Above mean sea level

Sample Data					Subsurface Profile		Well Details
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	
11						<i>Ithaca Shale</i> Dark gray (N5) weathered shale: Fine-grained, thinly bedded, slightly disintegrated, competent, intensely fractured (<i>continued</i>)	
12							
13							
14							
15							

Geologist(s): Robert Wallace**Subcontractor:** Parratt Wolff, Inc.**Driller/Operator:** Glen Lansing, Mick Foley**Method:** Hollow Stem Auger**WSP Environment & Energy**

Boring Log: MW-16C/B**Project:** Emerson Power Transmission**Project No.:** 4507/Legacy 127491**Location:** Ithaca, New York**Completion Date:** June 29, 2012**Surface Elevation (feet AMSL*):** 586.89**TOC Elevation (feet AMSL*):** 589.24**Total Depth (feet):** 30**Borehole Diameter (inches):** 6*AMSL = Above mean sea level

Sample Data					Subsurface Profile		Well Details
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	
16						<i>Ithaca Shale</i> Dark gray (N5) weathered shale: Fine-grained, thinly bedded, slightly disintegrated, competent, intensely fractured (<i>continued</i>)	
17							
18							
19							
20							

Geologist(s): Robert Wallace**Subcontractor:** Parratt Wolff, Inc.**Driller/Operator:** Glen Lansing, Mick Foley**Method:** Hollow Stem Auger**WSP Environment & Energy**

Boring Log: MW-16C/B**Project:** Emerson Power Transmission**Surface Elevation (feet AMSL*):** 586.89**Project No.:** 4507/Legacy 127491**TOC Elevation (feet AMSL*):** 589.24**Location:** Ithaca, New York**Total Depth (feet):** 30**Completion Date:** June 29, 2012**Borehole Diameter (inches):** 6*AMSL = Above mean sea level

Sample Data					Subsurface Profile		Well Details
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	
21						Ithaca Shale Dark gray (N5) weathered shale: Fine-grained, thinly bedded, slightly disintegrated, competent, intensely fractured (<i>continued</i>)	
22							
23							
24							
25							

Geologist(s): Robert Wallace**WSP Environment & Energy****Subcontractor:** Parratt Wolff, Inc.**Driller/Operator:** Glen Lansing, Mick Foley**Method:** Hollow Stem Auger

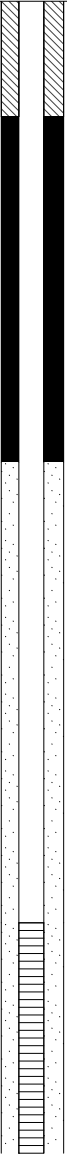
Boring Log: MW-16C/B**Project:** Emerson Power Transmission**Project No.:** 4507/Legacy 127491**Location:** Ithaca, New York**Completion Date:** June 29, 2012**Surface Elevation (feet AMSL*):** 586.89**TOC Elevation (feet AMSL*):** 589.24**Total Depth (feet):** 30**Borehole Diameter (inches):** 6*AMSL = Above mean sea level

Sample Data					Subsurface Profile		Well Details
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	
26						<i>Ithaca Shale</i> Dark gray (N5) weathered shale: Fine-grained, thinly bedded, slightly disintegrated, competent, intensely fractured (<i>continued</i>)	
27							
28							
29							
30							

Bottom of Boring at 30 feet

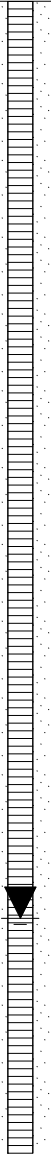
Geologist(s): Robert Wallace**Subcontractor:** Parratt Wolff, Inc.**Driller/Operator:** Glen Lansing, Mick Foley**Method:** Hollow Stem Auger**WSP Environment & Energy**

Boring Log: MW-17B**Project:** Emerson Power Transmission**Surface Elevation (feet AMSL*):** 586.74**Project No.:** 4507/Legacy 127491**TOC Elevation (feet AMSL*):** 588.42**Location:** Ithaca, New York**Total Depth (feet):** 14.5**Completion Date:** June 27, 2012**Borehole Diameter (inches):** 4*AMSL = Above mean sea level

Sample Data					Subsurface Profile		Well Details
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	
						Ground Surface	
1						Lean Clay with Gravel (CL) Lean clay. All cuttings were vacuumed from auger immediately, leaving no samples for full description.	
2							
3							
4							
5							

Geologist(s): Rob Wallace**WSP Environment & Energy****Subcontractor:** Parratt Wolff, Inc.**Driller/Operator:** Glen Lansing, Mick Foley**Method:** Hollow Stem Auger/Air Hammer

Boring Log: MW-17B**Project:** Emerson Power Transmission**Surface Elevation (feet AMSL*):** 586.74**Project No.:** 4507/Legacy 127491**TOC Elevation (feet AMSL*):** 588.42**Location:** Ithaca, New York**Total Depth (feet):** 14.5**Completion Date:** June 27, 2012**Borehole Diameter (inches):** 4*AMSL = Above mean sea level

Sample Data					Subsurface Profile		Well Details
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	
6						Lean Clay with Gravel (CL) Lean clay. All cuttings were vacuumed from auger immediately, leaving no samples for full description. <i>(continued)</i>	
7							
8							
9							
10							

Geologist(s): Rob Wallace**WSP Environment & Energy****Subcontractor:** Parratt Wolff, Inc.**Driller/Operator:** Glen Lansing, Mick Foley**Method:** Hollow Stem Auger/Air Hammer

Boring Log: MW-17B

Project: Emerson Power Transmission **Surface Elevation (feet AMSL*):** 586.74
Project No.: 4507/Legacy 127491 **TOC Elevation (feet AMSL*):** 588.42
Location: Ithaca, New York **Total Depth (feet):** 14.5
Completion Date: June 27, 2012 **Borehole Diameter (inches):** 4



*AMSL = Above mean sea level

Sample Data					Subsurface Profile		Well Details
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	
11						Lean Clay with Gravel (CL) Lean clay. All cuttings were vacuumed from auger immediately, leaving no samples for full description. <i>(continued)</i>	
12						Ithaca Shale Dark gray (N5) weathered shale: Fine-grained, thinly bedded, slightly disintegrated, competent, intensely fractured	
13							
14							
15						Bottom of Boring at 14.5 feet	

Geologist(s): Rob Wallace
Subcontractor: Parratt Wolff, Inc.
Driller/Operator: Glen Lansing, Mick Foley
Method: Hollow Stem Auger/Air Hammer

WSP Environment & Energy

Boring Log: MW-18B**Project:** Emerson Power Transmission**Surface Elevation (feet AMSL*):** 586.68**Project No.:** 4507/Legacy 127491**TOC Elevation (feet AMSL*):** 587.95**Location:** Ithaca, New York**Total Depth (feet):** 28**Completion Date:** June 27, 2012**Borehole Diameter (inches):** 6*AMSL = Above mean sea level

Sample Data					Subsurface Profile		Well Details
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	
						Ground Surface	
1						Lean Clay with Gravel (CL) Lean clay. All cuttings were vacuumed from auger immediately, leaving no samples for full description.	
2							
3							
4							
5							

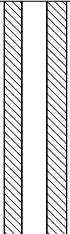
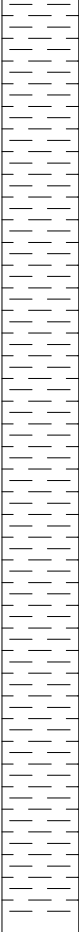
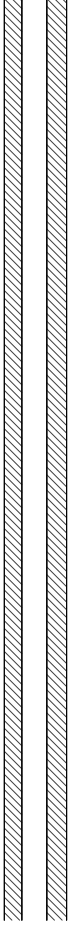
Geologist(s): Robert Wallace**WSP Environment & Energy****Subcontractor:** Parratt Wolff, Inc.**Driller/Operator:** Glen Lansing, Mick Foley**Method:** Hollow Stem Auger

Boring Log: MW-18B

Project: Emerson Power Transmission **Surface Elevation (feet AMSL*):** 586.68
Project No.: 4507/Legacy 127491 **TOC Elevation (feet AMSL*):** 587.95
Location: Ithaca, New York **Total Depth (feet):** 28
Completion Date: June 27, 2012 **Borehole Diameter (inches):** 6

*AMSL = Above mean sea level



Sample Data					Subsurface Profile		Well Details
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	
6						Lean Clay with Gravel (CL) Lean clay. All cuttings were vacuumed from auger immediately, leaving no samples for full description. <i>(continued)</i>	
7						Ithaca Shale Dark gray (N5) weathered shale: Fine-grained, thinly bedded, slightly disintegrated, competent, intensely fractured Large fracture at 23' bgs.	
8							
9							
10							

Geologist(s): Robert Wallace
Subcontractor: Parratt Wolff, Inc.
Driller/Operator: Glen Lansing, Mick Foley
Method: Hollow Stem Auger

WSP Environment & Energy

Boring Log: MW-18B**Project:** Emerson Power Transmission**Surface Elevation (feet AMSL*):** 586.68**Project No.:** 4507/Legacy 127491**TOC Elevation (feet AMSL*):** 587.95**Location:** Ithaca, New York**Total Depth (feet):** 28**Completion Date:** June 27, 2012**Borehole Diameter (inches):** 6*AMSL = Above mean sea level

Sample Data					Subsurface Profile		
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	Well Details
11						Ithaca Shale Dark gray (N5) weathered shale: Fine-grained, thinly bedded, slightly disintegrated, competent, intensely fractured Large fracture at 23' bgs. (continued)	
12							
13							
14							
15							

Geologist(s): Robert Wallace**WSP Environment & Energy****Subcontractor:** Parratt Wolff, Inc.**Driller/Operator:** Glen Lansing, Mick Foley**Method:** Hollow Stem Auger

Boring Log: MW-18B**Project:** Emerson Power Transmission**Surface Elevation (feet AMSL*):** 586.68**Project No.:** 4507/Legacy 127491**TOC Elevation (feet AMSL*):** 587.95**Location:** Ithaca, New York**Total Depth (feet):** 28**Completion Date:** June 27, 2012**Borehole Diameter (inches):** 6*AMSL = Above mean sea level

Sample Data					Subsurface Profile		
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	Well Details
16						Ithaca Shale Dark gray (N5) weathered shale: Fine-grained, thinly bedded, slightly disintegrated, competent, intensely fractured Large fracture at 23' bgs. (continued)	
17							
18							
19							
20							

Geologist(s): Robert Wallace**WSP Environment & Energy****Subcontractor:** Parratt Wolff, Inc.**Driller/Operator:** Glen Lansing, Mick Foley**Method:** Hollow Stem Auger

Boring Log: MW-18B**Project:** Emerson Power Transmission**Surface Elevation (feet AMSL*):** 586.68**Project No.:** 4507/Legacy 127491**TOC Elevation (feet AMSL*):** 587.95**Location:** Ithaca, New York**Total Depth (feet):** 28**Completion Date:** June 27, 2012**Borehole Diameter (inches):** 6*AMSL = Above mean sea level

Sample Data					Subsurface Profile		
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	Well Details
21						Ithaca Shale Dark gray (N5) weathered shale: Fine-grained, thinly bedded, slightly disintegrated, competent, intensely fractured Large fracture at 23' bgs. (continued)	
22							
23							
24							
25							

Geologist(s): Robert Wallace**WSP Environment & Energy****Subcontractor:** Parratt Wolff, Inc.**Driller/Operator:** Glen Lansing, Mick Foley**Method:** Hollow Stem Auger

Boring Log: MW-18B**Project:** Emerson Power Transmission**Surface Elevation (feet AMSL*):** 586.68**Project No.:** 4507/Legacy 127491**TOC Elevation (feet AMSL*):** 587.95**Location:** Ithaca, New York**Total Depth (feet):** 28**Completion Date:** June 27, 2012**Borehole Diameter (inches):** 6*AMSL = Above mean sea level

Sample Data					Subsurface Profile		
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	Well Details
26						<i>Ithaca Shale</i> Dark gray (N5) weathered shale: Fine-grained, thinly bedded, slightly disintegrated, competent, intensely fractured Large fracture at 23' bgs. (<i>continued</i>)	
27							
28							
29						Bottom of Boring at 28 feet Found fracture at 23', set screen to capture	
30							

Geologist(s): Robert Wallace**WSP Environment & Energy****Subcontractor:** Parratt Wolff, Inc.**Driller/Operator:** Glen Lansing, Mick Foley**Method:** Hollow Stem Auger

Boring Log: MW-24B**Project:** Emerson Power Transmission**Surface Elevation (feet AMSL*):** 586.35**Project No.:** 4507/Legacy 127491**TOC Elevation (feet AMSL*):** 586.94**Location:** Ithaca, New York**Total Depth (feet):** 30**Completion Date:** August 24, 2012**Borehole Diameter (inches):** 4*AMSL = Above mean sea level

Sample Data					Subsurface Profile		Well Details
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	
						Ground Surface	
2						Overburden	
4							
6							
8							
10							
12							
						Ithaca Shale Dark gray (N5) weathered shale: Fine-grained, thinly bedded, slightly disintegrated, competent, intensely fractured	
14	Run 1	0.0	-	Very Poor		Lost water at 23' bgs	

Geologist(s): Rob Wallace**WSP Environment & Energy****Subcontractor:** Parratt Wolff, Inc.**Driller/Operator:** Bill Rice**Method:** Hollow Stem Auger

Boring Log: MW-24B**Project:** Emerson Power Transmission**Surface Elevation (feet AMSL*):** 586.35**Project No.:** 4507/Legacy 127491**TOC Elevation (feet AMSL*):** 586.94**Location:** Ithaca, New York**Total Depth (feet):** 30**Completion Date:** August 24, 2012**Borehole Diameter (inches):** 4

*AMSL = Above mean sea level



Sample Data					Subsurface Profile		Well Details
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	
16	Run 2	0.0	-	Very Poor		Ithaca Shale Dark gray (N5) weathered shale: Fine-grained, thinly bedded, slightly disintegrated, competent, intensely fractured	
			-			Lost water at 23' bgs (<i>continued</i>)	
18			-				
20			-				
22	Run 3	0.0	-	Very Poor			
			-				
24	Run 4	0.0	-	Very Poor		Clay Dark gray (N5) lean clay in fractures	
			-			Ithaca Shale Dark gray (N5) weathered shale: Fine-grained, thinly bedded, slightly disintegrated, competent, intensely fractured	
26			-			Lost water at 23' bgs	
28			-				
30	Run 5	0.0	-	Poor			

Bottom of Boring at 30 feet

Geologist(s): Rob Wallace**WSP Environment & Energy****Subcontractor:** Parratt Wolff, Inc.**Driller/Operator:** Bill Rice**Method:** Hollow Stem Auger

Boring Log: MW-25B**Project:** Emerson Power Transmission**Surface Elevation (feet AMSL*):** 587.21**Project No.:** 4507/Legacy 127491**TOC Elevation (feet AMSL*):** 586.84**Location:** Ithaca, New York**Total Depth (feet):** 30**Completion Date:** August 22, 2012**Borehole Diameter (inches):** 4*AMSL = Above mean sea level

Sample Data					Subsurface Profile		Well Details
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	
						Ground Surface	
						Concrete	
						Overburden	
2							
4							
6							
8							
10							
12							
14							

Geologist(s): Rob Wallace**WSP Environment & Energy****Subcontractor:** Parratt Wolff, Inc.**Driller/Operator:** Bill Rice**Method:** Hollow Stem Auger

Boring Log: MW-25B**Project:** Emerson Power Transmission**Surface Elevation (feet AMSL*):** 587.21**Project No.:** 4507/Legacy 127491**TOC Elevation (feet AMSL*):** 586.84**Location:** Ithaca, New York**Total Depth (feet):** 30**Completion Date:** August 22, 2012**Borehole Diameter (inches):** 4

*AMSL = Above mean sea level



Sample Data					Subsurface Profile		Well Details
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	
16						Overburden (continued)	
18							
20						Ithaca Shale Medium gray (N4) weathered shale: fine-grained, thinly bedded, fossiliferous, slightly decomposed, competent, intensely fractured. Lost water at 24' bgs	
22	Run 1	0.0	-	Very Poor			
24			-				
26			-				
28	Run 2	0.0	-	Very Poor			
30			-				

Bottom of Boring at 30 feet

Geologist(s): Rob Wallace**WSP Environment & Energy****Subcontractor:** Parratt Wolff, Inc.**Driller/Operator:** Bill Rice**Method:** Hollow Stem Auger

Boring Log: MW-26B**Project:** Emerson Power Transmission**Surface Elevation (feet AMSL*):** 586.66**Project No.:** 4507/Legacy 127491**TOC Elevation (feet AMSL*):** 586.19**Location:** Ithaca, New York**Total Depth (feet):** 30**Completion Date:** August 22, 2012**Borehole Diameter (inches):** 4*AMSL = Above mean sea level

Sample Data					Subsurface Profile		Well Details
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	
						Ground Surface	A vertical diagram of a well casing, showing two parallel vertical lines with diagonal hatching between them, representing the borehole walls.
					A pattern of small, irregular shapes representing concrete.	Concrete	
2					A pattern of small, irregular shapes representing overburden.	Overburden	
4							
6							
8							
10							
12							
14							

Geologist(s): Rob Wallace**WSP Environment & Energy****Subcontractor:** Parratt Wolff, Inc.**Driller/Operator:** Bill Rice**Method:** Hollow Stem Auger

Boring Log: MW-26B**Project:** Emerson Power Transmission**Surface Elevation (feet AMSL*):** 586.66**Project No.:** 4507/Legacy 127491**TOC Elevation (feet AMSL*):** 586.19**Location:** Ithaca, New York**Total Depth (feet):** 30**Completion Date:** August 22, 2012**Borehole Diameter (inches):** 4

*AMSL = Above mean sea level



Sample Data					Subsurface Profile		Well Details
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	
16						Overburden (continued)	A vertical diagram of the well casing. It shows a solid casing from the surface down to approximately 23 feet, where a screen is installed. The screen extends to the bottom of the borehole at 30 feet. A downward-pointing arrow is located next to the screen.
18							
20							
22						Ithaca Shale Medium Gray (N4) weathered shale: Fine-grained, thinly bedded, slightly decomposed, competent, intensely fractured	
24	Run 1	0.0	-	Very Poor			
26	Run 2	0.0	-	Very Poor		Clay Dark Gray (N3) lean clay in fracture	
28	Run 3	0.0	-	Very Poor		Ithaca Shale Medium Gray (N4) weathered shale: Fine-grained, thinly bedded, slightly decomposed, competent, intensely fractured Lost water at 26' bgs	
30							

Bottom of Boring at 30 feet

Geologist(s): Rob Wallace**WSP Environment & Energy****Subcontractor:** Parratt Wolff, Inc.**Driller/Operator:** Bill Rice**Method:** Hollow Stem Auger

Boring Log: SB-TP1

Project: Emerson Power Transmission

Surface Elevation (feet AMSL*): Not Determined

Project No.: 4507/Legacy 127491

Total Depth (feet): 6.5

Location: Ithaca, New York

Borehole Diameter (inches): 2.25

Completion Date: 6/25/2012



Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
2	1	0.0	-	75	Concrete	
					Poorly-Graded Gravel (GP)	Gray (5YR 5/1) coarse-grained gravel; loose; dry.
4					Poorly-Graded Sand with Gravel (SP)	Dark grayish-brown (10YR 4/2) fine to coarse-grained sand, little gravel; loose; dry.
6	2	0.0	-	40		
8						Bottom of Boring at 6.5 feet Refusal at 6.5 feet bgs.
10						
12						
14						
16						
18						
20						

Geologist(s): Erik S. Reinert
 Subcontractor: Parratt Wolff, Inc.
 Driller/Operator: Mick Foley
 Method: Direct Push

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 (315) 655-3900

Boring Log: SB-TP2

Project: Emerson Power Transmission

Surface Elevation (feet AMSL*): Not Determined

Project No.: 4507/Legacy 127491

Total Depth (feet): 8

Location: Ithaca, New York

Borehole Diameter (inches): 2.25

Completion Date: 6/25/2012



Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
2	1	0.0	-	75	Concrete	
					Poorly-Graded Gravel (GP)	Gray (5YR 5/1) gravel; loose; dry.
4					Poorly-Graded Sand (SP)	Brown (10YR 4/3) fine to medium-grained sand, trace coarse-grained sand and gravel, trace silt, loose; dry.
6	2	0.0	-	40	Poorly-Graded Sand with Gravel (SP)	Very dark grayish-brown (10YR3/2) fine to coarse-grained sand, little gravel; loose; dry.
8					Poorly-Graded Gravel with Sand (GP)	Very dark grayish-brown (10YR 3/1) gravel, some medium to coarse-grained sand; loose; moist.
					Poorly-Graded Gravel (GP)	Gray gravel; loose; dry.
10						Bottom of Boring at 8 feet
12						
14						
16						
18						
20						

Geologist(s): Erik S. Reinert
 Subcontractor: Parratt Wolff, Inc.
 Driller/Operator: Mick Foley
 Method: Direct Push

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 (315) 655-3900

Boring Log: SB-TP3

Project: Emerson Power Transmission

Surface Elevation (feet AMSL*): Not Determined

Project No.: 4507/Legacy 127491

Total Depth (feet): 8

Location: Ithaca, New York

Borehole Diameter (inches): 2.25

Completion Date: 6/25/2012



Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
2	1	0.0	-	75		Concrete
						Poorly-Graded Gravel (GP) Gray (5YR 5/1) angular gravel; loose; dry.
4						Poorly-Graded Sand with Gravel (SP) Yellowish-brown (10YR 5/4) fine to medium-grained sand, little sub-rounded gravel, trace silt; medium dense; dry.
6	2	0.0	-	75		Poorly-Graded Sand (SP) Dark brown (10YR 3/3) medium to coarse-grained sand; trace fine-grained sand, trace gravel; loose; dry.
8						Poorly-Graded Gravel with Clay and Sand (GP-GC) Brownish-yellow (10YR 6/6) and very dark gray (10YR 3/1) weathered bedrock fragments, trace to little silt and clay; moist; dense.
10						Bottom of Boring at 8 feet
12						
14						
16						
18						
20						

Geologist(s): Erik S. Reinert
 Subcontractor: Parratt Wolff, Inc.
 Driller/Operator: Mick Foley
 Method: Direct Push

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Boring Log: SB-070512-1

Project: Emerson Power Transmission

Surface Elevation (feet AMSL*): Not Determined

Project No.: 4507/Legacy 127491

Total Depth (feet): 1.9

Location: Ithaca, New York

Borehole Diameter (inches): 2.25

Completion Date: 7/5/2012



Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
1	1	0.0	-	40		Concrete
2						Gravelly Silt (ML) Brown (10YR 4/3) silt, some weathered angular bedrock fragments; medium dense; dry.
4						Bottom of Boring at 1.9 feet Refusal at 1.9 feet bgs.
6						
8						
10						
12						
14						
16						
18						
20						

Geologist(s): Erik S. Reinert
 Subcontractor: Parratt Wolff, Inc.
 Driller/Operator: Mick Foley
 Method: Direct Push

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Boring Log: SB-070512-2

Project: Emerson Power Transmission

Surface Elevation (feet AMSL*): Not Determined

Project No.: 4507/Legacy 127491

Total Depth (feet): 3.2

Location: Ithaca, New York

Borehole Diameter (inches): 2.25

Completion Date: 7/5/2012



Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
1		0.0	-	16		Concrete
2			-			Siltstone Broken bedrock/angular gravel; loose; dry.
4						Bottom of Boring at 3.2 feet Refusal at 3.2 feet bgs.
6						
8						
10						
12						
14						
16						
18						
20						

Geologist(s): Erik S. Reinert
 Subcontractor: Parratt Wolff, Inc.
 Driller/Operator: Mick Foley
 Method: Direct Push

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Boring Log: SB-070512-3

Project: Emerson Power Transmission

Surface Elevation (feet AMSL*): Not Determined

Project No.: 4507/Legacy 127491

Total Depth (feet): 5.9

Location: Ithaca, New York

Borehole Diameter (inches): 2.25

Completion Date: 7/5/2012



Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
2	1	0.0	.	25		Concrete
			.			Poorly-Graded Gravel (GP) Gray angular gravel; loose; dry.
4			.			Poorly-Graded Gravel with Silt and Sand (GP-GM) Very dark grayish-brown (10YR 3/2) angular gravel, little silt and sand; medium dense to dense; dry.
6	2	0.0	.	38		
8						
10						
12						
14						
16						
18						
20						

Bottom of Boring at 5.9 feet
Refusal at 5.9 feet bgs.

Geologist(s): Erik S. Reinert
Subcontractor: Parratt Wolff, Inc.
Driller/Operator: Mick Foley
Method: Direct Push

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Boring Log: SB-24a

Project: Emerson Power Transmission

Surface Elevation (feet AMSL*): Not Determined

Project No.: 4507/Legacy 127491

Total Depth (feet): 11

Location: Ithaca, New York

Borehole Diameter (inches): 2.25

Completion Date: 6/26/2012



Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
2	1	0.6 (0-2) 0.3 (2-4)	-	63		Concrete
4						Poorly-Graded Gravel with Sand (GP) Very dark brown (10YR 2/2) silt and angular gravel, little fine to coarse-grained sand; moist; dense.
6	2	0.0	-	50		Silt with Gravel (ML) Brown (10YR 4/3) silt, little to some clay, little gravel; soft; wet.
8						Poorly-Graded Gravel with Silt (GP-GM) Gray (10YR 5/1) angular weathered bedrock, little silt; hard; dry.
10	3	25 (8-10) 2.4 (10-11)	-	66		Lean Clay with Gravel (CL) Gray (2.5Y 5/1) clay, little silt, little gravel; soft; wet; moderate solvent-like or petroleum-like odor.
12						Silt with Gravel (ML) Light olive brown (2.5Y 5/3) silt, little clay, little bedrock fragments with horizontal bedding plane partings; stiff; dry; slight petroleum-like or solvent-like odor.
14						Bottom of Boring at 11 feet Refusal at 11 feet bgs.
16						
18						
20						

Geologist(s): Erik S. Reinert
 Subcontractor: Parratt Wolff, Inc.
 Driller/Operator: Mick Foley
 Method: Direct Push

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 5 Sullivan Street
 Cazenovia, New York 13035
 (315) 655-3900

Boring Log: SB-101112-1**Project:** Emerson Power Transmission**Surface Elevation (feet AMSL*):** Not Determined**Project No.:** 4507/Legacy 127491**Total Depth (feet):** 15.5**Location:** Ithaca, New York**Borehole Diameter (inches):** 2.25**Completion Date:** October 11, 2012*AMSL = Above mean sea level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
2		0.0	-			
4						
6		0.0	-			
8						
10		0.0	-			
12						
14	SB-101112-1 45-300		-			
16						Bottom of Boring at 15.5 feet Refusal in bedrock 15.5' bgs

Geologist(s): Scott Petersen**WSP Environment & Energy****Subcontractor:** Parratt Wolff, Inc.**Driller/Operator:** Glen Lansing, Mick Foley**Method:** Direct Push

Boring Log: SB-101112-2**Project:** Emerson Power Transmission**Surface Elevation (feet AMSL*):** Not Determined**Project No.:** 4507/Legacy 127491**Total Depth (feet):** 15.5**Location:** Ithaca, New York**Borehole Diameter (inches):** 2.25**Completion Date:** October 11, 2012*AMSL = Above mean sea level

Sample Data					Subsurface Profile		
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	
						Ground Surface	
2	SB-101112-2	46.8	.				
4							
6	0.0	.					
8							
10	0.0	.					
12							
14	SB-101112-2(14-15.5)	40.9	.				
16						Bottom of Boring at 15.5 feet Refusal in bedrock 15.5' bgs	

Geologist(s): Scott Petersen**WSP Environment & Energy****Subcontractor:** Parratt Wolff, Inc.**Driller/Operator:** Glen Lansing, Mick Foley**Method:** Direct Push

Boring Log: SB-101112-3**Project:** Emerson Power Transmission**Surface Elevation (feet AMSL*):** Not Determined**Project No.:** 4507/Legacy 127491**Total Depth (feet):** 14.5**Location:** Ithaca, New York**Borehole Diameter (inches):** 2.25**Completion Date:** October 11, 2012*AMSL = Above mean sea level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
2		0.0	-			
4			-			
6		0.0	-			
8			-			
10		0.0	-			
12			-			
14		0.0	-			<i>No Sample Collected</i>
16						Bottom of Boring at 14.5 feet Refusal in bedrock 14.5' bgs

Geologist(s): Scott Petersen**WSP Environment & Energy****Subcontractor:** Parratt Wolff, Inc.**Driller/Operator:** Glen Lansing, Mick Foley**Method:** Direct Push

Boring Log: SB-101112-4**Project:** Emerson Power Transmission**Surface Elevation (feet AMSL*):** Not Determined**Project No.:** 4507/Legacy 127491**Total Depth (feet):** 13.2**Location:** Ithaca, New York**Borehole Diameter (inches):** 2.25**Completion Date:** October 11, 2012*AMSL = Above mean sea level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
2		0.0	-			
4			-			
6		0.0	-			
8			-			
10		0.0	-			
12			-			
	1.0		-			No Sample Collected
14			-			Bottom of Boring at 13.2 feet Refusal in bedrock 13.2' bgs
16			-			

Geologist(s): Scott Petersen**WSP Environment & Energy****Subcontractor:** Parratt Wolff, Inc.**Driller/Operator:** Glen Lansing, Mick Foley**Method:** Direct Push

Boring Log: SB-101112-5**Project:** Emerson Power Transmission**Surface Elevation (feet AMSL*):** Not Determined**Project No.:** 4507/Legacy 127491**Total Depth (feet):** 12.3**Location:** Ithaca, New York**Borehole Diameter (inches):** 2.25**Completion Date:** October 11, 2012*AMSL = Above mean sea level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
2		0.0	-			
4			-			
6		0.0	-			
8			-			
10		0.0	-			
12			-			No Sample Collected
14						Bottom of Boring at 12.3 feet Refusal in bedrock 12.3' bgs
16						

Geologist(s): Scott Petersen**WSP Environment & Energy****Subcontractor:** Parratt Wolff, Inc.**Driller/Operator:** Glen Lansing, Mick Foley**Method:** Direct Push

Boring Log: SB-101112-6**Project:** Emerson Power Transmission**Surface Elevation (feet AMSL*):** Not Determined**Project No.:** 4507/Legacy 127491**Total Depth (feet):** 15.7**Location:** Ithaca, New York**Borehole Diameter (inches):** 2.25**Completion Date:** October 11, 2012*AMSL = Above mean sea level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
2		0.0	-			
4			-			
6		0.0	-			
8			-			
10		0.0	-			
12			-			
14	SB-101112-6	130	-			
16						Bottom of Boring at 15.7 feet Refusal in bedrock 15.7' bgs

Geologist(s): Scott Petersen**WSP Environment & Energy****Subcontractor:** Parratt Wolff, Inc.**Driller/Operator:** Glen Lansing, Mick Foley**Method:** Direct Push

Boring Log: SB-101112-7**Project:** Emerson Power Transmission**Surface Elevation (feet AMSL*):** Not Determined**Project No.:** 4507/Legacy 127491**Total Depth (feet):** 15**Location:** Ithaca, New York**Borehole Diameter (inches):** 2.25**Completion Date:** October 11, 2012*AMSL = Above mean sea level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
2		0.0	-			
4						
6		0.0	-			
8						
10		2.0	-			
12						
14		8.0	-			
16						Bottom of Boring at 15 feet Refusal in bedrock 15' bgs

Geologist(s): Scott Petersen**WSP Environment & Energy****Subcontractor:** Parratt Wolff, Inc.**Driller/Operator:** Glen Lansing, Mick Foley**Method:** Direct Push

Boring Log: TP-1**Project:** Fmr Emerson Power Transmission **Surface Elevation (feet AMSL*):** Not Determined**Project No.:** 4255**Total Depth (feet):** 3.6**Location:** Ithaca, New York**Borehole Diameter (inches):****Completion Date:** May 22, 2012*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
1		0.0				Silt (ML) Silt and clay.
2						
3						
4						Refusal at 3.6 ft bgs at top of 12" cast iron sewer line.
5						

Geologist(s): Scott Peterson
Subcontractor: RSI
Driller/Operator: Clyde Meador
Method: Takeuchi compact excavator

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Reston, Virginia 20191
703-709-6500

Boring Log: TP-2**Project:** Fmr Emerson Power Transmission **Surface Elevation (feet AMSL*):** Not Determined**Project No.:** 4255**Total Depth (feet):** 3.55**Location:** Ithaca, New York**Borehole Diameter (inches):****Completion Date:** May 22, 2012

*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
1						Silt (ML) Silt and clay.
2		0.0				
3						
4						Refusal at 3.55 ft bgs at top of 12" cast iron sewer line.
5						

Geologist(s): Scott Peterson
Subcontractor: RSI
Driller/Operator: Clyde Meador
Method: Takeuchi compact excavator

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 Reston, Virginia 20191
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Boring Log: TP-3**Project:** Fmr Emerson Power Transmission **Surface Elevation (feet AMSL*):** Not Determined**Project No.:** 4255**Total Depth (feet):** 2.9**Location:** Ithaca, New York**Borehole Diameter (inches):****Completion Date:** May 22, 2012*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
1		0.0				Silt (ML) Silt and clay.
2						
3						Refusal at 2.9 ft bgs at top of 12" cast iron sewer line.
4						
5						

Geologist(s): Scott Peterson
Subcontractor: RSI
Driller/Operator: Clyde Meador
Method: Takeuchi compact excavator

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Reston, Virginia 20191
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Boring Log: TP-4**Project:** Fmr Emerson Power Transmission **Surface Elevation (feet AMSL*):** Not Determined**Project No.:** 4255**Total Depth (feet):** 7.8**Location:** Ithaca, New York**Borehole Diameter (inches):****Completion Date:** May 23, 2012*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
1						Silt (ML) Silt and clay.
2						
3		-				
4						
5						
6						
7		1.2				Silt (ML) Silt and clay. Oil/water mixture on top of bedrock.
		-				Silt (ML) Silt and clay.
8						Refusal at 7.8 ft bgs, bedrock.
9						
10						

Geologist(s): Scott Peterson
Subcontractor: RSI
Driller/Operator: Clyde Meador
Method: Takeuchi compact excavator

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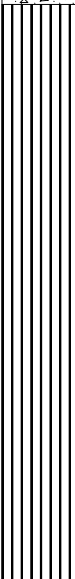
Boring Log: TP-5**Project:** Fmr Emerson Power Transmission **Surface Elevation (feet AMSL*):** Not Determined**Project No.:** 4255**Total Depth (feet):** 7.8**Location:** Ithaca, New York**Borehole Diameter (inches):****Completion Date:** May 23, 2012*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
1						Silt (ML) Silt and clay.
2						
3		-				
4						
5						
6						
7		1.2				Silt (ML) Silt and clay. Oil/water mixture on top of bedrock.
		-				Silt (ML) Silt and clay.
8						Refusal at 7.8 ft bgs, bedrock.
9						
10						

Geologist(s): Scott Peterson
Subcontractor: RSI
Driller/Operator: Clyde Meador
Method: Takeuchi compact excavator

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Reston, Virginia 20191
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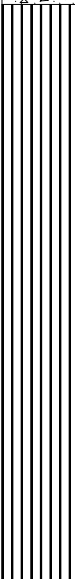
Boring Log: TP-6**Project:** Fmr Emerson Power Transmission **Surface Elevation (feet AMSL*):** Not Determined**Project No.:** 4255**Total Depth (feet):** 3**Location:** Ithaca, New York**Borehole Diameter (inches):****Completion Date:** June 1, 2012*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
						Concrete slab.
1						Silt (ML) Silt and clay.
2						
3						
						Estimated bottom of test pit at 3 ft bgs.
4						
5						

Geologist(s): Scott Peterson
Subcontractor: RSI
Driller/Operator: Clyde Meador
Method: Takeuchi compact excavator

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Reston, Virginia 20191
703-709-6500

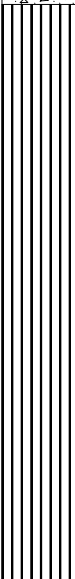
Boring Log: TP-7**Project:** Fmr Emerson Power Transmission **Surface Elevation (feet AMSL*):** Not Determined**Project No.:** 4255**Total Depth (feet):** 3**Location:** Ithaca, New York**Borehole Diameter (inches):****Completion Date:** June 6, 2012*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
						Concrete slab.
1						Silt (ML) Silt and clay.
2						
3						Estimated bottom of test pit at 3 ft bgs.
4						
5						

Geologist(s): Scott Peterson
Subcontractor: RSI
Driller/Operator: Clyde Meador
Method: Takeuchi compact excavator

WSP USA Corp.
11190 Sunrise Valley Dr. Suite 300
Reston, Virginia 20191
703-709-6500

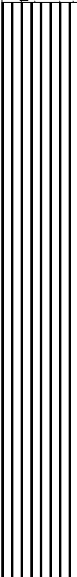
Boring Log: TP-8**Project:** Fmr Emerson Power Transmission **Surface Elevation (feet AMSL*):** Not Determined**Project No.:** 4255**Total Depth (feet):** 3**Location:** Ithaca, New York**Borehole Diameter (inches):****Completion Date:** June 6, 2012*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
						Concrete slab.
1						Silt (ML) Silt and clay.
2						
3						
						Estimated bottom of test pit at 3 ft bgs.
4						
5						

Geologist(s): Scott Peterson
Subcontractor: RSI
Driller/Operator: Clyde Meador
Method: Takeuchi compact excavator

WSP USA Corp.
11190 Sunrise Valley Dr. Suite 300
Reston, Virginia 20191
703-709-6500

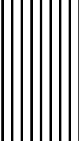
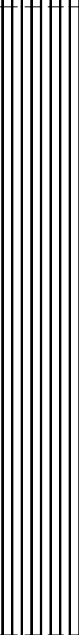
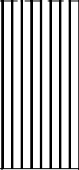
Boring Log: TP-9**Project:** Fmr Emerson Power Transmission **Surface Elevation (feet AMSL*):** Not Determined**Project No.:** 4255**Total Depth (feet):** 3**Location:** Ithaca, New York**Borehole Diameter (inches):****Completion Date:** June 6, 2012*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
						Concrete slab.
1		3.3				Silt (ML) Silt and clay.
2						
3						
						Estimated bottom of test pit at 3 ft bgs.
4						
5						

Geologist(s): Scott Peterson
Subcontractor: RSI
Driller/Operator: Clyde Meador
Method: Takeuchi compact excavator

WSP USA Corp.
11190 Sunrise Valley Dr. Suite 300
Reston, Virginia 20191
703-709-6500

Boring Log: TP-10**Project:** Fmr Emerson Power Transmission **Surface Elevation (feet AMSL*):** Not Determined**Project No.:** 4255**Total Depth (feet):** 9.6**Location:** Ithaca, New York**Borehole Diameter (inches):****Completion Date:** June 9, 2012*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
		5.0				Concrete slab.
2						Silt (ML) Silt and clay.
4		2.0				Silt (ML) Silt and clay.
6						
8						Silt (ML) Silt and clay.
10						Refusal at 9.6 ft bgs, bedrock.

Geologist(s): Scott Peterson
Subcontractor: RSI
Driller/Operator: Clyde Meador
Method: Takeuchi compact excavator

WSP USA Corp.
11190 Sunrise Valley Dr. Suite 300
Reston, Virginia 20191
703-709-6500

Boring Log: TP-11**Project:** Fmr Emerson Power Transmission **Surface Elevation (feet AMSL*):** Not Determined**Project No.:** 4255**Total Depth (feet):** 6**Location:** Ithaca, New York**Borehole Diameter (inches):****Completion Date:** June 9, 2012

*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
						Concrete slab.
1						Silt (ML) Silt and clay.
2						
3						
4						
5						
6						Refusal at 6 ft bgs, bedrock.
7						

Geologist(s): Scott Peterson
Subcontractor: RSI
Driller/Operator: Clyde Meador
Method: Takeuchi compact excavator

WSP USA Corp.
 11190 Sunrise Valley Dr. Suite 300
 Reston, Virginia 20191
 703-709-6500

Boring Log: TP-12**Project:** Fmr Emerson Power Transmission **Surface Elevation (feet AMSL*):** Not Determined**Project No.:** 4255**Total Depth (feet):** 9**Location:** Ithaca, New York**Borehole Diameter (inches):****Completion Date:** June 9, 2012*AMSL = Above Mean Sea Level

Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
		0.6				Concrete slab.
1						<i>Well-Graded Sand (SW)</i>
2						
3						
4						
5						
6						
7						
8						
9						Refusal at 9 ft bgs, bedrock.
10						

Geologist(s): Scott Peterson
Subcontractor: RSI
Driller/Operator: Clyde Meador
Method: Takeuchi compact excavator

WSP USA Corp.
11190 Sunrise Valley Dr. Suite 300
Reston, Virginia 20191
703-709-6500

Appendix D – Laboratory Data Reports

May 30, 2012

Mr. Scott Petersen
WSP Environment & Energy
5 Sullivan Street
Cazenovia, NY 13035

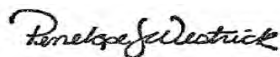
RE: Project: 4507134 EPT Ithaca, NY
Pace Project No.: 3070020

Dear Mr. Petersen:

Enclosed are the analytical results for sample(s) received by the laboratory on May 22, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Penny Westrick

penny.westrick@pacelabs.com
Project Manager

Enclosures

cc: Mr. Erik Reinert, WSP Environment & Energy



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601

ACCLASS DOD-ELAP Accreditation #: ADE-1544

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California/TNI Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH 0694

Delaware Certification

Florida/TNI Certification #: E87683

Guam/PADEP Certification

Hawaii/PADEP Certification

Idaho Certification

Illinois/PADEP Certification

Indiana/PADEP Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana/TNI Certification #: LA080002

Louisiana/TNI Certification #: 4086

Maine Certification #: PA0091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nevada Certification

New Hampshire/TNI Certification #: 2976

New Jersey/TNI Certification #: PA 051

New Mexico Certification

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188

Utah/TNI Certification #: ANTE

Virgin Island/PADEP Certification

Virginia Certification #: 00112

Virginia VELAP (Cert # 460198)

Washington Certification #: C868

West Virginia Certification #: 143

Wisconsin/PADEP Certification

Wyoming Certification #: 8TMS-Q

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SAMPLE ANALYTE COUNT

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3070020001	CS-1	EPA 8015B Modified	CWB	2	PASI-PA
		EPA 8081	CWB	23	PASI-PA
		EPA 8081	CWB	8	PASI-PA
		EPA 8082	SJG	10	PASI-PA
		EPA 8015B Modified	MAK	3	PASI-PA
		EPA 6010B	MJO	24	PASI-PA
		EPA 6010	MJO	7	PASI-PA
		EPA 7470	MJO	1	PASI-PA
		EPA 7471	MJO	1	PASI-PA
		EPA 8270	SPL	70	PASI-PA
		EPA 8270	SPL	18	PASI-PA
		EPA 8260	JEW	45	PASI-PA
		EPA 8260	JAS	13	PASI-PA
		ASTM D2974-87	AJC	1	PASI-PA
		EPA 1010	JES	1	PASI-PA
		EPA 9045	CSL	1	PASI-PA
		SW-846 7.3.3.2	JES	1	PASI-PA
		SW-846 7.3.4.2	PM1	1	PASI-PA
3070020002	CS-2	EPA 8015B Modified	CWB	2	PASI-PA
		EPA 8081	CWB	23	PASI-PA
		EPA 8081	CWB	8	PASI-PA
		EPA 8082	SJG	10	PASI-PA
		EPA 8015B Modified	MAK	3	PASI-PA
		EPA 6010B	MJO	24	PASI-PA
		EPA 6010	MJO	7	PASI-PA
		EPA 7470	MJO	1	PASI-PA
		EPA 7471	MJO	1	PASI-PA
		EPA 8270	SPL	70	PASI-PA
		EPA 8270	SPL	18	PASI-PA
		EPA 8260	DJL, JEW	45	PASI-PA
		EPA 8260	JAS	13	PASI-PA
		ASTM D2974-87	AJC	1	PASI-PA
		EPA 1010	JES	1	PASI-PA
		EPA 9045	CSL	1	PASI-PA
		SW-846 7.3.3.2	JES	1	PASI-PA
		SW-846 7.3.4.2	PM1	1	PASI-PA
3070020003	CS-3	EPA 8015B Modified	CWB	2	PASI-PA

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SAMPLE ANALYTE COUNT

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3070020004	CS-4	EPA 8081	CWB	23	PASI-PA
		EPA 8081	CWB	8	PASI-PA
		EPA 8082	SJG	10	PASI-PA
		EPA 8015B Modified	MAK	3	PASI-PA
		EPA 6010B	MJO	24	PASI-PA
		EPA 6010	MJO	7	PASI-PA
		EPA 7470	MJO	1	PASI-PA
		EPA 7471	MJO	1	PASI-PA
		EPA 8270	SPL	70	PASI-PA
		EPA 8270	SPL	18	PASI-PA
		EPA 8260	DJL, JEW	45	PASI-PA
		EPA 8260	JAS	13	PASI-PA
		ASTM D2974-87	AJC	1	PASI-PA
		EPA 1010	JES	1	PASI-PA
		EPA 9045	CSL	1	PASI-PA
		SW-846 7.3.3.2	JES	1	PASI-PA
		SW-846 7.3.4.2	PM1	1	PASI-PA
		EPA 8015B Modified	CWB	2	PASI-PA
		EPA 8081	CWB	23	PASI-PA
		EPA 8081	CWB	8	PASI-PA
		EPA 8082	SJG	10	PASI-PA
		EPA 8015B Modified	MAK	3	PASI-PA
		EPA 6010B	MJO	24	PASI-PA
		EPA 6010	MJO	7	PASI-PA
		EPA 7470	MJO	1	PASI-PA
		EPA 7471	MJO	1	PASI-PA
		EPA 8270	SPL	70	PASI-PA
		EPA 8270	SPL	18	PASI-PA
		EPA 8260	DJL, JEW	45	PASI-PA
		EPA 8260	JAS	13	PASI-PA
		ASTM D2974-87	AJC	1	PASI-PA
		EPA 1010	JES	1	PASI-PA
		EPA 9045	CSL	1	PASI-PA
3070020005	CS-5	SW-846 7.3.3.2	JES	1	PASI-PA
		SW-846 7.3.4.2	PM1	1	PASI-PA
		EPA 8015B Modified	CWB	2	PASI-PA
		EPA 8081	CWB	23	PASI-PA

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SAMPLE ANALYTE COUNT

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3070020006	CS-6	EPA 8081	CWB	8	PASI-PA
		EPA 8082	SJG	10	PASI-PA
		EPA 8015B Modified	MAK	3	PASI-PA
		EPA 6010B	MJO	24	PASI-PA
		EPA 6010	MJO	7	PASI-PA
		EPA 7470	MJO	1	PASI-PA
		EPA 7471	MJO	1	PASI-PA
		EPA 8270	SPL	70	PASI-PA
		EPA 8270	SPL	18	PASI-PA
		EPA 8260	DJL, JEW	45	PASI-PA
		EPA 8260	JAS	13	PASI-PA
		ASTM D2974-87	AJC	1	PASI-PA
		EPA 1010	JES	1	PASI-PA
		EPA 9045	CSL	1	PASI-PA
		SW-846 7.3.3.2	JES	1	PASI-PA
		SW-846 7.3.4.2	PM1	1	PASI-PA
		EPA 8015B Modified	CWB	2	PASI-PA
		EPA 8081	CWB	23	PASI-PA
		EPA 8081	CWB	8	PASI-PA
		EPA 8082	SJG	10	PASI-PA
		EPA 8015B Modified	MAK	3	PASI-PA
		EPA 6010B	MJO	24	PASI-PA
		EPA 6010	MJO	7	PASI-PA
		EPA 7470	MJO	1	PASI-PA
		EPA 7471	MJO	1	PASI-PA
		EPA 8270	SPL	70	PASI-PA
		EPA 8270	SPL	18	PASI-PA
		EPA 8260	DJL, JEW	45	PASI-PA
		EPA 8260	JAS	13	PASI-PA
		ASTM D2974-87	AJC	1	PASI-PA
		EPA 1010	JES	1	PASI-PA
		EPA 9045	CSL	1	PASI-PA
		SW-846 7.3.3.2	JES	1	PASI-PA
		SW-846 7.3.4.2	PM1	1	PASI-PA
3070020007	CS-7	EPA 8015B Modified	CWB	2	PASI-PA
		EPA 8081	CWB	23	PASI-PA
		EPA 8081	CWB	8	PASI-PA

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SAMPLE ANALYTE COUNT

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8082	SJG	10	PASI-PA
		EPA 8015B Modified	MAK	3	PASI-PA
		EPA 6010B	MJO	24	PASI-PA
		EPA 6010	MJO	7	PASI-PA
		EPA 7470	MJO	1	PASI-PA
		EPA 7471	MJO	1	PASI-PA
		EPA 8270	SPL	70	PASI-PA
		EPA 8270	SPL	18	PASI-PA
		EPA 8260	DJL, JEW	45	PASI-PA
		EPA 8260	JAS	13	PASI-PA
		ASTM D2974-87	AJC	1	PASI-PA
		EPA 1010	JES	1	PASI-PA
		EPA 9045	CSL	1	PASI-PA
		SW-846 7.3.3.2	JES	1	PASI-PA
		SW-846 7.3.4.2	PM1	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Method: EPA 8015B Modified

Description: 8015 GCS THC-Diesel

Client: WSP Environment & Energy - Cazenovia, NY

Date: May 30, 2012

General Information:

7 samples were analyzed for EPA 8015B Modified. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: OEXT/11568

2c: The majority of the area quantitated as DRO for this sample is due to unresolved material eluting beyond C 20.

- CS-1 (Lab ID: 3070020001)
 - Diesel Components
- CS-2 (Lab ID: 3070020002)
 - Diesel Components
- CS-3 (Lab ID: 3070020003)
 - Diesel Components
- CS-4 (Lab ID: 3070020004)
 - Diesel Components

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Method: EPA 8015B Modified

Description: 8015 GCS THC-Diesel

Client: WSP Environment & Energy - Cazenovia, NY

Date: May 30, 2012

Analyte Comments:

QC Batch: OEXT/11568

2c: The majority of the area quantitated as DRO for this sample is due to unresolved material eluting beyond C 20.

- CS-5 (Lab ID: 3070020005)
 - Diesel Components
- CS-6 (Lab ID: 3070020006)
 - Diesel Components
- CS-7 (Lab ID: 3070020007)
 - Diesel Components

3c: The matrix spike is diluted out.

- MS (Lab ID: 445977)
 - Diesel Components
- MSD (Lab ID: 445978)
 - Diesel Components

6c: The surrogate (O-Terphenyl) is diluted out.

- CS-1 (Lab ID: 3070020001)
 - o-Terphenyl (S)
- CS-2 (Lab ID: 3070020002)
 - o-Terphenyl (S)
- CS-3 (Lab ID: 3070020003)
 - o-Terphenyl (S)
- CS-5 (Lab ID: 3070020005)
 - o-Terphenyl (S)
- CS-6 (Lab ID: 3070020006)
 - o-Terphenyl (S)
- CS-7 (Lab ID: 3070020007)
 - o-Terphenyl (S)
- MS (Lab ID: 445977)
 - o-Terphenyl (S)
- MSD (Lab ID: 445978)
 - o-Terphenyl (S)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Method: EPA 8081

Description: 8081 GCS Pesticides

Client: WSP Environment & Energy - Cazenovia, NY

Date: May 30, 2012

General Information:

7 samples were analyzed for EPA 8081. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/11558

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 3070020001

M3: Matrix spike recovery was outside laboratory control limits due to matrix interferences.

- MS (Lab ID: 445343)
 - Endosulfan I
 - Methoxychlor
- MSD (Lab ID: 445344)
 - Endosulfan I
 - Endosulfan II

R1: RPD value was outside control limits.

- MSD (Lab ID: 445344)
 - Dieldrin
 - Endosulfan II
 - Heptachlor epoxide
 - beta-BHC

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Method: EPA 8081

Description: 8081 GCS Pesticides

Client: WSP Environment & Energy - Cazenovia, NY

Date: May 30, 2012

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: OEXT/11558

5c: The response for delta-BHC is high in the closing calibration standard associated with this batch of samples. No delta-BHC is detected at or above the reporting limit for delta-BHC. Samples are unaffected by the high bias.

- BLANK (Lab ID: 445338)
 - delta-BHC
- CS-1 (Lab ID: 3070020001)
 - delta-BHC
- CS-2 (Lab ID: 3070020002)
 - delta-BHC
- CS-3 (Lab ID: 3070020003)
 - delta-BHC
- CS-4 (Lab ID: 3070020004)
 - delta-BHC
- CS-5 (Lab ID: 3070020005)
 - delta-BHC
- CS-6 (Lab ID: 3070020006)
 - delta-BHC
- CS-7 (Lab ID: 3070020007)
 - delta-BHC
- LCS (Lab ID: 445339)
 - delta-BHC
- MS (Lab ID: 445343)
 - delta-BHC
- MSD (Lab ID: 445344)
 - delta-BHC

C3: Relative percent difference between results from each column was greater than 40%. The higher of the two results was reported.

- CS-1 (Lab ID: 3070020001)
 - Endosulfan I
 - Endrin aldehyde

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Method: EPA 8081

Description: 8081 GCS Pesticides, TCLP

Client: WSP Environment & Energy - Cazenovia, NY

Date: May 30, 2012

General Information:

7 samples were analyzed for EPA 8081. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: OEXT/11552

4c: The recovery of gamma-BHC is high in the LCS. No gamma-BHC is detected at or above the reporting limit in any of the associated samples.

- LCS (Lab ID: 445278)
- gamma-BHC (Lindane)

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PROJECT NARRATIVE

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Method: EPA 8082

Description: 8082 GCS PCB

Client: WSP Environment & Energy - Cazenovia, NY

Date: May 30, 2012

General Information:

7 samples were analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: OEXT/11559

1c: Matrix spike recovery below QC limits due to matrix. Batch accepted based upon LCS recovery.

- MS (Lab ID: 445352)
- PCB-1232 (Aroclor 1232)

REPORT OF LABORATORY ANALYSIS

PROJECT NARRATIVE

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Method: EPA 8015B Modified

Description: Gasoline Range Organics

Client: WSP Environment & Energy - Cazenovia, NY

Date: May 30, 2012

General Information:

7 samples were analyzed for EPA 8015B Modified. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 5035A/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Method: EPA 6010B

Description: 6010 MET ICP

Client: WSP Environment & Energy - Cazenovia, NY

Date: May 30, 2012

General Information:

7 samples were analyzed for EPA 6010B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3050 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/8376

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 3069851011

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 446222)
 - Aluminum
 - Antimony
 - Iron
 - Magnesium
 - Manganese
 - Nickel
 - Potassium
 - Zinc
- MSD (Lab ID: 446223)
 - Aluminum
 - Antimony
 - Barium
 - Boron
 - Iron
 - Magnesium
 - Manganese

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PROJECT NARRATIVE

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Method: EPA 6010B

Description: 6010 MET ICP

Client: WSP Environment & Energy - Cazenovia, NY

Date: May 30, 2012

QC Batch: MPRP/8376

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 3069851011

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- Nickel
- Zinc

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: MPRP/8376

D6: The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 446221)
 - Arsenic
 - Barium
 - Cobalt
 - Magnesium
 - Nickel
 - Vanadium
 - Zinc

Additional Comments:

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PROJECT NARRATIVE

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Method: EPA 6010

Description: 6010 MET ICP, TCLP

Client: WSP Environment & Energy - Cazenovia, NY

Date: May 30, 2012

General Information:

7 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3005 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Method: EPA 7470

Description: 7470 Mercury, TCLP

Client: WSP Environment & Energy - Cazenovia, NY

Date: May 30, 2012

General Information:

7 samples were analyzed for EPA 7470. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MERP/3618

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 3070015001,3070041001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 445660)
- Mercury

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Method: EPA 7471

Description: 7471 Mercury

Client: WSP Environment & Energy - Cazenovia, NY

Date: May 30, 2012

General Information:

7 samples were analyzed for EPA 7471. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 7471 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Method: EPA 8270

Description: 8270 MSSV FULL LIST MICROWAVE

Client: WSP Environment & Energy - Cazenovia, NY

Date: May 30, 2012

General Information:

7 samples were analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/11573

S0: Surrogate recovery outside laboratory control limits.

- CS-1 (Lab ID: 3070020001)
 - 2,4,6-Tribromophenol (S)
 - 2-Fluorophenol (S)
 - Phenol-d6 (S)
- CS-2 (Lab ID: 3070020002)
 - 2,4,6-Tribromophenol (S)
 - 2-Fluorophenol (S)
 - Phenol-d6 (S)
- CS-3 (Lab ID: 3070020003)
 - 2,4,6-Tribromophenol (S)
 - 2-Fluorophenol (S)
- CS-4 (Lab ID: 3070020004)
 - 2,4,6-Tribromophenol (S)
 - 2-Fluorophenol (S)
 - Phenol-d6 (S)
- CS-5 (Lab ID: 3070020005)
 - 2,4,6-Tribromophenol (S)
 - 2-Fluorophenol (S)
 - Phenol-d6 (S)
- CS-6 (Lab ID: 3070020006)
 - 2,4,6-Tribromophenol (S)

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PROJECT NARRATIVE

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Method: EPA 8270

Description: 8270 MSSV FULL LIST MICROWAVE

Client: WSP Environment & Energy - Cazenovia, NY

Date: May 30, 2012

QC Batch: OEXT/11573

S0: Surrogate recovery outside laboratory control limits.

- 2-Fluorophenol (S)
- Phenol-d6 (S)
- CS-7 (Lab ID: 3070020007)
 - 2,4,6-Tribromophenol (S)
 - 2-Fluorophenol (S)
 - Phenol-d6 (S)

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: OEXT/11573

C0: Result confirmed by second analysis.

- CS-1 (Lab ID: 3070020001)
 - 2,4,6-Tribromophenol (S)
 - 2-Fluorophenol (S)
 - Phenol-d6 (S)
- CS-2 (Lab ID: 3070020002)
 - 2,4,6-Tribromophenol (S)
 - 2-Fluorophenol (S)
 - Phenol-d6 (S)
- CS-3 (Lab ID: 3070020003)
 - 2,4,6-Tribromophenol (S)
 - 2-Fluorophenol (S)
- CS-4 (Lab ID: 3070020004)
 - 2,4,6-Tribromophenol (S)
 - 2-Fluorophenol (S)
 - Phenol-d6 (S)
- CS-5 (Lab ID: 3070020005)
 - 2,4,6-Tribromophenol (S)
 - 2-Fluorophenol (S)
 - Phenol-d6 (S)

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PROJECT NARRATIVE

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Method: EPA 8270

Description: 8270 MSSV FULL LIST MICROWAVE

Client: WSP Environment & Energy - Cazenovia, NY

Date: May 30, 2012

Analyte Comments:

QC Batch: OEXT/11573

C0: Result confirmed by second analysis.

- CS-6 (Lab ID: 3070020006)
 - 2,4,6-Tribromophenol (S)
 - 2-Fluorophenol (S)
 - Phenol-d6 (S)
- CS-7 (Lab ID: 3070020007)
 - 2,4,6-Tribromophenol (S)
 - 2-Fluorophenol (S)
 - Phenol-d6 (S)

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PROJECT NARRATIVE

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Method: EPA 8270

Description: 8270 MSSV TCLP

Client: WSP Environment & Energy - Cazenovia, NY

Date: May 30, 2012

General Information:

7 samples were analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3535 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: OEXT/11565

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 445962)
- Pyridine

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/11565

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 3070038003

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MSD (Lab ID: 445964)
- Pyridine

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

REPORT OF LABORATORY ANALYSIS

PROJECT NARRATIVE

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Method: EPA 8270

Description: 8270 MSSV TCLP

Client: WSP Environment & Energy - Cazenovia, NY

Date: May 30, 2012

Additional Comments:

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PROJECT NARRATIVE

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Method: EPA 8260

Description: 8260 MSV 5030 Low Level

Client: WSP Environment & Energy - Cazenovia, NY

Date: May 30, 2012

General Information:

7 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/12857

LO: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 446360)
- Acetone

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/12857

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Method: EPA 8260

Description: 8260 MSV TCLP

Client: WSP Environment & Energy - Cazenovia, NY

Date: May 30, 2012

General Information:

7 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Method: EPA 1010

Description: 1010 Flashpoint,Closed Cup

Client: WSP Environment & Energy - Cazenovia, NY

Date: May 30, 2012

General Information:

7 samples were analyzed for EPA 1010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Method: EPA 9045

Description: 9045 pH Soil

Client: WSP Environment & Energy - Cazenovia, NY

Date: May 30, 2012

General Information:

7 samples were analyzed for EPA 9045. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

H1: Analysis conducted outside the EPA method holding time.

- CS-1 (Lab ID: 3070020001)
- CS-2 (Lab ID: 3070020002)
- CS-3 (Lab ID: 3070020003)
- CS-4 (Lab ID: 3070020004)
- CS-5 (Lab ID: 3070020005)
- CS-6 (Lab ID: 3070020006)
- CS-7 (Lab ID: 3070020007)

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Method: SW-846 7.3.3.2

Description: 733C S Reactive Cyanide

Client: WSP Environment & Energy - Cazenovia, NY

Date: May 30, 2012

General Information:

7 samples were analyzed for SW-846 7.3.3.2. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Method: SW-846 7.3.4.2

Description: 735S Reactive Sulfide

Client: WSP Environment & Energy - Cazenovia, NY

Date: May 30, 2012

General Information:

7 samples were analyzed for SW-846 7.3.4.2. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-1 **Lab ID:** 3070020001 **Collected:** 05/21/12 14:20 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel								
Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Diesel Components	1440	mg/kg	137	20	05/29/12 09:00	05/30/12 10:43		2c
Surrogates								
o-Terphenyl (S)	0	%	50-150	20	05/29/12 09:00	05/30/12 10:43	84-15-1	6c
8081 GCS Pesticides								
Analytical Method: EPA 8081 Preparation Method: EPA 3546								
Aldrin	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 17:34	309-00-2	
alpha-BHC	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 17:34	319-84-6	
beta-BHC	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 17:34	319-85-7	
delta-BHC	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 17:34	319-86-8	5c
gamma-BHC (Lindane)	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 17:34	58-89-9	
alpha-Chlordane	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 17:34	5103-71-9	
gamma-Chlordane	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 17:34	5103-74-2	
4,4'-DDD	ND	ug/kg	3.4	1	05/25/12 13:00	05/29/12 17:34	72-54-8	
4,4'-DDE	ND	ug/kg	3.4	1	05/25/12 13:00	05/29/12 17:34	72-55-9	
4,4'-DDT	ND	ug/kg	3.4	1	05/25/12 13:00	05/29/12 17:34	50-29-3	
Dieldrin	ND	ug/kg	3.4	1	05/25/12 13:00	05/29/12 17:34	60-57-1	
Endosulfan I	3.1	ug/kg	1.7	1	05/25/12 13:00	05/29/12 17:34	959-98-8	C3
Endosulfan II	ND	ug/kg	3.4	1	05/25/12 13:00	05/29/12 17:34	33213-65-9	
Endosulfan sulfate	ND	ug/kg	3.4	1	05/25/12 13:00	05/29/12 17:34	1031-07-8	
Endrin	ND	ug/kg	3.4	1	05/25/12 13:00	05/29/12 17:34	72-20-8	
Endrin aldehyde	8.7	ug/kg	3.4	1	05/25/12 13:00	05/29/12 17:34	7421-93-4	C3
Endrin ketone	ND	ug/kg	3.4	1	05/25/12 13:00	05/29/12 17:34	53494-70-5	
Heptachlor	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 17:34	76-44-8	
Heptachlor epoxide	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 17:34	1024-57-3	
Methoxychlor	ND	ug/kg	17.2	1	05/25/12 13:00	05/29/12 17:34	72-43-5	
Toxaphene	ND	ug/kg	17.2	1	05/25/12 13:00	05/29/12 17:34	8001-35-2	
Surrogates								
Tetrachloro-m-xylene (S)	78	%	30-150	1	05/25/12 13:00	05/29/12 17:34	877-09-8	
Decachlorobiphenyl (S)	63	%	30-150	1	05/25/12 13:00	05/29/12 17:34	2051-24-3	
8081 GCS Pesticides, TCLP								
Analytical Method: EPA 8081 Preparation Method: EPA 3510								
gamma-BHC (Lindane)	ND	ug/L	10.0	1	05/25/12 16:00	05/29/12 23:30	58-89-9	
Chlordane (Technical)	ND	ug/L	10.0	1	05/25/12 16:00	05/29/12 23:30	57-74-9	
Endrin	ND	ug/L	1.0	1	05/25/12 16:00	05/29/12 23:30	72-20-8	
Heptachlor epoxide	ND	ug/L	0.50	1	05/25/12 16:00	05/29/12 23:30	1024-57-3	
Methoxychlor	ND	ug/L	100	1	05/25/12 16:00	05/29/12 23:30	72-43-5	
Toxaphene	ND	ug/L	50.0	1	05/25/12 16:00	05/29/12 23:30	8001-35-2	
Surrogates								
Decachlorobiphenyl (S)	81	%	30-150	1	05/25/12 16:00	05/29/12 23:30	2051-24-3	
Tetrachloro-m-xylene (S)	86	%	30-150	1	05/25/12 16:00	05/29/12 23:30	877-09-8	
8082 GCS PCB								
Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	344	20	05/25/12 13:00	05/30/12 15:31	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	344	20	05/25/12 13:00	05/30/12 15:31	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	344	20	05/25/12 13:00	05/30/12 15:31	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	344	20	05/25/12 13:00	05/30/12 15:31	53469-21-9	

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ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-1 **Lab ID:** 3070020001 **Collected:** 05/21/12 14:20 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1248 (Aroclor 1248)	ND ug/kg		344	20	05/25/12 13:00	05/30/12 15:31	12672-29-6	
PCB-1254 (Aroclor 1254)	ND ug/kg		344	20	05/25/12 13:00	05/30/12 15:31	11097-69-1	
PCB-1260 (Aroclor 1260)	ND ug/kg		344	20	05/25/12 13:00	05/30/12 15:31	11096-82-5	
PCB, Total	ND ug/kg		344	20	05/25/12 13:00	05/30/12 15:31	1336-36-3	
Surrogates								
Tetrachloro-m-xylene (S)	84 %		30-150	20	05/25/12 13:00	05/30/12 15:31	877-09-8	
Decachlorobiphenyl (S)	88 %		30-150	20	05/25/12 13:00	05/30/12 15:31	2051-24-3	

Gasoline Range Organics

Analytical Method: EPA 8015B Modified Preparation Method: EPA 5035A/5030B

Gasoline Range Organics	ND mg/kg		10	1	05/29/12 09:38	05/30/12 10:27		
TPH (C06-C10)	ND mg/kg		10	1	05/29/12 09:38	05/30/12 10:27		
Surrogates								
4-Bromofluorobenzene (S)	96 %		70-130	1	05/29/12 09:38	05/30/12 10:27	460-00-4	

6010 MET ICP

Analytical Method: EPA 6010B Preparation Method: EPA 3050

Aluminum	3350 mg/kg		6.1	1	05/29/12 09:50	05/30/12 10:03	7429-90-5	
Antimony	ND mg/kg		0.37	1	05/29/12 09:50	05/30/12 10:03	7440-36-0	
Arsenic	2.1 mg/kg		0.30	1	05/29/12 09:50	05/30/12 10:03	7440-38-2	
Barium	37.6 mg/kg		1.2	1	05/29/12 09:50	05/30/12 10:03	7440-39-3	
Beryllium	ND mg/kg		0.12	1	05/29/12 09:50	05/30/12 10:03	7440-41-7	
Boron	7.9 mg/kg		3.0	1	05/29/12 09:50	05/30/12 10:03	7440-42-8	
Cadmium	ND mg/kg		0.18	1	05/29/12 09:50	05/30/12 10:03	7440-43-9	
Calcium	336000 mg/kg		2430	20	05/29/12 09:50	05/30/12 11:46	7440-70-2	
Chromium	4.5 mg/kg		0.30	1	05/29/12 09:50	05/30/12 10:03	7440-47-3	
Cobalt	6.2 mg/kg		0.61	1	05/29/12 09:50	05/30/12 10:03	7440-48-4	
Copper	9.5 mg/kg		0.61	1	05/29/12 09:50	05/30/12 10:03	7440-50-8	
Iron	6130 mg/kg		6.1	1	05/29/12 09:50	05/30/12 10:03	7439-89-6	
Lead	4.3 mg/kg		0.30	1	05/29/12 09:50	05/30/12 10:03	7439-92-1	
Magnesium	6590 mg/kg		30.4	1	05/29/12 09:50	05/30/12 10:03	7439-95-4	
Manganese	1080 mg/kg		0.61	1	05/29/12 09:50	05/30/12 10:03	7439-96-5	
Molybdenum	ND mg/kg		1.2	1	05/29/12 09:50	05/30/12 10:03	7439-98-7	
Nickel	7.5 mg/kg		1.2	1	05/29/12 09:50	05/30/12 10:03	7440-02-0	
Potassium	689 mg/kg		30.4	1	05/29/12 09:50	05/30/12 10:03	7440-09-7	
Selenium	ND mg/kg		0.49	1	05/29/12 09:50	05/30/12 10:03	7782-49-2	
Silver	ND mg/kg		0.37	1	05/29/12 09:50	05/30/12 10:03	7440-22-4	
Sodium	ND mg/kg		304	1	05/29/12 09:50	05/30/12 10:03	7440-23-5	
Thallium	ND mg/kg		1.2	1	05/29/12 09:50	05/30/12 10:03	7440-28-0	
Vanadium	5.4 mg/kg		0.61	1	05/29/12 09:50	05/30/12 10:03	7440-62-2	
Zinc	10.3 mg/kg		0.61	1	05/29/12 09:50	05/30/12 10:03	7440-66-6	

6010 MET ICP, TCLP

Analytical Method: EPA 6010 Preparation Method: EPA 3005

Arsenic	ND mg/L		0.050	1	05/25/12 15:10	05/29/12 20:05	7440-38-2	
Barium	ND mg/L		1.0	1	05/25/12 15:10	05/29/12 20:05	7440-39-3	
Cadmium	ND mg/L		0.050	1	05/25/12 15:10	05/29/12 20:05	7440-43-9	
Chromium	ND mg/L		0.050	1	05/25/12 15:10	05/29/12 20:05	7440-47-3	
Lead	ND mg/L		0.050	1	05/25/12 15:10	05/29/12 20:05	7439-92-1	

ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-1 **Lab ID: 3070020001** Collected: 05/21/12 14:20 Received: 05/22/12 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, TCLP Analytical Method: EPA 6010 Preparation Method: EPA 3005								
Selenium	ND mg/L		0.10	1	05/25/12 15:10	05/29/12 20:05	7782-49-2	
Silver	ND mg/L		0.050	1	05/25/12 15:10	05/29/12 20:05	7440-22-4	
7470 Mercury, TCLP Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND ug/L		1.0	1	05/25/12 17:00	05/29/12 12:33	7439-97-6	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.10	1	05/29/12 11:05	05/30/12 09:55	7439-97-6	
8270 MSSV FULL LIST MICROWAVE Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	83-32-9	
Acenaphthylene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	208-96-8	
Anthracene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	120-12-7	
Benzo(a)anthracene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	56-55-3	
Benzo(a)pyrene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	50-32-8	
Benzo(b)fluoranthene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	191-24-2	
Benzo(k)fluoranthene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	207-08-9	
Benzyl alcohol	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	100-51-6	
4-Bromophenylphenyl ether	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	101-55-3	
Butylbenzylphthalate	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	85-68-7	
4-Chloro-3-methylphenol	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	59-50-7	
4-Chloroaniline	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	106-47-8	
bis(2-Chloroethoxy)methane	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	111-91-1	
bis(2-Chloroethyl) ether	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	108-60-1	
2-Chloronaphthalene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	91-58-7	
2-Chlorophenol	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	95-57-8	
4-Chlorophenylphenyl ether	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	7005-72-3	
Chrysene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	53-70-3	
Dibenzofuran	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	132-64-9	
1,2-Dichlorobenzene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	106-46-7	
3,3'-Dichlorobenzidine	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	91-94-1	
2,4-Dichlorophenol	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	120-83-2	
Diethylphthalate	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	84-66-2	
2,4-Dimethylphenol	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	105-67-9	
Dimethylphthalate	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	131-11-3	
Di-n-butylphthalate	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	84-74-2	
4,6-Dinitro-2-methylphenol	ND ug/kg		852	1	05/29/12 13:45	05/30/12 12:25	534-52-1	
2,4-Dinitrophenol	ND ug/kg		852	1	05/29/12 13:45	05/30/12 12:25	51-28-5	
2,4-Dinitrotoluene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	121-14-2	
2,6-Dinitrotoluene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	606-20-2	

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ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-1 **Lab ID:** 3070020001 **Collected:** 05/21/12 14:20 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV FULL LIST		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
MICROWAVE								
Di-n-octylphthalate	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	117-84-0	
bis(2-Ethylhexyl)phthalate	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	117-81-7	
Fluoranthene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	206-44-0	
Fluorene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	86-73-7	
Hexachloro-1,3-butadiene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	87-68-3	
Hexachlorobenzene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	118-74-1	
Hexachlorocyclopentadiene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	77-47-4	
Hexachloroethane	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	193-39-5	
Isophorone	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	78-59-1	
2-Methylnaphthalene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	91-57-6	
2-Methylphenol(o-Cresol)	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND ug/kg		681	1	05/29/12 13:45	05/30/12 12:25		
Naphthalene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	91-20-3	
2-Nitroaniline	ND ug/kg		852	1	05/29/12 13:45	05/30/12 12:25	88-74-4	
3-Nitroaniline	ND ug/kg		852	1	05/29/12 13:45	05/30/12 12:25	99-09-2	
4-Nitroaniline	ND ug/kg		852	1	05/29/12 13:45	05/30/12 12:25	100-01-6	
Nitrobenzene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	98-95-3	
2-Nitrophenol	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	88-75-5	
4-Nitrophenol	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	100-02-7	
N-Nitroso-di-n-propylamine	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	621-64-7	
N-Nitrosodiphenylamine	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	86-30-6	
Pentachlorophenol	ND ug/kg		852	1	05/29/12 13:45	05/30/12 12:25	87-86-5	
Phenanthrene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	85-01-8	
Phenol	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	108-95-2	
Pyrene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	129-00-0	
1,2,4-Trichlorobenzene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	120-82-1	
2,4,5-Trichlorophenol	ND ug/kg		852	1	05/29/12 13:45	05/30/12 12:25	95-95-4	
2,4,6-Trichlorophenol	ND ug/kg		341	1	05/29/12 13:45	05/30/12 12:25	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	88 %		49-118	1	05/29/12 13:45	05/30/12 12:25	4165-60-0	
2-Fluorobiphenyl (S)	90 %		48-125	1	05/29/12 13:45	05/30/12 12:25	321-60-8	
Terphenyl-d14 (S)	101 %		29-159	1	05/29/12 13:45	05/30/12 12:25	1718-51-0	
Phenol-d6 (S)	25 %		30-130	1	05/29/12 13:45	05/30/12 12:25	13127-88-3	C0,S0
2-Fluorophenol (S)	0 %		25-138	1	05/29/12 13:45	05/30/12 12:25	367-12-4	C0,S0
2,4,6-Tribromophenol (S)	0 %		10-144	1	05/29/12 13:45	05/30/12 12:25	118-79-6	C0,S0

8270 MSSV TCLP

Analytical Method: EPA 8270 Preparation Method: EPA 3535

1,4-Dichlorobenzene	ND ug/L		500	1	05/29/12 10:00	05/29/12 21:39	106-46-7	
2,4-Dinitrotoluene	ND ug/L		100	1	05/29/12 10:00	05/29/12 21:39	121-14-2	
Hexachloro-1,3-butadiene	ND ug/L		100	1	05/29/12 10:00	05/29/12 21:39	87-68-3	
Hexachlorobenzene	ND ug/L		100	1	05/29/12 10:00	05/29/12 21:39	118-74-1	
Hexachloroethane	ND ug/L		500	1	05/29/12 10:00	05/29/12 21:39	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	1	05/29/12 10:00	05/29/12 21:39	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND ug/L		2000	1	05/29/12 10:00	05/29/12 21:39		

Date: 05/30/2012 05:07 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-1 **Lab ID:** 3070020001 **Collected:** 05/21/12 14:20 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV TCLP Analytical Method: EPA 8270 Preparation Method: EPA 3535								
Nitrobenzene	ND ug/L		100	1	05/29/12 10:00	05/29/12 21:39	98-95-3	
Pentachlorophenol	ND ug/L		5000	1	05/29/12 10:00	05/29/12 21:39	87-86-5	
Pyridine	ND ug/L		500	1	05/29/12 10:00	05/29/12 21:39	110-86-1	
2,4,5-Trichlorophenol	ND ug/L		5000	1	05/29/12 10:00	05/29/12 21:39	95-95-4	
2,4,6-Trichlorophenol	ND ug/L		100	1	05/29/12 10:00	05/29/12 21:39	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	78 %		35-114	1	05/29/12 10:00	05/29/12 21:39	4165-60-0	
2-Fluorobiphenyl (S)	74 %		43-116	1	05/29/12 10:00	05/29/12 21:39	321-60-8	
Terphenyl-d14 (S)	69 %		33-141	1	05/29/12 10:00	05/29/12 21:39	1718-51-0	
Phenol-d6 (S)	80 %		10-110	1	05/29/12 10:00	05/29/12 21:39	13127-88-3	
2-Fluorophenol (S)	85 %		21-110	1	05/29/12 10:00	05/29/12 21:39	367-12-4	
2,4,6-Tribromophenol (S)	78 %		10-123	1	05/29/12 10:00	05/29/12 21:39	118-79-6	
8260 MSV 5030 Low Level Analytical Method: EPA 8260								
Acetone	284 ug/kg		8.9	1		05/29/12 20:51	67-64-1	
Benzene	ND ug/kg		4.5	1		05/29/12 20:51	71-43-2	
Bromodichloromethane	ND ug/kg		4.5	1		05/29/12 20:51	75-27-4	
Bromoform	ND ug/kg		4.5	1		05/29/12 20:51	75-25-2	
Bromomethane	ND ug/kg		4.5	1		05/29/12 20:51	74-83-9	
TOTAL BTEX	ND ug/kg		26.8	1		05/29/12 20:51		
2-Butanone (MEK)	ND ug/kg		8.9	1		05/29/12 20:51	78-93-3	
Carbon disulfide	ND ug/kg		4.5	1		05/29/12 20:51	75-15-0	
Carbon tetrachloride	ND ug/kg		4.5	1		05/29/12 20:51	56-23-5	
Chlorobenzene	ND ug/kg		4.5	1		05/29/12 20:51	108-90-7	
Chloroethane	ND ug/kg		4.5	1		05/29/12 20:51	75-00-3	
Chloroform	ND ug/kg		4.5	1		05/29/12 20:51	67-66-3	
Chloromethane	ND ug/kg		4.5	1		05/29/12 20:51	74-87-3	
Dibromochloromethane	ND ug/kg		4.5	1		05/29/12 20:51	124-48-1	
1,2-Dichlorobenzene	ND ug/kg		4.5	1		05/29/12 20:51	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		4.5	1		05/29/12 20:51	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		4.5	1		05/29/12 20:51	106-46-7	
1,1-Dichloroethane	ND ug/kg		4.5	1		05/29/12 20:51	75-34-3	
1,2-Dichloroethane	ND ug/kg		4.5	1		05/29/12 20:51	107-06-2	
1,2-Dichloroethene (Total)	ND ug/kg		8.9	1		05/29/12 20:51	540-59-0	
1,1-Dichloroethene	ND ug/kg		4.5	1		05/29/12 20:51	75-35-4	
cis-1,2-Dichloroethene	ND ug/kg		4.5	1		05/29/12 20:51	156-59-2	
trans-1,2-Dichloroethene	ND ug/kg		4.5	1		05/29/12 20:51	156-60-5	
1,2-Dichloropropane	ND ug/kg		4.5	1		05/29/12 20:51	78-87-5	
cis-1,3-Dichloropropene	ND ug/kg		4.5	1		05/29/12 20:51	10061-01-5	
trans-1,3-Dichloropropene	ND ug/kg		4.5	1		05/29/12 20:51	10061-02-6	
Ethylbenzene	ND ug/kg		4.5	1		05/29/12 20:51	100-41-4	
2-Hexanone	ND ug/kg		8.9	1		05/29/12 20:51	591-78-6	
Methylene Chloride	ND ug/kg		4.5	1		05/29/12 20:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/kg		8.9	1		05/29/12 20:51	108-10-1	
Methyl-tert-butyl ether	ND ug/kg		4.5	1		05/29/12 20:51	1634-04-4	
Styrene	ND ug/kg		4.5	1		05/29/12 20:51	100-42-5	

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ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-1 **Lab ID:** 3070020001 **Collected:** 05/21/12 14:20 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.5	1		05/29/12 20:51	79-34-5	
Tetrachloroethene	18.0	ug/kg	4.5	1		05/29/12 20:51	127-18-4	
Toluene	ND	ug/kg	4.5	1		05/29/12 20:51	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.5	1		05/29/12 20:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.5	1		05/29/12 20:51	79-00-5	
Trichloroethene	ND	ug/kg	4.5	1		05/29/12 20:51	79-01-6	
Vinyl chloride	ND	ug/kg	4.5	1		05/29/12 20:51	75-01-4	
Xylene (Total)	ND	ug/kg	13.4	1		05/29/12 20:51	1330-20-7	
m&p-Xylene	ND	ug/kg	8.9	1		05/29/12 20:51	179601-23-1	
o-Xylene	ND	ug/kg	4.5	1		05/29/12 20:51	95-47-6	
Surrogates								
Toluene-d8 (S)	89 %		70-130	1		05/29/12 20:51	2037-26-5	
4-Bromofluorobenzene (S)	101 %		70-130	1		05/29/12 20:51	460-00-4	
1,2-Dichloroethane-d4 (S)	96 %		70-130	1		05/29/12 20:51	17060-07-0	
8260 MSV TCLP		Analytical Method: EPA 8260						
Benzene	ND	ug/L	50.0	1		05/24/12 14:39	71-43-2	
2-Butanone (MEK)	ND	ug/L	5000	1		05/24/12 14:39	78-93-3	
Carbon tetrachloride	ND	ug/L	50.0	1		05/24/12 14:39	56-23-5	
Chlorobenzene	ND	ug/L	1000	1		05/24/12 14:39	108-90-7	
Chloroform	ND	ug/L	500	1		05/24/12 14:39	67-66-3	
1,2-Dichloroethane	ND	ug/L	50.0	1		05/24/12 14:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	1		05/24/12 14:39	75-35-4	
Tetrachloroethene	ND	ug/L	50.0	1		05/24/12 14:39	127-18-4	
Trichloroethene	ND	ug/L	50.0	1		05/24/12 14:39	79-01-6	
Vinyl chloride	ND	ug/L	50.0	1		05/24/12 14:39	75-01-4	
Surrogates								
1,2-Dichloroethane-d4 (S)	101 %		70-130	1		05/24/12 14:39	17060-07-0	
Toluene-d8 (S)	101 %		70-130	1		05/24/12 14:39	2037-26-5	
4-Bromofluorobenzene (S)	100 %		70-130	1		05/24/12 14:39	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	4.5	%	0.10	1		05/23/12 17:18		
1010 Flashpoint,Closed Cup		Analytical Method: EPA 1010						
Flashpoint	>200	deg F	60.0	1		05/23/12 20:50		
9045 pH Soil		Analytical Method: EPA 9045						
pH at 25 Degrees C	12.4	Std. Units	1.0	1		05/29/12 22:23		H1
733C S Reactive Cyanide		Analytical Method: SW-846 7.3.3.2						
Cyanide, Reactive	ND	mg/kg	1.0	1		05/24/12 20:53		
735S Reactive Sulfide		Analytical Method: SW-846 7.3.4.2						
Sulfide, Reactive	ND	mg/kg	10.4	1		05/23/12 17:55		

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ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-2 **Lab ID:** 3070020002 **Collected:** 05/21/12 14:50 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel								
Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Diesel Components	2380	mg/kg	347	50	05/29/12 09:00	05/30/12 10:52		2c
Surrogates								
o-Terphenyl (S)	0	%	50-150	50	05/29/12 09:00	05/30/12 10:52	84-15-1	6c
8081 GCS Pesticides								
Analytical Method: EPA 8081 Preparation Method: EPA 3546								
Aldrin	ND	ug/kg	1.8	1	05/25/12 13:00	05/29/12 19:24	309-00-2	
alpha-BHC	ND	ug/kg	1.8	1	05/25/12 13:00	05/29/12 19:24	319-84-6	
beta-BHC	ND	ug/kg	1.8	1	05/25/12 13:00	05/29/12 19:24	319-85-7	
delta-BHC	ND	ug/kg	1.8	1	05/25/12 13:00	05/29/12 19:24	319-86-8	5c
gamma-BHC (Lindane)	ND	ug/kg	1.8	1	05/25/12 13:00	05/29/12 19:24	58-89-9	
alpha-Chlordane	ND	ug/kg	1.8	1	05/25/12 13:00	05/29/12 19:24	5103-71-9	
gamma-Chlordane	ND	ug/kg	1.8	1	05/25/12 13:00	05/29/12 19:24	5103-74-2	
4,4'-DDD	ND	ug/kg	3.5	1	05/25/12 13:00	05/29/12 19:24	72-54-8	
4,4'-DDE	ND	ug/kg	3.5	1	05/25/12 13:00	05/29/12 19:24	72-55-9	
4,4'-DDT	ND	ug/kg	3.5	1	05/25/12 13:00	05/29/12 19:24	50-29-3	
Dieldrin	ND	ug/kg	3.5	1	05/25/12 13:00	05/29/12 19:24	60-57-1	
Endosulfan I	ND	ug/kg	1.8	1	05/25/12 13:00	05/29/12 19:24	959-98-8	
Endosulfan II	ND	ug/kg	3.5	1	05/25/12 13:00	05/29/12 19:24	33213-65-9	
Endosulfan sulfate	ND	ug/kg	3.5	1	05/25/12 13:00	05/29/12 19:24	1031-07-8	
Endrin	ND	ug/kg	3.5	1	05/25/12 13:00	05/29/12 19:24	72-20-8	
Endrin aldehyde	ND	ug/kg	3.5	1	05/25/12 13:00	05/29/12 19:24	7421-93-4	
Endrin ketone	ND	ug/kg	3.5	1	05/25/12 13:00	05/29/12 19:24	53494-70-5	
Heptachlor	ND	ug/kg	1.8	1	05/25/12 13:00	05/29/12 19:24	76-44-8	
Heptachlor epoxide	ND	ug/kg	1.8	1	05/25/12 13:00	05/29/12 19:24	1024-57-3	
Methoxychlor	ND	ug/kg	17.5	1	05/25/12 13:00	05/29/12 19:24	72-43-5	
Toxaphene	ND	ug/kg	17.5	1	05/25/12 13:00	05/29/12 19:24	8001-35-2	
Surrogates								
Tetrachloro-m-xylene (S)	82	%	30-150	1	05/25/12 13:00	05/29/12 19:24	877-09-8	
Decachlorobiphenyl (S)	69	%	30-150	1	05/25/12 13:00	05/29/12 19:24	2051-24-3	
8081 GCS Pesticides, TCLP								
Analytical Method: EPA 8081 Preparation Method: EPA 3510								
gamma-BHC (Lindane)	ND	ug/L	10.0	1	05/25/12 16:00	05/29/12 23:57	58-89-9	
Chlordane (Technical)	ND	ug/L	10.0	1	05/25/12 16:00	05/29/12 23:57	57-74-9	
Endrin	ND	ug/L	1.0	1	05/25/12 16:00	05/29/12 23:57	72-20-8	
Heptachlor epoxide	ND	ug/L	0.50	1	05/25/12 16:00	05/29/12 23:57	1024-57-3	
Methoxychlor	ND	ug/L	100	1	05/25/12 16:00	05/29/12 23:57	72-43-5	
Toxaphene	ND	ug/L	50.0	1	05/25/12 16:00	05/29/12 23:57	8001-35-2	
Surrogates								
Decachlorobiphenyl (S)	85	%	30-150	1	05/25/12 16:00	05/29/12 23:57	2051-24-3	
Tetrachloro-m-xylene (S)	88	%	30-150	1	05/25/12 16:00	05/29/12 23:57	877-09-8	
8082 GCS PCB								
Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	17.5	1	05/25/12 13:00	05/29/12 23:31	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	17.5	1	05/25/12 13:00	05/29/12 23:31	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	17.5	1	05/25/12 13:00	05/29/12 23:31	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	17.5	1	05/25/12 13:00	05/29/12 23:31	53469-21-9	

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ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-2 **Lab ID:** 3070020002 **Collected:** 05/21/12 14:50 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1248 (Aroclor 1248)	ND	ug/kg	17.5	1	05/25/12 13:00	05/29/12 23:31	12672-29-6	
PCB-1254 (Aroclor 1254)	71.0	ug/kg	17.5	1	05/25/12 13:00	05/29/12 23:31	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	17.5	1	05/25/12 13:00	05/29/12 23:31	11096-82-5	
PCB, Total	71.0	ug/kg	17.5	1	05/25/12 13:00	05/29/12 23:31	1336-36-3	
Surrogates								
Tetrachloro-m-xylene (S)	74	%	30-150	1	05/25/12 13:00	05/29/12 23:31	877-09-8	
Decachlorobiphenyl (S)	59	%	30-150	1	05/25/12 13:00	05/29/12 23:31	2051-24-3	

Gasoline Range Organics

Analytical Method: EPA 8015B Modified Preparation Method: EPA 5035A/5030B

Gasoline Range Organics	ND	mg/kg	10.3	1	05/29/12 09:38	05/30/12 11:17		
TPH (C06-C10)	ND	mg/kg	10.3	1	05/29/12 09:38	05/30/12 11:17		
Surrogates								
4-Bromofluorobenzene (S)	105	%	70-130	1	05/29/12 09:38	05/30/12 11:17	460-00-4	

6010 MET ICP

Analytical Method: EPA 6010B Preparation Method: EPA 3050

Aluminum	6690	mg/kg	6.0	1	05/29/12 09:50	05/30/12 10:12	7429-90-5	
Antimony	ND	mg/kg	0.36	1	05/29/12 09:50	05/30/12 10:12	7440-36-0	
Arsenic	3.8	mg/kg	0.30	1	05/29/12 09:50	05/30/12 10:12	7440-38-2	
Barium	80.1	mg/kg	1.2	1	05/29/12 09:50	05/30/12 10:12	7440-39-3	
Beryllium	ND	mg/kg	0.12	1	05/29/12 09:50	05/30/12 10:12	7440-41-7	
Boron	11.2	mg/kg	3.0	1	05/29/12 09:50	05/30/12 10:12	7440-42-8	
Cadmium	ND	mg/kg	0.18	1	05/29/12 09:50	05/30/12 10:12	7440-43-9	
Calcium	243000	mg/kg	2420	20	05/29/12 09:50	05/30/12 11:58	7440-70-2	
Chromium	13.3	mg/kg	0.30	1	05/29/12 09:50	05/30/12 10:12	7440-47-3	
Cobalt	6.3	mg/kg	0.60	1	05/29/12 09:50	05/30/12 10:12	7440-48-4	
Copper	11.0	mg/kg	0.60	1	05/29/12 09:50	05/30/12 10:12	7440-50-8	
Iron	8650	mg/kg	6.0	1	05/29/12 09:50	05/30/12 10:12	7439-89-6	
Lead	6.7	mg/kg	0.30	1	05/29/12 09:50	05/30/12 10:12	7439-92-1	
Magnesium	13700	mg/kg	30.2	1	05/29/12 09:50	05/30/12 10:12	7439-95-4	
Manganese	571	mg/kg	0.60	1	05/29/12 09:50	05/30/12 10:12	7439-96-5	
Molybdenum	1.3	mg/kg	1.2	1	05/29/12 09:50	05/30/12 10:12	7439-98-7	
Nickel	11.1	mg/kg	1.2	1	05/29/12 09:50	05/30/12 10:12	7440-02-0	
Potassium	1080	mg/kg	30.2	1	05/29/12 09:50	05/30/12 10:12	7440-09-7	
Selenium	0.62	mg/kg	0.48	1	05/29/12 09:50	05/30/12 10:12	7782-49-2	
Silver	ND	mg/kg	0.36	1	05/29/12 09:50	05/30/12 10:12	7440-22-4	
Sodium	533	mg/kg	302	1	05/29/12 09:50	05/30/12 10:12	7440-23-5	
Thallium	ND	mg/kg	1.2	1	05/29/12 09:50	05/30/12 10:12	7440-28-0	
Vanadium	10.9	mg/kg	0.60	1	05/29/12 09:50	05/30/12 10:12	7440-62-2	
Zinc	22.9	mg/kg	0.60	1	05/29/12 09:50	05/30/12 10:12	7440-66-6	

6010 MET ICP, TCLP

Analytical Method: EPA 6010 Preparation Method: EPA 3005

Arsenic	ND	mg/L	0.050	1	05/25/12 15:10	05/29/12 20:09	7440-38-2	
Barium	ND	mg/L	1.0	1	05/25/12 15:10	05/29/12 20:09	7440-39-3	
Cadmium	ND	mg/L	0.050	1	05/25/12 15:10	05/29/12 20:09	7440-43-9	
Chromium	ND	mg/L	0.050	1	05/25/12 15:10	05/29/12 20:09	7440-47-3	
Lead	ND	mg/L	0.050	1	05/25/12 15:10	05/29/12 20:09	7439-92-1	

ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-2 **Lab ID:** 3070020002 **Collected:** 05/21/12 14:50 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, TCLP								
Analytical Method: EPA 6010 Preparation Method: EPA 3005								
Selenium	ND mg/L		0.10	1	05/25/12 15:10	05/29/12 20:09	7782-49-2	
Silver	ND mg/L		0.050	1	05/25/12 15:10	05/29/12 20:09	7440-22-4	
7470 Mercury, TCLP								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND ug/L		1.0	1	05/25/12 17:00	05/29/12 12:35	7439-97-6	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.11	1	05/29/12 11:05	05/30/12 09:59	7439-97-6	
8270 MSSV FULL LIST MICROWAVE								
Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	83-32-9	
Acenaphthylene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	208-96-8	
Anthracene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	120-12-7	
Benzo(a)anthracene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	56-55-3	
Benzo(a)pyrene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	50-32-8	
Benzo(b)fluoranthene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	191-24-2	
Benzo(k)fluoranthene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	207-08-9	
Benzyl alcohol	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	100-51-6	
4-Bromophenylphenyl ether	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	101-55-3	
Butylbenzylphthalate	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	85-68-7	
4-Chloro-3-methylphenol	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	59-50-7	
4-Chloroaniline	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	106-47-8	
bis(2-Chloroethoxy)methane	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	111-91-1	
bis(2-Chloroethyl) ether	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	108-60-1	
2-Chloronaphthalene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	91-58-7	
2-Chlorophenol	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	95-57-8	
4-Chlorophenylphenyl ether	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	7005-72-3	
Chrysene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	53-70-3	
Dibenzofuran	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	132-64-9	
1,2-Dichlorobenzene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	106-46-7	
3,3'-Dichlorobenzidine	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	91-94-1	
2,4-Dichlorophenol	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	120-83-2	
Diethylphthalate	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	84-66-2	
2,4-Dimethylphenol	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	105-67-9	
Dimethylphthalate	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	131-11-3	
Di-n-butylphthalate	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	84-74-2	
4,6-Dinitro-2-methylphenol	ND ug/kg		864	1	05/29/12 13:45	05/30/12 12:48	534-52-1	
2,4-Dinitrophenol	ND ug/kg		864	1	05/29/12 13:45	05/30/12 12:48	51-28-5	
2,4-Dinitrotoluene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	121-14-2	
2,6-Dinitrotoluene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	606-20-2	

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ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-2 **Lab ID:** 3070020002 **Collected:** 05/21/12 14:50 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV FULL LIST		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
MICROWAVE								
Di-n-octylphthalate	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	117-84-0	
bis(2-Ethylhexyl)phthalate	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	117-81-7	
Fluoranthene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	206-44-0	
Fluorene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	86-73-7	
Hexachloro-1,3-butadiene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	87-68-3	
Hexachlorobenzene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	118-74-1	
Hexachlorocyclopentadiene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	77-47-4	
Hexachloroethane	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	193-39-5	
Isophorone	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	78-59-1	
2-Methylnaphthalene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	91-57-6	
2-Methylphenol(o-Cresol)	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND ug/kg		690	1	05/29/12 13:45	05/30/12 12:48		
Naphthalene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	91-20-3	
2-Nitroaniline	ND ug/kg		864	1	05/29/12 13:45	05/30/12 12:48	88-74-4	
3-Nitroaniline	ND ug/kg		864	1	05/29/12 13:45	05/30/12 12:48	99-09-2	
4-Nitroaniline	ND ug/kg		864	1	05/29/12 13:45	05/30/12 12:48	100-01-6	
Nitrobenzene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	98-95-3	
2-Nitrophenol	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	88-75-5	
4-Nitrophenol	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	100-02-7	
N-Nitroso-di-n-propylamine	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	621-64-7	
N-Nitrosodiphenylamine	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	86-30-6	
Pentachlorophenol	ND ug/kg		864	1	05/29/12 13:45	05/30/12 12:48	87-86-5	
Phenanthrene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	85-01-8	
Phenol	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	108-95-2	
Pyrene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	129-00-0	
1,2,4-Trichlorobenzene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	120-82-1	
2,4,5-Trichlorophenol	ND ug/kg		864	1	05/29/12 13:45	05/30/12 12:48	95-95-4	
2,4,6-Trichlorophenol	ND ug/kg		345	1	05/29/12 13:45	05/30/12 12:48	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	90 %		49-118	1	05/29/12 13:45	05/30/12 12:48	4165-60-0	
2-Fluorobiphenyl (S)	92 %		48-125	1	05/29/12 13:45	05/30/12 12:48	321-60-8	
Terphenyl-d14 (S)	104 %		29-159	1	05/29/12 13:45	05/30/12 12:48	1718-51-0	
Phenol-d6 (S)	25 %		30-130	1	05/29/12 13:45	05/30/12 12:48	13127-88-3	C0,S0
2-Fluorophenol (S)	1 %		25-138	1	05/29/12 13:45	05/30/12 12:48	367-12-4	C0,S0
2,4,6-Tribromophenol (S)	0 %		10-144	1	05/29/12 13:45	05/30/12 12:48	118-79-6	C0,S0

8270 MSSV TCLP

Analytical Method: EPA 8270 Preparation Method: EPA 3535

1,4-Dichlorobenzene	ND ug/L		500	1	05/29/12 10:00	05/29/12 22:01	106-46-7	
2,4-Dinitrotoluene	ND ug/L		100	1	05/29/12 10:00	05/29/12 22:01	121-14-2	
Hexachloro-1,3-butadiene	ND ug/L		100	1	05/29/12 10:00	05/29/12 22:01	87-68-3	
Hexachlorobenzene	ND ug/L		100	1	05/29/12 10:00	05/29/12 22:01	118-74-1	
Hexachloroethane	ND ug/L		500	1	05/29/12 10:00	05/29/12 22:01	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	1	05/29/12 10:00	05/29/12 22:01	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND ug/L		2000	1	05/29/12 10:00	05/29/12 22:01		

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ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-2 **Lab ID:** 3070020002 **Collected:** 05/21/12 14:50 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV TCLP Analytical Method: EPA 8270 Preparation Method: EPA 3535								
Nitrobenzene	ND ug/L		100	1	05/29/12 10:00	05/29/12 22:01	98-95-3	
Pentachlorophenol	ND ug/L		5000	1	05/29/12 10:00	05/29/12 22:01	87-86-5	
Pyridine	ND ug/L		500	1	05/29/12 10:00	05/29/12 22:01	110-86-1	
2,4,5-Trichlorophenol	ND ug/L		5000	1	05/29/12 10:00	05/29/12 22:01	95-95-4	
2,4,6-Trichlorophenol	ND ug/L		100	1	05/29/12 10:00	05/29/12 22:01	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	85 %		35-114	1	05/29/12 10:00	05/29/12 22:01	4165-60-0	
2-Fluorobiphenyl (S)	83 %		43-116	1	05/29/12 10:00	05/29/12 22:01	321-60-8	
Terphenyl-d14 (S)	87 %		33-141	1	05/29/12 10:00	05/29/12 22:01	1718-51-0	
Phenol-d6 (S)	86 %		10-110	1	05/29/12 10:00	05/29/12 22:01	13127-88-3	
2-Fluorophenol (S)	88 %		21-110	1	05/29/12 10:00	05/29/12 22:01	367-12-4	
2,4,6-Tribromophenol (S)	85 %		10-123	1	05/29/12 10:00	05/29/12 22:01	118-79-6	
8260 MSV 5030 Low Level Analytical Method: EPA 8260								
Acetone	3450 ug/kg		516	50		05/30/12 14:43	67-64-1	
Benzene	ND ug/kg		4.1	1		05/29/12 21:15	71-43-2	
Bromodichloromethane	ND ug/kg		4.1	1		05/29/12 21:15	75-27-4	
Bromoform	ND ug/kg		4.1	1		05/29/12 21:15	75-25-2	
Bromomethane	ND ug/kg		4.1	1		05/29/12 21:15	74-83-9	
TOTAL BTEX	ND ug/kg		24.8	1		05/29/12 21:15		
2-Butanone (MEK)	ND ug/kg		8.3	1		05/29/12 21:15	78-93-3	
Carbon disulfide	ND ug/kg		4.1	1		05/29/12 21:15	75-15-0	
Carbon tetrachloride	ND ug/kg		4.1	1		05/29/12 21:15	56-23-5	
Chlorobenzene	ND ug/kg		4.1	1		05/29/12 21:15	108-90-7	
Chloroethane	ND ug/kg		4.1	1		05/29/12 21:15	75-00-3	
Chloroform	ND ug/kg		4.1	1		05/29/12 21:15	67-66-3	
Chloromethane	ND ug/kg		4.1	1		05/29/12 21:15	74-87-3	
Dibromochloromethane	ND ug/kg		4.1	1		05/29/12 21:15	124-48-1	
1,2-Dichlorobenzene	ND ug/kg		4.1	1		05/29/12 21:15	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		4.1	1		05/29/12 21:15	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		4.1	1		05/29/12 21:15	106-46-7	
1,1-Dichloroethane	ND ug/kg		4.1	1		05/29/12 21:15	75-34-3	
1,2-Dichloroethane	ND ug/kg		4.1	1		05/29/12 21:15	107-06-2	
1,2-Dichloroethene (Total)	ND ug/kg		8.3	1		05/29/12 21:15	540-59-0	
1,1-Dichloroethene	ND ug/kg		4.1	1		05/29/12 21:15	75-35-4	
cis-1,2-Dichloroethene	ND ug/kg		4.1	1		05/29/12 21:15	156-59-2	
trans-1,2-Dichloroethene	ND ug/kg		4.1	1		05/29/12 21:15	156-60-5	
1,2-Dichloropropane	ND ug/kg		4.1	1		05/29/12 21:15	78-87-5	
cis-1,3-Dichloropropene	ND ug/kg		4.1	1		05/29/12 21:15	10061-01-5	
trans-1,3-Dichloropropene	ND ug/kg		4.1	1		05/29/12 21:15	10061-02-6	
Ethylbenzene	ND ug/kg		4.1	1		05/29/12 21:15	100-41-4	
2-Hexanone	ND ug/kg		8.3	1		05/29/12 21:15	591-78-6	
Methylene Chloride	ND ug/kg		4.1	1		05/29/12 21:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/kg		8.3	1		05/29/12 21:15	108-10-1	
Methyl-tert-butyl ether	ND ug/kg		4.1	1		05/29/12 21:15	1634-04-4	
Styrene	ND ug/kg		4.1	1		05/29/12 21:15	100-42-5	

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ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-2 **Lab ID:** 3070020002 **Collected:** 05/21/12 14:50 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.1	1		05/29/12 21:15	79-34-5	
Tetrachloroethene	ND	ug/kg	4.1	1		05/29/12 21:15	127-18-4	
Toluene	16.9	ug/kg	4.1	1		05/29/12 21:15	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.1	1		05/29/12 21:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.1	1		05/29/12 21:15	79-00-5	
Trichloroethene	ND	ug/kg	4.1	1		05/29/12 21:15	79-01-6	
Vinyl chloride	ND	ug/kg	4.1	1		05/29/12 21:15	75-01-4	
Xylene (Total)	ND	ug/kg	12.4	1		05/29/12 21:15	1330-20-7	
m&p-Xylene	ND	ug/kg	8.3	1		05/29/12 21:15	179601-23-1	
o-Xylene	ND	ug/kg	4.1	1		05/29/12 21:15	95-47-6	
Surrogates								
Toluene-d8 (S)	97 %		70-130	1		05/29/12 21:15	2037-26-5	
4-Bromofluorobenzene (S)	109 %		70-130	1		05/29/12 21:15	460-00-4	
1,2-Dichloroethane-d4 (S)	97 %		70-130	1		05/29/12 21:15	17060-07-0	
8260 MSV TCLP		Analytical Method: EPA 8260						
Benzene	ND	ug/L	50.0	1		05/24/12 15:04	71-43-2	
2-Butanone (MEK)	ND	ug/L	5000	1		05/24/12 15:04	78-93-3	
Carbon tetrachloride	ND	ug/L	50.0	1		05/24/12 15:04	56-23-5	
Chlorobenzene	ND	ug/L	1000	1		05/24/12 15:04	108-90-7	
Chloroform	ND	ug/L	500	1		05/24/12 15:04	67-66-3	
1,2-Dichloroethane	ND	ug/L	50.0	1		05/24/12 15:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	1		05/24/12 15:04	75-35-4	
Tetrachloroethene	ND	ug/L	50.0	1		05/24/12 15:04	127-18-4	
Trichloroethene	ND	ug/L	50.0	1		05/24/12 15:04	79-01-6	
Vinyl chloride	ND	ug/L	50.0	1		05/24/12 15:04	75-01-4	
Surrogates								
1,2-Dichloroethane-d4 (S)	100 %		70-130	1		05/24/12 15:04	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		05/24/12 15:04	2037-26-5	
4-Bromofluorobenzene (S)	96 %		70-130	1		05/24/12 15:04	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	4.9 %		0.10	1		05/23/12 17:18		
1010 Flashpoint,Closed Cup		Analytical Method: EPA 1010						
Flashpoint	>200	deg F	60.0	1		05/23/12 20:50		
9045 pH Soil		Analytical Method: EPA 9045						
pH at 25 Degrees C	12.5	Std. Units	1.0	1		05/29/12 22:23		H1
733C S Reactive Cyanide		Analytical Method: SW-846 7.3.3.2						
Cyanide, Reactive	ND	mg/kg	1.0	1		05/24/12 20:56		
735S Reactive Sulfide		Analytical Method: SW-846 7.3.4.2						
Sulfide, Reactive	ND	mg/kg	10.5	1		05/23/12 17:55		

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ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-3 **Lab ID:** 3070020003 **Collected:** 05/21/12 17:15 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel								
Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Diesel Components	3340	mg/kg	349	50	05/29/12 09:00	05/30/12 11:19		2c
Surrogates								
o-Terphenyl (S)	0	%	50-150	50	05/29/12 09:00	05/30/12 11:19	84-15-1	6c
8081 GCS Pesticides								
Analytical Method: EPA 8081 Preparation Method: EPA 3546								
Aldrin	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 19:51	309-00-2	
alpha-BHC	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 19:51	319-84-6	
beta-BHC	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 19:51	319-85-7	
delta-BHC	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 19:51	319-86-8	5c
gamma-BHC (Lindane)	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 19:51	58-89-9	
alpha-Chlordane	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 19:51	5103-71-9	
gamma-Chlordane	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 19:51	5103-74-2	
4,4'-DDD	ND	ug/kg	3.5	1	05/25/12 13:00	05/29/12 19:51	72-54-8	
4,4'-DDE	ND	ug/kg	3.5	1	05/25/12 13:00	05/29/12 19:51	72-55-9	
4,4'-DDT	ND	ug/kg	3.5	1	05/25/12 13:00	05/29/12 19:51	50-29-3	
Dieldrin	ND	ug/kg	3.5	1	05/25/12 13:00	05/29/12 19:51	60-57-1	
Endosulfan I	3.8	ug/kg	1.7	1	05/25/12 13:00	05/29/12 19:51	959-98-8	
Endosulfan II	ND	ug/kg	3.5	1	05/25/12 13:00	05/29/12 19:51	33213-65-9	
Endosulfan sulfate	ND	ug/kg	3.5	1	05/25/12 13:00	05/29/12 19:51	1031-07-8	
Endrin	ND	ug/kg	3.5	1	05/25/12 13:00	05/29/12 19:51	72-20-8	
Endrin aldehyde	10.3	ug/kg	3.5	1	05/25/12 13:00	05/29/12 19:51	7421-93-4	
Endrin ketone	ND	ug/kg	3.5	1	05/25/12 13:00	05/29/12 19:51	53494-70-5	
Heptachlor	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 19:51	76-44-8	
Heptachlor epoxide	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 19:51	1024-57-3	
Methoxychlor	ND	ug/kg	17.4	1	05/25/12 13:00	05/29/12 19:51	72-43-5	
Toxaphene	ND	ug/kg	17.4	1	05/25/12 13:00	05/29/12 19:51	8001-35-2	
Surrogates								
Tetrachloro-m-xylene (S)	73	%	30-150	1	05/25/12 13:00	05/29/12 19:51	877-09-8	
Decachlorobiphenyl (S)	63	%	30-150	1	05/25/12 13:00	05/29/12 19:51	2051-24-3	
8081 GCS Pesticides, TCLP								
Analytical Method: EPA 8081 Preparation Method: EPA 3510								
gamma-BHC (Lindane)	ND	ug/L	10.0	1	05/25/12 16:00	05/30/12 00:25	58-89-9	
Chlordane (Technical)	ND	ug/L	10.0	1	05/25/12 16:00	05/30/12 00:25	57-74-9	
Endrin	ND	ug/L	1.0	1	05/25/12 16:00	05/30/12 00:25	72-20-8	
Heptachlor epoxide	ND	ug/L	0.50	1	05/25/12 16:00	05/30/12 00:25	1024-57-3	
Methoxychlor	ND	ug/L	100	1	05/25/12 16:00	05/30/12 00:25	72-43-5	
Toxaphene	ND	ug/L	50.0	1	05/25/12 16:00	05/30/12 00:25	8001-35-2	
Surrogates								
Decachlorobiphenyl (S)	85	%	30-150	1	05/25/12 16:00	05/30/12 00:25	2051-24-3	
Tetrachloro-m-xylene (S)	86	%	30-150	1	05/25/12 16:00	05/30/12 00:25	877-09-8	
8082 GCS PCB								
Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	17.4	1	05/25/12 13:00	05/29/12 23:55	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	17.4	1	05/25/12 13:00	05/29/12 23:55	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	17.4	1	05/25/12 13:00	05/29/12 23:55	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	17.4	1	05/25/12 13:00	05/29/12 23:55	53469-21-9	

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ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-3 **Lab ID:** 3070020003 **Collected:** 05/21/12 17:15 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1248 (Aroclor 1248)	ND	ug/kg	17.4	1	05/25/12 13:00	05/29/12 23:55	12672-29-6	
PCB-1254 (Aroclor 1254)	40.3	ug/kg	17.4	1	05/25/12 13:00	05/29/12 23:55	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	17.4	1	05/25/12 13:00	05/29/12 23:55	11096-82-5	
PCB, Total	40.3	ug/kg	17.4	1	05/25/12 13:00	05/29/12 23:55	1336-36-3	
Surrogates								
Tetrachloro-m-xylene (S)	66	%	30-150	1	05/25/12 13:00	05/29/12 23:55	877-09-8	
Decachlorobiphenyl (S)	59	%	30-150	1	05/25/12 13:00	05/29/12 23:55	2051-24-3	

Gasoline Range Organics

Analytical Method: EPA 8015B Modified Preparation Method: EPA 5035A/5030B

Gasoline Range Organics	ND	mg/kg	10.6	1	05/29/12 09:38	05/30/12 11:34		
TPH (C06-C10)	ND	mg/kg	10.6	1	05/29/12 09:38	05/30/12 11:34		
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1	05/29/12 09:38	05/30/12 11:34	460-00-4	

6010 MET ICP

Analytical Method: EPA 6010B Preparation Method: EPA 3050

Aluminum	9540	mg/kg	6.0	1	05/29/12 09:50	05/30/12 10:16	7429-90-5	
Antimony	ND	mg/kg	0.36	1	05/29/12 09:50	05/30/12 10:16	7440-36-0	
Arsenic	5.7	mg/kg	0.30	1	05/29/12 09:50	05/30/12 10:16	7440-38-2	
Barium	122	mg/kg	1.2	1	05/29/12 09:50	05/30/12 10:16	7440-39-3	
Beryllium	0.36	mg/kg	0.12	1	05/29/12 09:50	05/30/12 10:16	7440-41-7	
Boron	10.8	mg/kg	3.0	1	05/29/12 09:50	05/30/12 10:16	7440-42-8	
Cadmium	0.30	mg/kg	0.18	1	05/29/12 09:50	05/30/12 10:16	7440-43-9	
Calcium	124000	mg/kg	2420	20	05/29/12 09:50	05/30/12 12:02	7440-70-2	
Chromium	10.3	mg/kg	0.30	1	05/29/12 09:50	05/30/12 10:16	7440-47-3	
Cobalt	19.8	mg/kg	0.60	1	05/29/12 09:50	05/30/12 10:16	7440-48-4	
Copper	22.0	mg/kg	0.60	1	05/29/12 09:50	05/30/12 10:16	7440-50-8	
Iron	11900	mg/kg	6.0	1	05/29/12 09:50	05/30/12 10:16	7439-89-6	
Lead	8.4	mg/kg	0.30	1	05/29/12 09:50	05/30/12 10:16	7439-92-1	
Magnesium	8270	mg/kg	30.2	1	05/29/12 09:50	05/30/12 10:16	7439-95-4	
Manganese	391	mg/kg	0.60	1	05/29/12 09:50	05/30/12 10:16	7439-96-5	
Molybdenum	ND	mg/kg	1.2	1	05/29/12 09:50	05/30/12 10:16	7439-98-7	
Nickel	13.2	mg/kg	1.2	1	05/29/12 09:50	05/30/12 10:16	7440-02-0	
Potassium	1260	mg/kg	30.2	1	05/29/12 09:50	05/30/12 10:16	7440-09-7	
Selenium	0.84	mg/kg	0.48	1	05/29/12 09:50	05/30/12 10:16	7782-49-2	
Silver	0.52	mg/kg	0.36	1	05/29/12 09:50	05/30/12 10:16	7440-22-4	
Sodium	410	mg/kg	302	1	05/29/12 09:50	05/30/12 10:16	7440-23-5	
Thallium	ND	mg/kg	1.2	1	05/29/12 09:50	05/30/12 10:16	7440-28-0	
Vanadium	15.6	mg/kg	0.60	1	05/29/12 09:50	05/30/12 10:16	7440-62-2	
Zinc	79.8	mg/kg	0.60	1	05/29/12 09:50	05/30/12 10:16	7440-66-6	

6010 MET ICP, TCLP

Analytical Method: EPA 6010 Preparation Method: EPA 3005

Arsenic	ND	mg/L	0.050	1	05/25/12 15:10	05/29/12 20:13	7440-38-2	
Barium	ND	mg/L	1.0	1	05/25/12 15:10	05/29/12 20:13	7440-39-3	
Cadmium	ND	mg/L	0.050	1	05/25/12 15:10	05/29/12 20:13	7440-43-9	
Chromium	ND	mg/L	0.050	1	05/25/12 15:10	05/29/12 20:13	7440-47-3	
Lead	ND	mg/L	0.050	1	05/25/12 15:10	05/29/12 20:13	7439-92-1	

ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-3 **Lab ID:** 3070020003 **Collected:** 05/21/12 17:15 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, TCLP								
Analytical Method: EPA 6010 Preparation Method: EPA 3005								
Selenium	ND mg/L		0.10	1	05/25/12 15:10	05/29/12 20:13	7782-49-2	
Silver	ND mg/L		0.050	1	05/25/12 15:10	05/29/12 20:13	7440-22-4	
7470 Mercury, TCLP								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND ug/L		1.0	1	05/25/12 17:00	05/29/12 12:37	7439-97-6	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.10	1	05/29/12 11:05	05/30/12 10:01	7439-97-6	
8270 MSSV FULL LIST MICROWAVE								
Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	83-32-9	
Acenaphthylene	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	208-96-8	
Anthracene	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	120-12-7	
Benzo(a)anthracene	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	56-55-3	
Benzo(a)pyrene	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	50-32-8	
Benzo(b)fluoranthene	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	191-24-2	
Benzo(k)fluoranthene	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	207-08-9	
Benzyl alcohol	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	100-51-6	
4-Bromophenylphenyl ether	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	101-55-3	
Butylbenzylphthalate	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	85-68-7	
4-Chloro-3-methylphenol	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	59-50-7	
4-Chloroaniline	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	106-47-8	
bis(2-Chloroethoxy)methane	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	111-91-1	
bis(2-Chloroethyl) ether	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	108-60-1	
2-Chloronaphthalene	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	91-58-7	
2-Chlorophenol	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	95-57-8	
4-Chlorophenylphenyl ether	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	7005-72-3	
Chrysene	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	53-70-3	
Dibenzofuran	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	132-64-9	
1,2-Dichlorobenzene	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	106-46-7	
3,3'-Dichlorobenzidine	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	91-94-1	
2,4-Dichlorophenol	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	120-83-2	
Diethylphthalate	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	84-66-2	
2,4-Dimethylphenol	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	105-67-9	
Dimethylphthalate	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	131-11-3	
Di-n-butylphthalate	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	84-74-2	
4,6-Dinitro-2-methylphenol	ND ug/kg		878	1	05/29/12 13:45	05/30/12 13:11	534-52-1	
2,4-Dinitrophenol	ND ug/kg		878	1	05/29/12 13:45	05/30/12 13:11	51-28-5	
2,4-Dinitrotoluene	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	121-14-2	
2,6-Dinitrotoluene	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	606-20-2	

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ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-3 **Lab ID:** 3070020003 **Collected:** 05/21/12 17:15 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV FULL LIST		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
MICROWAVE								
Di-n-octylphthalate	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	117-84-0	
bis(2-Ethylhexyl)phthalate	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	117-81-7	
Fluoranthene	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	206-44-0	
Fluorene	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	86-73-7	
Hexachloro-1,3-butadiene	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	87-68-3	
Hexachlorobenzene	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	118-74-1	
Hexachlorocyclopentadiene	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	77-47-4	
Hexachloroethane	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	193-39-5	
Isophorone	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	78-59-1	
2-Methylnaphthalene	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	91-57-6	
2-Methylphenol(o-Cresol)	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND ug/kg		702	1	05/29/12 13:45	05/30/12 13:11		
Naphthalene	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	91-20-3	
2-Nitroaniline	ND ug/kg		878	1	05/29/12 13:45	05/30/12 13:11	88-74-4	
3-Nitroaniline	ND ug/kg		878	1	05/29/12 13:45	05/30/12 13:11	99-09-2	
4-Nitroaniline	ND ug/kg		878	1	05/29/12 13:45	05/30/12 13:11	100-01-6	
Nitrobenzene	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	98-95-3	
2-Nitrophenol	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	88-75-5	
4-Nitrophenol	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	100-02-7	
N-Nitroso-di-n-propylamine	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	621-64-7	
N-Nitrosodiphenylamine	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	86-30-6	
Pentachlorophenol	ND ug/kg		878	1	05/29/12 13:45	05/30/12 13:11	87-86-5	
Phenanthrene	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	85-01-8	
Phenol	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	108-95-2	
Pyrene	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	129-00-0	
1,2,4-Trichlorobenzene	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	120-82-1	
2,4,5-Trichlorophenol	ND ug/kg		878	1	05/29/12 13:45	05/30/12 13:11	95-95-4	
2,4,6-Trichlorophenol	ND ug/kg		351	1	05/29/12 13:45	05/30/12 13:11	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	73 %		49-118	1	05/29/12 13:45	05/30/12 13:11	4165-60-0	
2-Fluorobiphenyl (S)	85 %		48-125	1	05/29/12 13:45	05/30/12 13:11	321-60-8	
Terphenyl-d14 (S)	67 %		29-159	1	05/29/12 13:45	05/30/12 13:11	1718-51-0	
Phenol-d6 (S)	37 %		30-130	1	05/29/12 13:45	05/30/12 13:11	13127-88-3	
2-Fluorophenol (S)	4 %		25-138	1	05/29/12 13:45	05/30/12 13:11	367-12-4	C0,S0
2,4,6-Tribromophenol (S)	0 %		10-144	1	05/29/12 13:45	05/30/12 13:11	118-79-6	C0,S0

8270 MSSV TCLP

Analytical Method: EPA 8270 Preparation Method: EPA 3535

1,4-Dichlorobenzene	ND ug/L		500	1	05/29/12 10:00	05/29/12 22:23	106-46-7	
2,4-Dinitrotoluene	ND ug/L		100	1	05/29/12 10:00	05/29/12 22:23	121-14-2	
Hexachloro-1,3-butadiene	ND ug/L		100	1	05/29/12 10:00	05/29/12 22:23	87-68-3	
Hexachlorobenzene	ND ug/L		100	1	05/29/12 10:00	05/29/12 22:23	118-74-1	
Hexachloroethane	ND ug/L		500	1	05/29/12 10:00	05/29/12 22:23	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	1	05/29/12 10:00	05/29/12 22:23	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND ug/L		2000	1	05/29/12 10:00	05/29/12 22:23		

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-3 **Lab ID:** 3070020003 **Collected:** 05/21/12 17:15 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV TCLP Analytical Method: EPA 8270 Preparation Method: EPA 3535								
Nitrobenzene	ND	ug/L	100	1	05/29/12 10:00	05/29/12 22:23	98-95-3	
Pentachlorophenol	ND	ug/L	5000	1	05/29/12 10:00	05/29/12 22:23	87-86-5	
Pyridine	ND	ug/L	500	1	05/29/12 10:00	05/29/12 22:23	110-86-1	
2,4,5-Trichlorophenol	ND	ug/L	5000	1	05/29/12 10:00	05/29/12 22:23	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	100	1	05/29/12 10:00	05/29/12 22:23	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	78 %		35-114	1	05/29/12 10:00	05/29/12 22:23	4165-60-0	
2-Fluorobiphenyl (S)	70 %		43-116	1	05/29/12 10:00	05/29/12 22:23	321-60-8	
Terphenyl-d14 (S)	69 %		33-141	1	05/29/12 10:00	05/29/12 22:23	1718-51-0	
Phenol-d6 (S)	77 %		10-110	1	05/29/12 10:00	05/29/12 22:23	13127-88-3	
2-Fluorophenol (S)	80 %		21-110	1	05/29/12 10:00	05/29/12 22:23	367-12-4	
2,4,6-Tribromophenol (S)	78 %		10-123	1	05/29/12 10:00	05/29/12 22:23	118-79-6	
8260 MSV 5030 Low Level Analytical Method: EPA 8260								
Acetone	10400	ug/kg	518	50		05/30/12 15:08	67-64-1	
Benzene	ND	ug/kg	5.0	1		05/29/12 21:40	71-43-2	
Bromodichloromethane	ND	ug/kg	5.0	1		05/29/12 21:40	75-27-4	
Bromoform	ND	ug/kg	5.0	1		05/29/12 21:40	75-25-2	
Bromomethane	ND	ug/kg	5.0	1		05/29/12 21:40	74-83-9	
TOTAL BTEX	ND	ug/kg	30.2	1		05/29/12 21:40		
2-Butanone (MEK)	ND	ug/kg	10.1	1		05/29/12 21:40	78-93-3	
Carbon disulfide	ND	ug/kg	5.0	1		05/29/12 21:40	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	1		05/29/12 21:40	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	1		05/29/12 21:40	108-90-7	
Chloroethane	ND	ug/kg	5.0	1		05/29/12 21:40	75-00-3	
Chloroform	ND	ug/kg	5.0	1		05/29/12 21:40	67-66-3	
Chloromethane	ND	ug/kg	5.0	1		05/29/12 21:40	74-87-3	
Dibromochloromethane	ND	ug/kg	5.0	1		05/29/12 21:40	124-48-1	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1		05/29/12 21:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	1		05/29/12 21:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1		05/29/12 21:40	106-46-7	
1,1-Dichloroethane	ND	ug/kg	5.0	1		05/29/12 21:40	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1		05/29/12 21:40	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	10.1	1		05/29/12 21:40	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.0	1		05/29/12 21:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1		05/29/12 21:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1		05/29/12 21:40	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1		05/29/12 21:40	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1		05/29/12 21:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1		05/29/12 21:40	10061-02-6	
Ethylbenzene	ND	ug/kg	5.0	1		05/29/12 21:40	100-41-4	
2-Hexanone	ND	ug/kg	10.1	1		05/29/12 21:40	591-78-6	
Methylene Chloride	7.8	ug/kg	5.0	1		05/29/12 21:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.1	1		05/29/12 21:40	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.0	1		05/29/12 21:40	1634-04-4	
Styrene	ND	ug/kg	5.0	1		05/29/12 21:40	100-42-5	

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-3 **Lab ID:** 3070020003 **Collected:** 05/21/12 17:15 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
1,1,2,2-Tetrachloroethane	ND ug/kg		5.0	1		05/29/12 21:40	79-34-5	
Tetrachloroethene	ND ug/kg		5.0	1		05/29/12 21:40	127-18-4	
Toluene	ND ug/kg		5.0	1		05/29/12 21:40	108-88-3	
1,1,1-Trichloroethane	ND ug/kg		5.0	1		05/29/12 21:40	71-55-6	
1,1,2-Trichloroethane	ND ug/kg		5.0	1		05/29/12 21:40	79-00-5	
Trichloroethene	ND ug/kg		5.0	1		05/29/12 21:40	79-01-6	
Vinyl chloride	ND ug/kg		5.0	1		05/29/12 21:40	75-01-4	
Xylene (Total)	ND ug/kg		15.1	1		05/29/12 21:40	1330-20-7	
m&p-Xylene	ND ug/kg		10.1	1		05/29/12 21:40	179601-23-1	
o-Xylene	ND ug/kg		5.0	1		05/29/12 21:40	95-47-6	
Surrogates								
Toluene-d8 (S)	96 %		70-130	1		05/29/12 21:40	2037-26-5	
4-Bromofluorobenzene (S)	104 %		70-130	1		05/29/12 21:40	460-00-4	
1,2-Dichloroethane-d4 (S)	99 %		70-130	1		05/29/12 21:40	17060-07-0	
8260 MSV TCLP		Analytical Method: EPA 8260						
Benzene	ND ug/L		50.0	1		05/24/12 15:29	71-43-2	
2-Butanone (MEK)	ND ug/L		5000	1		05/24/12 15:29	78-93-3	
Carbon tetrachloride	ND ug/L		50.0	1		05/24/12 15:29	56-23-5	
Chlorobenzene	ND ug/L		1000	1		05/24/12 15:29	108-90-7	
Chloroform	ND ug/L		500	1		05/24/12 15:29	67-66-3	
1,2-Dichloroethane	ND ug/L		50.0	1		05/24/12 15:29	107-06-2	
1,1-Dichloroethene	ND ug/L		50.0	1		05/24/12 15:29	75-35-4	
Tetrachloroethene	ND ug/L		50.0	1		05/24/12 15:29	127-18-4	
Trichloroethene	ND ug/L		50.0	1		05/24/12 15:29	79-01-6	
Vinyl chloride	ND ug/L		50.0	1		05/24/12 15:29	75-01-4	
Surrogates								
1,2-Dichloroethane-d4 (S)	99 %		70-130	1		05/24/12 15:29	17060-07-0	
Toluene-d8 (S)	98 %		70-130	1		05/24/12 15:29	2037-26-5	
4-Bromofluorobenzene (S)	102 %		70-130	1		05/24/12 15:29	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	6.0 %		0.10	1		05/23/12 17:18		
1010 Flashpoint,Closed Cup		Analytical Method: EPA 1010						
Flashpoint	>200 deg F		60.0	1		05/23/12 20:50		
9045 pH Soil		Analytical Method: EPA 9045						
pH at 25 Degrees C	12.3 Std. Units		1.0	1		05/29/12 22:23		H1
733C S Reactive Cyanide		Analytical Method: SW-846 7.3.3.2						
Cyanide, Reactive	ND mg/kg		1.1	1		05/24/12 20:56		
735S Reactive Sulfide		Analytical Method: SW-846 7.3.4.2						
Sulfide, Reactive	ND mg/kg		10.6	1		05/23/12 17:55		

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ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-4 **Lab ID:** 3070020004 **Collected:** 05/21/12 15:49 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel								
Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Diesel Components	43.3	mg/kg	6.8	1	05/29/12 09:00	05/29/12 21:44		2c
Surrogates								
o-Terphenyl (S)	92	%	50-150	1	05/29/12 09:00	05/29/12 21:44	84-15-1	
8081 GCS Pesticides								
Analytical Method: EPA 8081 Preparation Method: EPA 3546								
Aldrin	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 20:18	309-00-2	
alpha-BHC	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 20:18	319-84-6	
beta-BHC	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 20:18	319-85-7	
delta-BHC	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 20:18	319-86-8	5c
gamma-BHC (Lindane)	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 20:18	58-89-9	
alpha-Chlordane	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 20:18	5103-71-9	
gamma-Chlordane	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 20:18	5103-74-2	
4,4'-DDD	ND	ug/kg	3.5	1	05/25/12 13:00	05/29/12 20:18	72-54-8	
4,4'-DDE	ND	ug/kg	3.5	1	05/25/12 13:00	05/29/12 20:18	72-55-9	
4,4'-DDT	ND	ug/kg	3.5	1	05/25/12 13:00	05/29/12 20:18	50-29-3	
Dieldrin	ND	ug/kg	3.5	1	05/25/12 13:00	05/29/12 20:18	60-57-1	
Endosulfan I	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 20:18	959-98-8	
Endosulfan II	ND	ug/kg	3.5	1	05/25/12 13:00	05/29/12 20:18	33213-65-9	
Endosulfan sulfate	ND	ug/kg	3.5	1	05/25/12 13:00	05/29/12 20:18	1031-07-8	
Endrin	ND	ug/kg	3.5	1	05/25/12 13:00	05/29/12 20:18	72-20-8	
Endrin aldehyde	ND	ug/kg	3.5	1	05/25/12 13:00	05/29/12 20:18	7421-93-4	
Endrin ketone	ND	ug/kg	3.5	1	05/25/12 13:00	05/29/12 20:18	53494-70-5	
Heptachlor	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 20:18	76-44-8	
Heptachlor epoxide	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 20:18	1024-57-3	
Methoxychlor	ND	ug/kg	17.3	1	05/25/12 13:00	05/29/12 20:18	72-43-5	
Toxaphene	ND	ug/kg	17.3	1	05/25/12 13:00	05/29/12 20:18	8001-35-2	
Surrogates								
Tetrachloro-m-xylene (S)	73	%	30-150	1	05/25/12 13:00	05/29/12 20:18	877-09-8	
Decachlorobiphenyl (S)	69	%	30-150	1	05/25/12 13:00	05/29/12 20:18	2051-24-3	
8081 GCS Pesticides, TCLP								
Analytical Method: EPA 8081 Preparation Method: EPA 3510								
gamma-BHC (Lindane)	ND	ug/L	10.0	1	05/25/12 16:00	05/30/12 00:52	58-89-9	
Chlordane (Technical)	ND	ug/L	10.0	1	05/25/12 16:00	05/30/12 00:52	57-74-9	
Endrin	ND	ug/L	1.0	1	05/25/12 16:00	05/30/12 00:52	72-20-8	
Heptachlor epoxide	ND	ug/L	0.50	1	05/25/12 16:00	05/30/12 00:52	1024-57-3	
Methoxychlor	ND	ug/L	100	1	05/25/12 16:00	05/30/12 00:52	72-43-5	
Toxaphene	ND	ug/L	50.0	1	05/25/12 16:00	05/30/12 00:52	8001-35-2	
Surrogates								
Decachlorobiphenyl (S)	85	%	30-150	1	05/25/12 16:00	05/30/12 00:52	2051-24-3	
Tetrachloro-m-xylene (S)	90	%	30-150	1	05/25/12 16:00	05/30/12 00:52	877-09-8	
8082 GCS PCB								
Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	17.3	1	05/25/12 13:00	05/30/12 00:03	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	17.3	1	05/25/12 13:00	05/30/12 00:03	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	17.3	1	05/25/12 13:00	05/30/12 00:03	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	17.3	1	05/25/12 13:00	05/30/12 00:03	53469-21-9	

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ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-4 **Lab ID:** 3070020004 **Collected:** 05/21/12 15:49 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1248 (Aroclor 1248)	ND ug/kg		17.3	1	05/25/12 13:00	05/30/12 00:03	12672-29-6	
PCB-1254 (Aroclor 1254)	ND ug/kg		17.3	1	05/25/12 13:00	05/30/12 00:03	11097-69-1	
PCB-1260 (Aroclor 1260)	ND ug/kg		17.3	1	05/25/12 13:00	05/30/12 00:03	11096-82-5	
PCB, Total	ND ug/kg		17.3	1	05/25/12 13:00	05/30/12 00:03	1336-36-3	
Surrogates								
Tetrachloro-m-xylene (S)	74 %		30-150	1	05/25/12 13:00	05/30/12 00:03	877-09-8	
Decachlorobiphenyl (S)	65 %		30-150	1	05/25/12 13:00	05/30/12 00:03	2051-24-3	

Gasoline Range Organics

Analytical Method: EPA 8015B Modified Preparation Method: EPA 5035A/5030B

Gasoline Range Organics	ND mg/kg		9.5	1	05/29/12 09:38	05/30/12 11:50		
TPH (C06-C10)	ND mg/kg		9.5	1	05/29/12 09:38	05/30/12 11:50		
Surrogates								
4-Bromofluorobenzene (S)	101 %		70-130	1	05/29/12 09:38	05/30/12 11:50	460-00-4	

6010 MET ICP

Analytical Method: EPA 6010B Preparation Method: EPA 3050

Aluminum	5920 mg/kg		6.5	1	05/29/12 09:50	05/30/12 10:20	7429-90-5	
Antimony	ND mg/kg		0.39	1	05/29/12 09:50	05/30/12 10:20	7440-36-0	
Arsenic	7.1 mg/kg		0.33	1	05/29/12 09:50	05/30/12 10:20	7440-38-2	
Barium	87.5 mg/kg		1.3	1	05/29/12 09:50	05/30/12 10:20	7440-39-3	
Beryllium	ND mg/kg		0.13	1	05/29/12 09:50	05/30/12 10:20	7440-41-7	
Boron	13.7 mg/kg		3.3	1	05/29/12 09:50	05/30/12 10:20	7440-42-8	
Cadmium	1.5 mg/kg		0.20	1	05/29/12 09:50	05/30/12 10:20	7440-43-9	
Calcium	245000 mg/kg		2600	20	05/29/12 09:50	05/30/12 12:06	7440-70-2	
Chromium	8.7 mg/kg		0.33	1	05/29/12 09:50	05/30/12 10:20	7440-47-3	
Cobalt	30.2 mg/kg		0.65	1	05/29/12 09:50	05/30/12 10:20	7440-48-4	
Copper	25.9 mg/kg		0.65	1	05/29/12 09:50	05/30/12 10:20	7440-50-8	
Iron	8280 mg/kg		6.5	1	05/29/12 09:50	05/30/12 10:20	7439-89-6	
Lead	10.5 mg/kg		0.33	1	05/29/12 09:50	05/30/12 10:20	7439-92-1	
Magnesium	11700 mg/kg		32.5	1	05/29/12 09:50	05/30/12 10:20	7439-95-4	
Manganese	691 mg/kg		0.65	1	05/29/12 09:50	05/30/12 10:20	7439-96-5	
Molybdenum	2.7 mg/kg		1.3	1	05/29/12 09:50	05/30/12 10:20	7439-98-7	
Nickel	14.4 mg/kg		1.3	1	05/29/12 09:50	05/30/12 10:20	7440-02-0	
Potassium	1410 mg/kg		32.5	1	05/29/12 09:50	05/30/12 10:20	7440-09-7	
Selenium	1.1 mg/kg		0.52	1	05/29/12 09:50	05/30/12 10:20	7782-49-2	
Silver	0.69 mg/kg		0.39	1	05/29/12 09:50	05/30/12 10:20	7440-22-4	
Sodium	357 mg/kg		325	1	05/29/12 09:50	05/30/12 10:20	7440-23-5	
Thallium	ND mg/kg		1.3	1	05/29/12 09:50	05/30/12 10:20	7440-28-0	
Vanadium	9.8 mg/kg		0.65	1	05/29/12 09:50	05/30/12 10:20	7440-62-2	
Zinc	419 mg/kg		0.65	1	05/29/12 09:50	05/30/12 10:20	7440-66-6	

6010 MET ICP, TCLP

Analytical Method: EPA 6010 Preparation Method: EPA 3005

Arsenic	ND mg/L		0.050	1	05/25/12 15:10	05/29/12 20:17	7440-38-2	
Barium	ND mg/L		1.0	1	05/25/12 15:10	05/29/12 20:17	7440-39-3	
Cadmium	ND mg/L		0.050	1	05/25/12 15:10	05/29/12 20:17	7440-43-9	
Chromium	ND mg/L		0.050	1	05/25/12 15:10	05/29/12 20:17	7440-47-3	
Lead	ND mg/L		0.050	1	05/25/12 15:10	05/29/12 20:17	7439-92-1	

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ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-4 **Lab ID:** 3070020004 **Collected:** 05/21/12 15:49 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, TCLP								
Analytical Method: EPA 6010 Preparation Method: EPA 3005								
Selenium	ND mg/L		0.10	1	05/25/12 15:10	05/29/12 20:17	7782-49-2	
Silver	ND mg/L		0.050	1	05/25/12 15:10	05/29/12 20:17	7440-22-4	
7470 Mercury, TCLP								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND ug/L		1.0	1	05/25/12 17:00	05/29/12 12:42	7439-97-6	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.098	1	05/29/12 11:05	05/30/12 10:06	7439-97-6	
8270 MSSV FULL LIST MICROWAVE								
Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 13:34	83-32-9	
Acenaphthylene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 13:34	208-96-8	
Anthracene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 13:34	120-12-7	
Benzo(a)anthracene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 13:34	56-55-3	
Benzo(a)pyrene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 13:34	50-32-8	
Benzo(b)fluoranthene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 13:34	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 13:34	191-24-2	
Benzo(k)fluoranthene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 13:34	207-08-9	
Benzyl alcohol	ND ug/kg		341	1	05/29/12 13:45	05/30/12 13:34	100-51-6	
4-Bromophenylphenyl ether	ND ug/kg		341	1	05/29/12 13:45	05/30/12 13:34	101-55-3	
Butylbenzylphthalate	ND ug/kg		341	1	05/29/12 13:45	05/30/12 13:34	85-68-7	
4-Chloro-3-methylphenol	ND ug/kg		341	1	05/29/12 13:45	05/30/12 13:34	59-50-7	
4-Chloroaniline	ND ug/kg		341	1	05/29/12 13:45	05/30/12 13:34	106-47-8	
bis(2-Chloroethoxy)methane	ND ug/kg		341	1	05/29/12 13:45	05/30/12 13:34	111-91-1	
bis(2-Chloroethyl) ether	ND ug/kg		341	1	05/29/12 13:45	05/30/12 13:34	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/kg		341	1	05/29/12 13:45	05/30/12 13:34	108-60-1	
2-Chloronaphthalene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 13:34	91-58-7	
2-Chlorophenol	ND ug/kg		341	1	05/29/12 13:45	05/30/12 13:34	95-57-8	
4-Chlorophenylphenyl ether	ND ug/kg		341	1	05/29/12 13:45	05/30/12 13:34	7005-72-3	
Chrysene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 13:34	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 13:34	53-70-3	
Dibenzofuran	ND ug/kg		341	1	05/29/12 13:45	05/30/12 13:34	132-64-9	
1,2-Dichlorobenzene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 13:34	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 13:34	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 13:34	106-46-7	
3,3'-Dichlorobenzidine	ND ug/kg		341	1	05/29/12 13:45	05/30/12 13:34	91-94-1	
2,4-Dichlorophenol	ND ug/kg		341	1	05/29/12 13:45	05/30/12 13:34	120-83-2	
Diethylphthalate	ND ug/kg		341	1	05/29/12 13:45	05/30/12 13:34	84-66-2	
2,4-Dimethylphenol	ND ug/kg		341	1	05/29/12 13:45	05/30/12 13:34	105-67-9	
Dimethylphthalate	ND ug/kg		341	1	05/29/12 13:45	05/30/12 13:34	131-11-3	
Di-n-butylphthalate	ND ug/kg		341	1	05/29/12 13:45	05/30/12 13:34	84-74-2	
4,6-Dinitro-2-methylphenol	ND ug/kg		852	1	05/29/12 13:45	05/30/12 13:34	534-52-1	
2,4-Dinitrophenol	ND ug/kg		852	1	05/29/12 13:45	05/30/12 13:34	51-28-5	
2,4-Dinitrotoluene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 13:34	121-14-2	
2,6-Dinitrotoluene	ND ug/kg		341	1	05/29/12 13:45	05/30/12 13:34	606-20-2	

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ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-4 **Lab ID:** 3070020004 **Collected:** 05/21/12 15:49 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

8270 MSSV FULL LIST MICROWAVE

Analytical Method: EPA 8270 Preparation Method: EPA 3546

Di-n-octylphthalate	ND ug/kg	341	1	05/29/12 13:45	05/30/12 13:34	117-84-0	
bis(2-Ethylhexyl)phthalate	ND ug/kg	341	1	05/29/12 13:45	05/30/12 13:34	117-81-7	
Fluoranthene	ND ug/kg	341	1	05/29/12 13:45	05/30/12 13:34	206-44-0	
Fluorene	ND ug/kg	341	1	05/29/12 13:45	05/30/12 13:34	86-73-7	
Hexachloro-1,3-butadiene	ND ug/kg	341	1	05/29/12 13:45	05/30/12 13:34	87-68-3	
Hexachlorobenzene	ND ug/kg	341	1	05/29/12 13:45	05/30/12 13:34	118-74-1	
Hexachlorocyclopentadiene	ND ug/kg	341	1	05/29/12 13:45	05/30/12 13:34	77-47-4	
Hexachloroethane	ND ug/kg	341	1	05/29/12 13:45	05/30/12 13:34	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/kg	341	1	05/29/12 13:45	05/30/12 13:34	193-39-5	
Isophorone	ND ug/kg	341	1	05/29/12 13:45	05/30/12 13:34	78-59-1	
2-Methylnaphthalene	ND ug/kg	341	1	05/29/12 13:45	05/30/12 13:34	91-57-6	
2-Methylphenol(o-Cresol)	ND ug/kg	341	1	05/29/12 13:45	05/30/12 13:34	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND ug/kg	681	1	05/29/12 13:45	05/30/12 13:34		
Naphthalene	ND ug/kg	341	1	05/29/12 13:45	05/30/12 13:34	91-20-3	
2-Nitroaniline	ND ug/kg	852	1	05/29/12 13:45	05/30/12 13:34	88-74-4	
3-Nitroaniline	ND ug/kg	852	1	05/29/12 13:45	05/30/12 13:34	99-09-2	
4-Nitroaniline	ND ug/kg	852	1	05/29/12 13:45	05/30/12 13:34	100-01-6	
Nitrobenzene	ND ug/kg	341	1	05/29/12 13:45	05/30/12 13:34	98-95-3	
2-Nitrophenol	ND ug/kg	341	1	05/29/12 13:45	05/30/12 13:34	88-75-5	
4-Nitrophenol	ND ug/kg	341	1	05/29/12 13:45	05/30/12 13:34	100-02-7	
N-Nitroso-di-n-propylamine	ND ug/kg	341	1	05/29/12 13:45	05/30/12 13:34	621-64-7	
N-Nitrosodiphenylamine	ND ug/kg	341	1	05/29/12 13:45	05/30/12 13:34	86-30-6	
Pentachlorophenol	ND ug/kg	852	1	05/29/12 13:45	05/30/12 13:34	87-86-5	
Phenanthrene	ND ug/kg	341	1	05/29/12 13:45	05/30/12 13:34	85-01-8	
Phenol	ND ug/kg	341	1	05/29/12 13:45	05/30/12 13:34	108-95-2	
Pyrene	ND ug/kg	341	1	05/29/12 13:45	05/30/12 13:34	129-00-0	
1,2,4-Trichlorobenzene	ND ug/kg	341	1	05/29/12 13:45	05/30/12 13:34	120-82-1	
2,4,5-Trichlorophenol	ND ug/kg	852	1	05/29/12 13:45	05/30/12 13:34	95-95-4	
2,4,6-Trichlorophenol	ND ug/kg	341	1	05/29/12 13:45	05/30/12 13:34	88-06-2	

Surrogates

Nitrobenzene-d5 (S)	86 %	49-118	1	05/29/12 13:45	05/30/12 13:34	4165-60-0	
2-Fluorobiphenyl (S)	99 %	48-125	1	05/29/12 13:45	05/30/12 13:34	321-60-8	
Terphenyl-d14 (S)	101 %	29-159	1	05/29/12 13:45	05/30/12 13:34	1718-51-0	
Phenol-d6 (S)	21 %	30-130	1	05/29/12 13:45	05/30/12 13:34	13127-88-3	C0,S0
2-Fluorophenol (S)	2 %	25-138	1	05/29/12 13:45	05/30/12 13:34	367-12-4	C0,S0
2,4,6-Tribromophenol (S)	0 %	10-144	1	05/29/12 13:45	05/30/12 13:34	118-79-6	C0,S0

8270 MSSV TCLP

Analytical Method: EPA 8270 Preparation Method: EPA 3535

1,4-Dichlorobenzene	ND ug/L	500	1	05/29/12 10:00	05/29/12 22:46	106-46-7	
2,4-Dinitrotoluene	ND ug/L	100	1	05/29/12 10:00	05/29/12 22:46	121-14-2	
Hexachloro-1,3-butadiene	ND ug/L	100	1	05/29/12 10:00	05/29/12 22:46	87-68-3	
Hexachlorobenzene	ND ug/L	100	1	05/29/12 10:00	05/29/12 22:46	118-74-1	
Hexachloroethane	ND ug/L	500	1	05/29/12 10:00	05/29/12 22:46	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L	2000	1	05/29/12 10:00	05/29/12 22:46	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND ug/L	2000	1	05/29/12 10:00	05/29/12 22:46		

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ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-4 **Lab ID:** 3070020004 **Collected:** 05/21/12 15:49 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV TCLP Analytical Method: EPA 8270 Preparation Method: EPA 3535								
Nitrobenzene	ND ug/L		100	1	05/29/12 10:00	05/29/12 22:46	98-95-3	
Pentachlorophenol	ND ug/L		5000	1	05/29/12 10:00	05/29/12 22:46	87-86-5	
Pyridine	ND ug/L		500	1	05/29/12 10:00	05/29/12 22:46	110-86-1	
2,4,5-Trichlorophenol	ND ug/L		5000	1	05/29/12 10:00	05/29/12 22:46	95-95-4	
2,4,6-Trichlorophenol	ND ug/L		100	1	05/29/12 10:00	05/29/12 22:46	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	77 %		35-114	1	05/29/12 10:00	05/29/12 22:46	4165-60-0	
2-Fluorobiphenyl (S)	71 %		43-116	1	05/29/12 10:00	05/29/12 22:46	321-60-8	
Terphenyl-d14 (S)	81 %		33-141	1	05/29/12 10:00	05/29/12 22:46	1718-51-0	
Phenol-d6 (S)	80 %		10-110	1	05/29/12 10:00	05/29/12 22:46	13127-88-3	
2-Fluorophenol (S)	84 %		21-110	1	05/29/12 10:00	05/29/12 22:46	367-12-4	
2,4,6-Tribromophenol (S)	71 %		10-123	1	05/29/12 10:00	05/29/12 22:46	118-79-6	
8260 MSV 5030 Low Level Analytical Method: EPA 8260								
Acetone	21400 ug/kg		948	100		05/30/12 15:57	67-64-1	
Benzene	ND ug/kg		4.8	1		05/29/12 22:04	71-43-2	
Bromodichloromethane	ND ug/kg		4.8	1		05/29/12 22:04	75-27-4	
Bromoform	ND ug/kg		4.8	1		05/29/12 22:04	75-25-2	
Bromomethane	ND ug/kg		4.8	1		05/29/12 22:04	74-83-9	
TOTAL BTEX	ND ug/kg		28.7	1		05/29/12 22:04		
2-Butanone (MEK)	ND ug/kg		9.6	1		05/29/12 22:04	78-93-3	
Carbon disulfide	ND ug/kg		4.8	1		05/29/12 22:04	75-15-0	
Carbon tetrachloride	ND ug/kg		4.8	1		05/29/12 22:04	56-23-5	
Chlorobenzene	ND ug/kg		4.8	1		05/29/12 22:04	108-90-7	
Chloroethane	ND ug/kg		4.8	1		05/29/12 22:04	75-00-3	
Chloroform	ND ug/kg		4.8	1		05/29/12 22:04	67-66-3	
Chloromethane	ND ug/kg		4.8	1		05/29/12 22:04	74-87-3	
Dibromochloromethane	ND ug/kg		4.8	1		05/29/12 22:04	124-48-1	
1,2-Dichlorobenzene	ND ug/kg		4.8	1		05/29/12 22:04	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		4.8	1		05/29/12 22:04	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		4.8	1		05/29/12 22:04	106-46-7	
1,1-Dichloroethane	ND ug/kg		4.8	1		05/29/12 22:04	75-34-3	
1,2-Dichloroethane	ND ug/kg		4.8	1		05/29/12 22:04	107-06-2	
1,2-Dichloroethene (Total)	ND ug/kg		9.6	1		05/29/12 22:04	540-59-0	
1,1-Dichloroethene	ND ug/kg		4.8	1		05/29/12 22:04	75-35-4	
cis-1,2-Dichloroethene	ND ug/kg		4.8	1		05/29/12 22:04	156-59-2	
trans-1,2-Dichloroethene	ND ug/kg		4.8	1		05/29/12 22:04	156-60-5	
1,2-Dichloropropane	ND ug/kg		4.8	1		05/29/12 22:04	78-87-5	
cis-1,3-Dichloropropene	ND ug/kg		4.8	1		05/29/12 22:04	10061-01-5	
trans-1,3-Dichloropropene	ND ug/kg		4.8	1		05/29/12 22:04	10061-02-6	
Ethylbenzene	ND ug/kg		4.8	1		05/29/12 22:04	100-41-4	
2-Hexanone	ND ug/kg		9.6	1		05/29/12 22:04	591-78-6	
Methylene Chloride	ND ug/kg		4.8	1		05/29/12 22:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/kg		9.6	1		05/29/12 22:04	108-10-1	
Methyl-tert-butyl ether	ND ug/kg		4.8	1		05/29/12 22:04	1634-04-4	
Styrene	ND ug/kg		4.8	1		05/29/12 22:04	100-42-5	

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ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-4 **Lab ID:** 3070020004 **Collected:** 05/21/12 15:49 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
1,1,2,2-Tetrachloroethane	ND ug/kg		4.8	1		05/29/12 22:04	79-34-5	
Tetrachloroethene	ND ug/kg		4.8	1		05/29/12 22:04	127-18-4	
Toluene	ND ug/kg		4.8	1		05/29/12 22:04	108-88-3	
1,1,1-Trichloroethane	ND ug/kg		4.8	1		05/29/12 22:04	71-55-6	
1,1,2-Trichloroethane	ND ug/kg		4.8	1		05/29/12 22:04	79-00-5	
Trichloroethene	ND ug/kg		4.8	1		05/29/12 22:04	79-01-6	
Vinyl chloride	ND ug/kg		4.8	1		05/29/12 22:04	75-01-4	
Xylene (Total)	ND ug/kg		14.3	1		05/29/12 22:04	1330-20-7	
m&p-Xylene	ND ug/kg		9.6	1		05/29/12 22:04	179601-23-1	
o-Xylene	ND ug/kg		4.8	1		05/29/12 22:04	95-47-6	
Surrogates								
Toluene-d8 (S)	97 %		70-130	1		05/29/12 22:04	2037-26-5	
4-Bromofluorobenzene (S)	97 %		70-130	1		05/29/12 22:04	460-00-4	
1,2-Dichloroethane-d4 (S)	93 %		70-130	1		05/29/12 22:04	17060-07-0	
8260 MSV TCLP		Analytical Method: EPA 8260						
Benzene	ND ug/L		50.0	1		05/24/12 15:53	71-43-2	
2-Butanone (MEK)	ND ug/L		5000	1		05/24/12 15:53	78-93-3	
Carbon tetrachloride	ND ug/L		50.0	1		05/24/12 15:53	56-23-5	
Chlorobenzene	ND ug/L		1000	1		05/24/12 15:53	108-90-7	
Chloroform	ND ug/L		500	1		05/24/12 15:53	67-66-3	
1,2-Dichloroethane	ND ug/L		50.0	1		05/24/12 15:53	107-06-2	
1,1-Dichloroethene	ND ug/L		50.0	1		05/24/12 15:53	75-35-4	
Tetrachloroethene	ND ug/L		50.0	1		05/24/12 15:53	127-18-4	
Trichloroethene	ND ug/L		50.0	1		05/24/12 15:53	79-01-6	
Vinyl chloride	ND ug/L		50.0	1		05/24/12 15:53	75-01-4	
Surrogates								
1,2-Dichloroethane-d4 (S)	102 %		70-130	1		05/24/12 15:53	17060-07-0	
Toluene-d8 (S)	99 %		70-130	1		05/24/12 15:53	2037-26-5	
4-Bromofluorobenzene (S)	99 %		70-130	1		05/24/12 15:53	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	4.0 %		0.10	1		05/23/12 17:19		
1010 Flashpoint,Closed Cup		Analytical Method: EPA 1010						
Flashpoint	>200 deg F		60.0	1		05/23/12 20:50		
9045 pH Soil		Analytical Method: EPA 9045						
pH at 25 Degrees C	12.5 Std. Units		1.0	1		05/29/12 22:23		H1
733C S Reactive Cyanide		Analytical Method: SW-846 7.3.3.2						
Cyanide, Reactive	ND mg/kg		1.0	1		05/24/12 20:57		
735S Reactive Sulfide		Analytical Method: SW-846 7.3.4.2						
Sulfide, Reactive	ND mg/kg		10.4	1		05/23/12 17:55		

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ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-5 **Lab ID:** 3070020005 **Collected:** 05/21/12 16:05 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel								
Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Diesel Components	1770	mg/kg	139	20	05/29/12 09:00	05/30/12 11:28		2c
Surrogates								
o-Terphenyl (S)	0	%	50-150	20	05/29/12 09:00	05/30/12 11:28	84-15-1	6c
8081 GCS Pesticides								
Analytical Method: EPA 8081 Preparation Method: EPA 3546								
Aldrin	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 20:46	309-00-2	
alpha-BHC	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 20:46	319-84-6	
beta-BHC	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 20:46	319-85-7	
delta-BHC	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 20:46	319-86-8	5c
gamma-BHC (Lindane)	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 20:46	58-89-9	
alpha-Chlordane	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 20:46	5103-71-9	
gamma-Chlordane	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 20:46	5103-74-2	
4,4'-DDD	ND	ug/kg	3.4	1	05/25/12 13:00	05/29/12 20:46	72-54-8	
4,4'-DDE	ND	ug/kg	3.4	1	05/25/12 13:00	05/29/12 20:46	72-55-9	
4,4'-DDT	ND	ug/kg	3.4	1	05/25/12 13:00	05/29/12 20:46	50-29-3	
Dieldrin	ND	ug/kg	3.4	1	05/25/12 13:00	05/29/12 20:46	60-57-1	
Endosulfan I	2.9	ug/kg	1.7	1	05/25/12 13:00	05/29/12 20:46	959-98-8	
Endosulfan II	ND	ug/kg	3.4	1	05/25/12 13:00	05/29/12 20:46	33213-65-9	
Endosulfan sulfate	ND	ug/kg	3.4	1	05/25/12 13:00	05/29/12 20:46	1031-07-8	
Endrin	ND	ug/kg	3.4	1	05/25/12 13:00	05/29/12 20:46	72-20-8	
Endrin aldehyde	6.3	ug/kg	3.4	1	05/25/12 13:00	05/29/12 20:46	7421-93-4	
Endrin ketone	ND	ug/kg	3.4	1	05/25/12 13:00	05/29/12 20:46	53494-70-5	
Heptachlor	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 20:46	76-44-8	
Heptachlor epoxide	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 20:46	1024-57-3	
Methoxychlor	ND	ug/kg	17.1	1	05/25/12 13:00	05/29/12 20:46	72-43-5	
Toxaphene	ND	ug/kg	17.1	1	05/25/12 13:00	05/29/12 20:46	8001-35-2	
Surrogates								
Tetrachloro-m-xylene (S)	77	%	30-150	1	05/25/12 13:00	05/29/12 20:46	877-09-8	
Decachlorobiphenyl (S)	67	%	30-150	1	05/25/12 13:00	05/29/12 20:46	2051-24-3	
8081 GCS Pesticides, TCLP								
Analytical Method: EPA 8081 Preparation Method: EPA 3510								
gamma-BHC (Lindane)	ND	ug/L	10.0	1	05/25/12 16:00	05/30/12 01:19	58-89-9	
Chlordane (Technical)	ND	ug/L	10.0	1	05/25/12 16:00	05/30/12 01:19	57-74-9	
Endrin	ND	ug/L	1.0	1	05/25/12 16:00	05/30/12 01:19	72-20-8	
Heptachlor epoxide	ND	ug/L	0.50	1	05/25/12 16:00	05/30/12 01:19	1024-57-3	
Methoxychlor	ND	ug/L	100	1	05/25/12 16:00	05/30/12 01:19	72-43-5	
Toxaphene	ND	ug/L	50.0	1	05/25/12 16:00	05/30/12 01:19	8001-35-2	
Surrogates								
Decachlorobiphenyl (S)	87	%	30-150	1	05/25/12 16:00	05/30/12 01:19	2051-24-3	
Tetrachloro-m-xylene (S)	88	%	30-150	1	05/25/12 16:00	05/30/12 01:19	877-09-8	
8082 GCS PCB								
Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	17.1	1	05/25/12 13:00	05/30/12 00:11	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	17.1	1	05/25/12 13:00	05/30/12 00:11	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	17.1	1	05/25/12 13:00	05/30/12 00:11	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	17.1	1	05/25/12 13:00	05/30/12 00:11	53469-21-9	

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ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-5 **Lab ID:** 3070020005 **Collected:** 05/21/12 16:05 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1248 (Aroclor 1248)	ND ug/kg		17.1	1	05/25/12 13:00	05/30/12 00:11	12672-29-6	
PCB-1254 (Aroclor 1254)	133 ug/kg		17.1	1	05/25/12 13:00	05/30/12 00:11	11097-69-1	
PCB-1260 (Aroclor 1260)	ND ug/kg		17.1	1	05/25/12 13:00	05/30/12 00:11	11096-82-5	
PCB, Total	133 ug/kg		17.1	1	05/25/12 13:00	05/30/12 00:11	1336-36-3	
Surrogates								
Tetrachloro-m-xylene (S)	65 %		30-150	1	05/25/12 13:00	05/30/12 00:11	877-09-8	
Decachlorobiphenyl (S)	62 %		30-150	1	05/25/12 13:00	05/30/12 00:11	2051-24-3	

Gasoline Range Organics

Analytical Method: EPA 8015B Modified Preparation Method: EPA 5035A/5030B

Gasoline Range Organics	48.5 mg/kg		8.2	1	05/29/12 09:38	05/30/12 12:07		
TPH (C06-C10)	45.1 mg/kg		8.2	1	05/29/12 09:38	05/30/12 12:07		
Surrogates								
4-Bromofluorobenzene (S)	85 %		70-130	1	05/29/12 09:38	05/30/12 12:07	460-00-4	

6010 MET ICP

Analytical Method: EPA 6010B Preparation Method: EPA 3050

Aluminum	5420 mg/kg		7.5	1	05/29/12 09:50	05/30/12 10:24	7429-90-5	
Antimony	ND mg/kg		0.45	1	05/29/12 09:50	05/30/12 10:24	7440-36-0	
Arsenic	3.9 mg/kg		0.38	1	05/29/12 09:50	05/30/12 10:24	7440-38-2	
Barium	175 mg/kg		1.5	1	05/29/12 09:50	05/30/12 10:24	7440-39-3	
Beryllium	ND mg/kg		0.15	1	05/29/12 09:50	05/30/12 10:24	7440-41-7	
Boron	10.6 mg/kg		3.8	1	05/29/12 09:50	05/30/12 10:24	7440-42-8	
Cadmium	ND mg/kg		0.23	1	05/29/12 09:50	05/30/12 10:24	7440-43-9	
Calcium	267000 mg/kg		3000	20	05/29/12 09:50	05/30/12 12:10	7440-70-2	
Chromium	7.3 mg/kg		0.38	1	05/29/12 09:50	05/30/12 10:24	7440-47-3	
Cobalt	5.6 mg/kg		0.75	1	05/29/12 09:50	05/30/12 10:24	7440-48-4	
Copper	8.5 mg/kg		0.75	1	05/29/12 09:50	05/30/12 10:24	7440-50-8	
Iron	7750 mg/kg		7.5	1	05/29/12 09:50	05/30/12 10:24	7439-89-6	
Lead	4.9 mg/kg		0.38	1	05/29/12 09:50	05/30/12 10:24	7439-92-1	
Magnesium	12400 mg/kg		37.5	1	05/29/12 09:50	05/30/12 10:24	7439-95-4	
Manganese	778 mg/kg		0.75	1	05/29/12 09:50	05/30/12 10:24	7439-96-5	
Molybdenum	ND mg/kg		1.5	1	05/29/12 09:50	05/30/12 10:24	7439-98-7	
Nickel	9.7 mg/kg		1.5	1	05/29/12 09:50	05/30/12 10:24	7440-02-0	
Potassium	943 mg/kg		37.5	1	05/29/12 09:50	05/30/12 10:24	7440-09-7	
Selenium	0.86 mg/kg		0.60	1	05/29/12 09:50	05/30/12 10:24	7782-49-2	
Silver	ND mg/kg		0.45	1	05/29/12 09:50	05/30/12 10:24	7440-22-4	
Sodium	ND mg/kg		375	1	05/29/12 09:50	05/30/12 10:24	7440-23-5	
Thallium	ND mg/kg		1.5	1	05/29/12 09:50	05/30/12 10:24	7440-28-0	
Vanadium	8.7 mg/kg		0.75	1	05/29/12 09:50	05/30/12 10:24	7440-62-2	
Zinc	17.8 mg/kg		0.75	1	05/29/12 09:50	05/30/12 10:24	7440-66-6	

6010 MET ICP, TCLP

Analytical Method: EPA 6010 Preparation Method: EPA 3005

Arsenic	ND mg/L		0.050	1	05/25/12 15:10	05/29/12 20:21	7440-38-2	
Barium	ND mg/L		1.0	1	05/25/12 15:10	05/29/12 20:21	7440-39-3	
Cadmium	ND mg/L		0.050	1	05/25/12 15:10	05/29/12 20:21	7440-43-9	
Chromium	ND mg/L		0.050	1	05/25/12 15:10	05/29/12 20:21	7440-47-3	
Lead	ND mg/L		0.050	1	05/25/12 15:10	05/29/12 20:21	7439-92-1	

ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-5 **Lab ID:** 3070020005 **Collected:** 05/21/12 16:05 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, TCLP Analytical Method: EPA 6010 Preparation Method: EPA 3005								
Selenium	ND mg/L		0.10	1	05/25/12 15:10	05/29/12 20:21	7782-49-2	
Silver	ND mg/L		0.050	1	05/25/12 15:10	05/29/12 20:21	7440-22-4	
7470 Mercury, TCLP Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND ug/L		1.0	1	05/25/12 17:00	05/29/12 12:43	7439-97-6	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.10	1	05/29/12 11:05	05/30/12 10:08	7439-97-6	
8270 MSSV FULL LIST MICROWAVE Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	83-32-9	
Acenaphthylene	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	208-96-8	
Anthracene	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	120-12-7	
Benzo(a)anthracene	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	56-55-3	
Benzo(a)pyrene	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	50-32-8	
Benzo(b)fluoranthene	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	191-24-2	
Benzo(k)fluoranthene	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	207-08-9	
Benzyl alcohol	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	100-51-6	
4-Bromophenylphenyl ether	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	101-55-3	
Butylbenzylphthalate	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	85-68-7	
4-Chloro-3-methylphenol	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	59-50-7	
4-Chloroaniline	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	106-47-8	
bis(2-Chloroethoxy)methane	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	111-91-1	
bis(2-Chloroethyl) ether	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	108-60-1	
2-Chloronaphthalene	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	91-58-7	
2-Chlorophenol	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	95-57-8	
4-Chlorophenylphenyl ether	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	7005-72-3	
Chrysene	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	53-70-3	
Dibenzofuran	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	132-64-9	
1,2-Dichlorobenzene	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	106-46-7	
3,3'-Dichlorobenzidine	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	91-94-1	
2,4-Dichlorophenol	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	120-83-2	
Diethylphthalate	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	84-66-2	
2,4-Dimethylphenol	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	105-67-9	
Dimethylphthalate	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	131-11-3	
Di-n-butylphthalate	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	84-74-2	
4,6-Dinitro-2-methylphenol	ND ug/kg		869	1	05/29/12 13:45	05/30/12 13:56	534-52-1	
2,4-Dinitrophenol	ND ug/kg		869	1	05/29/12 13:45	05/30/12 13:56	51-28-5	
2,4-Dinitrotoluene	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	121-14-2	
2,6-Dinitrotoluene	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	606-20-2	

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ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-5 **Lab ID:** 3070020005 **Collected:** 05/21/12 16:05 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV FULL LIST		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
MICROWAVE								
Di-n-octylphthalate	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	117-84-0	
bis(2-Ethylhexyl)phthalate	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	117-81-7	
Fluoranthene	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	206-44-0	
Fluorene	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	86-73-7	
Hexachloro-1,3-butadiene	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	87-68-3	
Hexachlorobenzene	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	118-74-1	
Hexachlorocyclopentadiene	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	77-47-4	
Hexachloroethane	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	193-39-5	
Isophorone	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	78-59-1	
2-Methylnaphthalene	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	91-57-6	
2-Methylphenol(o-Cresol)	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND ug/kg		695	1	05/29/12 13:45	05/30/12 13:56		
Naphthalene	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	91-20-3	
2-Nitroaniline	ND ug/kg		869	1	05/29/12 13:45	05/30/12 13:56	88-74-4	
3-Nitroaniline	ND ug/kg		869	1	05/29/12 13:45	05/30/12 13:56	99-09-2	
4-Nitroaniline	ND ug/kg		869	1	05/29/12 13:45	05/30/12 13:56	100-01-6	
Nitrobenzene	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	98-95-3	
2-Nitrophenol	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	88-75-5	
4-Nitrophenol	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	100-02-7	
N-Nitroso-di-n-propylamine	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	621-64-7	
N-Nitrosodiphenylamine	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	86-30-6	
Pentachlorophenol	ND ug/kg		869	1	05/29/12 13:45	05/30/12 13:56	87-86-5	
Phenanthrene	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	85-01-8	
Phenol	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	108-95-2	
Pyrene	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	129-00-0	
1,2,4-Trichlorobenzene	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	120-82-1	
2,4,5-Trichlorophenol	ND ug/kg		869	1	05/29/12 13:45	05/30/12 13:56	95-95-4	
2,4,6-Trichlorophenol	ND ug/kg		347	1	05/29/12 13:45	05/30/12 13:56	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	93 %		49-118	1	05/29/12 13:45	05/30/12 13:56	4165-60-0	
2-Fluorobiphenyl (S)	98 %		48-125	1	05/29/12 13:45	05/30/12 13:56	321-60-8	
Terphenyl-d14 (S)	119 %		29-159	1	05/29/12 13:45	05/30/12 13:56	1718-51-0	
Phenol-d6 (S)	16 %		30-130	1	05/29/12 13:45	05/30/12 13:56	13127-88-3	C0,S0
2-Fluorophenol (S)	0 %		25-138	1	05/29/12 13:45	05/30/12 13:56	367-12-4	C0,S0
2,4,6-Tribromophenol (S)	0 %		10-144	1	05/29/12 13:45	05/30/12 13:56	118-79-6	C0,S0

8270 MSSV TCLP

Analytical Method: EPA 8270 Preparation Method: EPA 3535

1,4-Dichlorobenzene	ND ug/L		500	1	05/29/12 10:00	05/29/12 23:08	106-46-7	
2,4-Dinitrotoluene	ND ug/L		100	1	05/29/12 10:00	05/29/12 23:08	121-14-2	
Hexachloro-1,3-butadiene	ND ug/L		100	1	05/29/12 10:00	05/29/12 23:08	87-68-3	
Hexachlorobenzene	ND ug/L		100	1	05/29/12 10:00	05/29/12 23:08	118-74-1	
Hexachloroethane	ND ug/L		500	1	05/29/12 10:00	05/29/12 23:08	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	1	05/29/12 10:00	05/29/12 23:08	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND ug/L		2000	1	05/29/12 10:00	05/29/12 23:08		

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-5 **Lab ID:** 3070020005 **Collected:** 05/21/12 16:05 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV TCLP Analytical Method: EPA 8270 Preparation Method: EPA 3535								
Nitrobenzene	ND ug/L		100	1	05/29/12 10:00	05/29/12 23:08	98-95-3	
Pentachlorophenol	ND ug/L		5000	1	05/29/12 10:00	05/29/12 23:08	87-86-5	
Pyridine	ND ug/L		500	1	05/29/12 10:00	05/29/12 23:08	110-86-1	
2,4,5-Trichlorophenol	ND ug/L		5000	1	05/29/12 10:00	05/29/12 23:08	95-95-4	
2,4,6-Trichlorophenol	ND ug/L		100	1	05/29/12 10:00	05/29/12 23:08	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	78 %		35-114	1	05/29/12 10:00	05/29/12 23:08	4165-60-0	
2-Fluorobiphenyl (S)	74 %		43-116	1	05/29/12 10:00	05/29/12 23:08	321-60-8	
Terphenyl-d14 (S)	74 %		33-141	1	05/29/12 10:00	05/29/12 23:08	1718-51-0	
Phenol-d6 (S)	74 %		10-110	1	05/29/12 10:00	05/29/12 23:08	13127-88-3	
2-Fluorophenol (S)	86 %		21-110	1	05/29/12 10:00	05/29/12 23:08	367-12-4	
2,4,6-Tribromophenol (S)	79 %		10-123	1	05/29/12 10:00	05/29/12 23:08	118-79-6	
8260 MSV 5030 Low Level Analytical Method: EPA 8260								
Acetone	3600 ug/kg		412	50		05/30/12 13:54	67-64-1	
Benzene	ND ug/kg		4.2	1		05/29/12 22:29	71-43-2	
Bromodichloromethane	ND ug/kg		4.2	1		05/29/12 22:29	75-27-4	
Bromoform	ND ug/kg		4.2	1		05/29/12 22:29	75-25-2	
Bromomethane	ND ug/kg		4.2	1		05/29/12 22:29	74-83-9	
TOTAL BTEX	ND ug/kg		25.3	1		05/29/12 22:29		
2-Butanone (MEK)	ND ug/kg		8.4	1		05/29/12 22:29	78-93-3	
Carbon disulfide	ND ug/kg		4.2	1		05/29/12 22:29	75-15-0	
Carbon tetrachloride	ND ug/kg		4.2	1		05/29/12 22:29	56-23-5	
Chlorobenzene	ND ug/kg		4.2	1		05/29/12 22:29	108-90-7	
Chloroethane	ND ug/kg		4.2	1		05/29/12 22:29	75-00-3	
Chloroform	ND ug/kg		4.2	1		05/29/12 22:29	67-66-3	
Chloromethane	ND ug/kg		4.2	1		05/29/12 22:29	74-87-3	
Dibromochloromethane	ND ug/kg		4.2	1		05/29/12 22:29	124-48-1	
1,2-Dichlorobenzene	ND ug/kg		4.2	1		05/29/12 22:29	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		4.2	1		05/29/12 22:29	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		4.2	1		05/29/12 22:29	106-46-7	
1,1-Dichloroethane	ND ug/kg		4.2	1		05/29/12 22:29	75-34-3	
1,2-Dichloroethane	ND ug/kg		4.2	1		05/29/12 22:29	107-06-2	
1,2-Dichloroethene (Total)	ND ug/kg		8.4	1		05/29/12 22:29	540-59-0	
1,1-Dichloroethene	ND ug/kg		4.2	1		05/29/12 22:29	75-35-4	
cis-1,2-Dichloroethene	ND ug/kg		4.2	1		05/29/12 22:29	156-59-2	
trans-1,2-Dichloroethene	ND ug/kg		4.2	1		05/29/12 22:29	156-60-5	
1,2-Dichloropropane	ND ug/kg		4.2	1		05/29/12 22:29	78-87-5	
cis-1,3-Dichloropropene	ND ug/kg		4.2	1		05/29/12 22:29	10061-01-5	
trans-1,3-Dichloropropene	ND ug/kg		4.2	1		05/29/12 22:29	10061-02-6	
Ethylbenzene	ND ug/kg		4.2	1		05/29/12 22:29	100-41-4	
2-Hexanone	ND ug/kg		8.4	1		05/29/12 22:29	591-78-6	
Methylene Chloride	ND ug/kg		4.2	1		05/29/12 22:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/kg		8.4	1		05/29/12 22:29	108-10-1	
Methyl-tert-butyl ether	ND ug/kg		4.2	1		05/29/12 22:29	1634-04-4	
Styrene	ND ug/kg		4.2	1		05/29/12 22:29	100-42-5	

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ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-5 **Lab ID:** 3070020005 **Collected:** 05/21/12 16:05 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.2	1		05/29/12 22:29	79-34-5	
Tetrachloroethene	173	ug/kg	4.2	1		05/29/12 22:29	127-18-4	
Toluene	ND	ug/kg	4.2	1		05/29/12 22:29	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.2	1		05/29/12 22:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.2	1		05/29/12 22:29	79-00-5	
Trichloroethene	ND	ug/kg	4.2	1		05/29/12 22:29	79-01-6	
Vinyl chloride	ND	ug/kg	4.2	1		05/29/12 22:29	75-01-4	
Xylene (Total)	ND	ug/kg	12.6	1		05/29/12 22:29	1330-20-7	
m&p-Xylene	ND	ug/kg	8.4	1		05/29/12 22:29	179601-23-1	
o-Xylene	ND	ug/kg	4.2	1		05/29/12 22:29	95-47-6	
Surrogates								
Toluene-d8 (S)	89 %		70-130	1		05/29/12 22:29	2037-26-5	
4-Bromofluorobenzene (S)	99 %		70-130	1		05/29/12 22:29	460-00-4	
1,2-Dichloroethane-d4 (S)	97 %		70-130	1		05/29/12 22:29	17060-07-0	
8260 MSV TCLP		Analytical Method: EPA 8260						
Benzene	ND	ug/L	50.0	1		05/24/12 16:18	71-43-2	
2-Butanone (MEK)	ND	ug/L	5000	1		05/24/12 16:18	78-93-3	
Carbon tetrachloride	ND	ug/L	50.0	1		05/24/12 16:18	56-23-5	
Chlorobenzene	ND	ug/L	1000	1		05/24/12 16:18	108-90-7	
Chloroform	ND	ug/L	500	1		05/24/12 16:18	67-66-3	
1,2-Dichloroethane	ND	ug/L	50.0	1		05/24/12 16:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	1		05/24/12 16:18	75-35-4	
Tetrachloroethene	ND	ug/L	50.0	1		05/24/12 16:18	127-18-4	
Trichloroethene	ND	ug/L	50.0	1		05/24/12 16:18	79-01-6	
Vinyl chloride	ND	ug/L	50.0	1		05/24/12 16:18	75-01-4	
Surrogates								
1,2-Dichloroethane-d4 (S)	101 %		70-130	1		05/24/12 16:18	17060-07-0	
Toluene-d8 (S)	102 %		70-130	1		05/24/12 16:18	2037-26-5	
4-Bromofluorobenzene (S)	100 %		70-130	1		05/24/12 16:18	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	4.8 %		0.10	1		05/23/12 17:19		
1010 Flashpoint,Closed Cup		Analytical Method: EPA 1010						
Flashpoint	>200 deg F		60.0	1		05/23/12 20:50		
9045 pH Soil		Analytical Method: EPA 9045						
pH at 25 Degrees C	12.5 Std. Units		1.0	1		05/29/12 22:23		H1
733C S Reactive Cyanide		Analytical Method: SW-846 7.3.3.2						
Cyanide, Reactive	ND	mg/kg	1.1	1		05/24/12 20:58		
735S Reactive Sulfide		Analytical Method: SW-846 7.3.4.2						
Sulfide, Reactive	ND	mg/kg	10.5	1		05/23/12 17:55		

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ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-6 **Lab ID:** 3070020006 **Collected:** 05/21/12 16:35 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel								
Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Diesel Components	818	mg/kg	67.9	10	05/29/12 09:00	05/30/12 11:38		2c
Surrogates								
o-Terphenyl (S)	0	%	50-150	10	05/29/12 09:00	05/30/12 11:38	84-15-1	6c
8081 GCS Pesticides								
Analytical Method: EPA 8081 Preparation Method: EPA 3546								
Aldrin	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 21:13	309-00-2	
alpha-BHC	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 21:13	319-84-6	
beta-BHC	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 21:13	319-85-7	
delta-BHC	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 21:13	319-86-8	5c
gamma-BHC (Lindane)	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 21:13	58-89-9	
alpha-Chlordane	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 21:13	5103-71-9	
gamma-Chlordane	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 21:13	5103-74-2	
4,4'-DDD	ND	ug/kg	3.4	1	05/25/12 13:00	05/29/12 21:13	72-54-8	
4,4'-DDE	ND	ug/kg	3.4	1	05/25/12 13:00	05/29/12 21:13	72-55-9	
4,4'-DDT	ND	ug/kg	3.4	1	05/25/12 13:00	05/29/12 21:13	50-29-3	
Dieldrin	ND	ug/kg	3.4	1	05/25/12 13:00	05/29/12 21:13	60-57-1	
Endosulfan I	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 21:13	959-98-8	
Endosulfan II	ND	ug/kg	3.4	1	05/25/12 13:00	05/29/12 21:13	33213-65-9	
Endosulfan sulfate	ND	ug/kg	3.4	1	05/25/12 13:00	05/29/12 21:13	1031-07-8	
Endrin	ND	ug/kg	3.4	1	05/25/12 13:00	05/29/12 21:13	72-20-8	
Endrin aldehyde	ND	ug/kg	3.4	1	05/25/12 13:00	05/29/12 21:13	7421-93-4	
Endrin ketone	ND	ug/kg	3.4	1	05/25/12 13:00	05/29/12 21:13	53494-70-5	
Heptachlor	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 21:13	76-44-8	
Heptachlor epoxide	ND	ug/kg	1.7	1	05/25/12 13:00	05/29/12 21:13	1024-57-3	
Methoxychlor	ND	ug/kg	16.9	1	05/25/12 13:00	05/29/12 21:13	72-43-5	
Toxaphene	ND	ug/kg	16.9	1	05/25/12 13:00	05/29/12 21:13	8001-35-2	
Surrogates								
Tetrachloro-m-xylene (S)	75	%	30-150	1	05/25/12 13:00	05/29/12 21:13	877-09-8	
Decachlorobiphenyl (S)	68	%	30-150	1	05/25/12 13:00	05/29/12 21:13	2051-24-3	
8081 GCS Pesticides, TCLP								
Analytical Method: EPA 8081 Preparation Method: EPA 3510								
gamma-BHC (Lindane)	ND	ug/L	10.0	1	05/25/12 16:00	05/30/12 01:47	58-89-9	
Chlordane (Technical)	ND	ug/L	10.0	1	05/25/12 16:00	05/30/12 01:47	57-74-9	
Endrin	ND	ug/L	1.0	1	05/25/12 16:00	05/30/12 01:47	72-20-8	
Heptachlor epoxide	ND	ug/L	0.50	1	05/25/12 16:00	05/30/12 01:47	1024-57-3	
Methoxychlor	ND	ug/L	100	1	05/25/12 16:00	05/30/12 01:47	72-43-5	
Toxaphene	ND	ug/L	50.0	1	05/25/12 16:00	05/30/12 01:47	8001-35-2	
Surrogates								
Decachlorobiphenyl (S)	80	%	30-150	1	05/25/12 16:00	05/30/12 01:47	2051-24-3	
Tetrachloro-m-xylene (S)	84	%	30-150	1	05/25/12 16:00	05/30/12 01:47	877-09-8	
8082 GCS PCB								
Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	16.9	1	05/25/12 13:00	05/30/12 00:20	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	16.9	1	05/25/12 13:00	05/30/12 00:20	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	16.9	1	05/25/12 13:00	05/30/12 00:20	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	16.9	1	05/25/12 13:00	05/30/12 00:20	53469-21-9	

Date: 05/30/2012 05:07 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-6 **Lab ID:** 3070020006 **Collected:** 05/21/12 16:35 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1248 (Aroclor 1248)	ND	ug/kg	16.9	1	05/25/12 13:00	05/30/12 00:20	12672-29-6	
PCB-1254 (Aroclor 1254)	21.3	ug/kg	16.9	1	05/25/12 13:00	05/30/12 00:20	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	16.9	1	05/25/12 13:00	05/30/12 00:20	11096-82-5	
PCB, Total	21.3	ug/kg	16.9	1	05/25/12 13:00	05/30/12 00:20	1336-36-3	
Surrogates								
Tetrachloro-m-xylene (S)	69	%	30-150	1	05/25/12 13:00	05/30/12 00:20	877-09-8	
Decachlorobiphenyl (S)	63	%	30-150	1	05/25/12 13:00	05/30/12 00:20	2051-24-3	

Gasoline Range Organics

Analytical Method: EPA 8015B Modified Preparation Method: EPA 5035A/5030B

Gasoline Range Organics	ND	mg/kg	8.6	1	05/29/12 09:38	05/30/12 12:24		
TPH (C06-C10)	ND	mg/kg	8.6	1	05/29/12 09:38	05/30/12 12:24		
Surrogates								
4-Bromofluorobenzene (S)	91	%	70-130	1	05/29/12 09:38	05/30/12 12:24	460-00-4	

6010 MET ICP

Analytical Method: EPA 6010B Preparation Method: EPA 3050

Aluminum	6240	mg/kg	6.5	1	05/29/12 09:50	05/30/12 10:28	7429-90-5	
Antimony	ND	mg/kg	0.39	1	05/29/12 09:50	05/30/12 10:28	7440-36-0	
Arsenic	3.3	mg/kg	0.32	1	05/29/12 09:50	05/30/12 10:28	7440-38-2	
Barium	79.8	mg/kg	1.3	1	05/29/12 09:50	05/30/12 10:28	7440-39-3	
Beryllium	ND	mg/kg	0.13	1	05/29/12 09:50	05/30/12 10:28	7440-41-7	
Boron	11.7	mg/kg	3.2	1	05/29/12 09:50	05/30/12 10:28	7440-42-8	
Cadmium	ND	mg/kg	0.19	1	05/29/12 09:50	05/30/12 10:28	7440-43-9	
Calcium	244000	mg/kg	2600	20	05/29/12 09:50	05/30/12 12:14	7440-70-2	
Chromium	25.3	mg/kg	0.32	1	05/29/12 09:50	05/30/12 10:28	7440-47-3	
Cobalt	5.4	mg/kg	0.65	1	05/29/12 09:50	05/30/12 10:28	7440-48-4	
Copper	8.9	mg/kg	0.65	1	05/29/12 09:50	05/30/12 10:28	7440-50-8	
Iron	8160	mg/kg	6.5	1	05/29/12 09:50	05/30/12 10:28	7439-89-6	
Lead	5.3	mg/kg	0.32	1	05/29/12 09:50	05/30/12 10:28	7439-92-1	
Magnesium	12200	mg/kg	32.5	1	05/29/12 09:50	05/30/12 10:28	7439-95-4	
Manganese	615	mg/kg	0.65	1	05/29/12 09:50	05/30/12 10:28	7439-96-5	
Molybdenum	2.0	mg/kg	1.3	1	05/29/12 09:50	05/30/12 10:28	7439-98-7	
Nickel	14.5	mg/kg	1.3	1	05/29/12 09:50	05/30/12 10:28	7440-02-0	
Potassium	1290	mg/kg	32.5	1	05/29/12 09:50	05/30/12 10:28	7440-09-7	
Selenium	0.59	mg/kg	0.52	1	05/29/12 09:50	05/30/12 10:28	7782-49-2	
Silver	ND	mg/kg	0.39	1	05/29/12 09:50	05/30/12 10:28	7440-22-4	
Sodium	328	mg/kg	325	1	05/29/12 09:50	05/30/12 10:28	7440-23-5	
Thallium	ND	mg/kg	1.3	1	05/29/12 09:50	05/30/12 10:28	7440-28-0	
Vanadium	10.0	mg/kg	0.65	1	05/29/12 09:50	05/30/12 10:28	7440-62-2	
Zinc	17.8	mg/kg	0.65	1	05/29/12 09:50	05/30/12 10:28	7440-66-6	

6010 MET ICP, TCLP

Analytical Method: EPA 6010 Preparation Method: EPA 3005

Arsenic	ND	mg/L	0.050	1	05/25/12 15:10	05/29/12 20:25	7440-38-2	
Barium	ND	mg/L	1.0	1	05/25/12 15:10	05/29/12 20:25	7440-39-3	
Cadmium	ND	mg/L	0.050	1	05/25/12 15:10	05/29/12 20:25	7440-43-9	
Chromium	0.12	mg/L	0.050	1	05/25/12 15:10	05/29/12 20:25	7440-47-3	
Lead	ND	mg/L	0.050	1	05/25/12 15:10	05/29/12 20:25	7439-92-1	

ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-6 **Lab ID:** 3070020006 **Collected:** 05/21/12 16:35 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, TCLP								
Analytical Method: EPA 6010 Preparation Method: EPA 3005								
Selenium	ND mg/L		0.10	1	05/25/12 15:10	05/29/12 20:25	7782-49-2	
Silver	ND mg/L		0.050	1	05/25/12 15:10	05/29/12 20:25	7440-22-4	
7470 Mercury, TCLP								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND ug/L		1.0	1	05/25/12 17:00	05/29/12 12:45	7439-97-6	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.096	1	05/29/12 11:05	05/30/12 10:09	7439-97-6	
8270 MSSV FULL LIST MICROWAVE								
Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	83-32-9	
Acenaphthylene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	208-96-8	
Anthracene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	120-12-7	
Benzo(a)anthracene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	56-55-3	
Benzo(a)pyrene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	50-32-8	
Benzo(b)fluoranthene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	191-24-2	
Benzo(k)fluoranthene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	207-08-9	
Benzyl alcohol	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	100-51-6	
4-Bromophenylphenyl ether	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	101-55-3	
Butylbenzylphthalate	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	85-68-7	
4-Chloro-3-methylphenol	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	59-50-7	
4-Chloroaniline	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	106-47-8	
bis(2-Chloroethoxy)methane	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	111-91-1	
bis(2-Chloroethyl) ether	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	108-60-1	
2-Chloronaphthalene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	91-58-7	
2-Chlorophenol	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	95-57-8	
4-Chlorophenylphenyl ether	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	7005-72-3	
Chrysene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	53-70-3	
Dibenzofuran	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	132-64-9	
1,2-Dichlorobenzene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	106-46-7	
3,3'-Dichlorobenzidine	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	91-94-1	
2,4-Dichlorophenol	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	120-83-2	
Diethylphthalate	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	84-66-2	
2,4-Dimethylphenol	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	105-67-9	
Dimethylphthalate	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	131-11-3	
Di-n-butylphthalate	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	84-74-2	
4,6-Dinitro-2-methylphenol	ND ug/kg		864	1	05/29/12 13:45	05/30/12 14:19	534-52-1	
2,4-Dinitrophenol	ND ug/kg		864	1	05/29/12 13:45	05/30/12 14:19	51-28-5	
2,4-Dinitrotoluene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	121-14-2	
2,6-Dinitrotoluene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	606-20-2	

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ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-6 **Lab ID:** 3070020006 **Collected:** 05/21/12 16:35 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV FULL LIST		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
MICROWAVE								
Di-n-octylphthalate	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	117-84-0	
bis(2-Ethylhexyl)phthalate	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	117-81-7	
Fluoranthene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	206-44-0	
Fluorene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	86-73-7	
Hexachloro-1,3-butadiene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	87-68-3	
Hexachlorobenzene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	118-74-1	
Hexachlorocyclopentadiene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	77-47-4	
Hexachloroethane	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	193-39-5	
Isophorone	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	78-59-1	
2-Methylnaphthalene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	91-57-6	
2-Methylphenol(o-Cresol)	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND ug/kg		691	1	05/29/12 13:45	05/30/12 14:19		
Naphthalene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	91-20-3	
2-Nitroaniline	ND ug/kg		864	1	05/29/12 13:45	05/30/12 14:19	88-74-4	
3-Nitroaniline	ND ug/kg		864	1	05/29/12 13:45	05/30/12 14:19	99-09-2	
4-Nitroaniline	ND ug/kg		864	1	05/29/12 13:45	05/30/12 14:19	100-01-6	
Nitrobenzene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	98-95-3	
2-Nitrophenol	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	88-75-5	
4-Nitrophenol	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	100-02-7	
N-Nitroso-di-n-propylamine	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	621-64-7	
N-Nitrosodiphenylamine	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	86-30-6	
Pentachlorophenol	ND ug/kg		864	1	05/29/12 13:45	05/30/12 14:19	87-86-5	
Phenanthrene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	85-01-8	
Phenol	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	108-95-2	
Pyrene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	129-00-0	
1,2,4-Trichlorobenzene	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	120-82-1	
2,4,5-Trichlorophenol	ND ug/kg		864	1	05/29/12 13:45	05/30/12 14:19	95-95-4	
2,4,6-Trichlorophenol	ND ug/kg		345	1	05/29/12 13:45	05/30/12 14:19	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	81 %		49-118	1	05/29/12 13:45	05/30/12 14:19	4165-60-0	
2-Fluorobiphenyl (S)	89 %		48-125	1	05/29/12 13:45	05/30/12 14:19	321-60-8	
Terphenyl-d14 (S)	102 %		29-159	1	05/29/12 13:45	05/30/12 14:19	1718-51-0	
Phenol-d6 (S)	15 %		30-130	1	05/29/12 13:45	05/30/12 14:19	13127-88-3	C0,S0
2-Fluorophenol (S)	0 %		25-138	1	05/29/12 13:45	05/30/12 14:19	367-12-4	C0,S0
2,4,6-Tribromophenol (S)	0 %		10-144	1	05/29/12 13:45	05/30/12 14:19	118-79-6	C0,S0

8270 MSSV TCLP

Analytical Method: EPA 8270 Preparation Method: EPA 3535

1,4-Dichlorobenzene	ND ug/L		500	1	05/29/12 10:00	05/29/12 23:31	106-46-7	
2,4-Dinitrotoluene	ND ug/L		100	1	05/29/12 10:00	05/29/12 23:31	121-14-2	
Hexachloro-1,3-butadiene	ND ug/L		100	1	05/29/12 10:00	05/29/12 23:31	87-68-3	
Hexachlorobenzene	ND ug/L		100	1	05/29/12 10:00	05/29/12 23:31	118-74-1	
Hexachloroethane	ND ug/L		500	1	05/29/12 10:00	05/29/12 23:31	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	1	05/29/12 10:00	05/29/12 23:31	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND ug/L		2000	1	05/29/12 10:00	05/29/12 23:31		

Date: 05/30/2012 05:07 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-6 **Lab ID:** 3070020006 **Collected:** 05/21/12 16:35 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV TCLP Analytical Method: EPA 8270 Preparation Method: EPA 3535								
Nitrobenzene	ND ug/L		100	1	05/29/12 10:00	05/29/12 23:31	98-95-3	
Pentachlorophenol	ND ug/L		5000	1	05/29/12 10:00	05/29/12 23:31	87-86-5	
Pyridine	ND ug/L		500	1	05/29/12 10:00	05/29/12 23:31	110-86-1	
2,4,5-Trichlorophenol	ND ug/L		5000	1	05/29/12 10:00	05/29/12 23:31	95-95-4	
2,4,6-Trichlorophenol	ND ug/L		100	1	05/29/12 10:00	05/29/12 23:31	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	80 %		35-114	1	05/29/12 10:00	05/29/12 23:31	4165-60-0	
2-Fluorobiphenyl (S)	73 %		43-116	1	05/29/12 10:00	05/29/12 23:31	321-60-8	
Terphenyl-d14 (S)	67 %		33-141	1	05/29/12 10:00	05/29/12 23:31	1718-51-0	
Phenol-d6 (S)	82 %		10-110	1	05/29/12 10:00	05/29/12 23:31	13127-88-3	
2-Fluorophenol (S)	88 %		21-110	1	05/29/12 10:00	05/29/12 23:31	367-12-4	
2,4,6-Tribromophenol (S)	75 %		10-123	1	05/29/12 10:00	05/29/12 23:31	118-79-6	
8260 MSV 5030 Low Level Analytical Method: EPA 8260								
Acetone	7450 ug/kg		431	50		05/30/12 14:18	67-64-1	
Benzene	ND ug/kg		4.0	1		05/29/12 22:53	71-43-2	
Bromodichloromethane	ND ug/kg		4.0	1		05/29/12 22:53	75-27-4	
Bromoform	ND ug/kg		4.0	1		05/29/12 22:53	75-25-2	
Bromomethane	ND ug/kg		4.0	1		05/29/12 22:53	74-83-9	
TOTAL BTEX	ND ug/kg		24.1	1		05/29/12 22:53		
2-Butanone (MEK)	ND ug/kg		8.0	1		05/29/12 22:53	78-93-3	
Carbon disulfide	ND ug/kg		4.0	1		05/29/12 22:53	75-15-0	
Carbon tetrachloride	ND ug/kg		4.0	1		05/29/12 22:53	56-23-5	
Chlorobenzene	ND ug/kg		4.0	1		05/29/12 22:53	108-90-7	
Chloroethane	ND ug/kg		4.0	1		05/29/12 22:53	75-00-3	
Chloroform	ND ug/kg		4.0	1		05/29/12 22:53	67-66-3	
Chloromethane	ND ug/kg		4.0	1		05/29/12 22:53	74-87-3	
Dibromochloromethane	ND ug/kg		4.0	1		05/29/12 22:53	124-48-1	
1,2-Dichlorobenzene	ND ug/kg		4.0	1		05/29/12 22:53	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		4.0	1		05/29/12 22:53	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		4.0	1		05/29/12 22:53	106-46-7	
1,1-Dichloroethane	ND ug/kg		4.0	1		05/29/12 22:53	75-34-3	
1,2-Dichloroethane	ND ug/kg		4.0	1		05/29/12 22:53	107-06-2	
1,2-Dichloroethene (Total)	ND ug/kg		8.0	1		05/29/12 22:53	540-59-0	
1,1-Dichloroethene	ND ug/kg		4.0	1		05/29/12 22:53	75-35-4	
cis-1,2-Dichloroethene	ND ug/kg		4.0	1		05/29/12 22:53	156-59-2	
trans-1,2-Dichloroethene	ND ug/kg		4.0	1		05/29/12 22:53	156-60-5	
1,2-Dichloropropane	ND ug/kg		4.0	1		05/29/12 22:53	78-87-5	
cis-1,3-Dichloropropene	ND ug/kg		4.0	1		05/29/12 22:53	10061-01-5	
trans-1,3-Dichloropropene	ND ug/kg		4.0	1		05/29/12 22:53	10061-02-6	
Ethylbenzene	ND ug/kg		4.0	1		05/29/12 22:53	100-41-4	
2-Hexanone	ND ug/kg		8.0	1		05/29/12 22:53	591-78-6	
Methylene Chloride	ND ug/kg		4.0	1		05/29/12 22:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/kg		8.0	1		05/29/12 22:53	108-10-1	
Methyl-tert-butyl ether	ND ug/kg		4.0	1		05/29/12 22:53	1634-04-4	
Styrene	ND ug/kg		4.0	1		05/29/12 22:53	100-42-5	

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ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-6 **Lab ID:** 3070020006 **Collected:** 05/21/12 16:35 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.0	1		05/29/12 22:53	79-34-5	
Tetrachloroethene	ND	ug/kg	4.0	1		05/29/12 22:53	127-18-4	
Toluene	ND	ug/kg	4.0	1		05/29/12 22:53	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.0	1		05/29/12 22:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.0	1		05/29/12 22:53	79-00-5	
Trichloroethene	5.0	ug/kg	4.0	1		05/29/12 22:53	79-01-6	
Vinyl chloride	ND	ug/kg	4.0	1		05/29/12 22:53	75-01-4	
Xylene (Total)	ND	ug/kg	12.0	1		05/29/12 22:53	1330-20-7	
m&p-Xylene	ND	ug/kg	8.0	1		05/29/12 22:53	179601-23-1	
o-Xylene	ND	ug/kg	4.0	1		05/29/12 22:53	95-47-6	
Surrogates								
Toluene-d8 (S)	93	%	70-130	1		05/29/12 22:53	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130	1		05/29/12 22:53	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130	1		05/29/12 22:53	17060-07-0	
8260 MSV TCLP		Analytical Method: EPA 8260						
Benzene	ND	ug/L	50.0	1		05/24/12 16:42	71-43-2	
2-Butanone (MEK)	ND	ug/L	5000	1		05/24/12 16:42	78-93-3	
Carbon tetrachloride	ND	ug/L	50.0	1		05/24/12 16:42	56-23-5	
Chlorobenzene	ND	ug/L	1000	1		05/24/12 16:42	108-90-7	
Chloroform	ND	ug/L	500	1		05/24/12 16:42	67-66-3	
1,2-Dichloroethane	ND	ug/L	50.0	1		05/24/12 16:42	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	1		05/24/12 16:42	75-35-4	
Tetrachloroethene	ND	ug/L	50.0	1		05/24/12 16:42	127-18-4	
Trichloroethene	ND	ug/L	50.0	1		05/24/12 16:42	79-01-6	
Vinyl chloride	ND	ug/L	50.0	1		05/24/12 16:42	75-01-4	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		05/24/12 16:42	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		05/24/12 16:42	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130	1		05/24/12 16:42	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	3.7	%	0.10	1		05/23/12 17:19		
1010 Flashpoint,Closed Cup		Analytical Method: EPA 1010						
Flashpoint	>200	deg F	60.0	1		05/23/12 20:50		
9045 pH Soil		Analytical Method: EPA 9045						
pH at 25 Degrees C	12.6	Std. Units	1.0	1		05/29/12 22:23		H1
733C S Reactive Cyanide		Analytical Method: SW-846 7.3.3.2						
Cyanide, Reactive	ND	mg/kg	1.0	1		05/24/12 21:00		
735S Reactive Sulfide		Analytical Method: SW-846 7.3.4.2						
Sulfide, Reactive	ND	mg/kg	10.4	1		05/23/12 17:55		

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ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-7 **Lab ID:** 3070020007 **Collected:** 05/21/12 11:40 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel								
Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Diesel Components	183 mg/kg		33.8	5	05/29/12 09:00	05/30/12 11:47		2c
Surrogates								
o-Terphenyl (S)	0 %		50-150	5	05/29/12 09:00	05/30/12 11:47	84-15-1	6c
8081 GCS Pesticides								
Analytical Method: EPA 8081 Preparation Method: EPA 3546								
Aldrin	ND ug/kg		1.7	1	05/25/12 13:00	05/29/12 21:40	309-00-2	5c
alpha-BHC	ND ug/kg		1.7	1	05/25/12 13:00	05/29/12 21:40	319-84-6	
beta-BHC	ND ug/kg		1.7	1	05/25/12 13:00	05/29/12 21:40	319-85-7	
delta-BHC	ND ug/kg		1.7	1	05/25/12 13:00	05/29/12 21:40	319-86-8	
gamma-BHC (Lindane)	ND ug/kg		1.7	1	05/25/12 13:00	05/29/12 21:40	58-89-9	
alpha-Chlordane	ND ug/kg		1.7	1	05/25/12 13:00	05/29/12 21:40	5103-71-9	
gamma-Chlordane	ND ug/kg		1.7	1	05/25/12 13:00	05/29/12 21:40	5103-74-2	
4,4'-DDD	ND ug/kg		3.4	1	05/25/12 13:00	05/29/12 21:40	72-54-8	
4,4'-DDE	ND ug/kg		3.4	1	05/25/12 13:00	05/29/12 21:40	72-55-9	
4,4'-DDT	ND ug/kg		3.4	1	05/25/12 13:00	05/29/12 21:40	50-29-3	
Dieldrin	ND ug/kg		3.4	1	05/25/12 13:00	05/29/12 21:40	60-57-1	
Endosulfan I	ND ug/kg		1.7	1	05/25/12 13:00	05/29/12 21:40	959-98-8	
Endosulfan II	ND ug/kg		3.4	1	05/25/12 13:00	05/29/12 21:40	33213-65-9	
Endosulfan sulfate	ND ug/kg		3.4	1	05/25/12 13:00	05/29/12 21:40	1031-07-8	
Endrin	ND ug/kg		3.4	1	05/25/12 13:00	05/29/12 21:40	72-20-8	
Endrin aldehyde	ND ug/kg		3.4	1	05/25/12 13:00	05/29/12 21:40	7421-93-4	
Endrin ketone	ND ug/kg		3.4	1	05/25/12 13:00	05/29/12 21:40	53494-70-5	
Heptachlor	ND ug/kg		1.7	1	05/25/12 13:00	05/29/12 21:40	76-44-8	
Heptachlor epoxide	ND ug/kg		1.7	1	05/25/12 13:00	05/29/12 21:40	1024-57-3	
Methoxychlor	ND ug/kg		17.2	1	05/25/12 13:00	05/29/12 21:40	72-43-5	
Toxaphene	ND ug/kg		17.2	1	05/25/12 13:00	05/29/12 21:40	8001-35-2	
Surrogates								
Tetrachloro-m-xylene (S)	72 %		30-150	1	05/25/12 13:00	05/29/12 21:40	877-09-8	
Decachlorobiphenyl (S)	66 %		30-150	1	05/25/12 13:00	05/29/12 21:40	2051-24-3	
8081 GCS Pesticides, TCLP								
Analytical Method: EPA 8081 Preparation Method: EPA 3510								
gamma-BHC (Lindane)	ND ug/L		10.0	1	05/25/12 16:00	05/30/12 02:14	58-89-9	
Chlordane (Technical)	ND ug/L		10.0	1	05/25/12 16:00	05/30/12 02:14	57-74-9	
Endrin	ND ug/L		1.0	1	05/25/12 16:00	05/30/12 02:14	72-20-8	
Heptachlor epoxide	ND ug/L		0.50	1	05/25/12 16:00	05/30/12 02:14	1024-57-3	
Methoxychlor	ND ug/L		100	1	05/25/12 16:00	05/30/12 02:14	72-43-5	
Toxaphene	ND ug/L		50.0	1	05/25/12 16:00	05/30/12 02:14	8001-35-2	
Surrogates								
Decachlorobiphenyl (S)	84 %		30-150	1	05/25/12 16:00	05/30/12 02:14	2051-24-3	
Tetrachloro-m-xylene (S)	84 %		30-150	1	05/25/12 16:00	05/30/12 02:14	877-09-8	
8082 GCS PCB								
Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND ug/kg		17.2	1	05/25/12 13:00	05/30/12 00:28	12674-11-2	
PCB-1221 (Aroclor 1221)	ND ug/kg		17.2	1	05/25/12 13:00	05/30/12 00:28	11104-28-2	
PCB-1232 (Aroclor 1232)	ND ug/kg		17.2	1	05/25/12 13:00	05/30/12 00:28	11141-16-5	
PCB-1242 (Aroclor 1242)	ND ug/kg		17.2	1	05/25/12 13:00	05/30/12 00:28	53469-21-9	

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ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-7 **Lab ID:** 3070020007 **Collected:** 05/21/12 11:40 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1248 (Aroclor 1248)	ND ug/kg		17.2	1	05/25/12 13:00	05/30/12 00:28	12672-29-6	
PCB-1254 (Aroclor 1254)	25.0 ug/kg		17.2	1	05/25/12 13:00	05/30/12 00:28	11097-69-1	
PCB-1260 (Aroclor 1260)	ND ug/kg		17.2	1	05/25/12 13:00	05/30/12 00:28	11096-82-5	
PCB, Total	25.0 ug/kg		17.2	1	05/25/12 13:00	05/30/12 00:28	1336-36-3	
Surrogates								
Tetrachloro-m-xylene (S)	77 %		30-150	1	05/25/12 13:00	05/30/12 00:28	877-09-8	
Decachlorobiphenyl (S)	71 %		30-150	1	05/25/12 13:00	05/30/12 00:28	2051-24-3	

Gasoline Range Organics

Analytical Method: EPA 8015B Modified Preparation Method: EPA 5035A/5030B

Gasoline Range Organics	ND mg/kg		9.3	1	05/29/12 09:38	05/30/12 12:40		
TPH (C06-C10)	ND mg/kg		9.3	1	05/29/12 09:38	05/30/12 12:40		
Surrogates								
4-Bromofluorobenzene (S)	103 %		70-130	1	05/29/12 09:38	05/30/12 12:40	460-00-4	

6010 MET ICP

Analytical Method: EPA 6010B Preparation Method: EPA 3050

Aluminum	9640 mg/kg		8.7	1	05/29/12 09:50	05/30/12 10:49	7429-90-5	
Antimony	ND mg/kg		0.52	1	05/29/12 09:50	05/30/12 10:49	7440-36-0	
Arsenic	4.8 mg/kg		0.44	1	05/29/12 09:50	05/30/12 10:49	7440-38-2	
Barium	54.6 mg/kg		1.7	1	05/29/12 09:50	05/30/12 10:49	7440-39-3	
Beryllium	ND mg/kg		0.17	1	05/29/12 09:50	05/30/12 10:49	7440-41-7	
Boron	12.2 mg/kg		4.4	1	05/29/12 09:50	05/30/12 10:49	7440-42-8	
Cadmium	ND mg/kg		0.26	1	05/29/12 09:50	05/30/12 10:49	7440-43-9	
Calcium	202000 mg/kg		3500	20	05/29/12 09:50	05/30/12 12:18	7440-70-2	
Chromium	30.0 mg/kg		0.44	1	05/29/12 09:50	05/30/12 10:49	7440-47-3	
Cobalt	5.9 mg/kg		0.87	1	05/29/12 09:50	05/30/12 10:49	7440-48-4	
Copper	17.4 mg/kg		0.87	1	05/29/12 09:50	05/30/12 10:49	7440-50-8	
Iron	13400 mg/kg		8.7	1	05/29/12 09:50	05/30/12 10:49	7439-89-6	
Lead	11.5 mg/kg		0.44	1	05/29/12 09:50	05/30/12 10:49	7439-92-1	
Magnesium	11900 mg/kg		43.7	1	05/29/12 09:50	05/30/12 10:49	7439-95-4	
Manganese	391 mg/kg		0.87	1	05/29/12 09:50	05/30/12 10:49	7439-96-5	
Molybdenum	ND mg/kg		1.7	1	05/29/12 09:50	05/30/12 10:49	7439-98-7	
Nickel	15.0 mg/kg		1.7	1	05/29/12 09:50	05/30/12 10:49	7440-02-0	
Potassium	949 mg/kg		43.7	1	05/29/12 09:50	05/30/12 10:49	7440-09-7	
Selenium	0.99 mg/kg		0.70	1	05/29/12 09:50	05/30/12 10:49	7782-49-2	
Silver	ND mg/kg		0.52	1	05/29/12 09:50	05/30/12 10:49	7440-22-4	
Sodium	ND mg/kg		437	1	05/29/12 09:50	05/30/12 10:49	7440-23-5	
Thallium	ND mg/kg		1.7	1	05/29/12 09:50	05/30/12 10:49	7440-28-0	
Vanadium	16.7 mg/kg		0.87	1	05/29/12 09:50	05/30/12 10:49	7440-62-2	
Zinc	85.6 mg/kg		0.87	1	05/29/12 09:50	05/30/12 10:49	7440-66-6	

6010 MET ICP, TCLP

Analytical Method: EPA 6010 Preparation Method: EPA 3005

Arsenic	ND mg/L		0.050	1	05/25/12 15:10	05/29/12 20:29	7440-38-2	
Barium	ND mg/L		1.0	1	05/25/12 15:10	05/29/12 20:29	7440-39-3	
Cadmium	ND mg/L		0.050	1	05/25/12 15:10	05/29/12 20:29	7440-43-9	
Chromium	0.21 mg/L		0.050	1	05/25/12 15:10	05/29/12 20:29	7440-47-3	
Lead	ND mg/L		0.050	1	05/25/12 15:10	05/29/12 20:29	7439-92-1	

ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-7 **Lab ID:** 3070020007 **Collected:** 05/21/12 11:40 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, TCLP								
Analytical Method: EPA 6010 Preparation Method: EPA 3005								
Selenium	ND mg/L		0.10	1	05/25/12 15:10	05/29/12 20:29	7782-49-2	
Silver	ND mg/L		0.050	1	05/25/12 15:10	05/29/12 20:29	7440-22-4	
7470 Mercury, TCLP								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND ug/L		1.0	1	05/25/12 17:00	05/29/12 12:47	7439-97-6	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.097	1	05/29/12 11:05	05/30/12 10:11	7439-97-6	
8270 MSSV FULL LIST MICROWAVE								
Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND ug/kg		342	1	05/29/12 13:45	05/30/12 14:42	83-32-9	
Acenaphthylene	ND ug/kg		342	1	05/29/12 13:45	05/30/12 14:42	208-96-8	
Anthracene	ND ug/kg		342	1	05/29/12 13:45	05/30/12 14:42	120-12-7	
Benzo(a)anthracene	ND ug/kg		342	1	05/29/12 13:45	05/30/12 14:42	56-55-3	
Benzo(a)pyrene	ND ug/kg		342	1	05/29/12 13:45	05/30/12 14:42	50-32-8	
Benzo(b)fluoranthene	ND ug/kg		342	1	05/29/12 13:45	05/30/12 14:42	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg		342	1	05/29/12 13:45	05/30/12 14:42	191-24-2	
Benzo(k)fluoranthene	ND ug/kg		342	1	05/29/12 13:45	05/30/12 14:42	207-08-9	
Benzyl alcohol	ND ug/kg		342	1	05/29/12 13:45	05/30/12 14:42	100-51-6	
4-Bromophenylphenyl ether	ND ug/kg		342	1	05/29/12 13:45	05/30/12 14:42	101-55-3	
Butylbenzylphthalate	ND ug/kg		342	1	05/29/12 13:45	05/30/12 14:42	85-68-7	
4-Chloro-3-methylphenol	ND ug/kg		342	1	05/29/12 13:45	05/30/12 14:42	59-50-7	
4-Chloroaniline	ND ug/kg		342	1	05/29/12 13:45	05/30/12 14:42	106-47-8	
bis(2-Chloroethoxy)methane	ND ug/kg		342	1	05/29/12 13:45	05/30/12 14:42	111-91-1	
bis(2-Chloroethyl) ether	ND ug/kg		342	1	05/29/12 13:45	05/30/12 14:42	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/kg		342	1	05/29/12 13:45	05/30/12 14:42	108-60-1	
2-Chloronaphthalene	ND ug/kg		342	1	05/29/12 13:45	05/30/12 14:42	91-58-7	
2-Chlorophenol	ND ug/kg		342	1	05/29/12 13:45	05/30/12 14:42	95-57-8	
4-Chlorophenylphenyl ether	ND ug/kg		342	1	05/29/12 13:45	05/30/12 14:42	7005-72-3	
Chrysene	ND ug/kg		342	1	05/29/12 13:45	05/30/12 14:42	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg		342	1	05/29/12 13:45	05/30/12 14:42	53-70-3	
Dibenzofuran	ND ug/kg		342	1	05/29/12 13:45	05/30/12 14:42	132-64-9	
1,2-Dichlorobenzene	ND ug/kg		342	1	05/29/12 13:45	05/30/12 14:42	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		342	1	05/29/12 13:45	05/30/12 14:42	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		342	1	05/29/12 13:45	05/30/12 14:42	106-46-7	
3,3'-Dichlorobenzidine	ND ug/kg		342	1	05/29/12 13:45	05/30/12 14:42	91-94-1	
2,4-Dichlorophenol	ND ug/kg		342	1	05/29/12 13:45	05/30/12 14:42	120-83-2	
Diethylphthalate	ND ug/kg		342	1	05/29/12 13:45	05/30/12 14:42	84-66-2	
2,4-Dimethylphenol	ND ug/kg		342	1	05/29/12 13:45	05/30/12 14:42	105-67-9	
Dimethylphthalate	ND ug/kg		342	1	05/29/12 13:45	05/30/12 14:42	131-11-3	
Di-n-butylphthalate	ND ug/kg		342	1	05/29/12 13:45	05/30/12 14:42	84-74-2	
4,6-Dinitro-2-methylphenol	ND ug/kg		855	1	05/29/12 13:45	05/30/12 14:42	534-52-1	
2,4-Dinitrophenol	ND ug/kg		855	1	05/29/12 13:45	05/30/12 14:42	51-28-5	
2,4-Dinitrotoluene	ND ug/kg		342	1	05/29/12 13:45	05/30/12 14:42	121-14-2	
2,6-Dinitrotoluene	ND ug/kg		342	1	05/29/12 13:45	05/30/12 14:42	606-20-2	

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ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-7 **Lab ID:** 3070020007 **Collected:** 05/21/12 11:40 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

8270 MSSV FULL LIST MICROWAVE

Analytical Method: EPA 8270 Preparation Method: EPA 3546

Di-n-octylphthalate	ND ug/kg	342	1	05/29/12 13:45	05/30/12 14:42	117-84-0	
bis(2-Ethylhexyl)phthalate	ND ug/kg	342	1	05/29/12 13:45	05/30/12 14:42	117-81-7	
Fluoranthene	ND ug/kg	342	1	05/29/12 13:45	05/30/12 14:42	206-44-0	
Fluorene	ND ug/kg	342	1	05/29/12 13:45	05/30/12 14:42	86-73-7	
Hexachloro-1,3-butadiene	ND ug/kg	342	1	05/29/12 13:45	05/30/12 14:42	87-68-3	
Hexachlorobenzene	ND ug/kg	342	1	05/29/12 13:45	05/30/12 14:42	118-74-1	
Hexachlorocyclopentadiene	ND ug/kg	342	1	05/29/12 13:45	05/30/12 14:42	77-47-4	
Hexachloroethane	ND ug/kg	342	1	05/29/12 13:45	05/30/12 14:42	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/kg	342	1	05/29/12 13:45	05/30/12 14:42	193-39-5	
Isophorone	ND ug/kg	342	1	05/29/12 13:45	05/30/12 14:42	78-59-1	
2-Methylnaphthalene	ND ug/kg	342	1	05/29/12 13:45	05/30/12 14:42	91-57-6	
2-Methylphenol(o-Cresol)	ND ug/kg	342	1	05/29/12 13:45	05/30/12 14:42	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND ug/kg	684	1	05/29/12 13:45	05/30/12 14:42		
Naphthalene	ND ug/kg	342	1	05/29/12 13:45	05/30/12 14:42	91-20-3	
2-Nitroaniline	ND ug/kg	855	1	05/29/12 13:45	05/30/12 14:42	88-74-4	
3-Nitroaniline	ND ug/kg	855	1	05/29/12 13:45	05/30/12 14:42	99-09-2	
4-Nitroaniline	ND ug/kg	855	1	05/29/12 13:45	05/30/12 14:42	100-01-6	
Nitrobenzene	ND ug/kg	342	1	05/29/12 13:45	05/30/12 14:42	98-95-3	
2-Nitrophenol	ND ug/kg	342	1	05/29/12 13:45	05/30/12 14:42	88-75-5	
4-Nitrophenol	ND ug/kg	342	1	05/29/12 13:45	05/30/12 14:42	100-02-7	
N-Nitroso-di-n-propylamine	ND ug/kg	342	1	05/29/12 13:45	05/30/12 14:42	621-64-7	
N-Nitrosodiphenylamine	ND ug/kg	342	1	05/29/12 13:45	05/30/12 14:42	86-30-6	
Pentachlorophenol	ND ug/kg	855	1	05/29/12 13:45	05/30/12 14:42	87-86-5	
Phenanthrene	ND ug/kg	342	1	05/29/12 13:45	05/30/12 14:42	85-01-8	
Phenol	ND ug/kg	342	1	05/29/12 13:45	05/30/12 14:42	108-95-2	
Pyrene	ND ug/kg	342	1	05/29/12 13:45	05/30/12 14:42	129-00-0	
1,2,4-Trichlorobenzene	ND ug/kg	342	1	05/29/12 13:45	05/30/12 14:42	120-82-1	
2,4,5-Trichlorophenol	ND ug/kg	855	1	05/29/12 13:45	05/30/12 14:42	95-95-4	
2,4,6-Trichlorophenol	ND ug/kg	342	1	05/29/12 13:45	05/30/12 14:42	88-06-2	

Surrogates

Nitrobenzene-d5 (S)	79 %	49-118	1	05/29/12 13:45	05/30/12 14:42	4165-60-0	
2-Fluorobiphenyl (S)	91 %	48-125	1	05/29/12 13:45	05/30/12 14:42	321-60-8	
Terphenyl-d14 (S)	93 %	29-159	1	05/29/12 13:45	05/30/12 14:42	1718-51-0	
Phenol-d6 (S)	23 %	30-130	1	05/29/12 13:45	05/30/12 14:42	13127-88-3	C0,S0
2-Fluorophenol (S)	1 %	25-138	1	05/29/12 13:45	05/30/12 14:42	367-12-4	C0,S0
2,4,6-Tribromophenol (S)	0 %	10-144	1	05/29/12 13:45	05/30/12 14:42	118-79-6	C0,S0

8270 MSSV TCLP

Analytical Method: EPA 8270 Preparation Method: EPA 3535

1,4-Dichlorobenzene	ND ug/L	500	1	05/29/12 10:00	05/29/12 23:53	106-46-7	
2,4-Dinitrotoluene	ND ug/L	100	1	05/29/12 10:00	05/29/12 23:53	121-14-2	
Hexachloro-1,3-butadiene	ND ug/L	100	1	05/29/12 10:00	05/29/12 23:53	87-68-3	
Hexachlorobenzene	ND ug/L	100	1	05/29/12 10:00	05/29/12 23:53	118-74-1	
Hexachloroethane	ND ug/L	500	1	05/29/12 10:00	05/29/12 23:53	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L	2000	1	05/29/12 10:00	05/29/12 23:53	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND ug/L	2000	1	05/29/12 10:00	05/29/12 23:53		

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ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-7 **Lab ID:** 3070020007 **Collected:** 05/21/12 11:40 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV TCLP Analytical Method: EPA 8270 Preparation Method: EPA 3535								
Nitrobenzene	ND ug/L		100	1	05/29/12 10:00	05/29/12 23:53	98-95-3	
Pentachlorophenol	ND ug/L		5000	1	05/29/12 10:00	05/29/12 23:53	87-86-5	
Pyridine	ND ug/L		500	1	05/29/12 10:00	05/29/12 23:53	110-86-1	
2,4,5-Trichlorophenol	ND ug/L		5000	1	05/29/12 10:00	05/29/12 23:53	95-95-4	
2,4,6-Trichlorophenol	ND ug/L		100	1	05/29/12 10:00	05/29/12 23:53	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	84 %		35-114	1	05/29/12 10:00	05/29/12 23:53	4165-60-0	
2-Fluorobiphenyl (S)	83 %		43-116	1	05/29/12 10:00	05/29/12 23:53	321-60-8	
Terphenyl-d14 (S)	80 %		33-141	1	05/29/12 10:00	05/29/12 23:53	1718-51-0	
Phenol-d6 (S)	84 %		10-110	1	05/29/12 10:00	05/29/12 23:53	13127-88-3	
2-Fluorophenol (S)	79 %		21-110	1	05/29/12 10:00	05/29/12 23:53	367-12-4	
2,4,6-Tribromophenol (S)	80 %		10-123	1	05/29/12 10:00	05/29/12 23:53	118-79-6	
8260 MSV 5030 Low Level Analytical Method: EPA 8260								
Acetone	25700 ug/kg		927	100		05/30/12 15:32	67-64-1	
Benzene	ND ug/kg		4.6	1		05/29/12 23:17	71-43-2	
Bromodichloromethane	ND ug/kg		4.6	1		05/29/12 23:17	75-27-4	
Bromoform	ND ug/kg		4.6	1		05/29/12 23:17	75-25-2	
Bromomethane	ND ug/kg		4.6	1		05/29/12 23:17	74-83-9	
TOTAL BTEX	ND ug/kg		27.7	1		05/29/12 23:17		
2-Butanone (MEK)	ND ug/kg		9.2	1		05/29/12 23:17	78-93-3	
Carbon disulfide	ND ug/kg		4.6	1		05/29/12 23:17	75-15-0	
Carbon tetrachloride	ND ug/kg		4.6	1		05/29/12 23:17	56-23-5	
Chlorobenzene	ND ug/kg		4.6	1		05/29/12 23:17	108-90-7	
Chloroethane	ND ug/kg		4.6	1		05/29/12 23:17	75-00-3	
Chloroform	ND ug/kg		4.6	1		05/29/12 23:17	67-66-3	
Chloromethane	ND ug/kg		4.6	1		05/29/12 23:17	74-87-3	
Dibromochloromethane	ND ug/kg		4.6	1		05/29/12 23:17	124-48-1	
1,2-Dichlorobenzene	ND ug/kg		4.6	1		05/29/12 23:17	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		4.6	1		05/29/12 23:17	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		4.6	1		05/29/12 23:17	106-46-7	
1,1-Dichloroethane	ND ug/kg		4.6	1		05/29/12 23:17	75-34-3	
1,2-Dichloroethane	ND ug/kg		4.6	1		05/29/12 23:17	107-06-2	
1,2-Dichloroethene (Total)	ND ug/kg		9.2	1		05/29/12 23:17	540-59-0	
1,1-Dichloroethene	ND ug/kg		4.6	1		05/29/12 23:17	75-35-4	
cis-1,2-Dichloroethene	ND ug/kg		4.6	1		05/29/12 23:17	156-59-2	
trans-1,2-Dichloroethene	ND ug/kg		4.6	1		05/29/12 23:17	156-60-5	
1,2-Dichloropropane	ND ug/kg		4.6	1		05/29/12 23:17	78-87-5	
cis-1,3-Dichloropropene	ND ug/kg		4.6	1		05/29/12 23:17	10061-01-5	
trans-1,3-Dichloropropene	ND ug/kg		4.6	1		05/29/12 23:17	10061-02-6	
Ethylbenzene	ND ug/kg		4.6	1		05/29/12 23:17	100-41-4	
2-Hexanone	ND ug/kg		9.2	1		05/29/12 23:17	591-78-6	
Methylene Chloride	ND ug/kg		4.6	1		05/29/12 23:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/kg		9.2	1		05/29/12 23:17	108-10-1	
Methyl-tert-butyl ether	ND ug/kg		4.6	1		05/29/12 23:17	1634-04-4	
Styrene	ND ug/kg		4.6	1		05/29/12 23:17	100-42-5	

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ANALYTICAL RESULTS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Sample: CS-7 **Lab ID:** 3070020007 **Collected:** 05/21/12 11:40 **Received:** 05/22/12 10:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
1,1,2,2-Tetrachloroethane	ND ug/kg		4.6	1		05/29/12 23:17	79-34-5	
Tetrachloroethene	ND ug/kg		4.6	1		05/29/12 23:17	127-18-4	
Toluene	ND ug/kg		4.6	1		05/29/12 23:17	108-88-3	
1,1,1-Trichloroethane	ND ug/kg		4.6	1		05/29/12 23:17	71-55-6	
1,1,2-Trichloroethane	ND ug/kg		4.6	1		05/29/12 23:17	79-00-5	
Trichloroethene	ND ug/kg		4.6	1		05/29/12 23:17	79-01-6	
Vinyl chloride	ND ug/kg		4.6	1		05/29/12 23:17	75-01-4	
Xylene (Total)	ND ug/kg		13.8	1		05/29/12 23:17	1330-20-7	
m&p-Xylene	ND ug/kg		9.2	1		05/29/12 23:17	179601-23-1	
o-Xylene	ND ug/kg		4.6	1		05/29/12 23:17	95-47-6	
Surrogates								
Toluene-d8 (S)	97 %		70-130	1		05/29/12 23:17	2037-26-5	
4-Bromofluorobenzene (S)	95 %		70-130	1		05/29/12 23:17	460-00-4	
1,2-Dichloroethane-d4 (S)	90 %		70-130	1		05/29/12 23:17	17060-07-0	
8260 MSV TCLP		Analytical Method: EPA 8260						
Benzene	ND ug/L		50.0	1		05/24/12 17:07	71-43-2	
2-Butanone (MEK)	ND ug/L		5000	1		05/24/12 17:07	78-93-3	
Carbon tetrachloride	ND ug/L		50.0	1		05/24/12 17:07	56-23-5	
Chlorobenzene	ND ug/L		1000	1		05/24/12 17:07	108-90-7	
Chloroform	ND ug/L		500	1		05/24/12 17:07	67-66-3	
1,2-Dichloroethane	ND ug/L		50.0	1		05/24/12 17:07	107-06-2	
1,1-Dichloroethene	ND ug/L		50.0	1		05/24/12 17:07	75-35-4	
Tetrachloroethene	ND ug/L		50.0	1		05/24/12 17:07	127-18-4	
Trichloroethene	ND ug/L		50.0	1		05/24/12 17:07	79-01-6	
Vinyl chloride	ND ug/L		50.0	1		05/24/12 17:07	75-01-4	
Surrogates								
1,2-Dichloroethane-d4 (S)	99 %		70-130	1		05/24/12 17:07	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		05/24/12 17:07	2037-26-5	
4-Bromofluorobenzene (S)	105 %		70-130	1		05/24/12 17:07	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	3.1 %		0.10	1		05/23/12 17:19		
1010 Flashpoint,Closed Cup		Analytical Method: EPA 1010						
Flashpoint	>200 deg F		60.0	1		05/23/12 20:50		
9045 pH Soil		Analytical Method: EPA 9045						
pH at 25 Degrees C	12.3 Std. Units		1.0	1		05/29/12 22:23		H1
733C S Reactive Cyanide		Analytical Method: SW-846 7.3.3.2						
Cyanide, Reactive	ND mg/kg		1.0	1		05/24/12 21:04		
735S Reactive Sulfide		Analytical Method: SW-846 7.3.4.2						
Sulfide, Reactive	ND mg/kg		10.3	1		05/23/12 17:55		

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QUALITY CONTROL DATA

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

QC Batch:	GCV/1727	Analysis Method:	EPA 8015B Modified
QC Batch Method:	EPA 5035A/5030B	Analysis Description:	Gasoline Range Organics
Associated Lab Samples:	3070020001, 3070020002, 3070020003, 3070020004, 3070020005, 3070020006, 3070020007		

METHOD BLANK:	446169	Matrix:	Solid
Associated Lab Samples:	3070020001, 3070020002, 3070020003, 3070020004, 3070020005, 3070020006, 3070020007		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	10.0	05/30/12 10:10	
TPH (C06-C10)	mg/kg	ND	10.0	05/30/12 10:10	
4-Bromofluorobenzene (S)	%	109	70-130	05/30/12 10:10	

LABORATORY CONTROL SAMPLE: 446170

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	50	48.3	97	70-130	
TPH (C06-C10)	mg/kg	50	50.2	100	70-130	
4-Bromofluorobenzene (S)	%			111	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 446333 446334

Parameter	Units	3070020001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Gasoline Range Organics	mg/kg	ND	49.9	49.9	56.6	62.3	102	113	70-130	10	
TPH (C06-C10)	mg/kg	ND	49.9	49.9	57.5	63.5	104	116	70-130	10	
4-Bromofluorobenzene (S)	%						126	98	70-130		

QUALITY CONTROL DATA

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

QC Batch:	MERP/3618	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury TCLP
Associated Lab Samples:	3070020001, 3070020002, 3070020003, 3070020004, 3070020005, 3070020006, 3070020007		

METHOD BLANK:	445655	Matrix:	Water
Associated Lab Samples:	3070020001, 3070020002, 3070020003, 3070020004, 3070020005, 3070020006, 3070020007		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	1.0	05/29/12 12:22	

LABORATORY CONTROL SAMPLE: 445656						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	.99J	99	85-115	

MATRIX SPIKE SAMPLE: 445658							
Parameter	Units	3070041001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	0.028U	2.5	3.0	120	85-115	

MATRIX SPIKE SAMPLE: 445660							
Parameter	Units	3070015001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	0.028U	2.5	3.1	123	85-115	M1

SAMPLE DUPLICATE: 445657					
Parameter	Units	3070041001 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	0.028U	ND		

SAMPLE DUPLICATE: 445659					
Parameter	Units	3070015001 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	0.028U	ND		

QUALITY CONTROL DATA

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

QC Batch:	MERP/3620	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury
Associated Lab Samples:	3070020001, 3070020002, 3070020003, 3070020004, 3070020005, 3070020006, 3070020007		

METHOD BLANK:	446241	Matrix:	Solid
Associated Lab Samples:	3070020001, 3070020002, 3070020003, 3070020004, 3070020005, 3070020006, 3070020007		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.10	05/30/12 09:27	

LABORATORY CONTROL SAMPLE: 446242						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.042	.042J	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 446244											446245	
Parameter	Units	3069851011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual	
Mercury	mg/kg	ND	.12	.12	0.14	0.15	91	95	75-125	7		

SAMPLE DUPLICATE: 446243						
Parameter	Units	3069851011 Result	Dup Result	RPD	Qualifiers	
Mercury	mg/kg	ND	.029J			

QUALITY CONTROL DATA

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

QC Batch:	MPRP/8376	Analysis Method:	EPA 6010B
QC Batch Method:	EPA 3050	Analysis Description:	6010 MET
Associated Lab Samples: 3070020001, 3070020002, 3070020003, 3070020004, 3070020005, 3070020006, 3070020007			

METHOD BLANK:	446210	Matrix:	Solid
Associated Lab Samples: 3070020001, 3070020002, 3070020003, 3070020004, 3070020005, 3070020006, 3070020007			

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	mg/kg	ND	10.0	05/30/12 08:36	
Antimony	mg/kg	ND	0.60	05/30/12 08:36	
Arsenic	mg/kg	ND	0.50	05/30/12 08:36	
Barium	mg/kg	ND	2.0	05/30/12 08:36	
Beryllium	mg/kg	ND	0.20	05/30/12 08:36	
Boron	mg/kg	ND	5.0	05/30/12 08:36	
Cadmium	mg/kg	ND	0.30	05/30/12 08:36	
Calcium	mg/kg	ND	200	05/30/12 08:36	
Chromium	mg/kg	ND	0.50	05/30/12 08:36	
Cobalt	mg/kg	ND	1.0	05/30/12 08:36	
Copper	mg/kg	ND	1.0	05/30/12 08:36	
Iron	mg/kg	ND	10.0	05/30/12 08:36	
Lead	mg/kg	ND	0.50	05/30/12 08:36	
Magnesium	mg/kg	ND	50.0	05/30/12 08:36	
Manganese	mg/kg	ND	1.0	05/30/12 08:36	
Molybdenum	mg/kg	ND	2.0	05/30/12 08:36	
Nickel	mg/kg	ND	2.0	05/30/12 08:36	
Potassium	mg/kg	ND	50.0	05/30/12 08:36	
Selenium	mg/kg	ND	0.80	05/30/12 08:36	
Silver	mg/kg	ND	0.60	05/30/12 08:36	
Sodium	mg/kg	ND	500	05/30/12 08:36	
Thallium	mg/kg	ND	2.0	05/30/12 08:36	
Vanadium	mg/kg	ND	1.0	05/30/12 08:36	
Zinc	mg/kg	ND	1.0	05/30/12 08:36	

LABORATORY CONTROL SAMPLE: 446211

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/kg	500	508	102	80-120	
Antimony	mg/kg	50	49.9	100	80-120	
Arsenic	mg/kg	50	49.8	100	80-120	
Barium	mg/kg	50	51.9	104	80-120	
Beryllium	mg/kg	50	52.6	105	80-120	
Boron	mg/kg	50	49.1	98	80-120	
Cadmium	mg/kg	50	50.5	101	80-120	
Calcium	mg/kg	500	514	103	80-120	
Chromium	mg/kg	50	51.0	102	80-120	
Cobalt	mg/kg	50	49.4	99	80-120	
Copper	mg/kg	50	52.1	104	80-120	
Iron	mg/kg	500	515	103	80-120	
Lead	mg/kg	50	48.7	97	80-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

LABORATORY CONTROL SAMPLE: 446211

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium	mg/kg	500	500	100	80-120	
Manganese	mg/kg	50	50.5	101	80-120	
Molybdenum	mg/kg	50	52.6	105	80-120	
Nickel	mg/kg	50	51.9	104	80-120	
Potassium	mg/kg	500	562	112	80-120	
Selenium	mg/kg	50	48.8	98	80-120	
Silver	mg/kg	25	24.9	100	80-120	
Sodium	mg/kg	500	496J	99	80-120	
Thallium	mg/kg	50	47.7	95	80-120	
Vanadium	mg/kg	50	50.5	101	80-120	
Zinc	mg/kg	50	49.9	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 446222 446223

Parameter	Units	3069851011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Aluminum	mg/kg	13100	416	416	15100	15800	478	638	80-120	4	M1
Antimony	mg/kg	ND	41.6	41.6	14.9	14.5	36	35	80-120	3	M1
Arsenic	mg/kg	3.7	41.6	41.6	40.4	40.2	88	88	80-120	.4	
Barium	mg/kg	31.6	41.6	41.6	80.6	81.9	118	121	80-120	2	M1
Beryllium	mg/kg	0.66	41.6	41.6	38.0	37.7	90	89	80-120	.8	
Boron	mg/kg	ND	41.6	41.6	34.1	33.4	80	79	80-120	2	M1
Cadmium	mg/kg	ND	41.6	41.6	36.3	36.1	87	87	80-120	.6	
Calcium	mg/kg	592	416	416	1040	964	107	89	80-120	8	
Chromium	mg/kg	15.5	41.6	41.6	55.7	56.0	97	97	80-120	.5	
Cobalt	mg/kg	8.5	41.6	41.6	48.3	48.6	95	96	80-120	.7	
Copper	mg/kg	8.0	41.6	41.6	44.4	43.2	87	84	80-120	3	
Iron	mg/kg	13800	416	416	14500	14800	163	239	80-120	2	M1
Lead	mg/kg	9.4	41.6	41.6	52.4	52.1	103	102	80-120	.7	
Magnesium	mg/kg	4750	416	416	3390	3190	-327	-374	80-120	6	M1
Manganese	mg/kg	187	41.6	41.6	210	207	56	49	80-120	1	M1
Molybdenum	mg/kg	ND	41.6	41.6	45.9	45.9	108	108	80-120	.1	
Nickel	mg/kg	15.3	41.6	41.6	45.9	45.2	73	72	80-120	2	M1
Potassium	mg/kg	894	416	416	1430	1350	129	110	80-120	6	M1
Selenium	mg/kg	1.1	41.6	41.6	36.3	35.6	85	83	80-120	2	
Silver	mg/kg	ND	20.9	20.9	18.2	17.8	88	85	80-120	2	
Sodium	mg/kg	ND	416	416	476	475	98	98	80-120	.1	
Thallium	mg/kg	ND	41.6	41.6	39.9	39.9	96	96	80-120	0	
Vanadium	mg/kg	19.2	41.6	41.6	66.1	66.1	113	113	80-120	.01	
Zinc	mg/kg	28.4	41.6	41.6	59.3	58.2	74	72	80-120	2	M1

SAMPLE DUPLICATE: 446221

Parameter	Units	3069851011 Result	Dup Result	RPD	Qualifiers
Aluminum	mg/kg	13100	13900	5	

QUALITY CONTROL DATA

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

SAMPLE DUPLICATE: 446221

Parameter	Units	3069851011 Result	Dup Result	RPD	Qualifiers
Antimony	mg/kg	ND	ND		
Arsenic	mg/kg	3.7	4.9	29	D6
Barium	mg/kg	31.6	41.0	26	D6
Beryllium	mg/kg	0.66	0.55	17	
Boron	mg/kg	ND	.88J		
Cadmium	mg/kg	ND	ND		
Calcium	mg/kg	592	550	7	
Chromium	mg/kg	15.5	18.1	16	
Cobalt	mg/kg	8.5	6.0	34	D6
Copper	mg/kg	8.0	8.3	3	
Iron	mg/kg	13800	13900	.3	
Lead	mg/kg	9.4	9.5	.4	
Magnesium	mg/kg	4750	2830	51	D6
Manganese	mg/kg	187	189	1	
Molybdenum	mg/kg	ND	.83J		
Nickel	mg/kg	15.3	9.6	45	D6
Potassium	mg/kg	894	1020	14	
Selenium	mg/kg	1.1	0.91	15	
Silver	mg/kg	ND	ND		
Sodium	mg/kg	ND	80.5J		
Thallium	mg/kg	ND	ND		
Vanadium	mg/kg	19.2	26.4	32	D6
Zinc	mg/kg	28.4	22.3	24	D6

QUALITY CONTROL DATA

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

QC Batch:	MPRP/8365	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3005	Analysis Description:	6010 MET TCLP
Associated Lab Samples:	3070020001, 3070020002, 3070020003, 3070020004, 3070020005, 3070020006, 3070020007		

METHOD BLANK:	445624	Matrix:	Water
Associated Lab Samples:	3070020001, 3070020002, 3070020003, 3070020004, 3070020005, 3070020006, 3070020007		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.050	05/29/12 19:00	
Barium	mg/L	ND	1.0	05/29/12 19:00	
Cadmium	mg/L	ND	0.050	05/29/12 19:00	
Chromium	mg/L	ND	0.050	05/29/12 19:00	
Lead	mg/L	ND	0.050	05/29/12 19:00	
Selenium	mg/L	ND	0.10	05/29/12 19:00	
Silver	mg/L	ND	0.050	05/29/12 19:00	

LABORATORY CONTROL SAMPLE: 445625

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	.5	0.47	94	80-120	
Barium	mg/L	.5	.48J	95	80-120	
Cadmium	mg/L	.5	0.48	96	80-120	
Chromium	mg/L	.5	0.47	95	80-120	
Lead	mg/L	.5	0.46	93	80-120	
Selenium	mg/L	.5	0.48	96	80-120	
Silver	mg/L	.25	0.25	98	80-120	

MATRIX SPIKE SAMPLE: 445627

Parameter	Units	3070041001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.0014J	.5	0.55	110	80-120	
Barium	mg/L	0.28J	.5	.76J	98	80-120	
Cadmium	mg/L	0.00023J	.5	0.54	107	80-120	
Chromium	mg/L	0.14	.5	0.63	98	80-120	
Lead	mg/L	0.00070U	.5	0.51	101	80-120	
Selenium	mg/L	0.016J	.5	0.58	113	80-120	
Silver	mg/L	0.00025U	.25	0.27	109	80-120	

SAMPLE DUPLICATE: 445626

Parameter	Units	3070041001 Result	Dup Result	RPD	Qualifiers
Arsenic	mg/L	0.0014J	ND		
Barium	mg/L	0.28J	.27J		
Cadmium	mg/L	0.00023J	ND		
Chromium	mg/L	0.14	0.14	1	
Lead	mg/L	0.00070U	.0022J		

QUALITY CONTROL DATA

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

SAMPLE DUPLICATE: 445626

Parameter	Units	3070041001 Result	Dup Result	RPD	Qualifiers
Selenium	mg/L	0.016J	.016J		
Silver	mg/L	0.00025U	ND		

QUALITY CONTROL DATA

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

QC Batch:	MSV/12857	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV 5035 Low
Associated Lab Samples:	3070020001, 3070020002, 3070020003, 3070020004, 3070020005, 3070020006, 3070020007		

METHOD BLANK:	446359	Matrix:	Solid
Associated Lab Samples:	3070020001, 3070020002, 3070020003, 3070020004, 3070020005, 3070020006, 3070020007		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	5.0	05/29/12 18:01	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	05/29/12 18:01	
1,1,2-Trichloroethane	ug/kg	ND	5.0	05/29/12 18:01	
1,1-Dichloroethane	ug/kg	ND	5.0	05/29/12 18:01	
1,1-Dichloroethene	ug/kg	ND	5.0	05/29/12 18:01	
1,2-Dichlorobenzene	ug/kg	ND	5.0	05/29/12 18:01	
1,2-Dichloroethane	ug/kg	ND	5.0	05/29/12 18:01	
1,2-Dichloropropane	ug/kg	ND	5.0	05/29/12 18:01	
1,3-Dichlorobenzene	ug/kg	ND	5.0	05/29/12 18:01	
1,4-Dichlorobenzene	ug/kg	ND	5.0	05/29/12 18:01	
2-Butanone (MEK)	ug/kg	ND	10.0	05/29/12 18:01	
2-Hexanone	ug/kg	ND	10.0	05/29/12 18:01	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	05/29/12 18:01	
Acetone	ug/kg	ND	10.0	05/29/12 18:01	
Benzene	ug/kg	ND	5.0	05/29/12 18:01	
Bromodichloromethane	ug/kg	ND	5.0	05/29/12 18:01	
Bromoform	ug/kg	ND	5.0	05/29/12 18:01	
Bromomethane	ug/kg	ND	5.0	05/29/12 18:01	
Carbon disulfide	ug/kg	ND	5.0	05/29/12 18:01	
Carbon tetrachloride	ug/kg	ND	5.0	05/29/12 18:01	
Chlorobenzene	ug/kg	ND	5.0	05/29/12 18:01	
Chloroethane	ug/kg	ND	5.0	05/29/12 18:01	
Chloroform	ug/kg	ND	5.0	05/29/12 18:01	
Chloromethane	ug/kg	ND	5.0	05/29/12 18:01	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	05/29/12 18:01	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	05/29/12 18:01	
Dibromochloromethane	ug/kg	ND	5.0	05/29/12 18:01	
Ethylbenzene	ug/kg	ND	5.0	05/29/12 18:01	
m&p-Xylene	ug/kg	ND	10.0	05/29/12 18:01	
Methyl-tert-butyl ether	ug/kg	ND	5.0	05/29/12 18:01	
Methylene Chloride	ug/kg	ND	5.0	05/29/12 18:01	
o-Xylene	ug/kg	ND	5.0	05/29/12 18:01	
Styrene	ug/kg	ND	5.0	05/29/12 18:01	
Tetrachloroethene	ug/kg	ND	5.0	05/29/12 18:01	
Toluene	ug/kg	ND	5.0	05/29/12 18:01	
TOTAL BTEX	ug/kg	ND	30.0	05/29/12 18:01	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	05/29/12 18:01	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	05/29/12 18:01	
Trichloroethene	ug/kg	ND	5.0	05/29/12 18:01	
Vinyl chloride	ug/kg	ND	5.0	05/29/12 18:01	
Xylene (Total)	ug/kg	ND	15.0	05/29/12 18:01	
1,2-Dichloroethane-d4 (S)	%	94	70-130	05/29/12 18:01	
4-Bromofluorobenzene (S)	%	100	70-130	05/29/12 18:01	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

METHOD BLANK: 446359

Matrix: Solid

Associated Lab Samples: 3070020001, 3070020002, 3070020003, 3070020004, 3070020005, 3070020006, 3070020007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene-d8 (S)	%	96	70-130	05/29/12 18:01	

LABORATORY CONTROL SAMPLE: 446360

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	20	16.9	85	55-141	
1,1,2,2-Tetrachloroethane	ug/kg	20	16.5	82	58-124	
1,1,2-Trichloroethane	ug/kg	20	16.5	83	70-118	
1,1-Dichloroethane	ug/kg	20	17.4	87	64-127	
1,1-Dichloroethene	ug/kg	20	17.1	86	50-133	
1,2-Dichlorobenzene	ug/kg	20	16.8	84	67-122	
1,2-Dichloroethane	ug/kg	20	15.7	78	54-132	
1,2-Dichloropropane	ug/kg	20	17.1	86	68-112	
1,3-Dichlorobenzene	ug/kg	20	16.8	84	65-127	
1,4-Dichlorobenzene	ug/kg	20	16.9	85	66-127	
2-Butanone (MEK)	ug/kg	20	21.8	109	54-135	
2-Hexanone	ug/kg	20	19.8	99	58-148	
4-Methyl-2-pentanone (MIBK)	ug/kg	20	20.0	100	55-142	
Acetone	ug/kg	20	52.9	264	39-200	L0
Benzene	ug/kg	20	18.2	91	65-130	
Bromodichloromethane	ug/kg	20	15.5	78	57-125	
Bromoform	ug/kg	20	15.6	78	53-121	
Bromomethane	ug/kg	20	14.3	71	30-167	
Carbon disulfide	ug/kg	20	25.0	125	49-150	
Carbon tetrachloride	ug/kg	20	16.7	83	47-146	
Chlorobenzene	ug/kg	20	16.5	83	67-124	
Chloroethane	ug/kg	20	19.1	95	34-170	
Chloroform	ug/kg	20	16.3	82	63-128	
Chloromethane	ug/kg	20	24.5	123	39-159	
cis-1,2-Dichloroethene	ug/kg	20	16.5	82	64-126	
cis-1,3-Dichloropropene	ug/kg	20	17.3	86	66-124	
Dibromochloromethane	ug/kg	20	15.1	75	56-122	
Ethylbenzene	ug/kg	20	17.2	86	65-131	
m&p-Xylene	ug/kg	40	35.2	88	63-136	
Methyl-tert-butyl ether	ug/kg	20	20.2	101	71-130	
Methylene Chloride	ug/kg	20	18.9	95	45-136	
o-Xylene	ug/kg	20	16.7	84	68-129	
Styrene	ug/kg	20	17.0	85	64-122	
Tetrachloroethene	ug/kg	20	17.1	85	61-138	
Toluene	ug/kg	20	17.1	86	63-132	
TOTAL BTEX	ug/kg		104			
trans-1,2-Dichloroethene	ug/kg	20	16.5	82	60-130	
trans-1,3-Dichloropropene	ug/kg	20	15.3	76	58-116	
Trichloroethene	ug/kg	20	17.5	88	65-131	
Vinyl chloride	ug/kg	20	21.0	105	49-149	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

LABORATORY CONTROL SAMPLE: 446360

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/kg	60	52.0	87	65-134	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			99	70-130	

QUALITY CONTROL DATA

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

QC Batch:	MSV/12827	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV TCLP
Associated Lab Samples:	3070020001, 3070020002, 3070020003, 3070020004, 3070020005, 3070020006, 3070020007		

METHOD BLANK:	444788	Matrix:	Water
Associated Lab Samples:	3070020001, 3070020002, 3070020003, 3070020004, 3070020005, 3070020006, 3070020007		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	50.0	05/24/12 12:11	
1,2-Dichloroethane	ug/L	ND	50.0	05/24/12 12:11	
2-Butanone (MEK)	ug/L	ND	5000	05/24/12 12:11	
Benzene	ug/L	ND	50.0	05/24/12 12:11	
Carbon tetrachloride	ug/L	ND	50.0	05/24/12 12:11	
Chlorobenzene	ug/L	ND	1000	05/24/12 12:11	
Chloroform	ug/L	ND	500	05/24/12 12:11	
Tetrachloroethene	ug/L	ND	50.0	05/24/12 12:11	
Trichloroethene	ug/L	ND	50.0	05/24/12 12:11	
Vinyl chloride	ug/L	ND	50.0	05/24/12 12:11	
1,2-Dichloroethane-d4 (S)	%	99	70-130	05/24/12 12:11	
4-Bromofluorobenzene (S)	%	101	70-130	05/24/12 12:11	
Toluene-d8 (S)	%	101	70-130	05/24/12 12:11	

LABORATORY CONTROL SAMPLE: 444789

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	200	182	91	70-130	
1,2-Dichloroethane	ug/L	200	187	93	70-130	
2-Butanone (MEK)	ug/L	200	238J	119	70-130	
Benzene	ug/L	200	186	93	70-130	
Carbon tetrachloride	ug/L	200	183	92	70-130	
Chlorobenzene	ug/L	200	176J	88	70-130	
Chloroform	ug/L	200	181J	90	70-130	
Tetrachloroethene	ug/L	200	176	88	70-130	
Trichloroethene	ug/L	200	173	87	70-130	
Vinyl chloride	ug/L	200	194	97	70-130	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			98	70-130	

QUALITY CONTROL DATA

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

QC Batch: OEXT/11568 Analysis Method: EPA 8015B Modified
QC Batch Method: EPA 3546 Analysis Description: 8015 Solid GCSV
Associated Lab Samples: 3070020001, 3070020002, 3070020003, 3070020004, 3070020005, 3070020006, 3070020007

METHOD BLANK: 445975 Matrix: Solid

Associated Lab Samples: 3070020001, 3070020002, 3070020003, 3070020004, 3070020005, 3070020006, 3070020007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Components	mg/kg	ND	6.7	05/29/12 20:23	
o-Terphenyl (S)	%	56	50-150	05/29/12 20:23	

LABORATORY CONTROL SAMPLE: 445976

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Components	mg/kg	66.7	60.0	90	50-150	
o-Terphenyl (S)	%			77	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 445977 445978

Parameter	Units	3070020002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Diesel Components	mg/kg	2380	68.4	69.1	2410	2260	57	-162	50-150	6	3c
o-Terphenyl (S)	%						0	0	50-150		6c

QUALITY CONTROL DATA

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

QC Batch:	OEXT/11558	Analysis Method:	EPA 8081
QC Batch Method:	EPA 3546	Analysis Description:	8081 GCS Pesticides
Associated Lab Samples:	3070020001, 3070020002, 3070020003, 3070020004, 3070020005, 3070020006, 3070020007		

METHOD BLANK:	445338	Matrix:	Solid
Associated Lab Samples:	3070020001, 3070020002, 3070020003, 3070020004, 3070020005, 3070020006, 3070020007		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4,4'-DDD	ug/kg	ND	3.3	05/29/12 16:39	
4,4'-DDE	ug/kg	ND	3.3	05/29/12 16:39	
4,4'-DDT	ug/kg	ND	3.3	05/29/12 16:39	
Aldrin	ug/kg	ND	1.7	05/29/12 16:39	
alpha-BHC	ug/kg	ND	1.7	05/29/12 16:39	
alpha-Chlordane	ug/kg	ND	1.7	05/29/12 16:39	
beta-BHC	ug/kg	ND	1.7	05/29/12 16:39	
delta-BHC	ug/kg	ND	1.7	05/29/12 16:39	5c
Dieldrin	ug/kg	ND	3.3	05/29/12 16:39	
Endosulfan I	ug/kg	ND	1.7	05/29/12 16:39	
Endosulfan II	ug/kg	ND	3.3	05/29/12 16:39	
Endosulfan sulfate	ug/kg	ND	3.3	05/29/12 16:39	
Endrin	ug/kg	ND	3.3	05/29/12 16:39	
Endrin aldehyde	ug/kg	ND	3.3	05/29/12 16:39	
Endrin ketone	ug/kg	ND	3.3	05/29/12 16:39	
gamma-BHC (Lindane)	ug/kg	ND	1.7	05/29/12 16:39	
gamma-Chlordane	ug/kg	ND	1.7	05/29/12 16:39	
Heptachlor	ug/kg	ND	1.7	05/29/12 16:39	
Heptachlor epoxide	ug/kg	ND	1.7	05/29/12 16:39	
Methoxychlor	ug/kg	ND	16.7	05/29/12 16:39	
Toxaphene	ug/kg	ND	16.7	05/29/12 16:39	
Decachlorobiphenyl (S)	%	80	30-150	05/29/12 16:39	
Tetrachloro-m-xylene (S)	%	75	30-150	05/29/12 16:39	

LABORATORY CONTROL SAMPLE: 445339

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4,4'-DDD	ug/kg	26.7	23.8	89	36-164	
4,4'-DDE	ug/kg	26.7	22.6	85	44-156	
4,4'-DDT	ug/kg	26.7	22.7	85	51-149	
Aldrin	ug/kg	26.7	21.6	81	63-137	
alpha-BHC	ug/kg	26.7	23.5	88	54-146	
alpha-Chlordane	ug/kg	26.7	21.9	82	50-150	
beta-BHC	ug/kg	26.7	20.8	78	51-149	
delta-BHC	ug/kg	26.7	23.1	87	50-150	5c
Dieldrin	ug/kg	26.7	23.7	89	51-149	
Endosulfan I	ug/kg	26.7	21.4	80	55-145	
Endosulfan II	ug/kg	26.7	22.3	84	44-156	
Endosulfan sulfate	ug/kg	26.7	21.3	80	31-169	
Endrin	ug/kg	26.7	23.7	89	48-152	
Endrin aldehyde	ug/kg	26.7	31.6	119	32-168	

QUALITY CONTROL DATA

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

LABORATORY CONTROL SAMPLE: 445339

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Endrin ketone	ug/kg	26.7	21.9	82	50-150	
gamma-BHC (Lindane)	ug/kg	26.7	24.6	92	50-150	
gamma-Chlordane	ug/kg	26.7	21.5	81	50-150	
Heptachlor	ug/kg	26.7	21.7	81	47-153	
Heptachlor epoxide	ug/kg	26.7	21.5	80	58-142	
Methoxychlor	ug/kg	26.7	24.1	90	50-150	
Decachlorobiphenyl (S)	%			77	30-150	
Tetrachloro-m-xylene (S)	%			71	30-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 445343

445344

Parameter	Units	3070020001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
4,4'-DDD	ug/kg				31.8	22.3				35	
4,4'-DDE	ug/kg				21.3	19.5				9	
4,4'-DDT	ug/kg	ND	27.6	27.9	20.9	21.2	76	76	51-149	2	
Aldrin	ug/kg	ND	27.6	27.9	21.9	18.2	79	65	63-137	18	
alpha-BHC	ug/kg			27.9	28.0	24.2		87			
alpha-Chlordane	ug/kg	ND	27.6	27.9	19.6	17.0	71	61	50-150	14	
beta-BHC	ug/kg	ND	27.6	27.9	23.6	15.6	86	56	51-149	41	R1
delta-BHC	ug/kg	ND	27.6		21.2	20.1	76		50-150	5c	
Dieldrin	ug/kg	ND	27.6	27.9	29.7	21.8	98	69	51-149	31	R1
Endosulfan I	ug/kg	3.1	27.6	27.9	15.4	14.2	44	40	55-145	8	M3
Endosulfan II	ug/kg	ND	27.6	27.9	17.4	12.1	63	43	44-156	36	M3,R1
Endosulfan sulfate	ug/kg			27.9	18.7	20.4		73			
Endrin	ug/kg				23.5	21.5				9	
Endrin aldehyde	ug/kg				28.1	27.4				3	
Endrin ketone	ug/kg			27.9	30.0	25.4		91			
gamma-BHC (Lindane)	ug/kg	ND	27.6	27.9	25.2	21.7	92	78	50-150	15	
gamma-Chlordane	ug/kg	ND	27.6	27.9	21.8	17.9	79	64	50-150	20	
Heptachlor	ug/kg			27.9	24.4	21.3		76			
Heptachlor epoxide	ug/kg	ND	27.6	27.9	25.5	18.1	92	65	58-142	34	R1
Methoxychlor	ug/kg	ND	27.6		27.5	23.8	42		50-150	M3	
Decachlorobiphenyl (S)	%						64	68	30-150		
Tetrachloro-m-xylene (S)	%						78	71	30-150		

QUALITY CONTROL DATA

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

QC Batch:	OEXT/11552	Analysis Method:	EPA 8081
QC Batch Method:	EPA 3510	Analysis Description:	8081 GCS TCLP Pesticides
Associated Lab Samples:	3070020001, 3070020002, 3070020003, 3070020004, 3070020005, 3070020006, 3070020007		

METHOD BLANK:	445277	Matrix:	Water
Associated Lab Samples:	3070020001, 3070020002, 3070020003, 3070020004, 3070020005, 3070020006, 3070020007		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chlordane (Technical)	ug/L	ND	10.0	05/29/12 22:35	
Endrin	ug/L	ND	1.0	05/29/12 22:35	
gamma-BHC (Lindane)	ug/L	ND	10.0	05/29/12 22:35	
Heptachlor epoxide	ug/L	ND	0.50	05/29/12 22:35	
Methoxychlor	ug/L	ND	100	05/29/12 22:35	
Toxaphene	ug/L	ND	50.0	05/29/12 22:35	
Decachlorobiphenyl (S)	%	77	30-150	05/29/12 22:35	
Tetrachloro-m-xylene (S)	%	80	30-150	05/29/12 22:35	

LABORATORY CONTROL SAMPLE: 445278

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Endrin	ug/L	1.6	1.6	101	57-112	
gamma-BHC (Lindane)	ug/L	1.6	1.9J	122	66-118	4c
Heptachlor epoxide	ug/L	1.6	1.5	92	66-114	
Methoxychlor	ug/L	1.6	1.7J	104	50-150	
Decachlorobiphenyl (S)	%			82	30-150	
Tetrachloro-m-xylene (S)	%			92	30-150	

QUALITY CONTROL DATA

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

QC Batch:	OEXT/11559	Analysis Method:	EPA 8082
QC Batch Method:	EPA 3546	Analysis Description:	8082 GCS PCB
Associated Lab Samples:	3070020001, 3070020002, 3070020003, 3070020004, 3070020005, 3070020006, 3070020007		

METHOD BLANK:	445350	Matrix:	Solid
Associated Lab Samples:	3070020001, 3070020002, 3070020003, 3070020004, 3070020005, 3070020006, 3070020007		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	16.7	05/29/12 23:07	
PCB-1221 (Aroclor 1221)	ug/kg	ND	16.7	05/29/12 23:07	
PCB-1232 (Aroclor 1232)	ug/kg	ND	16.7	05/29/12 23:07	
PCB-1242 (Aroclor 1242)	ug/kg	ND	16.7	05/29/12 23:07	
PCB-1248 (Aroclor 1248)	ug/kg	ND	16.7	05/29/12 23:07	
PCB-1254 (Aroclor 1254)	ug/kg	ND	16.7	05/29/12 23:07	
PCB-1260 (Aroclor 1260)	ug/kg	ND	16.7	05/29/12 23:07	
Decachlorobiphenyl (S)	%	89	30-150	05/29/12 23:07	
Tetrachloro-m-xylene (S)	%	82	30-150	05/29/12 23:07	

LABORATORY CONTROL SAMPLE: 445351

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1232 (Aroclor 1232)	ug/kg	167	120	72	55-145	
Decachlorobiphenyl (S)	%			72	30-150	
Tetrachloro-m-xylene (S)	%			74	30-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 445352 445353

Parameter	Units	3070020002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
PCB-1232 (Aroclor 1232)	ug/kg	ND	171	173	91.5	109	54	63	55-145	17	1c
Decachlorobiphenyl (S)	%						55	67	30-150		
Tetrachloro-m-xylene (S)	%						63	71	30-150		

QUALITY CONTROL DATA

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

QC Batch:	OEXT/11573	Analysis Method:	EPA 8270
QC Batch Method:	EPA 3546	Analysis Description:	8270 Solid MSSV Microwave
Associated Lab Samples:	3070020001, 3070020002, 3070020003, 3070020004, 3070020005, 3070020006, 3070020007		

METHOD BLANK:	445994	Matrix:	Solid
Associated Lab Samples:	3070020001, 3070020002, 3070020003, 3070020004, 3070020005, 3070020006, 3070020007		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	333	05/30/12 11:40	
1,2-Dichlorobenzene	ug/kg	ND	333	05/30/12 11:40	
1,3-Dichlorobenzene	ug/kg	ND	333	05/30/12 11:40	
1,4-Dichlorobenzene	ug/kg	ND	333	05/30/12 11:40	
2,4,5-Trichlorophenol	ug/kg	ND	833	05/30/12 11:40	
2,4,6-Trichlorophenol	ug/kg	ND	333	05/30/12 11:40	
2,4-Dichlorophenol	ug/kg	ND	333	05/30/12 11:40	
2,4-Dimethylphenol	ug/kg	ND	333	05/30/12 11:40	
2,4-Dinitrophenol	ug/kg	ND	833	05/30/12 11:40	
2,4-Dinitrotoluene	ug/kg	ND	333	05/30/12 11:40	
2,6-Dinitrotoluene	ug/kg	ND	333	05/30/12 11:40	
2-Chloronaphthalene	ug/kg	ND	333	05/30/12 11:40	
2-Chlorophenol	ug/kg	ND	333	05/30/12 11:40	
2-Methylnaphthalene	ug/kg	ND	333	05/30/12 11:40	
2-Methylphenol(o-Cresol)	ug/kg	ND	333	05/30/12 11:40	
2-Nitroaniline	ug/kg	ND	833	05/30/12 11:40	
2-Nitrophenol	ug/kg	ND	333	05/30/12 11:40	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	666	05/30/12 11:40	
3,3'-Dichlorobenzidine	ug/kg	ND	333	05/30/12 11:40	
3-Nitroaniline	ug/kg	ND	833	05/30/12 11:40	
4,6-Dinitro-2-methylphenol	ug/kg	ND	833	05/30/12 11:40	
4-Bromophenylphenyl ether	ug/kg	ND	333	05/30/12 11:40	
4-Chloro-3-methylphenol	ug/kg	ND	333	05/30/12 11:40	
4-Chloroaniline	ug/kg	ND	333	05/30/12 11:40	
4-Chlorophenylphenyl ether	ug/kg	ND	333	05/30/12 11:40	
4-Nitroaniline	ug/kg	ND	833	05/30/12 11:40	
4-Nitrophenol	ug/kg	ND	333	05/30/12 11:40	
Acenaphthene	ug/kg	ND	333	05/30/12 11:40	
Acenaphthylene	ug/kg	ND	333	05/30/12 11:40	
Anthracene	ug/kg	ND	333	05/30/12 11:40	
Benzo(a)anthracene	ug/kg	ND	333	05/30/12 11:40	
Benzo(a)pyrene	ug/kg	ND	333	05/30/12 11:40	
Benzo(b)fluoranthene	ug/kg	ND	333	05/30/12 11:40	
Benzo(g,h,i)perylene	ug/kg	ND	333	05/30/12 11:40	
Benzo(k)fluoranthene	ug/kg	ND	333	05/30/12 11:40	
Benzyl alcohol	ug/kg	ND	333	05/30/12 11:40	
bis(2-Chloroethoxy)methane	ug/kg	ND	333	05/30/12 11:40	
bis(2-Chloroethyl) ether	ug/kg	ND	333	05/30/12 11:40	
bis(2-Chloroisopropyl) ether	ug/kg	ND	333	05/30/12 11:40	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	333	05/30/12 11:40	
Butylbenzylphthalate	ug/kg	ND	333	05/30/12 11:40	
Chrysene	ug/kg	ND	333	05/30/12 11:40	
Di-n-butylphthalate	ug/kg	ND	333	05/30/12 11:40	

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QUALITY CONTROL DATA

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

METHOD BLANK: 445994

Matrix: Solid

Associated Lab Samples: 3070020001, 3070020002, 3070020003, 3070020004, 3070020005, 3070020006, 3070020007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Di-n-octylphthalate	ug/kg	ND	333	05/30/12 11:40	
Dibenz(a,h)anthracene	ug/kg	ND	333	05/30/12 11:40	
Dibenzofuran	ug/kg	ND	333	05/30/12 11:40	
Diethylphthalate	ug/kg	ND	333	05/30/12 11:40	
Dimethylphthalate	ug/kg	ND	333	05/30/12 11:40	
Fluoranthene	ug/kg	ND	333	05/30/12 11:40	
Fluorene	ug/kg	ND	333	05/30/12 11:40	
Hexachloro-1,3-butadiene	ug/kg	ND	333	05/30/12 11:40	
Hexachlorobenzene	ug/kg	ND	333	05/30/12 11:40	
Hexachlorocyclopentadiene	ug/kg	ND	333	05/30/12 11:40	
Hexachloroethane	ug/kg	ND	333	05/30/12 11:40	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	333	05/30/12 11:40	
Isophorone	ug/kg	ND	333	05/30/12 11:40	
N-Nitroso-di-n-propylamine	ug/kg	ND	333	05/30/12 11:40	
N-Nitrosodiphenylamine	ug/kg	ND	333	05/30/12 11:40	
Naphthalene	ug/kg	ND	333	05/30/12 11:40	
Nitrobenzene	ug/kg	ND	333	05/30/12 11:40	
Pentachlorophenol	ug/kg	ND	833	05/30/12 11:40	
Phenanthrene	ug/kg	ND	333	05/30/12 11:40	
Phenol	ug/kg	ND	333	05/30/12 11:40	
Pyrene	ug/kg	ND	333	05/30/12 11:40	
2,4,6-Tribromophenol (S)	%	89	10-144	05/30/12 11:40	
2-Fluorobiphenyl (S)	%	99	48-125	05/30/12 11:40	
2-Fluorophenol (S)	%	74	25-138	05/30/12 11:40	
Nitrobenzene-d5 (S)	%	95	49-118	05/30/12 11:40	
Phenol-d6 (S)	%	67	30-130	05/30/12 11:40	
Terphenyl-d14 (S)	%	89	29-159	05/30/12 11:40	

LABORATORY CONTROL SAMPLE: 445995

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	3330	3110	93	50-115	
1,2-Dichlorobenzene	ug/kg	3330	3160	95	10-200	
1,3-Dichlorobenzene	ug/kg	3330	3140	94	10-200	
1,4-Dichlorobenzene	ug/kg	3330	3150	95	47-105	
2,4,5-Trichlorophenol	ug/kg	3330	3700	111	10-200	
2,4,6-Trichlorophenol	ug/kg	3330	3440	103	10-200	
2,4-Dichlorophenol	ug/kg	3330	3320	100	10-200	
2,4-Dimethylphenol	ug/kg	3330	3170	95	10-200	
2,4-Dinitrophenol	ug/kg	3330	3000	90	10-200	
2,4-Dinitrotoluene	ug/kg	3330	3490	105	45-115	
2,6-Dinitrotoluene	ug/kg	3330	3370	101	10-200	
2-Chloronaphthalene	ug/kg	3330	3280	98	10-200	
2-Chlorophenol	ug/kg	3330	3110	93	51-113	
2-Methylnaphthalene	ug/kg	3330	3240	97	46-112	

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QUALITY CONTROL DATA

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

LABORATORY CONTROL SAMPLE: 445995

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Methylphenol(o-Cresol)	ug/kg	3330	3030	91	10-200	
2-Nitroaniline	ug/kg	3330	3310	99	10-200	
2-Nitrophenol	ug/kg	3330	3300	99	10-200	
3&4-Methylphenol(m&p Cresol)	ug/kg	3330	2960	89	10-200	
3,3'-Dichlorobenzidine	ug/kg		ND			
3-Nitroaniline	ug/kg	3330	3170	95	10-200	
4,6-Dinitro-2-methylphenol	ug/kg	3330	3220	97	10-200	
4-Bromophenylphenyl ether	ug/kg	3330	3240	97	10-200	
4-Chloro-3-methylphenol	ug/kg	3330	3480	104	47-129	
4-Chloroaniline	ug/kg	3330	3140	94	10-200	
4-Chlorophenylphenyl ether	ug/kg	3330	3500	105	10-200	
4-Nitroaniline	ug/kg	3330	2750	82	10-200	
4-Nitrophenol	ug/kg	3330	2930	88	26-117	
Acenaphthene	ug/kg	3330	3320	100	52-114	
Acenaphthylene	ug/kg	3330	3270	98	55-120	
Anthracene	ug/kg	3330	3080	92	57-121	
Benzo(a)anthracene	ug/kg	3330	2950	88	55-126	
Benzo(a)pyrene	ug/kg	3330	2880	86	57-124	
Benzo(b)fluoranthene	ug/kg	3330	2740	82	53-128	
Benzo(g,h,i)perylene	ug/kg	3330	3450	104	25-159	
Benzo(k)fluoranthene	ug/kg	3330	2730	82	52-139	
Benzyl alcohol	ug/kg	3330	2930	88	10-200	
bis(2-Chloroethoxy)methane	ug/kg	3330	3340	100	10-200	
bis(2-Chloroethyl) ether	ug/kg	3330	3100	93	10-200	
bis(2-Chloroisopropyl) ether	ug/kg	3330	3110	93	10-200	
bis(2-Ethylhexyl)phthalate	ug/kg	3330	2950	89	10-200	
Butylbenzylphthalate	ug/kg	3330	2670	80	10-200	
Chrysene	ug/kg	3330	3130	94	42-150	
Di-n-butylphthalate	ug/kg	3330	3020	90	10-200	
Di-n-octylphthalate	ug/kg	3330	3170	95	10-200	
Dibenz(a,h)anthracene	ug/kg	3330	3530	106	32-155	
Dibenzofuran	ug/kg	3330	3330	100	10-200	
Diethylphthalate	ug/kg	3330	3320	99	10-200	
Dimethylphthalate	ug/kg	3330	3300	99	10-200	
Fluoranthene	ug/kg	3330	3300	99	51-125	
Fluorene	ug/kg	3330	3400	102	52-117	
Hexachloro-1,3-butadiene	ug/kg	3330	3690	111	10-200	
Hexachlorobenzene	ug/kg	3330	3500	105	10-200	
Hexachlorocyclopentadiene	ug/kg	3330	2710	81	10-200	
Hexachloroethane	ug/kg	3330	3000	90	10-200	
Indeno(1,2,3-cd)pyrene	ug/kg	3330	3590	108	32-150	
Isophorone	ug/kg	3330	3130	94	10-200	
N-Nitroso-di-n-propylamine	ug/kg	3330	3070	92	52-126	
N-Nitrosodiphenylamine	ug/kg	3330	3110	93	10-200	
Naphthalene	ug/kg	3330	3600	108	51-109	
Nitrobenzene	ug/kg	3330	3110	93	10-200	
Pentachlorophenol	ug/kg	3330	3840	115	20-122	
Phenanthrene	ug/kg	3330	3130	94	54-119	

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QUALITY CONTROL DATA

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

LABORATORY CONTROL SAMPLE: 445995

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenol	ug/kg	3330	3000	90	43-112	
Pyrene	ug/kg	3330	2640	79	38-144	
2,4,6-Tribromophenol (S)	%			98	10-144	
2-Fluorobiphenyl (S)	%			92	48-125	
2-Fluorophenol (S)	%			67	25-138	
Nitrobenzene-d5 (S)	%			92	49-118	
Phenol-d6 (S)	%			91	30-130	
Terphenyl-d14 (S)	%			72	29-159	

QUALITY CONTROL DATA

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

QC Batch:	OEXT/11565	Analysis Method:	EPA 8270
QC Batch Method:	EPA 3535	Analysis Description:	8270 TCLP MSSV
Associated Lab Samples:	3070020001, 3070020002, 3070020003, 3070020004, 3070020005, 3070020006, 3070020007		

METHOD BLANK: 445961 Matrix: Water

Associated Lab Samples: 3070020001, 3070020002, 3070020003, 3070020004, 3070020005, 3070020006, 3070020007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	500	05/29/12 20:53	
2,4,5-Trichlorophenol	ug/L	ND	5000	05/29/12 20:53	
2,4,6-Trichlorophenol	ug/L	ND	100	05/29/12 20:53	
2,4-Dinitrotoluene	ug/L	ND	100	05/29/12 20:53	
2-Methylphenol(o-Cresol)	ug/L	ND	2000	05/29/12 20:53	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	2000	05/29/12 20:53	
Hexachloro-1,3-butadiene	ug/L	ND	100	05/29/12 20:53	
Hexachlorobenzene	ug/L	ND	100	05/29/12 20:53	
Hexachloroethane	ug/L	ND	500	05/29/12 20:53	
Nitrobenzene	ug/L	ND	100	05/29/12 20:53	
Pentachlorophenol	ug/L	ND	5000	05/29/12 20:53	
Pyridine	ug/L	ND	500	05/29/12 20:53	
2,4,6-Tribromophenol (S)	%	72	10-123	05/29/12 20:53	
2-Fluorobiphenyl (S)	%	64	43-116	05/29/12 20:53	
2-Fluorophenol (S)	%	66	21-110	05/29/12 20:53	
Nitrobenzene-d5 (S)	%	73	35-114	05/29/12 20:53	
Phenol-d6 (S)	%	46	10-110	05/29/12 20:53	
Terphenyl-d14 (S)	%	63	33-141	05/29/12 20:53	

METHOD BLANK: 445965 Matrix: Water

Associated Lab Samples: 3070020001, 3070020002, 3070020003, 3070020004, 3070020005, 3070020006, 3070020007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	500	05/30/12 02:08	
2,4,5-Trichlorophenol	ug/L	ND	5000	05/30/12 02:08	
2,4,6-Trichlorophenol	ug/L	ND	100	05/30/12 02:08	
2,4-Dinitrotoluene	ug/L	ND	100	05/30/12 02:08	
2-Methylphenol(o-Cresol)	ug/L	ND	2000	05/30/12 02:08	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	2000	05/30/12 02:08	
Hexachloro-1,3-butadiene	ug/L	ND	100	05/30/12 02:08	
Hexachlorobenzene	ug/L	ND	100	05/30/12 02:08	
Hexachloroethane	ug/L	ND	500	05/30/12 02:08	
Nitrobenzene	ug/L	ND	100	05/30/12 02:08	
Pentachlorophenol	ug/L	ND	5000	05/30/12 02:08	
Pyridine	ug/L	ND	500	05/30/12 02:08	
2,4,6-Tribromophenol (S)	%	49	10-123	05/30/12 02:08	
2-Fluorobiphenyl (S)	%	68	43-116	05/30/12 02:08	
2-Fluorophenol (S)	%	75	21-110	05/30/12 02:08	
Nitrobenzene-d5 (S)	%	75	35-114	05/30/12 02:08	
Phenol-d6 (S)	%	74	10-110	05/30/12 02:08	
Terphenyl-d14 (S)	%	58	33-141	05/30/12 02:08	

Date: 05/30/2012 05:07 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

LABORATORY CONTROL SAMPLE: 445962

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	500	339J	68	25-108	
2,4,5-Trichlorophenol	ug/L	500	377J	75	49-130	
2,4,6-Trichlorophenol	ug/L	500	390	78	49-133	
2,4-Dinitrotoluene	ug/L	500	260	52	31-135	
2-Methylphenol(o-Cresol)	ug/L	500	396J	79	42-132	
3&4-Methylphenol(m&p Cresol)	ug/L	1000	803J	80	42-132	
Hexachloro-1,3-butadiene	ug/L	500	322	64	19-107	
Hexachlorobenzene	ug/L	500	381	76	21-105	
Hexachloroethane	ug/L	500	316J	63	21-105	
Nitrobenzene	ug/L	500	409	82	38-142	
Pentachlorophenol	ug/L	500	336J	67	32-139	
Pyridine	ug/L	500	45.8J	9	10-61	L0
2,4,6-Tribromophenol (S)	%			79	10-123	
2-Fluorobiphenyl (S)	%			76	43-116	
2-Fluorophenol (S)	%			83	21-110	
Nitrobenzene-d5 (S)	%			84	35-114	
Phenol-d6 (S)	%			84	10-110	
Terphenyl-d14 (S)	%			91	33-141	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 445963 445964

Parameter	Units	3070038003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,4-Dichlorobenzene	ug/L	ND	500	500	284J	334J	57	67	25-108		
2,4,5-Trichlorophenol	ug/L	ND	500	500	333J	356J	67	71	49-130		
2,4,6-Trichlorophenol	ug/L	ND	500	500	367	401	73	80	49-133	9	
2,4-Dinitrotoluene	ug/L	ND	500	500	227	263	45	53	31-135	15	
2-Methylphenol(o-Cresol)	ug/L	ND	500	500	308J	422J	62	84	42-132		
3&4-Methylphenol(m&p Cresol)	ug/L	ND	1000	1000	754J	807J	75	81	42-132		
Hexachloro-1,3-butadiene	ug/L	ND	500	500	286	308	57	62	19-107	8	
Hexachlorobenzene	ug/L	ND	500	500	379	404	76	81	21-105	6	
Hexachloroethane	ug/L	ND	500	500	265J	301J	53	60	21-105		
Nitrobenzene	ug/L	ND	500	500	390	430	78	86	38-142	10	
Pentachlorophenol	ug/L	ND	500	500	328J	292J	66	58	32-139		
Pyridine	ug/L	ND	500	500	158J	37.7J	32	8	10-61		M0
2,4,6-Tribromophenol (S)	%						74	76	10-123		
2-Fluorobiphenyl (S)	%						75	79	43-116		
2-Fluorophenol (S)	%						85	81	21-110		
Nitrobenzene-d5 (S)	%						80	86	35-114		
Phenol-d6 (S)	%						80	85	10-110		
Terphenyl-d14 (S)	%						82	76	33-141		

QUALITY CONTROL DATA

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

QC Batch:	PMST/3181	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	3070020001, 3070020002, 3070020003, 3070020004, 3070020005, 3070020006, 3070020007		

SAMPLE DUPLICATE: 444574

Parameter	Units	3069696001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	8.2	9.6	15	

SAMPLE DUPLICATE: 444575

Parameter	Units	3070020001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	4.5	4.9	9	

QUALITY CONTROL DATA

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

QC Batch:	WET/13834	Analysis Method:	EPA 1010
QC Batch Method:	EPA 1010	Analysis Description:	1010 Flash Point, Closed Cup
Associated Lab Samples:	3070020001, 3070020002, 3070020003, 3070020004, 3070020005, 3070020006, 3070020007		

METHOD BLANK:	444405	Matrix:	Water
Associated Lab Samples:	3070020001, 3070020002, 3070020003, 3070020004, 3070020005, 3070020006, 3070020007		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Flashpoint	deg F	>200	60.0	05/23/12 20:50	

SAMPLE DUPLICATE: 444404

Parameter	Units	3070020001 Result	Dup Result	RPD	Qualifiers
Flashpoint	deg F	>200	>200		

QUALITY CONTROL DATA

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

QC Batch: WET/13888

Analysis Method: EPA 9045

QC Batch Method: EPA 9045

Analysis Description: 9045 pH

Associated Lab Samples: 3070020001, 3070020002, 3070020003, 3070020004, 3070020005, 3070020006, 3070020007

SAMPLE DUPLICATE: 446185

Parameter	Units	3070307001 Result	Dup Result	RPD	Qualifiers
pH at 25 Degrees C	Std. Units	9.1	9.1	.3	H1

QUALITY CONTROL DATA

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

QC Batch:	WETA/9893	Analysis Method:	SW-846 7.3.3.2
QC Batch Method:	SW-846 7.3.3.2	Analysis Description:	733C Reactive Cyanide
Associated Lab Samples:	3070020001, 3070020002, 3070020003, 3070020004, 3070020005, 3070020006, 3070020007		

METHOD BLANK:	444402	Matrix:	Solid
Associated Lab Samples:	3070020001, 3070020002, 3070020003, 3070020004, 3070020005, 3070020006, 3070020007		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide, Reactive	mg/kg	ND	1.0	05/24/12 20:53	

SAMPLE DUPLICATE: 444403

Parameter	Units	3070015001 Result	Dup Result	RPD	Qualifiers
Cyanide, Reactive	mg/kg	0.40U	ND		

QUALITY CONTROL DATA

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

QC Batch:	WETA/9892	Analysis Method:	SW-846 7.3.4.2
QC Batch Method:	SW-846 7.3.4.2	Analysis Description:	734S Reactive Sulfide
Associated Lab Samples:	3070020001, 3070020002, 3070020003, 3070020004, 3070020005, 3070020006, 3070020007		

METHOD BLANK:	444400	Matrix:	Solid
Associated Lab Samples:	3070020001, 3070020002, 3070020003, 3070020004, 3070020005, 3070020006, 3070020007		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Reactive	mg/kg	ND	10	05/23/12 17:55	

SAMPLE DUPLICATE: 444401

Parameter	Units	3070015001 Result	Dup Result	RPD	Qualifiers
Sulfide, Reactive	mg/kg	10U	ND		

QUALIFIERS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

BATCH QUALIFIERS

Batch: MSV/12857

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1c	Matrix spike recovery below QC limits due to matrix. Batch accepted based upon LCS recovery.
2c	The majority of the area quantitated as DRO for this sample is due to unresolved material eluting beyond C 20.
3c	The matrix spike is diluted out.
4c	The recovery of gamma-BHC is high in the LCS. No gamma-BHC is detected at or above the reporting limit in any of the associated samples.
5c	The response for delta-BHC is high in the closing calibration standard associated with this batch of samples. No delta-BHC is detected at or above the reporting limit for delta-BHC. Samples are unaffected by the high bias.
6c	The surrogate (O-Terphenyl) is diluted out.
C0	Result confirmed by second analysis.
C3	Relative percent difference between results from each column was greater than 40%. The higher of the two results was reported.
D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
H1	Analysis conducted outside the EPA method holding time.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

QUALIFIERS

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3070020001	CS-1	EPA 3546	OEXT/11568	EPA 8015B Modified	GCSV/4468
3070020002	CS-2	EPA 3546	OEXT/11568	EPA 8015B Modified	GCSV/4468
3070020003	CS-3	EPA 3546	OEXT/11568	EPA 8015B Modified	GCSV/4468
3070020004	CS-4	EPA 3546	OEXT/11568	EPA 8015B Modified	GCSV/4468
3070020005	CS-5	EPA 3546	OEXT/11568	EPA 8015B Modified	GCSV/4468
3070020006	CS-6	EPA 3546	OEXT/11568	EPA 8015B Modified	GCSV/4468
3070020007	CS-7	EPA 3546	OEXT/11568	EPA 8015B Modified	GCSV/4468
3070020001	CS-1	EPA 3546	OEXT/11558	EPA 8081	GCSV/4470
3070020002	CS-2	EPA 3546	OEXT/11558	EPA 8081	GCSV/4470
3070020003	CS-3	EPA 3546	OEXT/11558	EPA 8081	GCSV/4470
3070020004	CS-4	EPA 3546	OEXT/11558	EPA 8081	GCSV/4470
3070020005	CS-5	EPA 3546	OEXT/11558	EPA 8081	GCSV/4470
3070020006	CS-6	EPA 3546	OEXT/11558	EPA 8081	GCSV/4470
3070020007	CS-7	EPA 3546	OEXT/11558	EPA 8081	GCSV/4470
3070020001	CS-1	EPA 3510	OEXT/11552	EPA 8081	GCSV/4469
3070020002	CS-2	EPA 3510	OEXT/11552	EPA 8081	GCSV/4469
3070020003	CS-3	EPA 3510	OEXT/11552	EPA 8081	GCSV/4469
3070020004	CS-4	EPA 3510	OEXT/11552	EPA 8081	GCSV/4469
3070020005	CS-5	EPA 3510	OEXT/11552	EPA 8081	GCSV/4469
3070020006	CS-6	EPA 3510	OEXT/11552	EPA 8081	GCSV/4469
3070020007	CS-7	EPA 3510	OEXT/11552	EPA 8081	GCSV/4469
3070020001	CS-1	EPA 3546	OEXT/11559	EPA 8082	GCSV/4478
3070020002	CS-2	EPA 3546	OEXT/11559	EPA 8082	GCSV/4478
3070020003	CS-3	EPA 3546	OEXT/11559	EPA 8082	GCSV/4478
3070020004	CS-4	EPA 3546	OEXT/11559	EPA 8082	GCSV/4478
3070020005	CS-5	EPA 3546	OEXT/11559	EPA 8082	GCSV/4478
3070020006	CS-6	EPA 3546	OEXT/11559	EPA 8082	GCSV/4478
3070020007	CS-7	EPA 3546	OEXT/11559	EPA 8082	GCSV/4478
3070020001	CS-1	EPA 5035A/5030B	GCV/1727	EPA 8015B Modified	GCV/1728
3070020002	CS-2	EPA 5035A/5030B	GCV/1727	EPA 8015B Modified	GCV/1728
3070020003	CS-3	EPA 5035A/5030B	GCV/1727	EPA 8015B Modified	GCV/1728
3070020004	CS-4	EPA 5035A/5030B	GCV/1727	EPA 8015B Modified	GCV/1728
3070020005	CS-5	EPA 5035A/5030B	GCV/1727	EPA 8015B Modified	GCV/1728
3070020006	CS-6	EPA 5035A/5030B	GCV/1727	EPA 8015B Modified	GCV/1728
3070020007	CS-7	EPA 5035A/5030B	GCV/1727	EPA 8015B Modified	GCV/1728
3070020001	CS-1	EPA 3050	MPRP/8376	EPA 6010B	ICP/7833
3070020002	CS-2	EPA 3050	MPRP/8376	EPA 6010B	ICP/7833
3070020003	CS-3	EPA 3050	MPRP/8376	EPA 6010B	ICP/7833
3070020004	CS-4	EPA 3050	MPRP/8376	EPA 6010B	ICP/7833
3070020005	CS-5	EPA 3050	MPRP/8376	EPA 6010B	ICP/7833
3070020006	CS-6	EPA 3050	MPRP/8376	EPA 6010B	ICP/7833
3070020007	CS-7	EPA 3050	MPRP/8376	EPA 6010B	ICP/7833
3070020001	CS-1	EPA 3005	MPRP/8365	EPA 6010	ICP/7823
3070020002	CS-2	EPA 3005	MPRP/8365	EPA 6010	ICP/7823
3070020003	CS-3	EPA 3005	MPRP/8365	EPA 6010	ICP/7823
3070020004	CS-4	EPA 3005	MPRP/8365	EPA 6010	ICP/7823

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3070020005	CS-5	EPA 3005	MPRP/8365	EPA 6010	ICP/7823
3070020006	CS-6	EPA 3005	MPRP/8365	EPA 6010	ICP/7823
3070020007	CS-7	EPA 3005	MPRP/8365	EPA 6010	ICP/7823
3070020001	CS-1	EPA 7470	MERP/3618	EPA 7470	MERC/3479
3070020002	CS-2	EPA 7470	MERP/3618	EPA 7470	MERC/3479
3070020003	CS-3	EPA 7470	MERP/3618	EPA 7470	MERC/3479
3070020004	CS-4	EPA 7470	MERP/3618	EPA 7470	MERC/3479
3070020005	CS-5	EPA 7470	MERP/3618	EPA 7470	MERC/3479
3070020006	CS-6	EPA 7470	MERP/3618	EPA 7470	MERC/3479
3070020007	CS-7	EPA 7470	MERP/3618	EPA 7470	MERC/3479
3070020001	CS-1	EPA 7471	MERP/3620	EPA 7471	MERC/3481
3070020002	CS-2	EPA 7471	MERP/3620	EPA 7471	MERC/3481
3070020003	CS-3	EPA 7471	MERP/3620	EPA 7471	MERC/3481
3070020004	CS-4	EPA 7471	MERP/3620	EPA 7471	MERC/3481
3070020005	CS-5	EPA 7471	MERP/3620	EPA 7471	MERC/3481
3070020006	CS-6	EPA 7471	MERP/3620	EPA 7471	MERC/3481
3070020007	CS-7	EPA 7471	MERP/3620	EPA 7471	MERC/3481
3070020001	CS-1	EPA 3546	OEXT/11573	EPA 8270	MSSV/3958
3070020002	CS-2	EPA 3546	OEXT/11573	EPA 8270	MSSV/3958
3070020003	CS-3	EPA 3546	OEXT/11573	EPA 8270	MSSV/3958
3070020004	CS-4	EPA 3546	OEXT/11573	EPA 8270	MSSV/3958
3070020005	CS-5	EPA 3546	OEXT/11573	EPA 8270	MSSV/3958
3070020006	CS-6	EPA 3546	OEXT/11573	EPA 8270	MSSV/3958
3070020007	CS-7	EPA 3546	OEXT/11573	EPA 8270	MSSV/3958
3070020001	CS-1	EPA 3535	OEXT/11565	EPA 8270	MSSV/3956
3070020002	CS-2	EPA 3535	OEXT/11565	EPA 8270	MSSV/3956
3070020003	CS-3	EPA 3535	OEXT/11565	EPA 8270	MSSV/3956
3070020004	CS-4	EPA 3535	OEXT/11565	EPA 8270	MSSV/3956
3070020005	CS-5	EPA 3535	OEXT/11565	EPA 8270	MSSV/3956
3070020006	CS-6	EPA 3535	OEXT/11565	EPA 8270	MSSV/3956
3070020007	CS-7	EPA 3535	OEXT/11565	EPA 8270	MSSV/3956
3070020001	CS-1	EPA 8260	MSV/12857		
3070020002	CS-2	EPA 8260	MSV/12857		
3070020003	CS-3	EPA 8260	MSV/12857		
3070020004	CS-4	EPA 8260	MSV/12857		
3070020005	CS-5	EPA 8260	MSV/12857		
3070020006	CS-6	EPA 8260	MSV/12857		
3070020007	CS-7	EPA 8260	MSV/12857		
3070020001	CS-1	EPA 8260	MSV/12827		
3070020002	CS-2	EPA 8260	MSV/12827		
3070020003	CS-3	EPA 8260	MSV/12827		
3070020004	CS-4	EPA 8260	MSV/12827		
3070020005	CS-5	EPA 8260	MSV/12827		
3070020006	CS-6	EPA 8260	MSV/12827		
3070020007	CS-7	EPA 8260	MSV/12827		

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 4507134 EPT Ithaca, NY

Pace Project No.: 3070020

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3070020001	CS-1	ASTM D2974-87	PMST/3181		
3070020002	CS-2	ASTM D2974-87	PMST/3181		
3070020003	CS-3	ASTM D2974-87	PMST/3181		
3070020004	CS-4	ASTM D2974-87	PMST/3181		
3070020005	CS-5	ASTM D2974-87	PMST/3181		
3070020006	CS-6	ASTM D2974-87	PMST/3181		
3070020007	CS-7	ASTM D2974-87	PMST/3181		
3070020001	CS-1	EPA 1010	WET/13834		
3070020002	CS-2	EPA 1010	WET/13834		
3070020003	CS-3	EPA 1010	WET/13834		
3070020004	CS-4	EPA 1010	WET/13834		
3070020005	CS-5	EPA 1010	WET/13834		
3070020006	CS-6	EPA 1010	WET/13834		
3070020007	CS-7	EPA 1010	WET/13834		
3070020001	CS-1	EPA 9045	WET/13888		
3070020002	CS-2	EPA 9045	WET/13888		
3070020003	CS-3	EPA 9045	WET/13888		
3070020004	CS-4	EPA 9045	WET/13888		
3070020005	CS-5	EPA 9045	WET/13888		
3070020006	CS-6	EPA 9045	WET/13888		
3070020007	CS-7	EPA 9045	WET/13888		
3070020001	CS-1	SW-846 7.3.3.2	WETA/9893		
3070020002	CS-2	SW-846 7.3.3.2	WETA/9893		
3070020003	CS-3	SW-846 7.3.3.2	WETA/9893		
3070020004	CS-4	SW-846 7.3.3.2	WETA/9893		
3070020005	CS-5	SW-846 7.3.3.2	WETA/9893		
3070020006	CS-6	SW-846 7.3.3.2	WETA/9893		
3070020007	CS-7	SW-846 7.3.3.2	WETA/9893		
3070020001	CS-1	SW-846 7.3.4.2	WETA/9892		
3070020002	CS-2	SW-846 7.3.4.2	WETA/9892		
3070020003	CS-3	SW-846 7.3.4.2	WETA/9892		
3070020004	CS-4	SW-846 7.3.4.2	WETA/9892		
3070020005	CS-5	SW-846 7.3.4.2	WETA/9892		
3070020006	CS-6	SW-846 7.3.4.2	WETA/9892		
3070020007	CS-7	SW-846 7.3.4.2	WETA/9892		

June 13, 2012

Mr. Scott Petersen
WSP Environment & Energy
5 Sullivan Street
Cazenovia, NY 13035

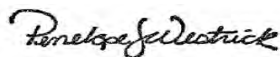
RE: Project: EPT Ithaca, NY
Pace Project No.: 3071173

Dear Mr. Petersen:

Enclosed are the analytical results for sample(s) received by the laboratory on June 12, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Penny Westrick

penny.westrick@pacelabs.com
Project Manager

Enclosures

cc: Mr. Erik Reinert, WSP Environment & Energy



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: EPT Ithaca, NY

Pace Project No.: 3071173

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601

ACCLASS DOD-ELAP Accreditation #: ADE-1544

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California/TNI Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH 0694

Delaware Certification

Florida/TNI Certification #: E87683

Guam/PADEP Certification

Hawaii/PADEP Certification

Idaho Certification

Illinois/PADEP Certification

Indiana/PADEP Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana/TNI Certification #: LA080002

Louisiana/TNI Certification #: 4086

Maine Certification #: PA0091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nevada Certification

New Hampshire/TNI Certification #: 2976

New Jersey/TNI Certification #: PA 051

New Mexico Certification

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188

Utah/TNI Certification #: ANTE

Virgin Island/PADEP Certification

Virginia Certification #: 00112

Virginia VELAP (Cert # 460198)

Washington Certification #: C868

West Virginia Certification #: 143

Wisconsin/PADEP Certification

Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: EPT Ithaca, NY

Pace Project No.: 3071173

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3071173001	Stockpile061112	EPA 8260	JEW	52	PASI-PA
		ASTM D2974-87	AJC	1	PASI-PA
3071173002	TrenchLiquid061112	EPA 8260	JAS	52	PASI-PA
3071173003	Building4Pit061112	EPA 8260	JAS	52	PASI-PA
3071173004	TB061112	EPA 8260	JAS	52	PASI-PA
3071173005	Trench Sludge061112	EPA 8260	JEW	52	PASI-PA
		ASTM D2974-87	AJC	1	PASI-PA
3071173006	Column107Spoils	EPA 8260	JEW	52	PASI-PA
		ASTM D2974-87	AJC	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: EPT Ithaca, NY

Pace Project No.: 3071173

Method: EPA 8260

Description: 8260 MSV 5030 Low Level

Client: WSP Environment & Energy - Cazenovia, NY

Date: June 13, 2012

General Information:

3 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

QC Batch: MSV/12989

IS: The internal standard response is below criteria. Results may be biased high.

- Trench Sludge061112 (Lab ID: 3071173005)
- 4-Bromofluorobenzene (S)

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: MSV/12989

S0: Surrogate recovery outside laboratory control limits.

- Trench Sludge061112 (Lab ID: 3071173005)
- 4-Bromofluorobenzene (S)

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/12987

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 451400)
- Methyl-tert-butyl ether

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/12987

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: EPT Ithaca, NY

Pace Project No.: 3071173

Method: EPA 8260

Description: 8260 MSV 5030 Low Level

Client: WSP Environment & Energy - Cazenovia, NY

Date: June 13, 2012

QC Batch: MSV/12989

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: EPT Ithaca, NY

Pace Project No.: 3071173

Method: EPA 8260

Description: 8260 MSV

Client: WSP Environment & Energy - Cazenovia, NY

Date: June 13, 2012

General Information:

3 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3071173

Sample: Stockpile061112 **Lab ID: 3071173001** Collected: 06/11/12 13:55 Received: 06/12/12 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	11.6	1		06/12/12 18:46	67-64-1	
Benzene	ND	ug/kg	5.8	1		06/12/12 18:46	71-43-2	
Bromodichloromethane	ND	ug/kg	5.8	1		06/12/12 18:46	75-27-4	
Bromoform	ND	ug/kg	5.8	1		06/12/12 18:46	75-25-2	
Bromomethane	ND	ug/kg	5.8	1		06/12/12 18:46	74-83-9	
2-Butanone (MEK)	ND	ug/kg	11.6	1		06/12/12 18:46	78-93-3	
Carbon disulfide	ND	ug/kg	5.8	1		06/12/12 18:46	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.8	1		06/12/12 18:46	56-23-5	
Chlorobenzene	ND	ug/kg	5.8	1		06/12/12 18:46	108-90-7	
Chloroethane	ND	ug/kg	5.8	1		06/12/12 18:46	75-00-3	
Chloroform	ND	ug/kg	5.8	1		06/12/12 18:46	67-66-3	
Chloromethane	ND	ug/kg	5.8	1		06/12/12 18:46	74-87-3	
Cyclohexane	ND	ug/kg	11.6	1		06/12/12 18:46	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.8	1		06/12/12 18:46	96-12-8	
Dibromochloromethane	ND	ug/kg	5.8	1		06/12/12 18:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.8	1		06/12/12 18:46	106-93-4	
1,2-Dichlorobenzene	ND	ug/kg	5.8	1		06/12/12 18:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.8	1		06/12/12 18:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.8	1		06/12/12 18:46	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	5.8	1		06/12/12 18:46	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.8	1		06/12/12 18:46	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.8	1		06/12/12 18:46	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.8	1		06/12/12 18:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.8	1		06/12/12 18:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.8	1		06/12/12 18:46	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.8	1		06/12/12 18:46	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.8	1		06/12/12 18:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.8	1		06/12/12 18:46	10061-02-6	
Ethylbenzene	ND	ug/kg	5.8	1		06/12/12 18:46	100-41-4	
2-Hexanone	ND	ug/kg	11.6	1		06/12/12 18:46	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.8	1		06/12/12 18:46	98-82-8	
Methyl acetate	ND	ug/kg	58.2	1		06/12/12 18:46	79-20-9	
Methylcyclohexane	ND	ug/kg	11.6	1		06/12/12 18:46	108-87-2	
Methylene Chloride	ND	ug/kg	5.8	1		06/12/12 18:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	11.6	1		06/12/12 18:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.8	1		06/12/12 18:46	1634-04-4	
Naphthalene	ND	ug/kg	5.8	1		06/12/12 18:46	91-20-3	
Styrene	ND	ug/kg	5.8	1		06/12/12 18:46	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.8	1		06/12/12 18:46	79-34-5	
Tetrachloroethene	ND	ug/kg	5.8	1		06/12/12 18:46	127-18-4	
Toluene	ND	ug/kg	5.8	1		06/12/12 18:46	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	5.8	1		06/12/12 18:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.8	1		06/12/12 18:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.8	1		06/12/12 18:46	79-00-5	
Trichloroethene	ND	ug/kg	5.8	1		06/12/12 18:46	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.8	1		06/12/12 18:46	75-69-4	

Date: 06/13/2012 04:27 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3071173

Sample: Stockpile061112 **Lab ID: 3071173001** Collected: 06/11/12 13:55 Received: 06/12/12 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	58.2	1		06/12/12 18:46	76-13-1	
Vinyl chloride	ND	ug/kg	5.8	1		06/12/12 18:46	75-01-4	
Xylene (Total)	ND	ug/kg	17.5	1		06/12/12 18:46	1330-20-7	
Surrogates								
Toluene-d8 (S)	101	%	70-130	1		06/12/12 18:46	2037-26-5	
4-Bromofluorobenzene (S)	103	%	70-130	1		06/12/12 18:46	460-00-4	
1,2-Dichloroethane-d4 (S)	82	%	70-130	1		06/12/12 18:46	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	12.2	%	0.10	1		06/12/12 17:51		

ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3071173

Sample: TrenchLiquid061112		Lab ID: 3071173002		Collected: 06/11/12 13:30		Received: 06/12/12 09:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		06/12/12 13:42	67-64-1		
Benzene	ND	ug/L	1.0	1		06/12/12 13:42	71-43-2		
Bromodichloromethane	ND	ug/L	1.0	1		06/12/12 13:42	75-27-4		
Bromoform	ND	ug/L	1.0	1		06/12/12 13:42	75-25-2		
Bromomethane	ND	ug/L	1.0	1		06/12/12 13:42	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		06/12/12 13:42	78-93-3		
Carbon disulfide	ND	ug/L	1.0	1		06/12/12 13:42	75-15-0		
Carbon tetrachloride	ND	ug/L	1.0	1		06/12/12 13:42	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		06/12/12 13:42	108-90-7		
Chloroethane	ND	ug/L	1.0	1		06/12/12 13:42	75-00-3		
Chloroform	ND	ug/L	1.0	1		06/12/12 13:42	67-66-3		
Chloromethane	ND	ug/L	1.0	1		06/12/12 13:42	74-87-3		
Cyclohexane	ND	ug/L	10.0	1		06/12/12 13:42	110-82-7		
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		06/12/12 13:42	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		06/12/12 13:42	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/12/12 13:42	106-93-4		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/12/12 13:42	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/12/12 13:42	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/12/12 13:42	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/12/12 13:42	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		06/12/12 13:42	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		06/12/12 13:42	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		06/12/12 13:42	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/12/12 13:42	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/12/12 13:42	156-60-5		
1,2-Dichloropropane	ND	ug/L	1.0	1		06/12/12 13:42	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/12/12 13:42	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/12/12 13:42	10061-02-6		
Ethylbenzene	ND	ug/L	1.0	1		06/12/12 13:42	100-41-4		
2-Hexanone	ND	ug/L	10.0	1		06/12/12 13:42	591-78-6		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		06/12/12 13:42	98-82-8		
Methyl acetate	ND	ug/L	5.0	1		06/12/12 13:42	79-20-9		
Methylcyclohexane	ND	ug/L	10.0	1		06/12/12 13:42	108-87-2		
Methylene Chloride	ND	ug/L	1.0	1		06/12/12 13:42	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/12/12 13:42	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/12/12 13:42	1634-04-4		
Naphthalene	2.3	ug/L	2.0	1		06/12/12 13:42	91-20-3		
Styrene	ND	ug/L	1.0	1		06/12/12 13:42	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/12/12 13:42	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	1		06/12/12 13:42	127-18-4		
Toluene	ND	ug/L	1.0	1		06/12/12 13:42	108-88-3		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/12/12 13:42	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/12/12 13:42	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/12/12 13:42	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		06/12/12 13:42	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		06/12/12 13:42	75-69-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	50.0	1		06/12/12 13:42	76-13-1		

Date: 06/13/2012 04:27 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3071173

Sample: TrenchLiquid061112		Lab ID: 3071173002	Collected: 06/11/12 13:30	Received: 06/12/12 09:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Vinyl chloride	ND ug/L		1.0	1		06/12/12 13:42	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		06/12/12 13:42	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	97 %		70-130	1		06/12/12 13:42	460-00-4	
1,2-Dichloroethane-d4 (S)	101 %		70-130	1		06/12/12 13:42	17060-07-0	
Toluene-d8 (S)	96 %		70-130	1		06/12/12 13:42	2037-26-5	

ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3071173

Sample: Building4Pit061112		Lab ID: 3071173003	Collected: 06/11/12 14:10	Received: 06/12/12 09:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		10.0	1		06/12/12 14:09	67-64-1	
Benzene	ND ug/L		1.0	1		06/12/12 14:09	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		06/12/12 14:09	75-27-4	
Bromoform	ND ug/L		1.0	1		06/12/12 14:09	75-25-2	
Bromomethane	ND ug/L		1.0	1		06/12/12 14:09	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/12/12 14:09	78-93-3	
Carbon disulfide	ND ug/L		1.0	1		06/12/12 14:09	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		06/12/12 14:09	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		06/12/12 14:09	108-90-7	
Chloroethane	ND ug/L		1.0	1		06/12/12 14:09	75-00-3	
Chloroform	ND ug/L		1.0	1		06/12/12 14:09	67-66-3	
Chloromethane	ND ug/L		1.0	1		06/12/12 14:09	74-87-3	
Cyclohexane	ND ug/L		10.0	1		06/12/12 14:09	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		06/12/12 14:09	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		06/12/12 14:09	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		06/12/12 14:09	106-93-4	
1,2-Dichlorobenzene	ND ug/L		1.0	1		06/12/12 14:09	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		06/12/12 14:09	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		06/12/12 14:09	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		06/12/12 14:09	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		06/12/12 14:09	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		06/12/12 14:09	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		06/12/12 14:09	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		06/12/12 14:09	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		06/12/12 14:09	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		06/12/12 14:09	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		06/12/12 14:09	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		06/12/12 14:09	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		06/12/12 14:09	100-41-4	
2-Hexanone	ND ug/L		10.0	1		06/12/12 14:09	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		06/12/12 14:09	98-82-8	
Methyl acetate	ND ug/L		5.0	1		06/12/12 14:09	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/12/12 14:09	108-87-2	
Methylene Chloride	ND ug/L		1.0	1		06/12/12 14:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/12/12 14:09	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		06/12/12 14:09	1634-04-4	
Naphthalene	ND ug/L		2.0	1		06/12/12 14:09	91-20-3	
Styrene	ND ug/L		1.0	1		06/12/12 14:09	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/12/12 14:09	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		06/12/12 14:09	127-18-4	
Toluene	ND ug/L		1.0	1		06/12/12 14:09	108-88-3	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		06/12/12 14:09	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/12/12 14:09	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/12/12 14:09	79-00-5	
Trichloroethene	ND ug/L		1.0	1		06/12/12 14:09	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		06/12/12 14:09	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		50.0	1		06/12/12 14:09	76-13-1	

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3071173

Sample: Building4Pit061112		Lab ID: 3071173003	Collected: 06/11/12 14:10	Received: 06/12/12 09:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Vinyl chloride	ND	ug/L	1.0	1		06/12/12 14:09	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		06/12/12 14:09	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	103	%	70-130	1		06/12/12 14:09	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		06/12/12 14:09	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		06/12/12 14:09	2037-26-5	

ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3071173

Sample: TB061112		Lab ID: 3071173004	Collected: 06/11/12 00:01	Received: 06/12/12 09:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	10.0	1		06/12/12 13:16	67-64-1	
Benzene	ND	ug/L	1.0	1		06/12/12 13:16	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		06/12/12 13:16	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/12/12 13:16	75-25-2	
Bromomethane	ND	ug/L	1.0	1		06/12/12 13:16	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		06/12/12 13:16	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		06/12/12 13:16	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		06/12/12 13:16	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/12/12 13:16	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/12/12 13:16	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/12/12 13:16	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/12/12 13:16	74-87-3	
Cyclohexane	ND	ug/L	10.0	1		06/12/12 13:16	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		06/12/12 13:16	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/12/12 13:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/12/12 13:16	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/12/12 13:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/12/12 13:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/12/12 13:16	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/12/12 13:16	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/12/12 13:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/12/12 13:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/12/12 13:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/12/12 13:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/12/12 13:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/12/12 13:16	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/12/12 13:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/12/12 13:16	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		06/12/12 13:16	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		06/12/12 13:16	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		06/12/12 13:16	98-82-8	
Methyl acetate	ND	ug/L	5.0	1		06/12/12 13:16	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		06/12/12 13:16	108-87-2	
Methylene Chloride	1.4	ug/L	1.0	1		06/12/12 13:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/12/12 13:16	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/12/12 13:16	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		06/12/12 13:16	91-20-3	
Styrene	ND	ug/L	1.0	1		06/12/12 13:16	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/12/12 13:16	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/12/12 13:16	127-18-4	
Toluene	ND	ug/L	1.0	1		06/12/12 13:16	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/12/12 13:16	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/12/12 13:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/12/12 13:16	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/12/12 13:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/12/12 13:16	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	50.0	1		06/12/12 13:16	76-13-1	

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3071173

Sample: TB061112		Lab ID: 3071173004		Collected: 06/11/12 00:01		Received: 06/12/12 09:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV		Analytical Method: EPA 8260							
Vinyl chloride	ND	ug/L	1.0	1		06/12/12 13:16	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		06/12/12 13:16	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130	1		06/12/12 13:16	460-00-4		
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		06/12/12 13:16	17060-07-0		
Toluene-d8 (S)	96	%	70-130	1		06/12/12 13:16	2037-26-5		

ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3071173

Sample: Trench Sludge061112 **Lab ID: 3071173005** Collected: 06/11/12 13:22 Received: 06/12/12 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	12.9	1		06/13/12 13:03	67-64-1	
Benzene	ND	ug/kg	6.5	1		06/13/12 13:03	71-43-2	
Bromodichloromethane	ND	ug/kg	6.5	1		06/13/12 13:03	75-27-4	
Bromoform	ND	ug/kg	6.5	1		06/13/12 13:03	75-25-2	
Bromomethane	ND	ug/kg	6.5	1		06/13/12 13:03	74-83-9	
2-Butanone (MEK)	ND	ug/kg	12.9	1		06/13/12 13:03	78-93-3	
Carbon disulfide	ND	ug/kg	6.5	1		06/13/12 13:03	75-15-0	
Carbon tetrachloride	ND	ug/kg	6.5	1		06/13/12 13:03	56-23-5	
Chlorobenzene	ND	ug/kg	6.5	1		06/13/12 13:03	108-90-7	
Chloroethane	ND	ug/kg	6.5	1		06/13/12 13:03	75-00-3	
Chloroform	ND	ug/kg	6.5	1		06/13/12 13:03	67-66-3	
Chloromethane	ND	ug/kg	6.5	1		06/13/12 13:03	74-87-3	
Cyclohexane	ND	ug/kg	12.9	1		06/13/12 13:03	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/kg	6.5	1		06/13/12 13:03	96-12-8	
Dibromochloromethane	ND	ug/kg	6.5	1		06/13/12 13:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	6.5	1		06/13/12 13:03	106-93-4	
1,2-Dichlorobenzene	ND	ug/kg	6.5	1		06/13/12 13:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	6.5	1		06/13/12 13:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	6.5	1		06/13/12 13:03	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	6.5	1		06/13/12 13:03	75-71-8	
1,1-Dichloroethane	ND	ug/kg	6.5	1		06/13/12 13:03	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.5	1		06/13/12 13:03	107-06-2	
1,1-Dichloroethene	ND	ug/kg	6.5	1		06/13/12 13:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.5	1		06/13/12 13:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.5	1		06/13/12 13:03	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.5	1		06/13/12 13:03	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	6.5	1		06/13/12 13:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.5	1		06/13/12 13:03	10061-02-6	
Ethylbenzene	ND	ug/kg	6.5	1		06/13/12 13:03	100-41-4	
2-Hexanone	ND	ug/kg	12.9	1		06/13/12 13:03	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	6.5	1		06/13/12 13:03	98-82-8	
Methyl acetate	ND	ug/kg	64.7	1		06/13/12 13:03	79-20-9	
Methylcyclohexane	ND	ug/kg	12.9	1		06/13/12 13:03	108-87-2	
Methylene Chloride	ND	ug/kg	6.5	1		06/13/12 13:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	12.9	1		06/13/12 13:03	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	6.5	1		06/13/12 13:03	1634-04-4	
Naphthalene	ND	ug/kg	6.5	1		06/13/12 13:03	91-20-3	
Styrene	ND	ug/kg	6.5	1		06/13/12 13:03	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.5	1		06/13/12 13:03	79-34-5	
Tetrachloroethene	ND	ug/kg	6.5	1		06/13/12 13:03	127-18-4	
Toluene	ND	ug/kg	6.5	1		06/13/12 13:03	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	6.5	1		06/13/12 13:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	6.5	1		06/13/12 13:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.5	1		06/13/12 13:03	79-00-5	
Trichloroethene	ND	ug/kg	6.5	1		06/13/12 13:03	79-01-6	
Trichlorofluoromethane	ND	ug/kg	6.5	1		06/13/12 13:03	75-69-4	

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3071173

Sample: Trench Sludge061112 **Lab ID:** 3071173005 **Collected:** 06/11/12 13:22 **Received:** 06/12/12 09:45 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	64.7	1		06/13/12 13:03	76-13-1	
Vinyl chloride	ND	ug/kg	6.5	1		06/13/12 13:03	75-01-4	
Xylene (Total)	ND	ug/kg	19.4	1		06/13/12 13:03	1330-20-7	
Surrogates								
Toluene-d8 (S)	110	%	70-130	1		06/13/12 13:03	2037-26-5	
4-Bromofluorobenzene (S)	148	%	70-130	1		06/13/12 13:03	460-00-4	IS,S0
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		06/13/12 13:03	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	16.4	%	0.10	1		06/12/12 17:52		

ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3071173

Sample: Column107Spoils **Lab ID:** 3071173006 **Collected:** 06/11/12 13:40 **Received:** 06/12/12 09:45 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	9.3	1		06/12/12 19:11	67-64-1	
Benzene	ND	ug/kg	4.6	1		06/12/12 19:11	71-43-2	
Bromodichloromethane	ND	ug/kg	4.6	1		06/12/12 19:11	75-27-4	
Bromoform	ND	ug/kg	4.6	1		06/12/12 19:11	75-25-2	
Bromomethane	ND	ug/kg	4.6	1		06/12/12 19:11	74-83-9	
2-Butanone (MEK)	ND	ug/kg	9.3	1		06/12/12 19:11	78-93-3	
Carbon disulfide	ND	ug/kg	4.6	1		06/12/12 19:11	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.6	1		06/12/12 19:11	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		06/12/12 19:11	108-90-7	
Chloroethane	ND	ug/kg	4.6	1		06/12/12 19:11	75-00-3	
Chloroform	ND	ug/kg	4.6	1		06/12/12 19:11	67-66-3	
Chloromethane	ND	ug/kg	4.6	1		06/12/12 19:11	74-87-3	
Cyclohexane	ND	ug/kg	9.3	1		06/12/12 19:11	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.6	1		06/12/12 19:11	96-12-8	
Dibromochloromethane	ND	ug/kg	4.6	1		06/12/12 19:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		06/12/12 19:11	106-93-4	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		06/12/12 19:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		06/12/12 19:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		06/12/12 19:11	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	4.6	1		06/12/12 19:11	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.6	1		06/12/12 19:11	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		06/12/12 19:11	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		06/12/12 19:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1		06/12/12 19:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		06/12/12 19:11	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		06/12/12 19:11	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		06/12/12 19:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		06/12/12 19:11	10061-02-6	
Ethylbenzene	ND	ug/kg	4.6	1		06/12/12 19:11	100-41-4	
2-Hexanone	ND	ug/kg	9.3	1		06/12/12 19:11	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.6	1		06/12/12 19:11	98-82-8	
Methyl acetate	ND	ug/kg	46.5	1		06/12/12 19:11	79-20-9	
Methylcyclohexane	ND	ug/kg	9.3	1		06/12/12 19:11	108-87-2	
Methylene Chloride	ND	ug/kg	4.6	1		06/12/12 19:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.3	1		06/12/12 19:11	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		06/12/12 19:11	1634-04-4	
Naphthalene	ND	ug/kg	4.6	1		06/12/12 19:11	91-20-3	
Styrene	ND	ug/kg	4.6	1		06/12/12 19:11	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	1		06/12/12 19:11	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1		06/12/12 19:11	127-18-4	
Toluene	ND	ug/kg	4.6	1		06/12/12 19:11	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		06/12/12 19:11	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		06/12/12 19:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		06/12/12 19:11	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		06/12/12 19:11	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		06/12/12 19:11	75-69-4	

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3071173

Sample: Column107Spoils **Lab ID:** 3071173006 Collected: 06/11/12 13:40 Received: 06/12/12 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	46.5	1		06/12/12 19:11	76-13-1	
Vinyl chloride	ND	ug/kg	4.6	1		06/12/12 19:11	75-01-4	
Xylene (Total)	ND	ug/kg	13.9	1		06/12/12 19:11	1330-20-7	
Surrogates								
Toluene-d8 (S)	98	%	70-130	1		06/12/12 19:11	2037-26-5	
4-Bromofluorobenzene (S)	110	%	70-130	1		06/12/12 19:11	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130	1		06/12/12 19:11	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	18.6	%	0.10	1		06/12/12 17:53		

QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3071173

QC Batch: MSV/12987

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV 5035 Low

Associated Lab Samples: 3071173001, 3071173006

METHOD BLANK: 451399

Matrix: Solid

Associated Lab Samples: 3071173001, 3071173006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	5.0	06/12/12 17:57	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	06/12/12 17:57	
1,1,2-Trichloroethane	ug/kg	ND	5.0	06/12/12 17:57	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	50.0	06/12/12 17:57	
1,1-Dichloroethane	ug/kg	ND	5.0	06/12/12 17:57	
1,1-Dichloroethene	ug/kg	ND	5.0	06/12/12 17:57	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	06/12/12 17:57	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	06/12/12 17:57	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	06/12/12 17:57	
1,2-Dichlorobenzene	ug/kg	ND	5.0	06/12/12 17:57	
1,2-Dichloroethane	ug/kg	ND	5.0	06/12/12 17:57	
1,2-Dichloropropane	ug/kg	ND	5.0	06/12/12 17:57	
1,3-Dichlorobenzene	ug/kg	ND	5.0	06/12/12 17:57	
1,4-Dichlorobenzene	ug/kg	ND	5.0	06/12/12 17:57	
2-Butanone (MEK)	ug/kg	ND	10.0	06/12/12 17:57	
2-Hexanone	ug/kg	ND	10.0	06/12/12 17:57	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	06/12/12 17:57	
Acetone	ug/kg	ND	10.0	06/12/12 17:57	
Benzene	ug/kg	ND	5.0	06/12/12 17:57	
Bromodichloromethane	ug/kg	ND	5.0	06/12/12 17:57	
Bromoform	ug/kg	ND	5.0	06/12/12 17:57	
Bromomethane	ug/kg	ND	5.0	06/12/12 17:57	
Carbon disulfide	ug/kg	ND	5.0	06/12/12 17:57	
Carbon tetrachloride	ug/kg	ND	5.0	06/12/12 17:57	
Chlorobenzene	ug/kg	ND	5.0	06/12/12 17:57	
Chloroethane	ug/kg	ND	5.0	06/12/12 17:57	
Chloroform	ug/kg	ND	5.0	06/12/12 17:57	
Chloromethane	ug/kg	ND	5.0	06/12/12 17:57	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	06/12/12 17:57	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	06/12/12 17:57	
Cyclohexane	ug/kg	ND	10.0	06/12/12 17:57	
Dibromochloromethane	ug/kg	ND	5.0	06/12/12 17:57	
Dichlorodifluoromethane	ug/kg	ND	5.0	06/12/12 17:57	
Ethylbenzene	ug/kg	ND	5.0	06/12/12 17:57	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	06/12/12 17:57	
Methyl acetate	ug/kg	ND	50.0	06/12/12 17:57	
Methyl-tert-butyl ether	ug/kg	ND	5.0	06/12/12 17:57	
Methylcyclohexane	ug/kg	ND	10.0	06/12/12 17:57	
Methylene Chloride	ug/kg	ND	5.0	06/12/12 17:57	
Naphthalene	ug/kg	ND	5.0	06/12/12 17:57	
Styrene	ug/kg	ND	5.0	06/12/12 17:57	
Tetrachloroethene	ug/kg	ND	5.0	06/12/12 17:57	
Toluene	ug/kg	ND	5.0	06/12/12 17:57	

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QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3071173

METHOD BLANK: 451399

Matrix: Solid

Associated Lab Samples: 3071173001, 3071173006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/kg	ND	5.0	06/12/12 17:57	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	06/12/12 17:57	
Trichloroethene	ug/kg	ND	5.0	06/12/12 17:57	
Trichlorofluoromethane	ug/kg	ND	5.0	06/12/12 17:57	
Vinyl chloride	ug/kg	ND	5.0	06/12/12 17:57	
Xylene (Total)	ug/kg	ND	15.0	06/12/12 17:57	
1,2-Dichloroethane-d4 (S)	%	88	70-130	06/12/12 17:57	
4-Bromofluorobenzene (S)	%	100	70-130	06/12/12 17:57	
Toluene-d8 (S)	%	99	70-130	06/12/12 17:57	

LABORATORY CONTROL SAMPLE: 451400

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	20	14.1	70	55-141	
1,1,2,2-Tetrachloroethane	ug/kg	20	15.2	76	58-124	
1,1,2-Trichloroethane	ug/kg	20	15.1	75	70-118	
1,1,2-Trichlorotrifluoroethane	ug/kg	20	16.7J	84	38-196	
1,1-Dichloroethane	ug/kg	20	15.0	75	64-127	
1,1-Dichloroethene	ug/kg	20	14.8	74	50-133	
1,2,4-Trichlorobenzene	ug/kg	20	18.0	90	70-119	
1,2-Dibromo-3-chloropropane	ug/kg	20	13.6	68	54-120	
1,2-Dibromoethane (EDB)	ug/kg	20	15.2	76	67-117	
1,2-Dichlorobenzene	ug/kg	20	16.7	84	67-122	
1,2-Dichloroethane	ug/kg	20	12.8	64	54-132	
1,2-Dichloropropane	ug/kg	20	15.4	77	68-112	
1,3-Dichlorobenzene	ug/kg	20	16.7	84	65-127	
1,4-Dichlorobenzene	ug/kg	20	16.6	83	66-127	
2-Butanone (MEK)	ug/kg	20	17.7	89	54-135	
2-Hexanone	ug/kg	20	17.7	88	58-148	
4-Methyl-2-pentanone (MIBK)	ug/kg	20	16.2	81	55-142	
Acetone	ug/kg	20	8.2J	41	39-200	
Benzene	ug/kg	20	16.4	82	65-130	
Bromodichloromethane	ug/kg	20	12.9	64	57-125	
Bromoform	ug/kg	20	15.3	77	53-121	
Bromomethane	ug/kg	20	9.5	47	30-167	
Carbon disulfide	ug/kg	20	15.5	77	49-150	
Carbon tetrachloride	ug/kg	20	15.7	79	47-146	
Chlorobenzene	ug/kg	20	15.7	79	67-124	
Chloroethane	ug/kg	20	15.4	77	34-170	
Chloroform	ug/kg	20	14.1	70	63-128	
Chloromethane	ug/kg	20	11.8	59	39-159	
cis-1,2-Dichloroethene	ug/kg	20	14.3	71	64-126	
cis-1,3-Dichloropropene	ug/kg	20	15.4	77	66-124	
Cyclohexane	ug/kg	20	17.0	85	37-186	
Dibromochloromethane	ug/kg	20	13.5	67	56-122	

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QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3071173

LABORATORY CONTROL SAMPLE: 451400

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dichlorodifluoromethane	ug/kg	20	15.9	80	10-189	
Ethylbenzene	ug/kg	20	16.5	83	65-131	
Isopropylbenzene (Cumene)	ug/kg	20	18.6	93	64-137	
Methyl acetate	ug/kg	20	13.8J	69	10-200	
Methyl-tert-butyl ether	ug/kg	20	12.9	65	71-130	L0
Methylcyclohexane	ug/kg	20	18.8	94	61-159	
Methylene Chloride	ug/kg	20	13.0	65	45-136	
Naphthalene	ug/kg	20	18.0	90	70-123	
Styrene	ug/kg	20	16.4	82	64-122	
Tetrachloroethene	ug/kg	20	16.6	83	61-138	
Toluene	ug/kg	20	16.4	82	63-132	
trans-1,2-Dichloroethene	ug/kg	20	14.3	71	60-130	
trans-1,3-Dichloropropene	ug/kg	20	13.9	69	58-116	
Trichloroethene	ug/kg	20	15.1	75	65-131	
Trichlorofluoromethane	ug/kg	20	16.6	83	49-148	
Vinyl chloride	ug/kg	20	15.1	75	49-149	
Xylene (Total)	ug/kg	60	48.6	81	65-134	
1,2-Dichloroethane-d4 (S)	%			81	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			102	70-130	

QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3071173

QC Batch: MSV/12989

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV 5035 Low

Associated Lab Samples: 3071173005

METHOD BLANK: 451416

Matrix: Solid

Associated Lab Samples: 3071173005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	5.0	06/13/12 12:39	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	06/13/12 12:39	
1,1,2-Trichloroethane	ug/kg	ND	5.0	06/13/12 12:39	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	50.0	06/13/12 12:39	
1,1-Dichloroethane	ug/kg	ND	5.0	06/13/12 12:39	
1,1-Dichloroethene	ug/kg	ND	5.0	06/13/12 12:39	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	06/13/12 12:39	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	06/13/12 12:39	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	06/13/12 12:39	
1,2-Dichlorobenzene	ug/kg	ND	5.0	06/13/12 12:39	
1,2-Dichloroethane	ug/kg	ND	5.0	06/13/12 12:39	
1,2-Dichloropropane	ug/kg	ND	5.0	06/13/12 12:39	
1,3-Dichlorobenzene	ug/kg	ND	5.0	06/13/12 12:39	
1,4-Dichlorobenzene	ug/kg	ND	5.0	06/13/12 12:39	
2-Butanone (MEK)	ug/kg	ND	10.0	06/13/12 12:39	
2-Hexanone	ug/kg	ND	10.0	06/13/12 12:39	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	06/13/12 12:39	
Acetone	ug/kg	ND	10.0	06/13/12 12:39	
Benzene	ug/kg	ND	5.0	06/13/12 12:39	
Bromodichloromethane	ug/kg	ND	5.0	06/13/12 12:39	
Bromoform	ug/kg	ND	5.0	06/13/12 12:39	
Bromomethane	ug/kg	ND	5.0	06/13/12 12:39	
Carbon disulfide	ug/kg	ND	5.0	06/13/12 12:39	
Carbon tetrachloride	ug/kg	ND	5.0	06/13/12 12:39	
Chlorobenzene	ug/kg	ND	5.0	06/13/12 12:39	
Chloroethane	ug/kg	ND	5.0	06/13/12 12:39	
Chloroform	ug/kg	ND	5.0	06/13/12 12:39	
Chloromethane	ug/kg	ND	5.0	06/13/12 12:39	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	06/13/12 12:39	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	06/13/12 12:39	
Cyclohexane	ug/kg	ND	10.0	06/13/12 12:39	
Dibromochloromethane	ug/kg	ND	5.0	06/13/12 12:39	
Dichlorodifluoromethane	ug/kg	ND	5.0	06/13/12 12:39	
Ethylbenzene	ug/kg	ND	5.0	06/13/12 12:39	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	06/13/12 12:39	
Methyl acetate	ug/kg	ND	50.0	06/13/12 12:39	
Methyl-tert-butyl ether	ug/kg	ND	5.0	06/13/12 12:39	
Methylcyclohexane	ug/kg	ND	10.0	06/13/12 12:39	
Methylene Chloride	ug/kg	ND	5.0	06/13/12 12:39	
Naphthalene	ug/kg	ND	5.0	06/13/12 12:39	
Styrene	ug/kg	ND	5.0	06/13/12 12:39	
Tetrachloroethene	ug/kg	ND	5.0	06/13/12 12:39	
Toluene	ug/kg	ND	5.0	06/13/12 12:39	

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QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3071173

METHOD BLANK: 451416

Matrix: Solid

Associated Lab Samples: 3071173005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/kg	ND	5.0	06/13/12 12:39	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	06/13/12 12:39	
Trichloroethene	ug/kg	ND	5.0	06/13/12 12:39	
Trichlorofluoromethane	ug/kg	ND	5.0	06/13/12 12:39	
Vinyl chloride	ug/kg	ND	5.0	06/13/12 12:39	
Xylene (Total)	ug/kg	ND	15.0	06/13/12 12:39	
1,2-Dichloroethane-d4 (S)	%	99	70-130	06/13/12 12:39	
4-Bromofluorobenzene (S)	%	101	70-130	06/13/12 12:39	
Toluene-d8 (S)	%	97	70-130	06/13/12 12:39	

LABORATORY CONTROL SAMPLE: 451417

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	20	14.6	73	55-141	
1,1,2,2-Tetrachloroethane	ug/kg	20	15.0	75	58-124	
1,1,2-Trichloroethane	ug/kg	20	14.8	74	70-118	
1,1,2-Trichlorotrifluoroethane	ug/kg	20	19.3J	96	38-196	
1,1-Dichloroethane	ug/kg	20	14.5	73	64-127	
1,1-Dichloroethene	ug/kg	20	15.3	76	50-133	
1,2,4-Trichlorobenzene	ug/kg	20	17.0	85	70-119	
1,2-Dibromo-3-chloropropane	ug/kg	20	16.3	82	54-120	
1,2-Dibromoethane (EDB)	ug/kg	20	15.3	77	67-117	
1,2-Dichlorobenzene	ug/kg	20	15.3	77	67-122	
1,2-Dichloroethane	ug/kg	20	13.9	70	54-132	
1,2-Dichloropropane	ug/kg	20	14.5	72	68-112	
1,3-Dichlorobenzene	ug/kg	20	15.6	78	65-127	
1,4-Dichlorobenzene	ug/kg	20	15.5	77	66-127	
2-Butanone (MEK)	ug/kg	20	17.0	85	54-135	
2-Hexanone	ug/kg	20	20.4	102	58-148	
4-Methyl-2-pentanone (MIBK)	ug/kg	20	17.2	86	55-142	
Acetone	ug/kg	20	18.5	92	39-200	
Benzene	ug/kg	20	15.3	76	65-130	
Bromodichloromethane	ug/kg	20	13.5	68	57-125	
Bromoform	ug/kg	20	15.7	79	53-121	
Bromomethane	ug/kg	20	9.4	47	30-167	
Carbon disulfide	ug/kg	20	17.3	87	49-150	
Carbon tetrachloride	ug/kg	20	15.7	79	47-146	
Chlorobenzene	ug/kg	20	14.5	72	67-124	
Chloroethane	ug/kg	20	15.9	79	34-170	
Chloroform	ug/kg	20	13.9	70	63-128	
Chloromethane	ug/kg	20	15.6	78	39-159	
cis-1,2-Dichloroethene	ug/kg	20	13.9	70	64-126	
cis-1,3-Dichloropropene	ug/kg	20	15.4	77	66-124	
Cyclohexane	ug/kg	20	18.1	90	37-186	
Dibromochloromethane	ug/kg	20	13.7	68	56-122	

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QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3071173

LABORATORY CONTROL SAMPLE: 451417

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dichlorodifluoromethane	ug/kg	20	20.1	101	10-189	
Ethylbenzene	ug/kg	20	15.5	77	65-131	
Isopropylbenzene (Cumene)	ug/kg	20	17.2	86	64-137	
Methyl acetate	ug/kg	20	15.6J	78	10-200	
Methyl-tert-butyl ether	ug/kg	20	14.8	74	71-130	
Methylcyclohexane	ug/kg	20	19.3	97	61-159	
Methylene Chloride	ug/kg	20	12.5	63	45-136	
Naphthalene	ug/kg	20	18.2	91	70-123	
Styrene	ug/kg	20	15.2	76	64-122	
Tetrachloroethene	ug/kg	20	15.3	77	61-138	
Toluene	ug/kg	20	14.7	73	63-132	
trans-1,2-Dichloroethene	ug/kg	20	14.2	71	60-130	
trans-1,3-Dichloropropene	ug/kg	20	13.8	69	58-116	
Trichloroethene	ug/kg	20	15.5	77	65-131	
Trichlorofluoromethane	ug/kg	20	17.0	85	49-148	
Vinyl chloride	ug/kg	20	15.7	78	49-149	
Xylene (Total)	ug/kg	60	45.9	77	65-134	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			101	70-130	

QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3071173

QC Batch: MSV/12967 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3071173002, 3071173003, 3071173004

METHOD BLANK: 450831 Matrix: Water

Associated Lab Samples: 3071173002, 3071173003, 3071173004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/12/12 11:31	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/12/12 11:31	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/12/12 11:31	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50.0	06/12/12 11:31	
1,1-Dichloroethane	ug/L	ND	1.0	06/12/12 11:31	
1,1-Dichloroethene	ug/L	ND	1.0	06/12/12 11:31	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	06/12/12 11:31	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	06/12/12 11:31	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	06/12/12 11:31	
1,2-Dichlorobenzene	ug/L	ND	1.0	06/12/12 11:31	
1,2-Dichloroethane	ug/L	ND	1.0	06/12/12 11:31	
1,2-Dichloropropane	ug/L	ND	1.0	06/12/12 11:31	
1,3-Dichlorobenzene	ug/L	ND	1.0	06/12/12 11:31	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/12/12 11:31	
2-Butanone (MEK)	ug/L	ND	10.0	06/12/12 11:31	
2-Hexanone	ug/L	ND	10.0	06/12/12 11:31	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/12/12 11:31	
Acetone	ug/L	ND	10.0	06/12/12 11:31	
Benzene	ug/L	ND	1.0	06/12/12 11:31	
Bromodichloromethane	ug/L	ND	1.0	06/12/12 11:31	
Bromoform	ug/L	ND	1.0	06/12/12 11:31	
Bromomethane	ug/L	ND	1.0	06/12/12 11:31	
Carbon disulfide	ug/L	ND	1.0	06/12/12 11:31	
Carbon tetrachloride	ug/L	ND	1.0	06/12/12 11:31	
Chlorobenzene	ug/L	ND	1.0	06/12/12 11:31	
Chloroethane	ug/L	ND	1.0	06/12/12 11:31	
Chloroform	ug/L	ND	1.0	06/12/12 11:31	
Chloromethane	ug/L	ND	1.0	06/12/12 11:31	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/12/12 11:31	
cis-1,3-Dichloropropene	ug/L	ND	1.0	06/12/12 11:31	
Cyclohexane	ug/L	ND	10.0	06/12/12 11:31	
Dibromochloromethane	ug/L	ND	1.0	06/12/12 11:31	
Dichlorodifluoromethane	ug/L	ND	1.0	06/12/12 11:31	
Ethylbenzene	ug/L	ND	1.0	06/12/12 11:31	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	06/12/12 11:31	
Methyl acetate	ug/L	ND	5.0	06/12/12 11:31	
Methyl-tert-butyl ether	ug/L	ND	1.0	06/12/12 11:31	
Methylcyclohexane	ug/L	ND	10.0	06/12/12 11:31	
Methylene Chloride	ug/L	ND	1.0	06/12/12 11:31	
Naphthalene	ug/L	ND	2.0	06/12/12 11:31	
Styrene	ug/L	ND	1.0	06/12/12 11:31	
Tetrachloroethene	ug/L	ND	1.0	06/12/12 11:31	
Toluene	ug/L	ND	1.0	06/12/12 11:31	

Date: 06/13/2012 04:27 PM

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QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3071173

METHOD BLANK: 450831

Matrix: Water

Associated Lab Samples: 3071173002, 3071173003, 3071173004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/12/12 11:31	
trans-1,3-Dichloropropene	ug/L	ND	1.0	06/12/12 11:31	
Trichloroethene	ug/L	ND	1.0	06/12/12 11:31	
Trichlorofluoromethane	ug/L	ND	1.0	06/12/12 11:31	
Vinyl chloride	ug/L	ND	1.0	06/12/12 11:31	
Xylene (Total)	ug/L	ND	3.0	06/12/12 11:31	
1,2-Dichloroethane-d4 (S)	%	103	70-130	06/12/12 11:31	
4-Bromofluorobenzene (S)	%	99	70-130	06/12/12 11:31	
Toluene-d8 (S)	%	95	70-130	06/12/12 11:31	

LABORATORY CONTROL SAMPLE: 450832

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.4	107	64.3-127	
1,1,2,2-Tetrachloroethane	ug/L	20	18.7	94	64.6-121	
1,1,2-Trichloroethane	ug/L	20	19.6	98	75.6-120	
1,1,2-Trichlorotrifluoroethane	ug/L	20	21.9J	110	34.5-171	
1,1-Dichloroethane	ug/L	20	21.4	107	68.5-122	
1,1-Dichloroethene	ug/L	20	20.8	104	57.1-120	
1,2,4-Trichlorobenzene	ug/L	20	21.1	105	67.6-129	
1,2-Dibromo-3-chloropropane	ug/L	20	18.1	90	56.7-131	
1,2-Dibromoethane (EDB)	ug/L	20	19.5	97	73.6-120	
1,2-Dichlorobenzene	ug/L	20	19.5	97	69.6-120	
1,2-Dichloroethane	ug/L	20	21.2	106	60.5-133	
1,2-Dichloropropane	ug/L	20	19.4	97	71-120	
1,3-Dichlorobenzene	ug/L	20	19.9	100	68.4-121	
1,4-Dichlorobenzene	ug/L	20	20.0	100	68.5-123	
2-Butanone (MEK)	ug/L	20	21.8	109	55.7-138	
2-Hexanone	ug/L	20	19.2	96	67-133	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.5	92	64.5-121	
Acetone	ug/L	20	18.4	92	57.6-168	
Benzene	ug/L	20	19.4	97	69.8-120	
Bromodichloromethane	ug/L	20	19.2	96	66.5-120	
Bromoform	ug/L	20	18.2	91	61.1-120	
Bromomethane	ug/L	20	21.9	109	10.6-200	
Carbon disulfide	ug/L	20	20.4	102	60.2-122	
Carbon tetrachloride	ug/L	20	20.3	102	60.1-127	
Chlorobenzene	ug/L	20	18.7	94	72-120	
Chloroethane	ug/L	20	20.6	103	36.8-142	
Chloroform	ug/L	20	20.4	102	69-122	
Chloromethane	ug/L	20	20.2	101	37.2-129	
cis-1,2-Dichloroethene	ug/L	20	21.3	106	69.5-123	
cis-1,3-Dichloropropene	ug/L	20	19.5	97	74.3-120	
Cyclohexane	ug/L	20	21.4	107	59.4-146	
Dibromochloromethane	ug/L	20	18.0	90	66.1-120	

Date: 06/13/2012 04:27 PM

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QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3071173

LABORATORY CONTROL SAMPLE: 450832

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dichlorodifluoromethane	ug/L	20	15.3	77	14.6-129	
Ethylbenzene	ug/L	20	18.6	93	70.9-124	
Isopropylbenzene (Cumene)	ug/L	20	21.4	107	68.3-129	
Methyl acetate	ug/L	20	14.8	74	43.6-200	
Methyl-tert-butyl ether	ug/L	20	18.7	94	66.4-144	
Methylcyclohexane	ug/L	20	17.5	87	62.2-137	
Methylene Chloride	ug/L	20	20.7	103	61.5-125	
Naphthalene	ug/L	20	21.0	105	61-135	
Styrene	ug/L	20	19.2	96	69.9-120	
Tetrachloroethene	ug/L	20	18.4	92	63.4-121	
Toluene	ug/L	20	19.2	96	71.5-120	
trans-1,2-Dichloroethene	ug/L	20	20.1	100	64.1-120	
trans-1,3-Dichloropropene	ug/L	20	19.2	96	71-120	
Trichloroethene	ug/L	20	18.6	93	65.9-120	
Trichlorofluoromethane	ug/L	20	22.8	114	44.8-137	
Vinyl chloride	ug/L	20	20.6	103	51-127	
Xylene (Total)	ug/L	60	57.2	95	70-129	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			94	70-130	

QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3071173

QC Batch:	PMST/3211	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	3071173001, 3071173005, 3071173006		

SAMPLE DUPLICATE: 451116

Parameter	Units	3071116001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	25.0	26.6	6	

SAMPLE DUPLICATE: 451117

Parameter	Units	3071052003 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	16.3	16.1	2	

QUALIFIERS

Project: EPT Ithaca, NY

Pace Project No.: 3071173

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

BATCH QUALIFIERS

Batch: MSV/12987

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/12989

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

IS The internal standard response is below criteria. Results may be biased high.

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

S0 Surrogate recovery outside laboratory control limits.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: EPT Ithaca, NY

Pace Project No.: 3071173

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3071173001	Stockpile061112	EPA 8260	MSV/12987		
3071173005	Trench Sludge061112	EPA 8260	MSV/12989		
3071173006	Column107Spoils	EPA 8260	MSV/12987		
3071173002	TrenchLiquid061112	EPA 8260	MSV/12967		
3071173003	Building4Pit061112	EPA 8260	MSV/12967		
3071173004	TB061112	EPA 8260	MSV/12967		
3071173001	Stockpile061112	ASTM D2974-87	PMST/3211		
3071173005	Trench Sludge061112	ASTM D2974-87	PMST/3211		
3071173006	Column107Spoils	ASTM D2974-87	PMST/3211		

June 16, 2012

Mr. Scott Petersen
WSP Environment & Energy
5 Sullivan Street
Cazenovia, NY 13035

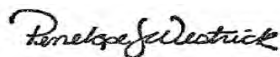
RE: Project: EPT Ithaca, NY
Pace Project No.: 3071174

Dear Mr. Petersen:

Enclosed are the analytical results for sample(s) received by the laboratory on June 12, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Penny Westrick

penny.westrick@pacelabs.com
Project Manager

Enclosures

cc: Mr. Erik Reinert, WSP Environment & Energy



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: EPT Ithaca, NY

Pace Project No.: 3071174

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601

ACCLASS DOD-ELAP Accreditation #: ADE-1544

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California/TNI Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH 0694

Delaware Certification

Florida/TNI Certification #: E87683

Guam/PADEP Certification

Hawaii/PADEP Certification

Idaho Certification

Illinois/PADEP Certification

Indiana/PADEP Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana/TNI Certification #: LA080002

Louisiana/TNI Certification #: 4086

Maine Certification #: PA0091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nevada Certification

New Hampshire/TNI Certification #: 2976

New Jersey/TNI Certification #: PA 051

New Mexico Certification

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188

Utah/TNI Certification #: ANTE

Virgin Island/PADEP Certification

Virginia Certification #: 00112

Virginia VELAP (Cert # 460198)

Washington Certification #: C868

West Virginia Certification #: 143

Wisconsin/PADEP Certification

Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: EPT Ithaca, NY

Pace Project No.: 3071174

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3071174001	Stockpile061112	EPA 8015B Modified	SJG	2	PASI-PA
		EPA 8082	SJG	10	PASI-PA
		EPA 8015B Modified	MAK	3	PASI-PA
		EPA 8270	SPL	18	PASI-PA
		EPA 8260	JAS	13	PASI-PA
		ASTM D2974-87	AJC	1	PASI-PA
3071174002	TrenchSludge061112	EPA 8015B Modified	SJG	2	PASI-PA
		EPA 8015B Modified	MAK	3	PASI-PA
		ASTM D2974-87	AJC	1	PASI-PA
3071174003	Column107Spoils	EPA 8015B Modified	SJG	2	PASI-PA
		EPA 8082	SJG	10	PASI-PA
		EPA 8015B Modified	MAK	3	PASI-PA
		EPA 8270	SPL	18	PASI-PA
		EPA 8260	JAS	13	PASI-PA
		ASTM D2974-87	AJC	1	PASI-PA

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PROJECT NARRATIVE

Project: EPT Ithaca, NY

Pace Project No.: 3071174

Method: EPA 8015B Modified

Description: 8015 GCS THC-Diesel

Client: WSP Environment & Energy - Cazenovia, NY

Date: June 16, 2012

General Information:

3 samples were analyzed for EPA 8015B Modified. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/11752

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- Column107Spoils (Lab ID: 3071174003)
 - o-Terphenyl (S)
- Stockpile061112 (Lab ID: 3071174001)
 - o-Terphenyl (S)
- TrenchSludge061112 (Lab ID: 3071174002)
 - o-Terphenyl (S)

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: EPT Ithaca, NY

Pace Project No.: 3071174

Method: EPA 8015B Modified

Description: 8015 GCS THC-Diesel

Client: WSP Environment & Energy - Cazenovia, NY

Date: June 16, 2012

Analyte Comments:

QC Batch: OEXT/11752

3c: The majority of the area quantitated as DRO for this sample is due to unresolved material eluting beyond C 20.

- Column107Spoils (Lab ID: 3071174003)
 - Diesel Components
- Stockpile061112 (Lab ID: 3071174001)
 - Diesel Components
- TrenchSludge061112 (Lab ID: 3071174002)
 - Diesel Components

4c: The sample most closely resembles the Motor Oil standard from the library.

- TrenchSludge061112 (Lab ID: 3071174002)
 - Diesel Components

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PROJECT NARRATIVE

Project: EPT Ithaca, NY

Pace Project No.: 3071174

Method: EPA 8082

Description: 8082 GCS PCB

Client: WSP Environment & Energy - Cazenovia, NY

Date: June 16, 2012

General Information:

2 samples were analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: OEXT/11756

2c: Recovery of Aroclor in the MS is low. The RPD between MS and MSD is within limits as is the recovery of Aroclor in the LCS. No further action is required.

- MS (Lab ID: 451359)
- PCB-1232 (Aroclor 1232)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: EPT Ithaca, NY

Pace Project No.: 3071174

Method: EPA 8015B Modified

Description: Gasoline Range Organics

Client: WSP Environment & Energy - Cazenovia, NY

Date: June 16, 2012

General Information:

3 samples were analyzed for EPA 8015B Modified. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 5035A/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: EPT Ithaca, NY

Pace Project No.: 3071174

Method: EPA 8270

Description: 8270 MSSV TCLP

Client: WSP Environment & Energy - Cazenovia, NY

Date: June 16, 2012

General Information:

2 samples were analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3535 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: OEXT/11749

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 451246)
- Pyridine

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: EPT Ithaca, NY

Pace Project No.: 3071174

Method: EPA 8270

Description: 8270 MSSV TCLP

Client: WSP Environment & Energy - Cazenovia, NY

Date: June 16, 2012

Analyte Comments:

QC Batch: OEXT/11749

1c: Recovery in the batch MS/MSD was within limits.

- LCS (Lab ID: 451246)
- Pyridine

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PROJECT NARRATIVE

Project: EPT Ithaca, NY

Pace Project No.: 3071174

Method: EPA 8260

Description: 8260 MSV TCLP

Client: WSP Environment & Energy - Cazenovia, NY

Date: June 16, 2012

General Information:

2 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3071174

Sample: Stockpile061112 **Lab ID: 3071174001** Collected: 06/11/12 13:55 Received: 06/12/12 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Diesel Components	743	mg/kg	37.8	5	06/13/12 15:00	06/14/12 17:49		3c
Surrogates								
o-Terphenyl (S)	0	%	50-150	5	06/13/12 15:00	06/14/12 17:49	84-15-1	S4
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	18.7	1	06/13/12 15:45	06/14/12 14:04	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	18.7	1	06/13/12 15:45	06/14/12 14:04	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	18.7	1	06/13/12 15:45	06/14/12 14:04	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	18.7	1	06/13/12 15:45	06/14/12 14:04	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	18.7	1	06/13/12 15:45	06/14/12 14:04	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	18.7	1	06/13/12 15:45	06/14/12 14:04	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	18.7	1	06/13/12 15:45	06/14/12 14:04	11096-82-5	
PCB, Total	ND	ug/kg	18.7	1	06/13/12 15:45	06/14/12 14:04	1336-36-3	
Surrogates								
Tetrachloro-m-xylene (S)	62	%	30-150	1	06/13/12 15:45	06/14/12 14:04	877-09-8	
Decachlorobiphenyl (S)	68	%	30-150	1	06/13/12 15:45	06/14/12 14:04	2051-24-3	
Gasoline Range Organics Analytical Method: EPA 8015B Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND	mg/kg	9.3	1	06/13/12 13:43	06/13/12 14:48		
TPH (C06-C10)	ND	mg/kg	9.3	1	06/13/12 13:43	06/13/12 14:48		
Surrogates								
4-Bromofluorobenzene (S)	107	%	70-130	1	06/13/12 13:43	06/13/12 14:48	460-00-4	
8270 MSSV TCLP Analytical Method: EPA 8270 Preparation Method: EPA 3535								
1,4-Dichlorobenzene	ND	ug/L	500	1	06/13/12 10:00	06/14/12 15:14	106-46-7	
2,4-Dinitrotoluene	ND	ug/L	100	1	06/13/12 10:00	06/14/12 15:14	121-14-2	
Hexachloro-1,3-butadiene	ND	ug/L	100	1	06/13/12 10:00	06/14/12 15:14	87-68-3	
Hexachlorobenzene	ND	ug/L	100	1	06/13/12 10:00	06/14/12 15:14	118-74-1	
Hexachloroethane	ND	ug/L	500	1	06/13/12 10:00	06/14/12 15:14	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	2000	1	06/13/12 10:00	06/14/12 15:14	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2000	1	06/13/12 10:00	06/14/12 15:14		
Nitrobenzene	ND	ug/L	100	1	06/13/12 10:00	06/14/12 15:14	98-95-3	
Pentachlorophenol	ND	ug/L	5000	1	06/13/12 10:00	06/14/12 15:14	87-86-5	
Pyridine	ND	ug/L	500	1	06/13/12 10:00	06/14/12 15:14	110-86-1	
2,4,5-Trichlorophenol	ND	ug/L	5000	1	06/13/12 10:00	06/14/12 15:14	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	100	1	06/13/12 10:00	06/14/12 15:14	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	79	%	35-114	1	06/13/12 10:00	06/14/12 15:14	4165-60-0	
2-Fluorobiphenyl (S)	68	%	43-116	1	06/13/12 10:00	06/14/12 15:14	321-60-8	
Terphenyl-d14 (S)	64	%	33-141	1	06/13/12 10:00	06/14/12 15:14	1718-51-0	
Phenol-d6 (S)	83	%	10-110	1	06/13/12 10:00	06/14/12 15:14	13127-88-3	
2-Fluorophenol (S)	81	%	21-110	1	06/13/12 10:00	06/14/12 15:14	367-12-4	
2,4,6-Tribromophenol (S)	77	%	10-123	1	06/13/12 10:00	06/14/12 15:14	118-79-6	
8260 MSV TCLP Analytical Method: EPA 8260								
Benzene	ND	ug/L	50.0	1		06/14/12 18:07	71-43-2	

Date: 06/16/2012 10:43 AM

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3071174

Sample: Stockpile061112 **Lab ID: 3071174001** Collected: 06/11/12 13:55 Received: 06/12/12 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV TCLP		Analytical Method: EPA 8260						
2-Butanone (MEK)	ND	ug/L	5000	1		06/14/12 18:07	78-93-3	
Carbon tetrachloride	ND	ug/L	50.0	1		06/14/12 18:07	56-23-5	
Chlorobenzene	ND	ug/L	1000	1		06/14/12 18:07	108-90-7	
Chloroform	ND	ug/L	500	1		06/14/12 18:07	67-66-3	
1,2-Dichloroethane	ND	ug/L	50.0	1		06/14/12 18:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	1		06/14/12 18:07	75-35-4	
Tetrachloroethene	ND	ug/L	50.0	1		06/14/12 18:07	127-18-4	
Trichloroethene	ND	ug/L	50.0	1		06/14/12 18:07	79-01-6	
Vinyl chloride	ND	ug/L	50.0	1		06/14/12 18:07	75-01-4	
Surrogates								
1,2-Dichloroethane-d4 (S)	108	%	70-130	1		06/14/12 18:07	17060-07-0	
Toluene-d8 (S)	93	%	70-130	1		06/14/12 18:07	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130	1		06/14/12 18:07	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	13.0	%	0.10	1		06/14/12 15:26		

ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3071174

Sample: TrenchSludge061112 **Lab ID:** 3071174002 Collected: 06/11/12 13:22 Received: 06/12/12 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel								
Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Diesel Components	21900	mg/kg	2000	250	06/13/12 15:00	06/14/12 20:57		3c,4c
Surrogates								
o-Terphenyl (S)	0	%	50-150	250	06/13/12 15:00	06/14/12 20:57	84-15-1	S4
Gasoline Range Organics								
Analytical Method: EPA 8015B Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND	mg/kg	9.3	1	06/13/12 13:43	06/13/12 15:05		
TPH (C06-C10)	ND	mg/kg	9.3	1	06/13/12 13:43	06/13/12 15:05		
Surrogates								
4-Bromofluorobenzene (S)	127	%	70-130	1	06/13/12 13:43	06/13/12 15:05	460-00-4	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	18.1	%	0.10	1		06/14/12 15:27		

ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3071174

Sample: Column107Spoils **Lab ID:** 3071174003 **Collected:** 06/11/12 13:40 **Received:** 06/12/12 09:45 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel								
Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Diesel Components	491	mg/kg	38.4	5	06/13/12 15:00	06/14/12 18:35		3c
Surrogates								
o-Terphenyl (S)	0	%	50-150	5	06/13/12 15:00	06/14/12 18:35	84-15-1	S4
8082 GCS PCB								
Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	19.3	1	06/13/12 15:45	06/14/12 23:18	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	19.3	1	06/13/12 15:45	06/14/12 23:18	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	19.3	1	06/13/12 15:45	06/14/12 23:18	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	19.3	1	06/13/12 15:45	06/14/12 23:18	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	19.3	1	06/13/12 15:45	06/14/12 23:18	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	19.3	1	06/13/12 15:45	06/14/12 23:18	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	19.3	1	06/13/12 15:45	06/14/12 23:18	11096-82-5	
PCB, Total	ND	ug/kg	19.3	1	06/13/12 15:45	06/14/12 23:18	1336-36-3	
Surrogates								
Tetrachloro-m-xylene (S)	57	%	30-150	1	06/13/12 15:45	06/14/12 23:18	877-09-8	
Decachlorobiphenyl (S)	56	%	30-150	1	06/13/12 15:45	06/14/12 23:18	2051-24-3	
Gasoline Range Organics								
Analytical Method: EPA 8015B Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND	mg/kg	11.1	1	06/13/12 13:43	06/13/12 15:22		
TPH (C06-C10)	ND	mg/kg	11.1	1	06/13/12 13:43	06/13/12 15:22		
Surrogates								
4-Bromofluorobenzene (S)	104	%	70-130	1	06/13/12 13:43	06/13/12 15:22	460-00-4	
8270 MSSV TCLP								
Analytical Method: EPA 8270 Preparation Method: EPA 3535								
1,4-Dichlorobenzene	ND	ug/L	500	1	06/13/12 10:00	06/14/12 15:35	106-46-7	
2,4-Dinitrotoluene	ND	ug/L	100	1	06/13/12 10:00	06/14/12 15:35	121-14-2	
Hexachloro-1,3-butadiene	ND	ug/L	100	1	06/13/12 10:00	06/14/12 15:35	87-68-3	
Hexachlorobenzene	ND	ug/L	100	1	06/13/12 10:00	06/14/12 15:35	118-74-1	
Hexachloroethane	ND	ug/L	500	1	06/13/12 10:00	06/14/12 15:35	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	2000	1	06/13/12 10:00	06/14/12 15:35	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2000	1	06/13/12 10:00	06/14/12 15:35		
Nitrobenzene	ND	ug/L	100	1	06/13/12 10:00	06/14/12 15:35	98-95-3	
Pentachlorophenol	ND	ug/L	5000	1	06/13/12 10:00	06/14/12 15:35	87-86-5	
Pyridine	ND	ug/L	500	1	06/13/12 10:00	06/14/12 15:35	110-86-1	
2,4,5-Trichlorophenol	ND	ug/L	5000	1	06/13/12 10:00	06/14/12 15:35	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	100	1	06/13/12 10:00	06/14/12 15:35	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	81	%	35-114	1	06/13/12 10:00	06/14/12 15:35	4165-60-0	
2-Fluorobiphenyl (S)	73	%	43-116	1	06/13/12 10:00	06/14/12 15:35	321-60-8	
Terphenyl-d14 (S)	59	%	33-141	1	06/13/12 10:00	06/14/12 15:35	1718-51-0	
Phenol-d6 (S)	88	%	10-110	1	06/13/12 10:00	06/14/12 15:35	13127-88-3	
2-Fluorophenol (S)	84	%	21-110	1	06/13/12 10:00	06/14/12 15:35	367-12-4	
2,4,6-Tribromophenol (S)	78	%	10-123	1	06/13/12 10:00	06/14/12 15:35	118-79-6	
8260 MSV TCLP								
Analytical Method: EPA 8260								
Benzene	ND	ug/L	50.0	1		06/14/12 18:33	71-43-2	

Date: 06/16/2012 10:43 AM

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3071174

Sample: Column107Spoils **Lab ID:** 3071174003 **Collected:** 06/11/12 13:40 **Received:** 06/12/12 09:45 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV TCLP		Analytical Method: EPA 8260						
2-Butanone (MEK)	ND	ug/L	5000	1		06/14/12 18:33	78-93-3	
Carbon tetrachloride	ND	ug/L	50.0	1		06/14/12 18:33	56-23-5	
Chlorobenzene	ND	ug/L	1000	1		06/14/12 18:33	108-90-7	
Chloroform	ND	ug/L	500	1		06/14/12 18:33	67-66-3	
1,2-Dichloroethane	ND	ug/L	50.0	1		06/14/12 18:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	1		06/14/12 18:33	75-35-4	
Tetrachloroethene	ND	ug/L	50.0	1		06/14/12 18:33	127-18-4	
Trichloroethene	ND	ug/L	50.0	1		06/14/12 18:33	79-01-6	
Vinyl chloride	ND	ug/L	50.0	1		06/14/12 18:33	75-01-4	
Surrogates								
1,2-Dichloroethane-d4 (S)	110	%	70-130	1		06/14/12 18:33	17060-07-0	
Toluene-d8 (S)	93	%	70-130	1		06/14/12 18:33	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130	1		06/14/12 18:33	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	14.1	%	0.10	1		06/14/12 15:28		

QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3071174

QC Batch: GCV/1737 Analysis Method: EPA 8015B Modified
QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
Associated Lab Samples: 3071174001, 3071174002, 3071174003

METHOD BLANK: 451252 Matrix: Solid

Associated Lab Samples: 3071174001, 3071174002, 3071174003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	10.0	06/13/12 13:49	
TPH (C06-C10)	mg/kg	ND	10.0	06/13/12 13:49	
4-Bromofluorobenzene (S)	%	102	70-130	06/13/12 13:49	

LABORATORY CONTROL SAMPLE: 451253

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	50	45.0	90	70-130	
TPH (C06-C10)	mg/kg	50	46.6	93	70-130	
4-Bromofluorobenzene (S)	%			113	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 451254 451255

Parameter	Units	3071052002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Gasoline Range Organics	mg/kg	2.2U	50.2	50.2	58.3	52.2	113	100	70-130	11	
TPH (C06-C10)	mg/kg	2.3U	50.2	50.2	59.3	53.6	114	103	70-130	10	
4-Bromofluorobenzene (S)	%						101	105	70-130		

QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3071174

QC Batch: MSV/12996

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV TCLP

Associated Lab Samples: 3071174001, 3071174003

METHOD BLANK: 451883

Matrix: Water

Associated Lab Samples: 3071174001, 3071174003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	50.0	06/14/12 11:33	
1,2-Dichloroethane	ug/L	ND	50.0	06/14/12 11:33	
2-Butanone (MEK)	ug/L	ND	5000	06/14/12 11:33	
Benzene	ug/L	ND	50.0	06/14/12 11:33	
Carbon tetrachloride	ug/L	ND	50.0	06/14/12 11:33	
Chlorobenzene	ug/L	ND	1000	06/14/12 11:33	
Chloroform	ug/L	ND	500	06/14/12 11:33	
Tetrachloroethene	ug/L	ND	50.0	06/14/12 11:33	
Trichloroethene	ug/L	ND	50.0	06/14/12 11:33	
Vinyl chloride	ug/L	ND	50.0	06/14/12 11:33	
1,2-Dichloroethane-d4 (S)	%	110	70-130	06/14/12 11:33	
4-Bromofluorobenzene (S)	%	101	70-130	06/14/12 11:33	
Toluene-d8 (S)	%	95	70-130	06/14/12 11:33	

METHOD BLANK: 451894

Matrix: Water

Associated Lab Samples: 3071174001, 3071174003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	50.0	06/14/12 17:14	
1,2-Dichloroethane	ug/L	ND	50.0	06/14/12 17:14	
2-Butanone (MEK)	ug/L	ND	5000	06/14/12 17:14	
Benzene	ug/L	ND	50.0	06/14/12 17:14	
Carbon tetrachloride	ug/L	ND	50.0	06/14/12 17:14	
Chlorobenzene	ug/L	ND	1000	06/14/12 17:14	
Chloroform	ug/L	ND	500	06/14/12 17:14	
Tetrachloroethene	ug/L	ND	50.0	06/14/12 17:14	
Trichloroethene	ug/L	ND	50.0	06/14/12 17:14	
Vinyl chloride	ug/L	ND	50.0	06/14/12 17:14	
1,2-Dichloroethane-d4 (S)	%	113	70-130	06/14/12 17:14	
4-Bromofluorobenzene (S)	%	102	70-130	06/14/12 17:14	
Toluene-d8 (S)	%	94	70-130	06/14/12 17:14	

LABORATORY CONTROL SAMPLE: 451884

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	200	209	104	70-130	
1,2-Dichloroethane	ug/L	200	216	108	70-130	
2-Butanone (MEK)	ug/L	200	248J	124	70-130	
Benzene	ug/L	200	194	97	70-130	

QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3071174

LABORATORY CONTROL SAMPLE: 451884

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	200	218	109	70-130	
Chlorobenzene	ug/L	200	185J	93	70-130	
Chloroform	ug/L	200	210J	105	70-130	
Tetrachloroethene	ug/L	200	183	91	70-130	
Trichloroethene	ug/L	200	189	95	70-130	
Vinyl chloride	ug/L	200	223	111	70-130	
1,2-Dichloroethane-d4 (S)	%			109	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			96	70-130	

QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3071174

QC Batch: OEXT/11752 Analysis Method: EPA 8015B Modified

QC Batch Method: EPA 3546 Analysis Description: 8015 Solid GCSV

Associated Lab Samples: 3071174001, 3071174002, 3071174003

METHOD BLANK: 451347 Matrix: Solid

Associated Lab Samples: 3071174001, 3071174002, 3071174003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Components	mg/kg	ND	6.7	06/14/12 16:17	
o-Terphenyl (S)	%	69	50-150	06/14/12 16:17	

LABORATORY CONTROL SAMPLE: 451348

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Components	mg/kg	66.7	50.0	75	50-150	
o-Terphenyl (S)	%			65	50-150	

QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3071174

QC Batch: OEXT/11756

Analysis Method: EPA 8082

QC Batch Method: EPA 3546

Analysis Description: 8082 GCS PCB

Associated Lab Samples: 3071174001, 3071174003

METHOD BLANK: 451357

Matrix: Solid

Associated Lab Samples: 3071174001, 3071174003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	16.7	06/14/12 13:32	
PCB-1221 (Aroclor 1221)	ug/kg	ND	16.7	06/14/12 13:32	
PCB-1232 (Aroclor 1232)	ug/kg	ND	16.7	06/14/12 13:32	
PCB-1242 (Aroclor 1242)	ug/kg	ND	16.7	06/14/12 13:32	
PCB-1248 (Aroclor 1248)	ug/kg	ND	16.7	06/14/12 13:32	
PCB-1254 (Aroclor 1254)	ug/kg	ND	16.7	06/14/12 13:32	
PCB-1260 (Aroclor 1260)	ug/kg	ND	16.7	06/14/12 13:32	
Decachlorobiphenyl (S)	%	60	30-150	06/14/12 13:32	
Tetrachloro-m-xylene (S)	%	70	30-150	06/14/12 13:32	

LABORATORY CONTROL SAMPLE: 451358

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1232 (Aroclor 1232)	ug/kg	167	112	67	55-145	
Decachlorobiphenyl (S)	%			65	30-150	
Tetrachloro-m-xylene (S)	%			69	30-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 451359 451360

Parameter	Units	3071174001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
PCB-1232 (Aroclor 1232)	ug/kg	ND	187	190	98.7	112	53	59	55-145	13	2c
Decachlorobiphenyl (S)	%						75	79	30-150		
Tetrachloro-m-xylene (S)	%						63	66	30-150		

QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3071174

QC Batch: OEXT/11749

Analysis Method: EPA 8270

QC Batch Method: EPA 3535

Analysis Description: 8270 TCLP MSSV

Associated Lab Samples: 3071174001, 3071174003

METHOD BLANK: 451245

Matrix: Water

Associated Lab Samples: 3071174001, 3071174003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	500	06/13/12 20:21	
2,4,5-Trichlorophenol	ug/L	ND	5000	06/13/12 20:21	
2,4,6-Trichlorophenol	ug/L	ND	100	06/13/12 20:21	
2,4-Dinitrotoluene	ug/L	ND	100	06/13/12 20:21	
2-Methylphenol(o-Cresol)	ug/L	ND	2000	06/13/12 20:21	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	2000	06/13/12 20:21	
Hexachloro-1,3-butadiene	ug/L	ND	100	06/13/12 20:21	
Hexachlorobenzene	ug/L	ND	100	06/13/12 20:21	
Hexachloroethane	ug/L	ND	500	06/13/12 20:21	
Nitrobenzene	ug/L	ND	100	06/13/12 20:21	
Pentachlorophenol	ug/L	ND	5000	06/13/12 20:21	
Pyridine	ug/L	ND	500	06/13/12 20:21	
2,4,6-Tribromophenol (S)	%	70	10-123	06/13/12 20:21	
2-Fluorobiphenyl (S)	%	74	43-116	06/13/12 20:21	
2-Fluorophenol (S)	%	88	21-110	06/13/12 20:21	
Nitrobenzene-d5 (S)	%	84	35-114	06/13/12 20:21	
Phenol-d6 (S)	%	94	10-110	06/13/12 20:21	
Terphenyl-d14 (S)	%	77	33-141	06/13/12 20:21	

LABORATORY CONTROL SAMPLE: 451246

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	500	314J	63	25-108	
2,4,5-Trichlorophenol	ug/L	500	259J	52	49-130	
2,4,6-Trichlorophenol	ug/L	500	356	71	49-133	
2,4-Dinitrotoluene	ug/L	500	302	60	31-135	
2-Methylphenol(o-Cresol)	ug/L	500	459J	92	42-132	
3&4-Methylphenol(m&p Cresol)	ug/L	1000	874J	87	42-132	
Hexachloro-1,3-butadiene	ug/L	500	316	63	19-107	
Hexachlorobenzene	ug/L	500	301	60	21-105	
Hexachloroethane	ug/L	500	315J	63	21-105	
Nitrobenzene	ug/L	500	434	87	38-142	
Pentachlorophenol	ug/L	500	214J	43	32-139	
Pyridine	ug/L	500	23.5J	5	10-61	1c, L0
2,4,6-Tribromophenol (S)	%			61	10-123	
2-Fluorobiphenyl (S)	%			74	43-116	
2-Fluorophenol (S)	%			86	21-110	
Nitrobenzene-d5 (S)	%			84	35-114	
Phenol-d6 (S)	%			84	10-110	
Terphenyl-d14 (S)	%			69	33-141	

QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3071174

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 451247 451248											
Parameter	Units	3070981003		MS		MSD		MS		MSD	
		Result	Conc.	Spike	Conc.	Result	Conc.	% Rec	% Rec	Limits	RPD
1,4-Dichlorobenzene	ug/L	ND	500	500	500	277J	381J	55	76	25-108	
2,4,5-Trichlorophenol	ug/L	ND	500	500	500	312J	427J	62	85	49-130	
2,4,6-Trichlorophenol	ug/L	ND	500	500	500	369	451	74	90	49-133	20
2,4-Dinitrotoluene	ug/L	ND	500	500	500	296	349	59	70	31-135	16
2-Methylphenol(o-Cresol)	ug/L	ND	500	500	500	434J	532J	87	106	42-132	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	1000	1000	1000	854J	1050J	85	105	42-132	
Hexachloro-1,3-butadiene	ug/L	ND	500	500	500	306	407	61	81	19-107	28
Hexachlorobenzene	ug/L	ND	500	500	500	295	340	59	68	21-105	14
Hexachloroethane	ug/L	ND	500	500	500	289J	391J	58	78	21-105	
Nitrobenzene	ug/L	ND	500	500	500	404	516	81	103	38-142	24
Pentachlorophenol	ug/L	ND	500	500	500	232J	282J	46	56	32-139	
Pyridine	ug/L	ND	500	500	500	124J	142J	25	28	10-61	
2,4,6-Tribromophenol (S)	%							62	71	10-123	
2-Fluorobiphenyl (S)	%							72	87	43-116	
2-Fluorophenol (S)	%							83	103	21-110	
Nitrobenzene-d5 (S)	%							79	100	35-114	
Phenol-d6 (S)	%							84	104	10-110	
Terphenyl-d14 (S)	%							64	78	33-141	

QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3071174

QC Batch:	PMST/3212	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	3071174001, 3071174002, 3071174003		

SAMPLE DUPLICATE: 452209

Parameter	Units	3071370004 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	19.3	18.2	6	

SAMPLE DUPLICATE: 452210

Parameter	Units	3071370005 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	19.0	19.3	2	

QUALIFIERS

Project: EPT Ithaca, NY

Pace Project No.: 3071174

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

1c	Recovery in the batch MS/MSD was within limits.
2c	Recovery of Aroclor in the MS is low. The RPD between MS and MSD is within limits as is the recovery of Aroclor in the LCS. No further action is required.
3c	The majority of the area quantitated as DRO for this sample is due to unresolved material eluting beyond C 20.
4c	The sample most closely resembles the Motor Oil standard from the library.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: EPT Ithaca, NY

Pace Project No.: 3071174

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3071174001	Stockpile061112	EPA 3546	OEXT/11752	EPA 8015B Modified	GCSV/4534
3071174002	TrenchSludge061112	EPA 3546	OEXT/11752	EPA 8015B Modified	GCSV/4534
3071174003	Column107Spoils	EPA 3546	OEXT/11752	EPA 8015B Modified	GCSV/4534
3071174001	Stockpile061112	EPA 3546	OEXT/11756	EPA 8082	GCSV/4533
3071174003	Column107Spoils	EPA 3546	OEXT/11756	EPA 8082	GCSV/4533
3071174001	Stockpile061112	EPA 5035A/5030B	GCV/1737	EPA 8015B Modified	GCV/1738
3071174002	TrenchSludge061112	EPA 5035A/5030B	GCV/1737	EPA 8015B Modified	GCV/1738
3071174003	Column107Spoils	EPA 5035A/5030B	GCV/1737	EPA 8015B Modified	GCV/1738
3071174001	Stockpile061112	EPA 3535	OEXT/11749	EPA 8270	MSSV/4014
3071174003	Column107Spoils	EPA 3535	OEXT/11749	EPA 8270	MSSV/4014
3071174001	Stockpile061112	EPA 8260	MSV/12996		
3071174003	Column107Spoils	EPA 8260	MSV/12996		
3071174001	Stockpile061112	ASTM D2974-87	PMST/3212		
3071174002	TrenchSludge061112	ASTM D2974-87	PMST/3212		
3071174003	Column107Spoils	ASTM D2974-87	PMST/3212		

July 02, 2012

Mr. Scott Petersen
WSP Environment & Energy
5 Sullivan Street
Cazenovia, NY 13035

RE: Project: EPT Ithaca, NY
Pace Project No.: 3071787

Dear Mr. Petersen:

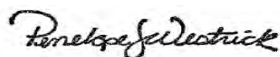
Enclosed are the analytical results for sample(s) received by the laboratory on June 21, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

The samples were subcontracted to Phoenix Environmental Labs, 587 East Middle Turnpike PO Box 370, Manchester, CT 06040 for Petroleum Identification. The results of these analyses are included on the Phoenix Environmental Labs report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Penny Westrick

penny.westrick@pacelabs.com
Project Manager

Enclosures

cc: Mr. Erik Reinert, WSP Environment & Energy



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: EPT Ithaca, NY

Pace Project No.: 3071787

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601

ACCLASS DOD-ELAP Accreditation #: ADE-1544

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California/TNI Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH 0694

Delaware Certification

Florida/TNI Certification #: E87683

Guam/PADEP Certification

Hawaii/PADEP Certification

Idaho Certification

Illinois/PADEP Certification

Indiana/PADEP Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana/TNI Certification #: LA080002

Louisiana/TNI Certification #: 4086

Maine Certification #: PA0091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nevada Certification

New Hampshire/TNI Certification #: 2976

New Jersey/TNI Certification #: PA 051

New Mexico Certification

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188

Utah/TNI Certification #: ANTE

Virgin Island/PADEP Certification

Virginia Certification #: 00112

Virginia VELAP (Cert # 460198)

Washington Certification #: C868

West Virginia Certification #: 143

Wisconsin/PADEP Certification

Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: EPT Ithaca, NY

Pace Project No.: 3071787

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3071787002	Manhole062012	EPA 8015B Modified	CWB	2	PASI-PA
		EPA 8082	SJG	9	PASI-PA
		EPA 5030/8015 Mod.	MAK	2	PASI-PA
		EPA 8270	SPL	75	PASI-PA
		EPA 8260	DJL	46	PASI-PA
		EPA 9012	PM1	1	PASI-PA
3071787003	ManholeDrums062012	EPA 8015B Modified	CWB	2	PASI-PA
		EPA 8082	SJG	9	PASI-PA
		EPA 5030/8015 Mod.	MAK	2	PASI-PA
		EPA 8270	SPL	75	PASI-PA
		EPA 8260	DJL	46	PASI-PA
		EPA 9012	PM1	1	PASI-PA
3071787004	TB062012	EPA 8260	DJL	46	PASI-PA

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: EPT Ithaca, NY

Pace Project No.: 3071787

Method: EPA 8015B Modified

Description: 8015 GCS THC-Diesel

Client: WSP Environment & Energy - Cazenovia, NY

Date: July 02, 2012

General Information:

2 samples were analyzed for EPA 8015B Modified. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/11839

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- Manhole062012 (Lab ID: 3071787002)
- o-Terphenyl (S)

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: GCSV/4561

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

PROJECT NARRATIVE

Project: EPT Ithaca, NY

Pace Project No.: 3071787

Method: EPA 8015B Modified

Description: 8015 GCS THC-Diesel

Client: WSP Environment & Energy - Cazenovia, NY

Date: July 02, 2012

Analyte Comments:

QC Batch: OEXT/11839

1c: The majority of the area quantitated as DRO for this sample is due to unresolved material eluting beyond C 20.

- Manhole062012 (Lab ID: 3071787002)
 - Diesel Components
- ManholeDrums062012 (Lab ID: 3071787003)
 - Diesel Components

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: EPT Ithaca, NY

Pace Project No.: 3071787

Method: EPA 8082

Description: 8082 GCS PCB

Client: WSP Environment & Energy - Cazenovia, NY

Date: July 02, 2012

General Information:

2 samples were analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/11846

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- Manhole062012 (Lab ID: 3071787002)
 - Decachlorobiphenyl (S)
 - Tetrachloro-m-xylene (S)

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: GCSV/4563

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

PROJECT NARRATIVE

Project: EPT Ithaca, NY

Pace Project No.: 3071787

Method: EPA 8082

Description: 8082 GCS PCB

Client: WSP Environment & Energy - Cazenovia, NY

Date: July 02, 2012

Batch Comments:

The following samples were diluted due to the presence of high levels of non-target analytes or other matrix interference, resulting in elevated reporting limits for all analytes: 3071787002.

- QC Batch: GCSV / 4563

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: EPT Ithaca, NY

Pace Project No.: 3071787

Method: EPA 5030/8015 Mod.

Description: Gasoline Range Organics

Client: WSP Environment & Energy - Cazenovia, NY

Date: July 02, 2012

General Information:

2 samples were analyzed for EPA 5030/8015 Mod.. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: EPT Ithaca, NY

Pace Project No.: 3071787

Method: EPA 8270

Description: 8270 MSSV Semivolatile Organic

Client: WSP Environment & Energy - Cazenovia, NY

Date: July 02, 2012

General Information:

2 samples were analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSSV/4055

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: OEXT/11847

N2: The lab does not hold TNI accreditation for this parameter.

- BLANK (Lab ID: 455262)
- 1-Methylnaphthalene

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: EPT Ithaca, NY

Pace Project No.: 3071787

Method: EPA 8270

Description: 8270 MSSV Semivolatile Organic

Client: WSP Environment & Energy - Cazenovia, NY

Date: July 02, 2012

Analyte Comments:

QC Batch: OEXT/11847

N2: The lab does not hold TNI accreditation for this parameter.

- BLANK (Lab ID: 455262)
 - Azobenzene
- LCS (Lab ID: 455263)
 - 1-Methylnaphthalene
 - Azobenzene
- Manhole062012 (Lab ID: 3071787002)
 - Azobenzene
 - 1-Methylnaphthalene
- ManholeDrums062012 (Lab ID: 3071787003)
 - 1-Methylnaphthalene
 - Azobenzene

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: EPT Ithaca, NY

Pace Project No.: 3071787

Method: EPA 8260

Description: 8260 MSV

Client: WSP Environment & Energy - Cazenovia, NY

Date: July 02, 2012

General Information:

3 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/13075

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

- LCS (Lab ID: 455359)
 - 4-Methyl-2-pentanone (MIBK)
 - Carbon disulfide

L3: Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

- LCS (Lab ID: 455359)
 - Chloromethane

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/13075

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 3071348009

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 455360)
 - 2-Hexanone
 - 4-Methyl-2-pentanone (MIBK)
 - Carbon disulfide

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: EPT Ithaca, NY

Pace Project No.: 3071787

Method: EPA 8260

Description: 8260 MSV

Client: WSP Environment & Energy - Cazenovia, NY

Date: July 02, 2012

QC Batch: MSV/13075

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 3071348009

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- Vinyl chloride
- MSD (Lab ID: 455361)
 - Carbon disulfide
 - Chloromethane
 - Vinyl chloride

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: EPT Ithaca, NY

Pace Project No.: 3071787

Method: EPA 9012

Description: 9012 Cyanide, Total

Client: WSP Environment & Energy - Cazenovia, NY

Date: July 02, 2012

General Information:

2 samples were analyzed for EPA 9012. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/10125

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 3071787003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 455119)
- Cyanide

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY
Pace Project No.: 3071787

Sample: Manhole062012		Lab ID: 3071787002	Collected: 06/20/12 12:10	Received: 06/21/12 10:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel		Analytical Method: EPA 8015B Modified Preparation Method: EPA 3510						
Diesel Components	36.3	mg/L	5.3	50	06/22/12 10:45	06/25/12 11:58		1c
Surrogates								
o-Terphenyl (S)	0	%	50-150	50	06/22/12 10:45	06/25/12 11:58	84-15-1	S4
8082 GCS PCB		Analytical Method: EPA 8082 Preparation Method: EPA 3510						
PCB-1016 (Aroclor 1016)	ND	ug/L	5.2	20	06/22/12 14:30	06/25/12 15:06	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	5.2	20	06/22/12 14:30	06/25/12 15:06	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	5.2	20	06/22/12 14:30	06/25/12 15:06	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	5.2	20	06/22/12 14:30	06/25/12 15:06	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	5.2	20	06/22/12 14:30	06/25/12 15:06	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	5.2	20	06/22/12 14:30	06/25/12 15:06	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	5.2	20	06/22/12 14:30	06/25/12 15:06	11096-82-5	
Surrogates								
Tetrachloro-m-xylene (S)	0	%	30-150	20	06/22/12 14:30	06/25/12 15:06	877-09-8	S4
Decachlorobiphenyl (S)	0	%	30-150	20	06/22/12 14:30	06/25/12 15:06	2051-24-3	S4
Gasoline Range Organics		Analytical Method: EPA 5030/8015 Mod.						
TPH (C06-C10)	ND	ug/L	200	1		06/25/12 12:59		
Surrogates								
4-Bromofluorobenzene (S)	105	%	70-130	1		06/25/12 12:59	460-00-4	
8270 MSSV Semivolatile Organic		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Acenaphthene	ND	ug/L	1.1	1	06/22/12 14:30	06/25/12 15:05	83-32-9	
Acenaphthylene	ND	ug/L	1.1	1	06/22/12 14:30	06/25/12 15:05	208-96-8	
Anthracene	ND	ug/L	1.1	1	06/22/12 14:30	06/25/12 15:05	120-12-7	
Azobenzene	ND	ug/L	1.1	1	06/22/12 14:30	06/25/12 15:05	103-33-3	N2
Benzo(a)anthracene	ND	ug/L	1.1	1	06/22/12 14:30	06/25/12 15:05	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.1	1	06/22/12 14:30	06/25/12 15:05	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.1	1	06/22/12 14:30	06/25/12 15:05	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.1	1	06/22/12 14:30	06/25/12 15:05	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.1	1	06/22/12 14:30	06/25/12 15:05	207-08-9	
Benzoic acid	ND	ug/L	109	1	06/22/12 14:30	06/25/12 15:05	65-85-0	
Benzyl alcohol	ND	ug/L	1.1	1	06/22/12 14:30	06/25/12 15:05	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.1	1	06/22/12 14:30	06/25/12 15:05	101-55-3	
Butylbenzylphthalate	ND	ug/L	1.1	1	06/22/12 14:30	06/25/12 15:05	85-68-7	
Carbazole	ND	ug/L	1.1	1	06/22/12 14:30	06/25/12 15:05	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.1	1	06/22/12 14:30	06/25/12 15:05	59-50-7	
4-Chloroaniline	ND	ug/L	1.1	1	06/22/12 14:30	06/25/12 15:05	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.1	1	06/22/12 14:30	06/25/12 15:05	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.1	1	06/22/12 14:30	06/25/12 15:05	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.1	1	06/22/12 14:30	06/25/12 15:05	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.1	1	06/22/12 14:30	06/25/12 15:05	91-58-7	
2-Chlorophenol	ND	ug/L	1.1	1	06/22/12 14:30	06/25/12 15:05	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.1	1	06/22/12 14:30	06/25/12 15:05	7005-72-3	
Chrysene	ND	ug/L	1.1	1	06/22/12 14:30	06/25/12 15:05	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.1	1	06/22/12 14:30	06/25/12 15:05	53-70-3	
Dibenzofuran	ND	ug/L	1.1	1	06/22/12 14:30	06/25/12 15:05	132-64-9	

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3071787

Sample: Manhole062012		Lab ID: 3071787002	Collected: 06/20/12 12:10	Received: 06/21/12 10:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
1,2-Dichlorobenzene	ND ug/L		1.1	1	06/22/12 14:30	06/25/12 15:05	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.1	1	06/22/12 14:30	06/25/12 15:05	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.1	1	06/22/12 14:30	06/25/12 15:05	106-46-7	
3,3'-Dichlorobenzidine	ND ug/L		1.1	1	06/22/12 14:30	06/25/12 15:05	91-94-1	
2,4-Dichlorophenol	ND ug/L		1.1	1	06/22/12 14:30	06/25/12 15:05	120-83-2	
Diethylphthalate	ND ug/L		1.1	1	06/22/12 14:30	06/25/12 15:05	84-66-2	
2,4-Dimethylphenol	ND ug/L		1.1	1	06/22/12 14:30	06/25/12 15:05	105-67-9	
Dimethylphthalate	ND ug/L		1.1	1	06/22/12 14:30	06/25/12 15:05	131-11-3	
Di-n-butylphthalate	ND ug/L		1.1	1	06/22/12 14:30	06/25/12 15:05	84-74-2	
4,6-Dinitro-2-methylphenol	ND ug/L		2.7	1	06/22/12 14:30	06/25/12 15:05	534-52-1	
2,4-Dinitrophenol	ND ug/L		2.7	1	06/22/12 14:30	06/25/12 15:05	51-28-5	
2,4-Dinitrotoluene	ND ug/L		1.1	1	06/22/12 14:30	06/25/12 15:05	121-14-2	
2,6-Dinitrotoluene	ND ug/L		1.1	1	06/22/12 14:30	06/25/12 15:05	606-20-2	
Di-n-octylphthalate	ND ug/L		1.1	1	06/22/12 14:30	06/25/12 15:05	117-84-0	
bis(2-Ethylhexyl)phthalate	ND ug/L		1.1	1	06/22/12 14:30	06/25/12 15:05	117-81-7	
Fluoranthene	ND ug/L		1.1	1	06/22/12 14:30	06/25/12 15:05	206-44-0	
Fluorene	ND ug/L		1.1	1	06/22/12 14:30	06/25/12 15:05	86-73-7	
Hexachloro-1,3-butadiene	ND ug/L		1.1	1	06/22/12 14:30	06/25/12 15:05	87-68-3	
Hexachlorobenzene	ND ug/L		1.1	1	06/22/12 14:30	06/25/12 15:05	118-74-1	
Hexachlorocyclopentadiene	ND ug/L		1.1	1	06/22/12 14:30	06/25/12 15:05	77-47-4	
Hexachloroethane	ND ug/L		1.1	1	06/22/12 14:30	06/25/12 15:05	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/L		1.1	1	06/22/12 14:30	06/25/12 15:05	193-39-5	
Isophorone	ND ug/L		1.1	1	06/22/12 14:30	06/25/12 15:05	78-59-1	
1-Methylnaphthalene	ND ug/L		1.1	1	06/22/12 14:30	06/25/12 15:05	90-12-0	N2
2-Methylnaphthalene	ND ug/L		1.1	1	06/22/12 14:30	06/25/12 15:05	91-57-6	
2-Methylphenol(o-Cresol)	ND ug/L		1.1	1	06/22/12 14:30	06/25/12 15:05	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND ug/L		2.2	1	06/22/12 14:30	06/25/12 15:05		
Naphthalene	ND ug/L		1.1	1	06/22/12 14:30	06/25/12 15:05	91-20-3	
2-Nitroaniline	ND ug/L		2.7	1	06/22/12 14:30	06/25/12 15:05	88-74-4	
3-Nitroaniline	ND ug/L		2.7	1	06/22/12 14:30	06/25/12 15:05	99-09-2	
4-Nitroaniline	ND ug/L		2.7	1	06/22/12 14:30	06/25/12 15:05	100-01-6	
Nitrobenzene	ND ug/L		1.1	1	06/22/12 14:30	06/25/12 15:05	98-95-3	
2-Nitrophenol	ND ug/L		1.1	1	06/22/12 14:30	06/25/12 15:05	88-75-5	
4-Nitrophenol	ND ug/L		1.1	1	06/22/12 14:30	06/25/12 15:05	100-02-7	
N-Nitrosodimethylamine	ND ug/L		1.1	1	06/22/12 14:30	06/25/12 15:05	62-75-9	
N-Nitroso-di-n-propylamine	ND ug/L		1.1	1	06/22/12 14:30	06/25/12 15:05	621-64-7	
N-Nitrosodiphenylamine	ND ug/L		1.1	1	06/22/12 14:30	06/25/12 15:05	86-30-6	
Pentachlorophenol	ND ug/L		2.7	1	06/22/12 14:30	06/25/12 15:05	87-86-5	
Phenanthrene	ND ug/L		1.1	1	06/22/12 14:30	06/25/12 15:05	85-01-8	
Phenol	ND ug/L		1.1	1	06/22/12 14:30	06/25/12 15:05	108-95-2	
Pyrene	ND ug/L		1.1	1	06/22/12 14:30	06/25/12 15:05	129-00-0	
1,2,4-Trichlorobenzene	ND ug/L		1.1	1	06/22/12 14:30	06/25/12 15:05	120-82-1	
2,4,5-Trichlorophenol	ND ug/L		2.7	1	06/22/12 14:30	06/25/12 15:05	95-95-4	
2,4,6-Trichlorophenol	ND ug/L		1.1	1	06/22/12 14:30	06/25/12 15:05	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	71 %		35-114	1	06/22/12 14:30	06/25/12 15:05	4165-60-0	
2-Fluorobiphenyl (S)	71 %		43-116	1	06/22/12 14:30	06/25/12 15:05	321-60-8	

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3071787

Sample: Manhole062012		Lab ID: 3071787002		Collected: 06/20/12 12:10		Received: 06/21/12 10:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8270 MSSV Semivolatile Organic		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Surrogates									
Terphenyl-d14 (S)	140 %		33-141	1	06/22/12 14:30	06/25/12 15:05	1718-51-0		
Phenol-d6 (S)	33 %		10-110	1	06/22/12 14:30	06/25/12 15:05	13127-88-3		
2-Fluorophenol (S)	46 %		21-110	1	06/22/12 14:30	06/25/12 15:05	367-12-4		
2,4,6-Tribromophenol (S)	81 %		10-123	1	06/22/12 14:30	06/25/12 15:05	118-79-6		
8260 MSV		Analytical Method: EPA 8260							
Acetone	ND ug/L		10.0	1		06/23/12 10:19	67-64-1		
Benzene	ND ug/L		1.0	1		06/23/12 10:19	71-43-2		
Bromochloromethane	ND ug/L		1.0	1		06/23/12 10:19	74-97-5		
Bromodichloromethane	ND ug/L		1.0	1		06/23/12 10:19	75-27-4		
Bromoform	ND ug/L		1.0	1		06/23/12 10:19	75-25-2		
Bromomethane	ND ug/L		1.0	1		06/23/12 10:19	74-83-9		
2-Butanone (MEK)	ND ug/L		10.0	1		06/23/12 10:19	78-93-3		
Carbon disulfide	ND ug/L		1.0	1		06/23/12 10:19	75-15-0		
Carbon tetrachloride	ND ug/L		1.0	1		06/23/12 10:19	56-23-5		
Chlorobenzene	ND ug/L		1.0	1		06/23/12 10:19	108-90-7		
Chloroethane	ND ug/L		1.0	1		06/23/12 10:19	75-00-3		
Chloroform	ND ug/L		1.0	1		06/23/12 10:19	67-66-3		
Chloromethane	ND ug/L		1.0	1		06/23/12 10:19	74-87-3		
Dibromochloromethane	ND ug/L		1.0	1		06/23/12 10:19	124-48-1		
1,2-Dichlorobenzene	ND ug/L		1.0	1		06/23/12 10:19	95-50-1		
1,3-Dichlorobenzene	ND ug/L		1.0	1		06/23/12 10:19	541-73-1		
1,4-Dichlorobenzene	ND ug/L		1.0	1		06/23/12 10:19	106-46-7		
1,1-Dichloroethane	ND ug/L		1.0	1		06/23/12 10:19	75-34-3		
1,2-Dichloroethane	ND ug/L		1.0	1		06/23/12 10:19	107-06-2		
1,2-Dichloroethene (Total)	ND ug/L		2.0	1		06/23/12 10:19	540-59-0		
1,1-Dichloroethene	ND ug/L		1.0	1		06/23/12 10:19	75-35-4		
cis-1,2-Dichloroethene	ND ug/L		1.0	1		06/23/12 10:19	156-59-2		
trans-1,2-Dichloroethene	ND ug/L		1.0	1		06/23/12 10:19	156-60-5		
1,2-Dichloropropane	ND ug/L		1.0	1		06/23/12 10:19	78-87-5		
cis-1,3-Dichloropropene	ND ug/L		1.0	1		06/23/12 10:19	10061-01-5		
trans-1,3-Dichloropropene	ND ug/L		1.0	1		06/23/12 10:19	10061-02-6		
Ethylbenzene	ND ug/L		1.0	1		06/23/12 10:19	100-41-4		
2-Hexanone	ND ug/L		10.0	1		06/23/12 10:19	591-78-6		
Methylene Chloride	ND ug/L		1.0	1		06/23/12 10:19	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/23/12 10:19	108-10-1		
Methyl-tert-butyl ether	ND ug/L		1.0	1		06/23/12 10:19	1634-04-4		
Styrene	ND ug/L		1.0	1		06/23/12 10:19	100-42-5		
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/23/12 10:19	79-34-5		
Tetrachloroethene	ND ug/L		1.0	1		06/23/12 10:19	127-18-4		
Toluene	ND ug/L		1.0	1		06/23/12 10:19	108-88-3		
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		06/23/12 10:19	120-82-1		
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/23/12 10:19	71-55-6		
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/23/12 10:19	79-00-5		
Trichloroethene	ND ug/L		1.0	1		06/23/12 10:19	79-01-6		
Vinyl chloride	ND ug/L		1.0	1		06/23/12 10:19	75-01-4		

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3071787

Sample: Manhole062012		Lab ID: 3071787002		Collected: 06/20/12 12:10		Received: 06/21/12 10:00		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Xylene (Total)		ND ug/L		3.0	1		06/23/12 10:19	1330-20-7	
m&p-Xylene		ND ug/L		2.0	1		06/23/12 10:19	179601-23-1	
o-Xylene		ND ug/L		1.0	1		06/23/12 10:19	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)		103 %		70-130	1		06/23/12 10:19	460-00-4	
1,2-Dichloroethane-d4 (S)		119 %		70-130	1		06/23/12 10:19	17060-07-0	
Toluene-d8 (S)		100 %		70-130	1		06/23/12 10:19	2037-26-5	
9012 Cyanide, Total		Analytical Method: EPA 9012							
Cyanide		0.015 mg/L		0.0050	1		06/21/12 23:46	57-12-5	

ANALYTICAL RESULTS

Project: EPT Ithaca, NY
Pace Project No.: 3071787

Sample: ManholeDrums062012		Lab ID: 3071787003	Collected: 06/20/12 13:00	Received: 06/21/12 10:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel		Analytical Method: EPA 8015B Modified Preparation Method: EPA 3510						
Diesel Components	0.66 mg/L		0.10	1	06/22/12 10:45	06/22/12 20:27		1c
Surrogates								
o-Terphenyl (S)	100 %		50-150	1	06/22/12 10:45	06/22/12 20:27	84-15-1	
8082 GCS PCB		Analytical Method: EPA 8082 Preparation Method: EPA 3510						
PCB-1016 (Aroclor 1016)	ND ug/L		0.25	1	06/22/12 14:30	06/25/12 13:51	12674-11-2	
PCB-1221 (Aroclor 1221)	ND ug/L		0.25	1	06/22/12 14:30	06/25/12 13:51	11104-28-2	
PCB-1232 (Aroclor 1232)	ND ug/L		0.25	1	06/22/12 14:30	06/25/12 13:51	11141-16-5	
PCB-1242 (Aroclor 1242)	ND ug/L		0.25	1	06/22/12 14:30	06/25/12 13:51	53469-21-9	
PCB-1248 (Aroclor 1248)	ND ug/L		0.25	1	06/22/12 14:30	06/25/12 13:51	12672-29-6	
PCB-1254 (Aroclor 1254)	ND ug/L		0.25	1	06/22/12 14:30	06/25/12 13:51	11097-69-1	
PCB-1260 (Aroclor 1260)	ND ug/L		0.25	1	06/22/12 14:30	06/25/12 13:51	11096-82-5	
Surrogates								
Tetrachloro-m-xylene (S)	62 %		30-150	1	06/22/12 14:30	06/25/12 13:51	877-09-8	
Decachlorobiphenyl (S)	53 %		30-150	1	06/22/12 14:30	06/25/12 13:51	2051-24-3	
Gasoline Range Organics		Analytical Method: EPA 5030/8015 Mod.						
TPH (C06-C10)	ND ug/L		200	1		06/25/12 13:49		
Surrogates								
4-Bromofluorobenzene (S)	96 %		70-130	1		06/25/12 13:49	460-00-4	
8270 MSSV Semivolatile Organic		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Acenaphthene	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	83-32-9	
Acenaphthylene	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	208-96-8	
Anthracene	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	120-12-7	
Azobenzene	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	103-33-3	N2
Benzo(a)anthracene	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	56-55-3	
Benzo(a)pyrene	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	50-32-8	
Benzo(b)fluoranthene	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	191-24-2	
Benzo(k)fluoranthene	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	207-08-9	
Benzoic acid	ND ug/L		101	1	06/22/12 14:30	06/25/12 15:26	65-85-0	
Benzyl alcohol	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	100-51-6	
4-Bromophenylphenyl ether	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	101-55-3	
Butylbenzylphthalate	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	85-68-7	
Carbazole	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	86-74-8	
4-Chloro-3-methylphenol	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	59-50-7	
4-Chloroaniline	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	106-47-8	
bis(2-Chloroethoxy)methane	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	111-91-1	
bis(2-Chloroethyl) ether	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	108-60-1	
2-Chloronaphthalene	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	91-58-7	
2-Chlorophenol	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	95-57-8	
4-Chlorophenylphenyl ether	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	7005-72-3	
Chrysene	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	53-70-3	
Dibenzofuran	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	132-64-9	

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3071787

Sample: ManholeDrums062012		Lab ID: 3071787003	Collected: 06/20/12 13:00	Received: 06/21/12 10:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
1,2-Dichlorobenzene	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	106-46-7	
3,3'-Dichlorobenzidine	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	91-94-1	
2,4-Dichlorophenol	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	120-83-2	
Diethylphthalate	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	84-66-2	
2,4-Dimethylphenol	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	105-67-9	
Dimethylphthalate	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	131-11-3	
Di-n-butylphthalate	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	84-74-2	
4,6-Dinitro-2-methylphenol	ND ug/L		2.5	1	06/22/12 14:30	06/25/12 15:26	534-52-1	
2,4-Dinitrophenol	ND ug/L		2.5	1	06/22/12 14:30	06/25/12 15:26	51-28-5	
2,4-Dinitrotoluene	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	121-14-2	
2,6-Dinitrotoluene	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	606-20-2	
Di-n-octylphthalate	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	117-84-0	
bis(2-Ethylhexyl)phthalate	1.0 ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	117-81-7	
Fluoranthene	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	206-44-0	
Fluorene	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	86-73-7	
Hexachloro-1,3-butadiene	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	87-68-3	
Hexachlorobenzene	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	118-74-1	
Hexachlorocyclopentadiene	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	77-47-4	
Hexachloroethane	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	193-39-5	
Isophorone	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	78-59-1	
1-Methylnaphthalene	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	90-12-0	N2
2-Methylnaphthalene	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	91-57-6	
2-Methylphenol(o-Cresol)	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND ug/L		2.0	1	06/22/12 14:30	06/25/12 15:26		
Naphthalene	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	91-20-3	
2-Nitroaniline	ND ug/L		2.5	1	06/22/12 14:30	06/25/12 15:26	88-74-4	
3-Nitroaniline	ND ug/L		2.5	1	06/22/12 14:30	06/25/12 15:26	99-09-2	
4-Nitroaniline	ND ug/L		2.5	1	06/22/12 14:30	06/25/12 15:26	100-01-6	
Nitrobenzene	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	98-95-3	
2-Nitrophenol	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	88-75-5	
4-Nitrophenol	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	100-02-7	
N-Nitrosodimethylamine	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	62-75-9	
N-Nitroso-di-n-propylamine	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	621-64-7	
N-Nitrosodiphenylamine	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	86-30-6	
Pentachlorophenol	ND ug/L		2.5	1	06/22/12 14:30	06/25/12 15:26	87-86-5	
Phenanthrene	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	85-01-8	
Phenol	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	108-95-2	
Pyrene	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	129-00-0	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	120-82-1	
2,4,5-Trichlorophenol	ND ug/L		2.5	1	06/22/12 14:30	06/25/12 15:26	95-95-4	
2,4,6-Trichlorophenol	ND ug/L		1.0	1	06/22/12 14:30	06/25/12 15:26	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	79 %		35-114	1	06/22/12 14:30	06/25/12 15:26	4165-60-0	
2-Fluorobiphenyl (S)	83 %		43-116	1	06/22/12 14:30	06/25/12 15:26	321-60-8	

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3071787

Sample: ManholeDrums062012		Lab ID: 3071787003		Collected: 06/20/12 13:00		Received: 06/21/12 10:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8270 MSSV Semivolatile Organic		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Surrogates									
Terphenyl-d14 (S)	137 %		33-141	1	06/22/12 14:30	06/25/12 15:26	1718-51-0		
Phenol-d6 (S)	36 %		10-110	1	06/22/12 14:30	06/25/12 15:26	13127-88-3		
2-Fluorophenol (S)	51 %		21-110	1	06/22/12 14:30	06/25/12 15:26	367-12-4		
2,4,6-Tribromophenol (S)	89 %		10-123	1	06/22/12 14:30	06/25/12 15:26	118-79-6		
8260 MSV		Analytical Method: EPA 8260							
Acetone	ND ug/L		10.0	1		06/23/12 09:54	67-64-1		
Benzene	ND ug/L		1.0	1		06/23/12 09:54	71-43-2		
Bromochloromethane	ND ug/L		1.0	1		06/23/12 09:54	74-97-5		
Bromodichloromethane	ND ug/L		1.0	1		06/23/12 09:54	75-27-4		
Bromoform	ND ug/L		1.0	1		06/23/12 09:54	75-25-2		
Bromomethane	ND ug/L		1.0	1		06/23/12 09:54	74-83-9		
2-Butanone (MEK)	ND ug/L		10.0	1		06/23/12 09:54	78-93-3		
Carbon disulfide	ND ug/L		1.0	1		06/23/12 09:54	75-15-0		
Carbon tetrachloride	ND ug/L		1.0	1		06/23/12 09:54	56-23-5		
Chlorobenzene	ND ug/L		1.0	1		06/23/12 09:54	108-90-7		
Chloroethane	ND ug/L		1.0	1		06/23/12 09:54	75-00-3		
Chloroform	ND ug/L		1.0	1		06/23/12 09:54	67-66-3		
Chloromethane	ND ug/L		1.0	1		06/23/12 09:54	74-87-3		
Dibromochloromethane	ND ug/L		1.0	1		06/23/12 09:54	124-48-1		
1,2-Dichlorobenzene	ND ug/L		1.0	1		06/23/12 09:54	95-50-1		
1,3-Dichlorobenzene	ND ug/L		1.0	1		06/23/12 09:54	541-73-1		
1,4-Dichlorobenzene	ND ug/L		1.0	1		06/23/12 09:54	106-46-7		
1,1-Dichloroethane	ND ug/L		1.0	1		06/23/12 09:54	75-34-3		
1,2-Dichloroethane	ND ug/L		1.0	1		06/23/12 09:54	107-06-2		
1,2-Dichloroethene (Total)	ND ug/L		2.0	1		06/23/12 09:54	540-59-0		
1,1-Dichloroethene	ND ug/L		1.0	1		06/23/12 09:54	75-35-4		
cis-1,2-Dichloroethene	ND ug/L		1.0	1		06/23/12 09:54	156-59-2		
trans-1,2-Dichloroethene	ND ug/L		1.0	1		06/23/12 09:54	156-60-5		
1,2-Dichloropropane	ND ug/L		1.0	1		06/23/12 09:54	78-87-5		
cis-1,3-Dichloropropene	ND ug/L		1.0	1		06/23/12 09:54	10061-01-5		
trans-1,3-Dichloropropene	ND ug/L		1.0	1		06/23/12 09:54	10061-02-6		
Ethylbenzene	ND ug/L		1.0	1		06/23/12 09:54	100-41-4		
2-Hexanone	ND ug/L		10.0	1		06/23/12 09:54	591-78-6		
Methylene Chloride	ND ug/L		1.0	1		06/23/12 09:54	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/23/12 09:54	108-10-1		
Methyl-tert-butyl ether	ND ug/L		1.0	1		06/23/12 09:54	1634-04-4		
Styrene	ND ug/L		1.0	1		06/23/12 09:54	100-42-5		
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/23/12 09:54	79-34-5		
Tetrachloroethene	ND ug/L		1.0	1		06/23/12 09:54	127-18-4		
Toluene	ND ug/L		1.0	1		06/23/12 09:54	108-88-3		
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		06/23/12 09:54	120-82-1		
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/23/12 09:54	71-55-6		
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/23/12 09:54	79-00-5		
Trichloroethene	ND ug/L		1.0	1		06/23/12 09:54	79-01-6		
Vinyl chloride	ND ug/L		1.0	1		06/23/12 09:54	75-01-4		

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3071787

Sample: ManholeDrums062012		Lab ID: 3071787003	Collected: 06/20/12 13:00	Received: 06/21/12 10:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Xylene (Total)	ND ug/L		3.0	1		06/23/12 09:54	1330-20-7	
m&p-Xylene	ND ug/L		2.0	1		06/23/12 09:54	179601-23-1	
o-Xylene	ND ug/L		1.0	1		06/23/12 09:54	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	103 %		70-130	1		06/23/12 09:54	460-00-4	
1,2-Dichloroethane-d4 (S)	120 %		70-130	1		06/23/12 09:54	17060-07-0	
Toluene-d8 (S)	102 %		70-130	1		06/23/12 09:54	2037-26-5	
9012 Cyanide, Total		Analytical Method: EPA 9012						
Cyanide	0.0099 mg/L		0.0050	1		06/21/12 23:46	57-12-5	

ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3071787

Sample: TB062012		Lab ID: 3071787004	Collected: 06/20/12 00:01	Received: 06/21/12 10:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		10.0	1		06/23/12 09:30	67-64-1	
Benzene	ND ug/L		1.0	1		06/23/12 09:30	71-43-2	
Bromochloromethane	ND ug/L		1.0	1		06/23/12 09:30	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		06/23/12 09:30	75-27-4	
Bromoform	ND ug/L		1.0	1		06/23/12 09:30	75-25-2	
Bromomethane	ND ug/L		1.0	1		06/23/12 09:30	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/23/12 09:30	78-93-3	
Carbon disulfide	ND ug/L		1.0	1		06/23/12 09:30	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		06/23/12 09:30	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		06/23/12 09:30	108-90-7	
Chloroethane	ND ug/L		1.0	1		06/23/12 09:30	75-00-3	
Chloroform	ND ug/L		1.0	1		06/23/12 09:30	67-66-3	
Chloromethane	ND ug/L		1.0	1		06/23/12 09:30	74-87-3	
Dibromochloromethane	ND ug/L		1.0	1		06/23/12 09:30	124-48-1	
1,2-Dichlorobenzene	ND ug/L		1.0	1		06/23/12 09:30	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		06/23/12 09:30	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		06/23/12 09:30	106-46-7	
1,1-Dichloroethane	ND ug/L		1.0	1		06/23/12 09:30	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		06/23/12 09:30	107-06-2	
1,2-Dichloroethene (Total)	ND ug/L		2.0	1		06/23/12 09:30	540-59-0	
1,1-Dichloroethene	ND ug/L		1.0	1		06/23/12 09:30	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		06/23/12 09:30	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		06/23/12 09:30	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		06/23/12 09:30	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		06/23/12 09:30	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		06/23/12 09:30	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		06/23/12 09:30	100-41-4	
2-Hexanone	ND ug/L		10.0	1		06/23/12 09:30	591-78-6	
Methylene Chloride	2.4 ug/L		1.0	1		06/23/12 09:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/23/12 09:30	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		06/23/12 09:30	1634-04-4	
Styrene	ND ug/L		1.0	1		06/23/12 09:30	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/23/12 09:30	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		06/23/12 09:30	127-18-4	
Toluene	ND ug/L		1.0	1		06/23/12 09:30	108-88-3	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		06/23/12 09:30	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/23/12 09:30	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/23/12 09:30	79-00-5	
Trichloroethene	ND ug/L		1.0	1		06/23/12 09:30	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		06/23/12 09:30	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		06/23/12 09:30	1330-20-7	
m&p-Xylene	ND ug/L		2.0	1		06/23/12 09:30	179601-23-1	
o-Xylene	ND ug/L		1.0	1		06/23/12 09:30	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99 %		70-130	1		06/23/12 09:30	460-00-4	
1,2-Dichloroethane-d4 (S)	121 %		70-130	1		06/23/12 09:30	17060-07-0	
Toluene-d8 (S)	103 %		70-130	1		06/23/12 09:30	2037-26-5	

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QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3071787

QC Batch:	GCV/1744	Analysis Method:	EPA 5030/8015 Mod.
QC Batch Method:	EPA 5030/8015 Mod.	Analysis Description:	Gasoline Range Organics
Associated Lab Samples:	3071787002, 3071787003		

METHOD BLANK: 455992 Matrix: Water

Associated Lab Samples: 3071787002, 3071787003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH (C06-C10)	ug/L	ND	200	06/25/12 12:42	
4-Bromofluorobenzene (S)	%	111	70-130	06/25/12 12:42	

LABORATORY CONTROL SAMPLE: 455993

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH (C06-C10)	ug/L	1000	850	85	70-130	
4-Bromofluorobenzene (S)	%			110	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 455994 455995

Parameter	Units	3071787002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
TPH (C06-C10)	ug/L	ND	1000	1000	793	868	77	85	70-130	9	
4-Bromofluorobenzene (S)	%						103	105	70-130		

QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3071787

QC Batch: MSV/13075 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3071787002, 3071787003, 3071787004

METHOD BLANK: 455358 Matrix: Water

Associated Lab Samples: 3071787002, 3071787003, 3071787004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/23/12 09:05	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/23/12 09:05	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/23/12 09:05	
1,1-Dichloroethane	ug/L	ND	1.0	06/23/12 09:05	
1,1-Dichloroethene	ug/L	ND	1.0	06/23/12 09:05	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	06/23/12 09:05	
1,2-Dichlorobenzene	ug/L	ND	1.0	06/23/12 09:05	
1,2-Dichloroethane	ug/L	ND	1.0	06/23/12 09:05	
1,2-Dichloropropane	ug/L	ND	1.0	06/23/12 09:05	
1,3-Dichlorobenzene	ug/L	ND	1.0	06/23/12 09:05	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/23/12 09:05	
2-Butanone (MEK)	ug/L	ND	10.0	06/23/12 09:05	
2-Hexanone	ug/L	ND	10.0	06/23/12 09:05	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/23/12 09:05	
Acetone	ug/L	ND	10.0	06/23/12 09:05	
Benzene	ug/L	ND	1.0	06/23/12 09:05	
Bromochloromethane	ug/L	ND	1.0	06/23/12 09:05	
Bromodichloromethane	ug/L	ND	1.0	06/23/12 09:05	
Bromoform	ug/L	ND	1.0	06/23/12 09:05	
Bromomethane	ug/L	ND	1.0	06/23/12 09:05	
Carbon disulfide	ug/L	ND	1.0	06/23/12 09:05	
Carbon tetrachloride	ug/L	ND	1.0	06/23/12 09:05	
Chlorobenzene	ug/L	ND	1.0	06/23/12 09:05	
Chloroethane	ug/L	ND	1.0	06/23/12 09:05	
Chloroform	ug/L	ND	1.0	06/23/12 09:05	
Chloromethane	ug/L	ND	1.0	06/23/12 09:05	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/23/12 09:05	
cis-1,3-Dichloropropene	ug/L	ND	1.0	06/23/12 09:05	
Dibromochloromethane	ug/L	ND	1.0	06/23/12 09:05	
Ethylbenzene	ug/L	ND	1.0	06/23/12 09:05	
m&p-Xylene	ug/L	ND	2.0	06/23/12 09:05	
Methyl-tert-butyl ether	ug/L	ND	1.0	06/23/12 09:05	
Methylene Chloride	ug/L	ND	1.0	06/23/12 09:05	
o-Xylene	ug/L	ND	1.0	06/23/12 09:05	
Styrene	ug/L	ND	1.0	06/23/12 09:05	
Tetrachloroethene	ug/L	ND	1.0	06/23/12 09:05	
Toluene	ug/L	ND	1.0	06/23/12 09:05	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/23/12 09:05	
trans-1,3-Dichloropropene	ug/L	ND	1.0	06/23/12 09:05	
Trichloroethene	ug/L	ND	1.0	06/23/12 09:05	
Vinyl chloride	ug/L	ND	1.0	06/23/12 09:05	
Xylene (Total)	ug/L	ND	3.0	06/23/12 09:05	
1,2-Dichloroethane-d4 (S)	%	121	70-130	06/23/12 09:05	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3071787

METHOD BLANK: 455358

Matrix: Water

Associated Lab Samples: 3071787002, 3071787003, 3071787004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4-Bromofluorobenzene (S)	%	100	70-130	06/23/12 09:05	
Toluene-d8 (S)	%	102	70-130	06/23/12 09:05	

LABORATORY CONTROL SAMPLE: 455359

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.4	102	64.3-127	
1,1,2,2-Tetrachloroethane	ug/L	20	17.8	89	64.6-121	
1,1,2-Trichloroethane	ug/L	20	18.8	94	75.6-120	
1,1-Dichloroethane	ug/L	20	23.2	116	68.5-122	
1,1-Dichloroethene	ug/L	20	23.4	117	57.1-120	
1,2,4-Trichlorobenzene	ug/L	20	21.3	107	67.6-129	
1,2-Dichlorobenzene	ug/L	20	18.7	94	69.6-120	
1,2-Dichloroethane	ug/L	20	21.4	107	60.5-133	
1,2-Dichloropropane	ug/L	20	21.6	108	71-120	
1,3-Dichlorobenzene	ug/L	20	18.7	94	68.4-121	
1,4-Dichlorobenzene	ug/L	20	18.2	91	68.5-123	
2-Butanone (MEK)	ug/L	20	25.5	127	55.7-138	
2-Hexanone	ug/L	20	24.7	124	67-133	
4-Methyl-2-pentanone (MIBK)	ug/L	20	25.2	126	64.5-121	L1
Acetone	ug/L	20	24.3	121	57.6-168	
Benzene	ug/L	20	20.5	103	69.8-120	
Bromochloromethane	ug/L	20	16.5	83	65.5-125	
Bromodichloromethane	ug/L	20	19.9	99	66.5-120	
Bromoform	ug/L	20	17.6	88	61.1-120	
Bromomethane	ug/L	20	26.2	131	10.6-200	
Carbon disulfide	ug/L	20	25.9	130	60.2-122	L1
Carbon tetrachloride	ug/L	20	20.4	102	60.1-127	
Chlorobenzene	ug/L	20	19.2	96	72-120	
Chloroethane	ug/L	20	27.3	137	36.8-142	
Chloroform	ug/L	20	20.6	103	69-122	
Chloromethane	ug/L	20	28.2	141	37.2-129	CU,L3
cis-1,2-Dichloroethene	ug/L	20	23.0	115	69.5-123	
cis-1,3-Dichloropropene	ug/L	20	19.3	96	74.3-120	
Dibromochloromethane	ug/L	20	18.8	94	66.1-120	
Ethylbenzene	ug/L	20	19.1	95	70.9-124	
m&p-Xylene	ug/L	40	40.1	100	70.4-130	
Methyl-tert-butyl ether	ug/L	20	22.3	112	66.4-144	
Methylene Chloride	ug/L	20	19.4	97	61.5-125	
o-Xylene	ug/L	20	19.2	96	70.6-127	
Styrene	ug/L	20	20.0	100	69.9-120	
Tetrachloroethene	ug/L	20	17.0	85	63.4-121	
Toluene	ug/L	20	20.5	103	71.5-120	
trans-1,2-Dichloroethene	ug/L	20	21.7	109	64.1-120	
trans-1,3-Dichloropropene	ug/L	20	19.3	96	71-120	

QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3071787

LABORATORY CONTROL SAMPLE: 455359

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	20	17.5	88	65.9-120	
Vinyl chloride	ug/L	20	24.1	120	51-127	
Xylene (Total)	ug/L	60	59.3	99	70-129	
1,2-Dichloroethane-d4 (S)	%			114	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 455360 455361

Parameter	Units	3071348009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	21.1	17.8	105	89	64.3-127	17	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.3	16.1	96	81	64.6-121	18	
1,1,2-Trichloroethane	ug/L	ND	20	20	19.7	17.1	99	86	75.6-120	14	
1,1-Dichloroethane	ug/L	ND	20	20	22.7	18.4	113	92	68.5-122	21	
1,1-Dichloroethene	ug/L	ND	20	20	21.0	18.4	105	92	57.1-120	13	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	18.3	17.9	91	90	67.6-129	2	
1,2-Dichlorobenzene	ug/L	ND	20	20	18.5	17.4	92	87	69.6-120	6	
1,2-Dichloroethane	ug/L	ND	20	20	19.8	16.6	99	83	60.5-133	18	
1,2-Dichloropropane	ug/L	ND	20	20	20.7	17.6	104	88	71-120	16	
1,3-Dichlorobenzene	ug/L	ND	20	20	17.6	16.9	88	85	68.4-121	4	
1,4-Dichlorobenzene	ug/L	ND	20	20	17.9	16.8	90	84	68.5-123	7	
2-Butanone (MEK)	ug/L	ND	20	20	24.5	19.8	122	99	55.7-138	21	
2-Hexanone	ug/L	ND	20	20	26.8	21.9	134	110	67-133	20	M0
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	26.7	21.9	133	109	64.5-121	20	M0
Acetone	ug/L	ND	20	20	24.0	22.7	110	104	57.6-168	6	
Benzene	ug/L	ND	20	20	21.8	18.4	108	91	69.8-120	17	
Bromochloromethane	ug/L	ND	20	20	20.5	17.5	103	87	65.5-125	16	
Bromodichloromethane	ug/L	ND	20	20	19.4	16.3	97	82	66.5-120	17	
Bromoform	ug/L	ND	20	20	16.3	14.7	81	73	61.1-120	11	
Bromomethane	ug/L	ND	20	20	22.0	20.3	110	102	10.6-200	8	
Carbon disulfide	ug/L	ND	20	20	27.1	26.1	135	130	60.2-122	4	M0
Carbon tetrachloride	ug/L	ND	20	20	19.6	17.1	98	86	60.1-127	13	
Chlorobenzene	ug/L	ND	20	20	19.3	17.8	96	89	72-120	8	
Chloroethane	ug/L	ND	20	20	27.3	27.1	137	136	36.8-142	.7	
Chloroform	ug/L	ND	20	20	20.6	17.2	103	86	69-122	18	
Chloromethane	ug/L	ND	20	20	25.9	28.0	129	140	37.2-129	8	M0
cis-1,2-Dichloroethene	ug/L	ND	20	20	21.5	18.1	108	91	69.5-123	17	
cis-1,3-Dichloropropene	ug/L	ND	20	20	19.3	16.5	96	83	74.3-120	15	
Dibromochloromethane	ug/L	ND	20	20	18.3	16.2	92	81	66.1-120	12	
Ethylbenzene	ug/L	ND	20	20	20.2	18.3	101	91	70.9-124	10	
m&p-Xylene	ug/L	ND	40	40	39.7	36.9	99	92	70.4-130	7	
Methyl-tert-butyl ether	ug/L	ND	20	20	21.0	19.5	105	98	66.4-144	7	
Methylene Chloride	ug/L	ND	20	20	18.3	14.9	92	75	61.5-125	20	
o-Xylene	ug/L	ND	20	20	20.1	18.6	100	93	70.6-127	8	
Styrene	ug/L	ND	20	20	19.2	18.3	96	91	69.9-120	5	
Tetrachloroethene	ug/L	ND	20	20	18.6	17.5	93	87	63.4-121	6	

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QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3071787

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 455360 455361											
Parameter	Units	3071348009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Toluene	ug/L	ND	20	20	21.1	18.8	105	94	71.5-120	11	
trans-1,2-Dichloroethene	ug/L	ND	20	20	20.5	17.0	103	85	64.1-120	19	
trans-1,3-Dichloropropene	ug/L	ND	20	20	19.3	16.5	96	83	71-120	15	
Trichloroethene	ug/L	ND	20	20	19.5	17.5	98	88	65.9-120	11	
Vinyl chloride	ug/L	ND	20	20	28.1	28.2	140	141	51-127	.7	M0
Xylene (Total)	ug/L	ND	60	60	59.8	55.5	100	93	70-129	7	
1,2-Dichloroethane-d4 (S)	%						99	95	70-130		
4-Bromofluorobenzene (S)	%						98	97	70-130		
Toluene-d8 (S)	%						101	101	70-130		

QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3071787

QC Batch:	OEXT/11839	Analysis Method:	EPA 8015B Modified
QC Batch Method:	EPA 3510	Analysis Description:	8015 GCS
Associated Lab Samples: 3071787002, 3071787003			

METHOD BLANK: 455136 Matrix: Water

Associated Lab Samples: 3071787002, 3071787003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Components	mg/L	ND	0.10	06/22/12 19:15	
o-Terphenyl (S)	%	87	50-150	06/22/12 19:15	

LABORATORY CONTROL SAMPLE: 455137

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Components	mg/L	1	0.69	69	50-150	
o-Terphenyl (S)	%			85	50-150	

QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3071787

QC Batch: OEXT/11846

Analysis Method: EPA 8082

QC Batch Method: EPA 3510

Analysis Description: 8082 GCS PCB

Associated Lab Samples: 3071787002, 3071787003

METHOD BLANK: 455260

Matrix: Water

Associated Lab Samples: 3071787002, 3071787003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	ND	0.25	06/25/12 13:26	
PCB-1221 (Aroclor 1221)	ug/L	ND	0.25	06/25/12 13:26	
PCB-1232 (Aroclor 1232)	ug/L	ND	0.25	06/25/12 13:26	
PCB-1242 (Aroclor 1242)	ug/L	ND	0.25	06/25/12 13:26	
PCB-1248 (Aroclor 1248)	ug/L	ND	0.25	06/25/12 13:26	
PCB-1254 (Aroclor 1254)	ug/L	ND	0.25	06/25/12 13:26	
PCB-1260 (Aroclor 1260)	ug/L	ND	0.25	06/25/12 13:26	
Decachlorobiphenyl (S)	%	53	30-150	06/25/12 13:26	
Tetrachloro-m-xylene (S)	%	66	30-150	06/25/12 13:26	

LABORATORY CONTROL SAMPLE: 455261

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1248 (Aroclor 1248)	ug/L	2.5	1.6	63	55-145	
Decachlorobiphenyl (S)	%			54	30-150	
Tetrachloro-m-xylene (S)	%			67	30-150	

QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3071787

QC Batch: OEXT/11847

Analysis Method: EPA 8270

QC Batch Method: EPA 3510

Analysis Description: 8270 Water MSSV

Associated Lab Samples: 3071787002, 3071787003

METHOD BLANK: 455262

Matrix: Water

Associated Lab Samples: 3071787002, 3071787003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	1.0	06/25/12 14:01	N2
1,2-Dichlorobenzene	ug/L	ND	1.0	06/25/12 14:01	
1,3-Dichlorobenzene	ug/L	ND	1.0	06/25/12 14:01	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/25/12 14:01	
1-Methylnaphthalene	ug/L	ND	1.0	06/25/12 14:01	
2,4,5-Trichlorophenol	ug/L	ND	2.5	06/25/12 14:01	
2,4,6-Trichlorophenol	ug/L	ND	1.0	06/25/12 14:01	
2,4-Dichlorophenol	ug/L	ND	1.0	06/25/12 14:01	
2,4-Dimethylphenol	ug/L	ND	1.0	06/25/12 14:01	
2,4-Dinitrophenol	ug/L	ND	2.5	06/25/12 14:01	
2,4-Dinitrotoluene	ug/L	ND	1.0	06/25/12 14:01	
2,6-Dinitrotoluene	ug/L	ND	1.0	06/25/12 14:01	
2-Chloronaphthalene	ug/L	ND	1.0	06/25/12 14:01	
2-Chlorophenol	ug/L	ND	1.0	06/25/12 14:01	
2-Methylnaphthalene	ug/L	ND	1.0	06/25/12 14:01	
2-Methylphenol(o-Cresol)	ug/L	ND	1.0	06/25/12 14:01	
2-Nitroaniline	ug/L	ND	2.5	06/25/12 14:01	
2-Nitrophenol	ug/L	ND	1.0	06/25/12 14:01	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	2.0	06/25/12 14:01	
3,3'-Dichlorobenzidine	ug/L	ND	1.0	06/25/12 14:01	
3-Nitroaniline	ug/L	ND	2.5	06/25/12 14:01	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	2.5	06/25/12 14:01	
4-Bromophenylphenyl ether	ug/L	ND	1.0	06/25/12 14:01	
4-Chloro-3-methylphenol	ug/L	ND	1.0	06/25/12 14:01	
4-Chloroaniline	ug/L	ND	1.0	06/25/12 14:01	
4-Chlorophenylphenyl ether	ug/L	ND	1.0	06/25/12 14:01	
4-Nitroaniline	ug/L	ND	2.5	06/25/12 14:01	
4-Nitrophenol	ug/L	ND	1.0	06/25/12 14:01	
Acenaphthene	ug/L	ND	1.0	06/25/12 14:01	
Acenaphthylene	ug/L	ND	1.0	06/25/12 14:01	
Anthracene	ug/L	ND	1.0	06/25/12 14:01	
Azobenzene	ug/L	ND	1.0	06/25/12 14:01	
Benzo(a)anthracene	ug/L	ND	1.0	06/25/12 14:01	
Benzo(a)pyrene	ug/L	ND	1.0	06/25/12 14:01	
Benzo(b)fluoranthene	ug/L	ND	1.0	06/25/12 14:01	
Benzo(g,h,i)perylene	ug/L	ND	1.0	06/25/12 14:01	
Benzo(k)fluoranthene	ug/L	ND	1.0	06/25/12 14:01	
Benzoic acid	ug/L	ND	100	06/25/12 14:01	
Benzyl alcohol	ug/L	ND	1.0	06/25/12 14:01	
bis(2-Chloroethoxy)methane	ug/L	ND	1.0	06/25/12 14:01	
bis(2-Chloroethyl) ether	ug/L	ND	1.0	06/25/12 14:01	
bis(2-Chloroisopropyl) ether	ug/L	ND	1.0	06/25/12 14:01	
bis(2-Ethylhexyl)phthalate	ug/L	ND	1.0	06/25/12 14:01	

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QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3071787

METHOD BLANK: 455262

Matrix: Water

Associated Lab Samples: 3071787002, 3071787003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Butylbenzylphthalate	ug/L	ND	1.0	06/25/12 14:01	
Carbazole	ug/L	ND	1.0	06/25/12 14:01	
Chrysene	ug/L	ND	1.0	06/25/12 14:01	
Di-n-butylphthalate	ug/L	ND	1.0	06/25/12 14:01	
Di-n-octylphthalate	ug/L	ND	1.0	06/25/12 14:01	
Dibenz(a,h)anthracene	ug/L	ND	1.0	06/25/12 14:01	
Dibenzofuran	ug/L	ND	1.0	06/25/12 14:01	
Diethylphthalate	ug/L	ND	1.0	06/25/12 14:01	
Dimethylphthalate	ug/L	ND	1.0	06/25/12 14:01	
Fluoranthene	ug/L	ND	1.0	06/25/12 14:01	
Fluorene	ug/L	ND	1.0	06/25/12 14:01	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	06/25/12 14:01	
Hexachlorobenzene	ug/L	ND	1.0	06/25/12 14:01	
Hexachlorocyclopentadiene	ug/L	ND	1.0	06/25/12 14:01	
Hexachloroethane	ug/L	ND	1.0	06/25/12 14:01	
Indeno(1,2,3-cd)pyrene	ug/L	ND	1.0	06/25/12 14:01	
Isophorone	ug/L	ND	1.0	06/25/12 14:01	
N-Nitroso-di-n-propylamine	ug/L	ND	1.0	06/25/12 14:01	
N-Nitrosodimethylamine	ug/L	ND	1.0	06/25/12 14:01	
N-Nitrosodiphenylamine	ug/L	ND	1.0	06/25/12 14:01	
Naphthalene	ug/L	ND	1.0	06/25/12 14:01	
Nitrobenzene	ug/L	ND	1.0	06/25/12 14:01	
Pentachlorophenol	ug/L	ND	2.5	06/25/12 14:01	
Phenanthrene	ug/L	ND	1.0	06/25/12 14:01	
Phenol	ug/L	ND	1.0	06/25/12 14:01	
Pyrene	ug/L	ND	1.0	06/25/12 14:01	
2,4,6-Tribromophenol (S)	%	80	10-123	06/25/12 14:01	
2-Fluorobiphenyl (S)	%	77	43-116	06/25/12 14:01	
2-Fluorophenol (S)	%	54	21-110	06/25/12 14:01	
Nitrobenzene-d5 (S)	%	78	35-114	06/25/12 14:01	
Phenol-d6 (S)	%	36	10-110	06/25/12 14:01	
Terphenyl-d14 (S)	%	133	33-141	06/25/12 14:01	

LABORATORY CONTROL SAMPLE: 455263

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	5	3.8	76	12-105	
1,2-Dichlorobenzene	ug/L		ND			
1,3-Dichlorobenzene	ug/L		ND			
1,4-Dichlorobenzene	ug/L	5	3.4	69	10-95	
1-Methylnaphthalene	ug/L	5	4.2	83	15-106	N2
2,4,5-Trichlorophenol	ug/L		ND			
2,4,6-Trichlorophenol	ug/L		ND			
2,4-Dichlorophenol	ug/L		ND			
2,4-Dimethylphenol	ug/L		ND			

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QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3071787

LABORATORY CONTROL SAMPLE: 455263

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrophenol	ug/L		ND			
2,4-Dinitrotoluene	ug/L	5	3.7	74	10-133	
2,6-Dinitrotoluene	ug/L		ND			
2-Chloronaphthalene	ug/L		ND			
2-Chlorophenol	ug/L	5	3.8	76	10-111	
2-Methylnaphthalene	ug/L	5	3.8	76	10-98	
2-Methylphenol(o-Cresol)	ug/L		ND			
2-Nitroaniline	ug/L		ND			
2-Nitrophenol	ug/L		ND			
3&4-Methylphenol(m&p Cresol)	ug/L		ND			
3,3'-Dichlorobenzidine	ug/L		ND			
3-Nitroaniline	ug/L		ND			
4,6-Dinitro-2-methylphenol	ug/L		ND			
4-Bromophenylphenyl ether	ug/L		ND			
4-Chloro-3-methylphenol	ug/L	5	4.1	82	10-129	
4-Chloroaniline	ug/L		ND			
4-Chlorophenylphenyl ether	ug/L		ND			
4-Nitroaniline	ug/L		ND			
4-Nitrophenol	ug/L	5	1.3	26	10-54	
Acenaphthene	ug/L	5	4.1	81	12-123	
Acenaphthylene	ug/L	5	3.9	78	11-131	
Anthracene	ug/L	5	3.8	75	11-135	
Azobenzene	ug/L		ND			N2
Benzo(a)anthracene	ug/L	5	4.4	89	24-138	
Benzo(a)pyrene	ug/L	5	4.1	82	20-136	
Benzo(b)fluoranthene	ug/L	5	5.2	104	19-147	
Benzo(g,h,i)perylene	ug/L	5	3.4	67	11-156	
Benzo(k)fluoranthene	ug/L	5	5.3	105	22-154	
Benzoic acid	ug/L		ND			
Benzyl alcohol	ug/L		ND			
bis(2-Chloroethoxy)methane	ug/L		ND			
bis(2-Chloroethyl) ether	ug/L		ND			
bis(2-Chloroisopropyl) ether	ug/L		ND			
bis(2-Ethylhexyl)phthalate	ug/L		ND			
Butylbenzylphthalate	ug/L		ND			
Carbazole	ug/L		ND			
Chrysene	ug/L	5	4.8	96	14-158	
Di-n-butylphthalate	ug/L		ND			
Di-n-octylphthalate	ug/L		ND			
Dibenz(a,h)anthracene	ug/L	5	3.5	69	13-154	
Dibenzofuran	ug/L		ND			
Diethylphthalate	ug/L		ND			
Dimethylphthalate	ug/L		ND			
Fluoranthene	ug/L	5	3.7	74	20-135	
Fluorene	ug/L	5	4.1	83	11-128	
Hexachloro-1,3-butadiene	ug/L		ND			
Hexachlorobenzene	ug/L		ND			
Hexachlorocyclopentadiene	ug/L		ND			

QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3071787

LABORATORY CONTROL SAMPLE: 455263

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hexachloroethane	ug/L		ND			
Indeno(1,2,3-cd)pyrene	ug/L	5	3.4	67	15-148	
Isophorone	ug/L		ND			
N-Nitroso-di-n-propylamine	ug/L	5	4.1	83	10-136	
N-Nitrosodimethylamine	ug/L		ND			
N-Nitrosodiphenylamine	ug/L		ND			
Naphthalene	ug/L	5	3.8	76	12-116	
Nitrobenzene	ug/L		ND			
Pentachlorophenol	ug/L	5	2.5	51	13-129	
Phenanthrene	ug/L	5	4.3	86	13-134	
Phenol	ug/L	5	1.8	35	10-47	
Pyrene	ug/L	5	5.9	119	10-158	
2,4,6-Tribromophenol (S)	%			85	10-123	
2-Fluorobiphenyl (S)	%			80	43-116	
2-Fluorophenol (S)	%			51	21-110	
Nitrobenzene-d5 (S)	%			78	35-114	
Phenol-d6 (S)	%			41	10-110	
Terphenyl-d14 (S)	%			120	33-141	

QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3071787

QC Batch: WETA/10125

Analysis Method: EPA 9012

QC Batch Method: EPA 9012

Analysis Description: 9012 Cyanide, Total

Associated Lab Samples: 3071787002, 3071787003

METHOD BLANK: 455116

Matrix: Water

Associated Lab Samples: 3071787002, 3071787003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.0050	06/21/12 23:46	

LABORATORY CONTROL SAMPLE: 455117

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.2	0.19	96	90-110	

MATRIX SPIKE SAMPLE: 455119

Parameter	Units	3071787003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	0.0099	.1	0.12	113	90-110	M1

SAMPLE DUPLICATE: 455118

Parameter	Units	3071787003 Result	Dup Result	RPD	Qualifiers
Cyanide	mg/L	0.0099	.0033J		

QUALIFIERS

Project: EPT Ithaca, NY

Pace Project No.: 3071787

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

BATCH QUALIFIERS

Batch: OEXT/11839

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: OEXT/11846

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: OEXT/11847

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: GCSV/4563

[1] The following samples were diluted due to the presence of high levels of non-target analytes or other matrix interference, resulting in elevated reporting limits for all analytes: 3071787002.

ANALYTE QUALIFIERS

1c The majority of the area quantitated as DRO for this sample is due to unresolved material eluting beyond C 20.

CU The continuing calibration for this compound is outside of Pace Analytical acceptance limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

QUALIFIERS

Project: EPT Ithaca, NY

Pace Project No.: 3071787

ANALYTE QUALIFIERS

N2	The lab does not hold TNI accreditation for this parameter.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: EPT Ithaca, NY

Pace Project No.: 3071787

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3071787002	Manhole062012	EPA 3510	OEXT/11839	EPA 8015B Modified	GCSV/4561
3071787003	ManholeDrums062012	EPA 3510	OEXT/11839	EPA 8015B Modified	GCSV/4561
3071787002	Manhole062012	EPA 3510	OEXT/11846	EPA 8082	GCSV/4563
3071787003	ManholeDrums062012	EPA 3510	OEXT/11846	EPA 8082	GCSV/4563
3071787002	Manhole062012	EPA 5030/8015 Mod.	GCV/1744		
3071787003	ManholeDrums062012	EPA 5030/8015 Mod.	GCV/1744		
3071787002	Manhole062012	EPA 3510	OEXT/11847	EPA 8270	MSSV/4055
3071787003	ManholeDrums062012	EPA 3510	OEXT/11847	EPA 8270	MSSV/4055
3071787002	Manhole062012	EPA 8260	MSV/13075		
3071787003	ManholeDrums062012	EPA 8260	MSV/13075		
3071787004	TB062012	EPA 8260	MSV/13075		
3071787002	Manhole062012	EPA 9012	WETA/10125		
3071787003	ManholeDrums062012	EPA 9012	WETA/10125		

July 12, 2012

Mr. Scott Petersen
WSP Environment & Energy
5 Sullivan Street
Cazenovia, NY 13035

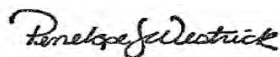
RE: Project: EPT Ithaca
Pace Project No.: 3072246

Dear Mr. Petersen:

Enclosed are the analytical results for sample(s) received by the laboratory on June 27, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Penny Westrick

penny.westrick@pacelabs.com
Project Manager

Enclosures

cc: Mr. Erik Reinert, WSP Environment & Energy



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: EPT Ithaca

Pace Project No.: 3072246

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601

ACCLASS DOD-ELAP Accreditation #: ADE-1544

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California/TNI Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH 0694

Delaware Certification

Florida/TNI Certification #: E87683

Guam/PADEP Certification

Hawaii/PADEP Certification

Idaho Certification

Illinois/PADEP Certification

Indiana/PADEP Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana/TNI Certification #: LA080002

Louisiana/TNI Certification #: 4086

Maine Certification #: PA0091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nevada Certification

New Hampshire/TNI Certification #: 2976

New Jersey/TNI Certification #: PA 051

New Mexico Certification

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188

Utah/TNI Certification #: ANTE

Virgin Island/PADEP Certification

Virginia Certification #: 00112

Virginia VELAP (Cert # 460198)

Washington Certification #: C868

West Virginia Certification #: 143

Wisconsin/PADEP Certification

Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: EPT Ithaca

Pace Project No.: 3072246

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3072246001	SB-TP1 (4.5-6.5)	EPA 8260	JEW	52	PASI-PA
		ASTM D2974-87	AJC	1	PASI-PA
3072246004	SB-TP3 (4-6)	EPA 8260	JEW	52	PASI-PA
		ASTM D2974-87	AJC	1	PASI-PA
3072246005	SB-24a (0-2)	EPA 8260	JEW	52	PASI-PA
		ASTM D2974-87	AJC	1	PASI-PA
3072246006	SB-0612 (2-4)	EPA 8260	JEW	52	PASI-PA
		ASTM D2974-87	AJC	1	PASI-PA
3072246007	SB-24a (2-4)	EPA 8260	JEW	52	PASI-PA
		ASTM D2974-87	AJC	1	PASI-PA
3072246008	SB-24a (10-11)	EPA 8260	JEW	52	PASI-PA
		ASTM D2974-87	AJC	1	PASI-PA
3072246009	SB-1G (2-5)	EPA 8260	JEW	52	PASI-PA
		ASTM D2974-87	AJC	1	PASI-PA
3072246010	SB-1G (12-13.5)	EPA 8260	JEW	52	PASI-PA
		ASTM D2974-87	AJC	1	PASI-PA
3072246011	SB-1H (12-14)	EPA 8260	JEW	52	PASI-PA
		ASTM D2974-87	AJC	1	PASI-PA
3072246012	SB-1H (5-6)	EPA 8260	JEW	52	PASI-PA
		ASTM D2974-87	AJC	1	PASI-PA
3072246013	SB-TP2 (4.5-6.5)	EPA 8260	JEW	52	PASI-PA
		ASTM D2974-87	AJC	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: EPT Ithaca

Pace Project No.: 3072246

Method: EPA 8260

Description: 8260 MSV 5030 Low Level

Client: WSP Environment & Energy - Cazenovia, NY

Date: July 12, 2012

General Information:

11 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/13227

LO: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 462499)
- Acetone

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/13227

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 3072246001

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 462500)
 - Naphthalene
- MSD (Lab ID: 462501)
 - 1,1,2,2-Tetrachloroethane
 - 1,2,4-Trichlorobenzene
 - 1,4-Dichlorobenzene
 - Naphthalene

REPORT OF LABORATORY ANALYSIS

PROJECT NARRATIVE

Project: EPT Ithaca

Pace Project No.: 3072246

Method: EPA 8260

Description: 8260 MSV 5030 Low Level

Client: WSP Environment & Energy - Cazenovia, NY

Date: July 12, 2012

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: EPT Ithaca

Pace Project No.: 3072246

Sample: SB-TP1 (4.5-6.5) **Lab ID: 3072246001** Collected: 06/25/12 14:15 Received: 06/27/12 09:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Acetone	17.6	ug/kg	11.6	1		07/06/12 15:28	67-64-1	
Benzene	ND	ug/kg	5.8	1		07/06/12 15:28	71-43-2	
Bromodichloromethane	ND	ug/kg	5.8	1		07/06/12 15:28	75-27-4	
Bromoform	ND	ug/kg	5.8	1		07/06/12 15:28	75-25-2	
Bromomethane	ND	ug/kg	5.8	1		07/06/12 15:28	74-83-9	
2-Butanone (MEK)	ND	ug/kg	11.6	1		07/06/12 15:28	78-93-3	
Carbon disulfide	ND	ug/kg	5.8	1		07/06/12 15:28	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.8	1		07/06/12 15:28	56-23-5	
Chlorobenzene	ND	ug/kg	5.8	1		07/06/12 15:28	108-90-7	
Chloroethane	ND	ug/kg	5.8	1		07/06/12 15:28	75-00-3	
Chloroform	ND	ug/kg	5.8	1		07/06/12 15:28	67-66-3	
Chloromethane	ND	ug/kg	5.8	1		07/06/12 15:28	74-87-3	
Cyclohexane	ND	ug/kg	11.6	1		07/06/12 15:28	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.8	1		07/06/12 15:28	96-12-8	
Dibromochloromethane	ND	ug/kg	5.8	1		07/06/12 15:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.8	1		07/06/12 15:28	106-93-4	
1,2-Dichlorobenzene	ND	ug/kg	5.8	1		07/06/12 15:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.8	1		07/06/12 15:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.8	1		07/06/12 15:28	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	5.8	1		07/06/12 15:28	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.8	1		07/06/12 15:28	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.8	1		07/06/12 15:28	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.8	1		07/06/12 15:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.8	1		07/06/12 15:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.8	1		07/06/12 15:28	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.8	1		07/06/12 15:28	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.8	1		07/06/12 15:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.8	1		07/06/12 15:28	10061-02-6	
Ethylbenzene	ND	ug/kg	5.8	1		07/06/12 15:28	100-41-4	
2-Hexanone	ND	ug/kg	11.6	1		07/06/12 15:28	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.8	1		07/06/12 15:28	98-82-8	
Methyl acetate	ND	ug/kg	57.8	1		07/06/12 15:28	79-20-9	
Methylcyclohexane	ND	ug/kg	11.6	1		07/06/12 15:28	108-87-2	
Methylene Chloride	7.2	ug/kg	5.8	1		07/06/12 15:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	11.6	1		07/06/12 15:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.8	1		07/06/12 15:28	1634-04-4	
Naphthalene	ND	ug/kg	5.8	1		07/06/12 15:28	91-20-3	
Styrene	ND	ug/kg	5.8	1		07/06/12 15:28	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.8	1		07/06/12 15:28	79-34-5	
Tetrachloroethene	ND	ug/kg	5.8	1		07/06/12 15:28	127-18-4	
Toluene	ND	ug/kg	5.8	1		07/06/12 15:28	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	5.8	1		07/06/12 15:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.8	1		07/06/12 15:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.8	1		07/06/12 15:28	79-00-5	
Trichloroethene	ND	ug/kg	5.8	1		07/06/12 15:28	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.8	1		07/06/12 15:28	75-69-4	

Date: 07/12/2012 05:00 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: EPT Ithaca

Pace Project No.: 3072246

Sample: SB-TP1 (4.5-6.5) **Lab ID: 3072246001** Collected: 06/25/12 14:15 Received: 06/27/12 09:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	57.8	1		07/06/12 15:28	76-13-1	
Vinyl chloride	ND	ug/kg	5.8	1		07/06/12 15:28	75-01-4	
Xylene (Total)	ND	ug/kg	17.3	1		07/06/12 15:28	1330-20-7	
Surrogates								
Toluene-d8 (S)	97	%	70-130	1		07/06/12 15:28	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130	1		07/06/12 15:28	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		07/06/12 15:28	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	5.3	%	0.10	1		07/10/12 16:04		

ANALYTICAL RESULTS

Project: EPT Ithaca

Pace Project No.: 3072246

Sample: SB-TP3 (4-6) **Lab ID: 3072246004** Collected: 06/25/12 15:08 Received: 06/27/12 09:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	6.6	1		07/06/12 16:41	67-64-1	
Benzene	ND	ug/kg	3.3	1		07/06/12 16:41	71-43-2	
Bromodichloromethane	ND	ug/kg	3.3	1		07/06/12 16:41	75-27-4	
Bromoform	ND	ug/kg	3.3	1		07/06/12 16:41	75-25-2	
Bromomethane	ND	ug/kg	3.3	1		07/06/12 16:41	74-83-9	
2-Butanone (MEK)	ND	ug/kg	6.6	1		07/06/12 16:41	78-93-3	
Carbon disulfide	ND	ug/kg	3.3	1		07/06/12 16:41	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.3	1		07/06/12 16:41	56-23-5	
Chlorobenzene	ND	ug/kg	3.3	1		07/06/12 16:41	108-90-7	
Chloroethane	ND	ug/kg	3.3	1		07/06/12 16:41	75-00-3	
Chloroform	ND	ug/kg	3.3	1		07/06/12 16:41	67-66-3	
Chloromethane	ND	ug/kg	3.3	1		07/06/12 16:41	74-87-3	
Cyclohexane	ND	ug/kg	6.6	1		07/06/12 16:41	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.3	1		07/06/12 16:41	96-12-8	
Dibromochloromethane	ND	ug/kg	3.3	1		07/06/12 16:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.3	1		07/06/12 16:41	106-93-4	
1,2-Dichlorobenzene	ND	ug/kg	3.3	1		07/06/12 16:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.3	1		07/06/12 16:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.3	1		07/06/12 16:41	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	3.3	1		07/06/12 16:41	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.3	1		07/06/12 16:41	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.3	1		07/06/12 16:41	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.3	1		07/06/12 16:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.3	1		07/06/12 16:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.3	1		07/06/12 16:41	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.3	1		07/06/12 16:41	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	3.3	1		07/06/12 16:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.3	1		07/06/12 16:41	10061-02-6	
Ethylbenzene	ND	ug/kg	3.3	1		07/06/12 16:41	100-41-4	
2-Hexanone	ND	ug/kg	6.6	1		07/06/12 16:41	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	3.3	1		07/06/12 16:41	98-82-8	
Methyl acetate	ND	ug/kg	32.8	1		07/06/12 16:41	79-20-9	
Methylcyclohexane	ND	ug/kg	6.6	1		07/06/12 16:41	108-87-2	
Methylene Chloride	ND	ug/kg	3.3	1		07/06/12 16:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	6.6	1		07/06/12 16:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.3	1		07/06/12 16:41	1634-04-4	
Naphthalene	ND	ug/kg	3.3	1		07/06/12 16:41	91-20-3	
Styrene	ND	ug/kg	3.3	1		07/06/12 16:41	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.3	1		07/06/12 16:41	79-34-5	
Tetrachloroethene	ND	ug/kg	3.3	1		07/06/12 16:41	127-18-4	
Toluene	ND	ug/kg	3.3	1		07/06/12 16:41	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	3.3	1		07/06/12 16:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.3	1		07/06/12 16:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.3	1		07/06/12 16:41	79-00-5	
Trichloroethene	3.9	ug/kg	3.3	1		07/06/12 16:41	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.3	1		07/06/12 16:41	75-69-4	

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ANALYTICAL RESULTS

Project: EPT Ithaca

Pace Project No.: 3072246

Sample: SB-TP3 (4-6) **Lab ID: 3072246004** Collected: 06/25/12 15:08 Received: 06/27/12 09:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	32.8	1		07/06/12 16:41	76-13-1	
Vinyl chloride	ND	ug/kg	3.3	1		07/06/12 16:41	75-01-4	
Xylene (Total)	ND	ug/kg	9.8	1		07/06/12 16:41	1330-20-7	
Surrogates								
Toluene-d8 (S)	97	%	70-130	1		07/06/12 16:41	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130	1		07/06/12 16:41	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		07/06/12 16:41	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	14.1	%	0.10	1		07/10/12 16:05		

ANALYTICAL RESULTS

Project: EPT Ithaca

Pace Project No.: 3072246

Sample: SB-24a (0-2) **Lab ID: 3072246005** Collected: 06/26/12 08:50 Received: 06/27/12 09:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	11.7	1		07/06/12 17:05	67-64-1	
Benzene	ND	ug/kg	5.8	1		07/06/12 17:05	71-43-2	
Bromodichloromethane	ND	ug/kg	5.8	1		07/06/12 17:05	75-27-4	
Bromoform	ND	ug/kg	5.8	1		07/06/12 17:05	75-25-2	
Bromomethane	ND	ug/kg	5.8	1		07/06/12 17:05	74-83-9	
2-Butanone (MEK)	ND	ug/kg	11.7	1		07/06/12 17:05	78-93-3	
Carbon disulfide	ND	ug/kg	5.8	1		07/06/12 17:05	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.8	1		07/06/12 17:05	56-23-5	
Chlorobenzene	ND	ug/kg	5.8	1		07/06/12 17:05	108-90-7	
Chloroethane	ND	ug/kg	5.8	1		07/06/12 17:05	75-00-3	
Chloroform	ND	ug/kg	5.8	1		07/06/12 17:05	67-66-3	
Chloromethane	ND	ug/kg	5.8	1		07/06/12 17:05	74-87-3	
Cyclohexane	ND	ug/kg	11.7	1		07/06/12 17:05	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.8	1		07/06/12 17:05	96-12-8	
Dibromochloromethane	ND	ug/kg	5.8	1		07/06/12 17:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.8	1		07/06/12 17:05	106-93-4	
1,2-Dichlorobenzene	ND	ug/kg	5.8	1		07/06/12 17:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.8	1		07/06/12 17:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.8	1		07/06/12 17:05	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	5.8	1		07/06/12 17:05	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.8	1		07/06/12 17:05	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.8	1		07/06/12 17:05	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.8	1		07/06/12 17:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.8	1		07/06/12 17:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.8	1		07/06/12 17:05	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.8	1		07/06/12 17:05	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.8	1		07/06/12 17:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.8	1		07/06/12 17:05	10061-02-6	
Ethylbenzene	ND	ug/kg	5.8	1		07/06/12 17:05	100-41-4	
2-Hexanone	ND	ug/kg	11.7	1		07/06/12 17:05	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.8	1		07/06/12 17:05	98-82-8	
Methyl acetate	ND	ug/kg	58.3	1		07/06/12 17:05	79-20-9	
Methylcyclohexane	ND	ug/kg	11.7	1		07/06/12 17:05	108-87-2	
Methylene Chloride	ND	ug/kg	5.8	1		07/06/12 17:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	11.7	1		07/06/12 17:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.8	1		07/06/12 17:05	1634-04-4	
Naphthalene	ND	ug/kg	5.8	1		07/06/12 17:05	91-20-3	
Styrene	ND	ug/kg	5.8	1		07/06/12 17:05	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.8	1		07/06/12 17:05	79-34-5	
Tetrachloroethene	ND	ug/kg	5.8	1		07/06/12 17:05	127-18-4	
Toluene	ND	ug/kg	5.8	1		07/06/12 17:05	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	5.8	1		07/06/12 17:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.8	1		07/06/12 17:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.8	1		07/06/12 17:05	79-00-5	
Trichloroethene	43.8	ug/kg	5.8	1		07/06/12 17:05	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.8	1		07/06/12 17:05	75-69-4	

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ANALYTICAL RESULTS

Project: EPT Ithaca

Pace Project No.: 3072246

Sample: SB-24a (0-2) **Lab ID: 3072246005** Collected: 06/26/12 08:50 Received: 06/27/12 09:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	58.3	1		07/06/12 17:05	76-13-1	
Vinyl chloride	ND	ug/kg	5.8	1		07/06/12 17:05	75-01-4	
Xylene (Total)	ND	ug/kg	17.5	1		07/06/12 17:05	1330-20-7	
Surrogates								
Toluene-d8 (S)	100	%	70-130	1		07/06/12 17:05	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130	1		07/06/12 17:05	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		07/06/12 17:05	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	14.2	%	0.10	1		07/10/12 16:06		

ANALYTICAL RESULTS

Project: EPT Ithaca

Pace Project No.: 3072246

Sample: SB-0612 (2-4) **Lab ID: 3072246006** Collected: 06/26/12 09:00 Received: 06/27/12 09:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	8.8	1		07/06/12 17:29	67-64-1	
Benzene	ND	ug/kg	4.4	1		07/06/12 17:29	71-43-2	
Bromodichloromethane	ND	ug/kg	4.4	1		07/06/12 17:29	75-27-4	
Bromoform	ND	ug/kg	4.4	1		07/06/12 17:29	75-25-2	
Bromomethane	ND	ug/kg	4.4	1		07/06/12 17:29	74-83-9	
2-Butanone (MEK)	ND	ug/kg	8.8	1		07/06/12 17:29	78-93-3	
Carbon disulfide	ND	ug/kg	4.4	1		07/06/12 17:29	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.4	1		07/06/12 17:29	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	1		07/06/12 17:29	108-90-7	
Chloroethane	ND	ug/kg	4.4	1		07/06/12 17:29	75-00-3	
Chloroform	ND	ug/kg	4.4	1		07/06/12 17:29	67-66-3	
Chloromethane	ND	ug/kg	4.4	1		07/06/12 17:29	74-87-3	
Cyclohexane	ND	ug/kg	8.8	1		07/06/12 17:29	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.4	1		07/06/12 17:29	96-12-8	
Dibromochloromethane	ND	ug/kg	4.4	1		07/06/12 17:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.4	1		07/06/12 17:29	106-93-4	
1,2-Dichlorobenzene	ND	ug/kg	4.4	1		07/06/12 17:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.4	1		07/06/12 17:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.4	1		07/06/12 17:29	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	4.4	1		07/06/12 17:29	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.4	1		07/06/12 17:29	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	1		07/06/12 17:29	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	1		07/06/12 17:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	1		07/06/12 17:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	1		07/06/12 17:29	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	1		07/06/12 17:29	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	1		07/06/12 17:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	1		07/06/12 17:29	10061-02-6	
Ethylbenzene	ND	ug/kg	4.4	1		07/06/12 17:29	100-41-4	
2-Hexanone	ND	ug/kg	8.8	1		07/06/12 17:29	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.4	1		07/06/12 17:29	98-82-8	
Methyl acetate	ND	ug/kg	43.8	1		07/06/12 17:29	79-20-9	
Methylcyclohexane	ND	ug/kg	8.8	1		07/06/12 17:29	108-87-2	
Methylene Chloride	ND	ug/kg	4.4	1		07/06/12 17:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	8.8	1		07/06/12 17:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.4	1		07/06/12 17:29	1634-04-4	
Naphthalene	ND	ug/kg	4.4	1		07/06/12 17:29	91-20-3	
Styrene	ND	ug/kg	4.4	1		07/06/12 17:29	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.4	1		07/06/12 17:29	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	1		07/06/12 17:29	127-18-4	
Toluene	ND	ug/kg	4.4	1		07/06/12 17:29	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	4.4	1		07/06/12 17:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.4	1		07/06/12 17:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	1		07/06/12 17:29	79-00-5	
Trichloroethene	56.2	ug/kg	4.4	1		07/06/12 17:29	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.4	1		07/06/12 17:29	75-69-4	

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ANALYTICAL RESULTS

Project: EPT Ithaca

Pace Project No.: 3072246

Sample: SB-0612 (2-4) **Lab ID: 3072246006** Collected: 06/26/12 09:00 Received: 06/27/12 09:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	43.8	1		07/06/12 17:29	76-13-1	
Vinyl chloride	ND	ug/kg	4.4	1		07/06/12 17:29	75-01-4	
Xylene (Total)	ND	ug/kg	13.1	1		07/06/12 17:29	1330-20-7	
Surrogates								
Toluene-d8 (S)	97	%	70-130	1		07/06/12 17:29	2037-26-5	
4-Bromofluorobenzene (S)	104	%	70-130	1		07/06/12 17:29	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		07/06/12 17:29	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	12.9	%	0.10	1		07/10/12 16:07		

ANALYTICAL RESULTS

Project: EPT Ithaca

Pace Project No.: 3072246

Sample: SB-24a (2-4) **Lab ID: 3072246007** Collected: 06/26/12 08:53 Received: 06/27/12 09:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	7.1	1		07/06/12 17:53	67-64-1	
Benzene	ND	ug/kg	3.5	1		07/06/12 17:53	71-43-2	
Bromodichloromethane	ND	ug/kg	3.5	1		07/06/12 17:53	75-27-4	
Bromoform	ND	ug/kg	3.5	1		07/06/12 17:53	75-25-2	
Bromomethane	ND	ug/kg	3.5	1		07/06/12 17:53	74-83-9	
2-Butanone (MEK)	ND	ug/kg	7.1	1		07/06/12 17:53	78-93-3	
Carbon disulfide	ND	ug/kg	3.5	1		07/06/12 17:53	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.5	1		07/06/12 17:53	56-23-5	
Chlorobenzene	ND	ug/kg	3.5	1		07/06/12 17:53	108-90-7	
Chloroethane	ND	ug/kg	3.5	1		07/06/12 17:53	75-00-3	
Chloroform	ND	ug/kg	3.5	1		07/06/12 17:53	67-66-3	
Chloromethane	ND	ug/kg	3.5	1		07/06/12 17:53	74-87-3	
Cyclohexane	ND	ug/kg	7.1	1		07/06/12 17:53	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.5	1		07/06/12 17:53	96-12-8	
Dibromochloromethane	ND	ug/kg	3.5	1		07/06/12 17:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.5	1		07/06/12 17:53	106-93-4	
1,2-Dichlorobenzene	ND	ug/kg	3.5	1		07/06/12 17:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.5	1		07/06/12 17:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.5	1		07/06/12 17:53	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	3.5	1		07/06/12 17:53	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.5	1		07/06/12 17:53	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.5	1		07/06/12 17:53	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.5	1		07/06/12 17:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.5	1		07/06/12 17:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.5	1		07/06/12 17:53	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.5	1		07/06/12 17:53	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	3.5	1		07/06/12 17:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.5	1		07/06/12 17:53	10061-02-6	
Ethylbenzene	ND	ug/kg	3.5	1		07/06/12 17:53	100-41-4	
2-Hexanone	ND	ug/kg	7.1	1		07/06/12 17:53	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	3.5	1		07/06/12 17:53	98-82-8	
Methyl acetate	ND	ug/kg	35.4	1		07/06/12 17:53	79-20-9	
Methylcyclohexane	ND	ug/kg	7.1	1		07/06/12 17:53	108-87-2	
Methylene Chloride	ND	ug/kg	3.5	1		07/06/12 17:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	7.1	1		07/06/12 17:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.5	1		07/06/12 17:53	1634-04-4	
Naphthalene	ND	ug/kg	3.5	1		07/06/12 17:53	91-20-3	
Styrene	ND	ug/kg	3.5	1		07/06/12 17:53	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.5	1		07/06/12 17:53	79-34-5	
Tetrachloroethene	ND	ug/kg	3.5	1		07/06/12 17:53	127-18-4	
Toluene	ND	ug/kg	3.5	1		07/06/12 17:53	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	3.5	1		07/06/12 17:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.5	1		07/06/12 17:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.5	1		07/06/12 17:53	79-00-5	
Trichloroethene	96.6	ug/kg	3.5	1		07/06/12 17:53	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.5	1		07/06/12 17:53	75-69-4	

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ANALYTICAL RESULTS

Project: EPT Ithaca

Pace Project No.: 3072246

Sample: SB-24a (2-4) **Lab ID: 3072246007** Collected: 06/26/12 08:53 Received: 06/27/12 09:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	35.4	1		07/06/12 17:53	76-13-1	
Vinyl chloride	ND	ug/kg	3.5	1		07/06/12 17:53	75-01-4	
Xylene (Total)	ND	ug/kg	10.6	1		07/06/12 17:53	1330-20-7	
Surrogates								
Toluene-d8 (S)	103	%	70-130	1		07/06/12 17:53	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130	1		07/06/12 17:53	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130	1		07/06/12 17:53	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	13.3	%	0.10	1		07/10/12 16:07		

ANALYTICAL RESULTS

Project: EPT Ithaca

Pace Project No.: 3072246

Sample: **SB-24a (10-11)** Lab ID: **3072246008** Collected: 06/26/12 09:15 Received: 06/27/12 09:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Acetone	65.5	ug/kg	8.9	1		07/06/12 18:18	67-64-1	
Benzene	ND	ug/kg	4.4	1		07/06/12 18:18	71-43-2	
Bromodichloromethane	ND	ug/kg	4.4	1		07/06/12 18:18	75-27-4	
Bromoform	ND	ug/kg	4.4	1		07/06/12 18:18	75-25-2	
Bromomethane	ND	ug/kg	4.4	1		07/06/12 18:18	74-83-9	
2-Butanone (MEK)	ND	ug/kg	8.9	1		07/06/12 18:18	78-93-3	
Carbon disulfide	ND	ug/kg	4.4	1		07/06/12 18:18	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.4	1		07/06/12 18:18	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	1		07/06/12 18:18	108-90-7	
Chloroethane	ND	ug/kg	4.4	1		07/06/12 18:18	75-00-3	
Chloroform	ND	ug/kg	4.4	1		07/06/12 18:18	67-66-3	
Chloromethane	ND	ug/kg	4.4	1		07/06/12 18:18	74-87-3	
Cyclohexane	ND	ug/kg	8.9	1		07/06/12 18:18	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.4	1		07/06/12 18:18	96-12-8	
Dibromochloromethane	ND	ug/kg	4.4	1		07/06/12 18:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.4	1		07/06/12 18:18	106-93-4	
1,2-Dichlorobenzene	ND	ug/kg	4.4	1		07/06/12 18:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.4	1		07/06/12 18:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.4	1		07/06/12 18:18	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	4.4	1		07/06/12 18:18	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.4	1		07/06/12 18:18	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	1		07/06/12 18:18	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	1		07/06/12 18:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	1		07/06/12 18:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	1		07/06/12 18:18	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	1		07/06/12 18:18	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	1		07/06/12 18:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	1		07/06/12 18:18	10061-02-6	
Ethylbenzene	ND	ug/kg	4.4	1		07/06/12 18:18	100-41-4	
2-Hexanone	ND	ug/kg	8.9	1		07/06/12 18:18	591-78-6	
Isopropylbenzene (Cumene)	7.0	ug/kg	4.4	1		07/06/12 18:18	98-82-8	
Methyl acetate	ND	ug/kg	44.3	1		07/06/12 18:18	79-20-9	
Methylcyclohexane	ND	ug/kg	8.9	1		07/06/12 18:18	108-87-2	
Methylene Chloride	4.7	ug/kg	4.4	1		07/06/12 18:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	8.9	1		07/06/12 18:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.4	1		07/06/12 18:18	1634-04-4	
Naphthalene	ND	ug/kg	4.4	1		07/06/12 18:18	91-20-3	
Styrene	ND	ug/kg	4.4	1		07/06/12 18:18	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.4	1		07/06/12 18:18	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	1		07/06/12 18:18	127-18-4	
Toluene	ND	ug/kg	4.4	1		07/06/12 18:18	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	4.4	1		07/06/12 18:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.4	1		07/06/12 18:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	1		07/06/12 18:18	79-00-5	
Trichloroethene	ND	ug/kg	4.4	1		07/06/12 18:18	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.4	1		07/06/12 18:18	75-69-4	

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ANALYTICAL RESULTS

Project: EPT Ithaca

Pace Project No.: 3072246

Sample: SB-24a (10-11) **Lab ID: 3072246008** Collected: 06/26/12 09:15 Received: 06/27/12 09:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	44.3	1		07/06/12 18:18	76-13-1	
Vinyl chloride	ND	ug/kg	4.4	1		07/06/12 18:18	75-01-4	
Xylene (Total)	ND	ug/kg	13.3	1		07/06/12 18:18	1330-20-7	
Surrogates								
Toluene-d8 (S)	99	%	70-130	1		07/06/12 18:18	2037-26-5	
4-Bromofluorobenzene (S)	121	%	70-130	1		07/06/12 18:18	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		07/06/12 18:18	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	11.5	%	0.10	1		07/10/12 16:20		

ANALYTICAL RESULTS

Project: EPT Ithaca

Pace Project No.: 3072246

Sample: SB-1G (2-5) **Lab ID: 3072246009** Collected: 06/26/12 09:56 Received: 06/27/12 09:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	10.4	1		07/06/12 18:42	67-64-1	
Benzene	ND	ug/kg	5.2	1		07/06/12 18:42	71-43-2	
Bromodichloromethane	ND	ug/kg	5.2	1		07/06/12 18:42	75-27-4	
Bromoform	ND	ug/kg	5.2	1		07/06/12 18:42	75-25-2	
Bromomethane	ND	ug/kg	5.2	1		07/06/12 18:42	74-83-9	
2-Butanone (MEK)	ND	ug/kg	10.4	1		07/06/12 18:42	78-93-3	
Carbon disulfide	ND	ug/kg	5.2	1		07/06/12 18:42	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.2	1		07/06/12 18:42	56-23-5	
Chlorobenzene	ND	ug/kg	5.2	1		07/06/12 18:42	108-90-7	
Chloroethane	ND	ug/kg	5.2	1		07/06/12 18:42	75-00-3	
Chloroform	ND	ug/kg	5.2	1		07/06/12 18:42	67-66-3	
Chloromethane	ND	ug/kg	5.2	1		07/06/12 18:42	74-87-3	
Cyclohexane	ND	ug/kg	10.4	1		07/06/12 18:42	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.2	1		07/06/12 18:42	96-12-8	
Dibromochloromethane	ND	ug/kg	5.2	1		07/06/12 18:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.2	1		07/06/12 18:42	106-93-4	
1,2-Dichlorobenzene	ND	ug/kg	5.2	1		07/06/12 18:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.2	1		07/06/12 18:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.2	1		07/06/12 18:42	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	5.2	1		07/06/12 18:42	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.2	1		07/06/12 18:42	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.2	1		07/06/12 18:42	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.2	1		07/06/12 18:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.2	1		07/06/12 18:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.2	1		07/06/12 18:42	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.2	1		07/06/12 18:42	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.2	1		07/06/12 18:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.2	1		07/06/12 18:42	10061-02-6	
Ethylbenzene	ND	ug/kg	5.2	1		07/06/12 18:42	100-41-4	
2-Hexanone	ND	ug/kg	10.4	1		07/06/12 18:42	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.2	1		07/06/12 18:42	98-82-8	
Methyl acetate	ND	ug/kg	52.1	1		07/06/12 18:42	79-20-9	
Methylcyclohexane	ND	ug/kg	10.4	1		07/06/12 18:42	108-87-2	
Methylene Chloride	ND	ug/kg	5.2	1		07/06/12 18:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.4	1		07/06/12 18:42	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.2	1		07/06/12 18:42	1634-04-4	
Naphthalene	ND	ug/kg	5.2	1		07/06/12 18:42	91-20-3	
Styrene	ND	ug/kg	5.2	1		07/06/12 18:42	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.2	1		07/06/12 18:42	79-34-5	
Tetrachloroethene	ND	ug/kg	5.2	1		07/06/12 18:42	127-18-4	
Toluene	ND	ug/kg	5.2	1		07/06/12 18:42	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	5.2	1		07/06/12 18:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.2	1		07/06/12 18:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.2	1		07/06/12 18:42	79-00-5	
Trichloroethene	30.7	ug/kg	5.2	1		07/06/12 18:42	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.2	1		07/06/12 18:42	75-69-4	

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ANALYTICAL RESULTS

Project: EPT Ithaca

Pace Project No.: 3072246

Sample: SB-1G (2-5) **Lab ID: 3072246009** Collected: 06/26/12 09:56 Received: 06/27/12 09:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	52.1	1		07/06/12 18:42	76-13-1	
Vinyl chloride	ND	ug/kg	5.2	1		07/06/12 18:42	75-01-4	
Xylene (Total)	ND	ug/kg	15.6	1		07/06/12 18:42	1330-20-7	
Surrogates								
Toluene-d8 (S)	98	%	70-130	1		07/06/12 18:42	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130	1		07/06/12 18:42	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		07/06/12 18:42	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	13.2	%	0.10	1		07/10/12 16:20		

ANALYTICAL RESULTS

Project: EPT Ithaca

Pace Project No.: 3072246

Sample: SB-1G (12-13.5) **Lab ID: 3072246010** Collected: 06/26/12 10:23 Received: 06/27/12 09:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Acetone	79.8	ug/kg	7.3	1		07/06/12 19:06	67-64-1	
Benzene	ND	ug/kg	3.7	1		07/06/12 19:06	71-43-2	
Bromodichloromethane	ND	ug/kg	3.7	1		07/06/12 19:06	75-27-4	
Bromoform	ND	ug/kg	3.7	1		07/06/12 19:06	75-25-2	
Bromomethane	ND	ug/kg	3.7	1		07/06/12 19:06	74-83-9	
2-Butanone (MEK)	ND	ug/kg	7.3	1		07/06/12 19:06	78-93-3	
Carbon disulfide	ND	ug/kg	3.7	1		07/06/12 19:06	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.7	1		07/06/12 19:06	56-23-5	
Chlorobenzene	ND	ug/kg	3.7	1		07/06/12 19:06	108-90-7	
Chloroethane	ND	ug/kg	3.7	1		07/06/12 19:06	75-00-3	
Chloroform	ND	ug/kg	3.7	1		07/06/12 19:06	67-66-3	
Chloromethane	ND	ug/kg	3.7	1		07/06/12 19:06	74-87-3	
Cyclohexane	ND	ug/kg	7.3	1		07/06/12 19:06	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.7	1		07/06/12 19:06	96-12-8	
Dibromochloromethane	ND	ug/kg	3.7	1		07/06/12 19:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.7	1		07/06/12 19:06	106-93-4	
1,2-Dichlorobenzene	ND	ug/kg	3.7	1		07/06/12 19:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.7	1		07/06/12 19:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.7	1		07/06/12 19:06	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	3.7	1		07/06/12 19:06	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.7	1		07/06/12 19:06	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.7	1		07/06/12 19:06	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.7	1		07/06/12 19:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.7	1		07/06/12 19:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.7	1		07/06/12 19:06	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.7	1		07/06/12 19:06	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	3.7	1		07/06/12 19:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.7	1		07/06/12 19:06	10061-02-6	
Ethylbenzene	ND	ug/kg	3.7	1		07/06/12 19:06	100-41-4	
2-Hexanone	ND	ug/kg	7.3	1		07/06/12 19:06	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	3.7	1		07/06/12 19:06	98-82-8	
Methyl acetate	ND	ug/kg	36.5	1		07/06/12 19:06	79-20-9	
Methylcyclohexane	ND	ug/kg	7.3	1		07/06/12 19:06	108-87-2	
Methylene Chloride	5.5	ug/kg	3.7	1		07/06/12 19:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	7.3	1		07/06/12 19:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.7	1		07/06/12 19:06	1634-04-4	
Naphthalene	ND	ug/kg	3.7	1		07/06/12 19:06	91-20-3	
Styrene	ND	ug/kg	3.7	1		07/06/12 19:06	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.7	1		07/06/12 19:06	79-34-5	
Tetrachloroethene	ND	ug/kg	3.7	1		07/06/12 19:06	127-18-4	
Toluene	ND	ug/kg	3.7	1		07/06/12 19:06	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	3.7	1		07/06/12 19:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.7	1		07/06/12 19:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.7	1		07/06/12 19:06	79-00-5	
Trichloroethene	ND	ug/kg	3.7	1		07/06/12 19:06	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.7	1		07/06/12 19:06	75-69-4	

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ANALYTICAL RESULTS

Project: EPT Ithaca

Pace Project No.: 3072246

Sample: SB-1G (12-13.5) **Lab ID: 3072246010** Collected: 06/26/12 10:23 Received: 06/27/12 09:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	36.5	1		07/06/12 19:06	76-13-1	
Vinyl chloride	ND	ug/kg	3.7	1		07/06/12 19:06	75-01-4	
Xylene (Total)	ND	ug/kg	11.0	1		07/06/12 19:06	1330-20-7	
Surrogates								
Toluene-d8 (S)	98	%	70-130	1		07/06/12 19:06	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130	1		07/06/12 19:06	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		07/06/12 19:06	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	11.5	%	0.10	1		07/10/12 16:21		

ANALYTICAL RESULTS

Project: EPT Ithaca

Pace Project No.: 3072246

Sample: SB-1H (12-14) **Lab ID: 3072246011** Collected: 06/26/12 11:11 Received: 06/27/12 09:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Acetone	12.5	ug/kg	8.9	1		07/06/12 19:30	67-64-1	
Benzene	ND	ug/kg	4.4	1		07/06/12 19:30	71-43-2	
Bromodichloromethane	ND	ug/kg	4.4	1		07/06/12 19:30	75-27-4	
Bromoform	ND	ug/kg	4.4	1		07/06/12 19:30	75-25-2	
Bromomethane	ND	ug/kg	4.4	1		07/06/12 19:30	74-83-9	
2-Butanone (MEK)	ND	ug/kg	8.9	1		07/06/12 19:30	78-93-3	
Carbon disulfide	ND	ug/kg	4.4	1		07/06/12 19:30	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.4	1		07/06/12 19:30	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	1		07/06/12 19:30	108-90-7	
Chloroethane	ND	ug/kg	4.4	1		07/06/12 19:30	75-00-3	
Chloroform	ND	ug/kg	4.4	1		07/06/12 19:30	67-66-3	
Chloromethane	ND	ug/kg	4.4	1		07/06/12 19:30	74-87-3	
Cyclohexane	ND	ug/kg	8.9	1		07/06/12 19:30	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.4	1		07/06/12 19:30	96-12-8	
Dibromochloromethane	ND	ug/kg	4.4	1		07/06/12 19:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.4	1		07/06/12 19:30	106-93-4	
1,2-Dichlorobenzene	ND	ug/kg	4.4	1		07/06/12 19:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.4	1		07/06/12 19:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.4	1		07/06/12 19:30	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	4.4	1		07/06/12 19:30	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.4	1		07/06/12 19:30	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	1		07/06/12 19:30	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	1		07/06/12 19:30	75-35-4	
cis-1,2-Dichloroethene	239	ug/kg	4.4	1		07/06/12 19:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	1		07/06/12 19:30	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	1		07/06/12 19:30	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	1		07/06/12 19:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	1		07/06/12 19:30	10061-02-6	
Ethylbenzene	ND	ug/kg	4.4	1		07/06/12 19:30	100-41-4	
2-Hexanone	ND	ug/kg	8.9	1		07/06/12 19:30	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.4	1		07/06/12 19:30	98-82-8	
Methyl acetate	ND	ug/kg	44.3	1		07/06/12 19:30	79-20-9	
Methylcyclohexane	ND	ug/kg	8.9	1		07/06/12 19:30	108-87-2	
Methylene Chloride	ND	ug/kg	4.4	1		07/06/12 19:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	8.9	1		07/06/12 19:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.4	1		07/06/12 19:30	1634-04-4	
Naphthalene	ND	ug/kg	4.4	1		07/06/12 19:30	91-20-3	
Styrene	ND	ug/kg	4.4	1		07/06/12 19:30	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.4	1		07/06/12 19:30	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	1		07/06/12 19:30	127-18-4	
Toluene	ND	ug/kg	4.4	1		07/06/12 19:30	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	4.4	1		07/06/12 19:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.4	1		07/06/12 19:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	1		07/06/12 19:30	79-00-5	
Trichloroethene	5.1	ug/kg	4.4	1		07/06/12 19:30	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.4	1		07/06/12 19:30	75-69-4	

Date: 07/12/2012 05:00 PM

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ANALYTICAL RESULTS

Project: EPT Ithaca

Pace Project No.: 3072246

Sample: SB-1H (12-14) **Lab ID: 3072246011** Collected: 06/26/12 11:11 Received: 06/27/12 09:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	44.3	1		07/06/12 19:30	76-13-1	
Vinyl chloride	ND	ug/kg	4.4	1		07/06/12 19:30	75-01-4	
Xylene (Total)	ND	ug/kg	13.3	1		07/06/12 19:30	1330-20-7	
Surrogates								
Toluene-d8 (S)	99	%	70-130	1		07/06/12 19:30	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130	1		07/06/12 19:30	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		07/06/12 19:30	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	13.0	%	0.10	1		07/10/12 16:21		

ANALYTICAL RESULTS

Project: EPT Ithaca

Pace Project No.: 3072246

Sample: SB-1H (5-6) **Lab ID: 3072246012** Collected: 06/26/12 11:14 Received: 06/27/12 09:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	10.4	1		07/06/12 19:54	67-64-1	
Benzene	ND	ug/kg	5.2	1		07/06/12 19:54	71-43-2	
Bromodichloromethane	ND	ug/kg	5.2	1		07/06/12 19:54	75-27-4	
Bromoform	ND	ug/kg	5.2	1		07/06/12 19:54	75-25-2	
Bromomethane	ND	ug/kg	5.2	1		07/06/12 19:54	74-83-9	
2-Butanone (MEK)	ND	ug/kg	10.4	1		07/06/12 19:54	78-93-3	
Carbon disulfide	ND	ug/kg	5.2	1		07/06/12 19:54	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.2	1		07/06/12 19:54	56-23-5	
Chlorobenzene	ND	ug/kg	5.2	1		07/06/12 19:54	108-90-7	
Chloroethane	ND	ug/kg	5.2	1		07/06/12 19:54	75-00-3	
Chloroform	ND	ug/kg	5.2	1		07/06/12 19:54	67-66-3	
Chloromethane	ND	ug/kg	5.2	1		07/06/12 19:54	74-87-3	
Cyclohexane	ND	ug/kg	10.4	1		07/06/12 19:54	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.2	1		07/06/12 19:54	96-12-8	
Dibromochloromethane	ND	ug/kg	5.2	1		07/06/12 19:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.2	1		07/06/12 19:54	106-93-4	
1,2-Dichlorobenzene	ND	ug/kg	5.2	1		07/06/12 19:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.2	1		07/06/12 19:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.2	1		07/06/12 19:54	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	5.2	1		07/06/12 19:54	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.2	1		07/06/12 19:54	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.2	1		07/06/12 19:54	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.2	1		07/06/12 19:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.2	1		07/06/12 19:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.2	1		07/06/12 19:54	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.2	1		07/06/12 19:54	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.2	1		07/06/12 19:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.2	1		07/06/12 19:54	10061-02-6	
Ethylbenzene	ND	ug/kg	5.2	1		07/06/12 19:54	100-41-4	
2-Hexanone	ND	ug/kg	10.4	1		07/06/12 19:54	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.2	1		07/06/12 19:54	98-82-8	
Methyl acetate	ND	ug/kg	52.2	1		07/06/12 19:54	79-20-9	
Methylcyclohexane	ND	ug/kg	10.4	1		07/06/12 19:54	108-87-2	
Methylene Chloride	ND	ug/kg	5.2	1		07/06/12 19:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.4	1		07/06/12 19:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.2	1		07/06/12 19:54	1634-04-4	
Naphthalene	ND	ug/kg	5.2	1		07/06/12 19:54	91-20-3	
Styrene	ND	ug/kg	5.2	1		07/06/12 19:54	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.2	1		07/06/12 19:54	79-34-5	
Tetrachloroethene	ND	ug/kg	5.2	1		07/06/12 19:54	127-18-4	
Toluene	ND	ug/kg	5.2	1		07/06/12 19:54	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	5.2	1		07/06/12 19:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.2	1		07/06/12 19:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.2	1		07/06/12 19:54	79-00-5	
Trichloroethene	ND	ug/kg	5.2	1		07/06/12 19:54	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.2	1		07/06/12 19:54	75-69-4	

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ANALYTICAL RESULTS

Project: EPT Ithaca

Pace Project No.: 3072246

Sample: SB-1H (5-6) **Lab ID: 3072246012** Collected: 06/26/12 11:14 Received: 06/27/12 09:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	52.2	1		07/06/12 19:54	76-13-1	
Vinyl chloride	ND	ug/kg	5.2	1		07/06/12 19:54	75-01-4	
Xylene (Total)	ND	ug/kg	15.7	1		07/06/12 19:54	1330-20-7	
Surrogates								
Toluene-d8 (S)	96	%	70-130	1		07/06/12 19:54	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130	1		07/06/12 19:54	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		07/06/12 19:54	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	13.0	%	0.10	1		07/10/12 16:22		

ANALYTICAL RESULTS

Project: EPT Ithaca

Pace Project No.: 3072246

Sample: SB-TP2 (4.5-6.5) Lab ID: 3072246013 Collected: 06/25/12 14:50 Received: 06/27/12 09:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Acetone	14.0	ug/kg	10	1		07/06/12 20:18	67-64-1	
Benzene	ND	ug/kg	5.0	1		07/06/12 20:18	71-43-2	
Bromodichloromethane	ND	ug/kg	5.0	1		07/06/12 20:18	75-27-4	
Bromoform	ND	ug/kg	5.0	1		07/06/12 20:18	75-25-2	
Bromomethane	ND	ug/kg	5.0	1		07/06/12 20:18	74-83-9	
2-Butanone (MEK)	ND	ug/kg	10	1		07/06/12 20:18	78-93-3	
Carbon disulfide	ND	ug/kg	5.0	1		07/06/12 20:18	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	1		07/06/12 20:18	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	1		07/06/12 20:18	108-90-7	
Chloroethane	ND	ug/kg	5.0	1		07/06/12 20:18	75-00-3	
Chloroform	ND	ug/kg	5.0	1		07/06/12 20:18	67-66-3	
Chloromethane	ND	ug/kg	5.0	1		07/06/12 20:18	74-87-3	
Cyclohexane	ND	ug/kg	10	1		07/06/12 20:18	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.0	1		07/06/12 20:18	96-12-8	
Dibromochloromethane	ND	ug/kg	5.0	1		07/06/12 20:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	1		07/06/12 20:18	106-93-4	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1		07/06/12 20:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	1		07/06/12 20:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1		07/06/12 20:18	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	5.0	1		07/06/12 20:18	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.0	1		07/06/12 20:18	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1		07/06/12 20:18	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	1		07/06/12 20:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1		07/06/12 20:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1		07/06/12 20:18	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1		07/06/12 20:18	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1		07/06/12 20:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1		07/06/12 20:18	10061-02-6	
Ethylbenzene	ND	ug/kg	5.0	1		07/06/12 20:18	100-41-4	
2-Hexanone	ND	ug/kg	10	1		07/06/12 20:18	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.0	1		07/06/12 20:18	98-82-8	
Methyl acetate	ND	ug/kg	49.9	1		07/06/12 20:18	79-20-9	
Methylcyclohexane	ND	ug/kg	10	1		07/06/12 20:18	108-87-2	
Methylene Chloride	7.4	ug/kg	5.0	1		07/06/12 20:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10	1		07/06/12 20:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.0	1		07/06/12 20:18	1634-04-4	
Naphthalene	ND	ug/kg	5.0	1		07/06/12 20:18	91-20-3	
Styrene	ND	ug/kg	5.0	1		07/06/12 20:18	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	1		07/06/12 20:18	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	1		07/06/12 20:18	127-18-4	
Toluene	ND	ug/kg	5.0	1		07/06/12 20:18	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	1		07/06/12 20:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.0	1		07/06/12 20:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	1		07/06/12 20:18	79-00-5	
Trichloroethene	ND	ug/kg	5.0	1		07/06/12 20:18	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.0	1		07/06/12 20:18	75-69-4	

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ANALYTICAL RESULTS

Project: EPT Ithaca

Pace Project No.: 3072246

Sample: SB-TP2 (4.5-6.5) **Lab ID: 3072246013** Collected: 06/25/12 14:50 Received: 06/27/12 09:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	49.9	1		07/06/12 20:18	76-13-1	
Vinyl chloride	ND	ug/kg	5.0	1		07/06/12 20:18	75-01-4	
Xylene (Total)	ND	ug/kg	15.0	1		07/06/12 20:18	1330-20-7	
Surrogates								
Toluene-d8 (S)	98	%	70-130	1		07/06/12 20:18	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130	1		07/06/12 20:18	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130	1		07/06/12 20:18	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	4.6	%	0.10	1		07/10/12 16:22		

QUALITY CONTROL DATA

Project: EPT Ithaca
Pace Project No.: 3072246

QC Batch: MSV/13227 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035 Low
Associated Lab Samples: 3072246001, 3072246004, 3072246005, 3072246006, 3072246007, 3072246008, 3072246009, 3072246010, 3072246011, 3072246012, 3072246013

METHOD BLANK: 462498 Matrix: Solid
Associated Lab Samples: 3072246001, 3072246004, 3072246005, 3072246006, 3072246007, 3072246008, 3072246009, 3072246010, 3072246011, 3072246012, 3072246013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	5.0	07/06/12 13:27	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	07/06/12 13:27	
1,1,2-Trichloroethane	ug/kg	ND	5.0	07/06/12 13:27	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	50.0	07/06/12 13:27	
1,1-Dichloroethane	ug/kg	ND	5.0	07/06/12 13:27	
1,1-Dichloroethene	ug/kg	ND	5.0	07/06/12 13:27	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	07/06/12 13:27	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	07/06/12 13:27	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	07/06/12 13:27	
1,2-Dichlorobenzene	ug/kg	ND	5.0	07/06/12 13:27	
1,2-Dichloroethane	ug/kg	ND	5.0	07/06/12 13:27	
1,2-Dichloropropane	ug/kg	ND	5.0	07/06/12 13:27	
1,3-Dichlorobenzene	ug/kg	ND	5.0	07/06/12 13:27	
1,4-Dichlorobenzene	ug/kg	ND	5.0	07/06/12 13:27	
2-Butanone (MEK)	ug/kg	ND	10.0	07/06/12 13:27	
2-Hexanone	ug/kg	ND	10.0	07/06/12 13:27	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	07/06/12 13:27	
Acetone	ug/kg	ND	10.0	07/06/12 13:27	
Benzene	ug/kg	ND	5.0	07/06/12 13:27	
Bromodichloromethane	ug/kg	ND	5.0	07/06/12 13:27	
Bromoform	ug/kg	ND	5.0	07/06/12 13:27	
Bromomethane	ug/kg	ND	5.0	07/06/12 13:27	
Carbon disulfide	ug/kg	ND	5.0	07/06/12 13:27	
Carbon tetrachloride	ug/kg	ND	5.0	07/06/12 13:27	
Chlorobenzene	ug/kg	ND	5.0	07/06/12 13:27	
Chloroethane	ug/kg	ND	5.0	07/06/12 13:27	
Chloroform	ug/kg	ND	5.0	07/06/12 13:27	
Chloromethane	ug/kg	ND	5.0	07/06/12 13:27	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	07/06/12 13:27	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	07/06/12 13:27	
Cyclohexane	ug/kg	ND	10.0	07/06/12 13:27	
Dibromochloromethane	ug/kg	ND	5.0	07/06/12 13:27	
Dichlorodifluoromethane	ug/kg	ND	5.0	07/06/12 13:27	
Ethylbenzene	ug/kg	ND	5.0	07/06/12 13:27	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	07/06/12 13:27	
Methyl acetate	ug/kg	ND	50.0	07/06/12 13:27	
Methyl-tert-butyl ether	ug/kg	ND	5.0	07/06/12 13:27	
Methylcyclohexane	ug/kg	ND	10.0	07/06/12 13:27	
Methylene Chloride	ug/kg	ND	5.0	07/06/12 13:27	
Naphthalene	ug/kg	ND	5.0	07/06/12 13:27	
Styrene	ug/kg	ND	5.0	07/06/12 13:27	

QUALITY CONTROL DATA

Project: EPT Ithaca

Pace Project No.: 3072246

METHOD BLANK: 462498

Matrix: Solid

Associated Lab Samples: 3072246001, 3072246004, 3072246005, 3072246006, 3072246007, 3072246008, 3072246009, 3072246010, 3072246011, 3072246012, 3072246013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Tetrachloroethene	ug/kg	ND	5.0	07/06/12 13:27	
Toluene	ug/kg	ND	5.0	07/06/12 13:27	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	07/06/12 13:27	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	07/06/12 13:27	
Trichloroethene	ug/kg	ND	5.0	07/06/12 13:27	
Trichlorofluoromethane	ug/kg	ND	5.0	07/06/12 13:27	
Vinyl chloride	ug/kg	ND	5.0	07/06/12 13:27	
Xylene (Total)	ug/kg	ND	15.0	07/06/12 13:27	
1,2-Dichloroethane-d4 (S)	%	88	70-130	07/06/12 13:27	
4-Bromofluorobenzene (S)	%	102	70-130	07/06/12 13:27	
Toluene-d8 (S)	%	97	70-130	07/06/12 13:27	

LABORATORY CONTROL SAMPLE: 462499

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	20	16.9	84	55-141	
1,1,2,2-Tetrachloroethane	ug/kg	20	15.7	78	58-124	
1,1,2-Trichloroethane	ug/kg	20	16.6	83	70-118	
1,1,2-Trichlorotrifluoroethane	ug/kg	20	19.9J	100	38-196	
1,1-Dichloroethane	ug/kg	20	18.0	90	64-127	
1,1-Dichloroethene	ug/kg	20	18.1	90	50-133	
1,2,4-Trichlorobenzene	ug/kg	20	18.6	93	70-119	
1,2-Dibromo-3-chloropropane	ug/kg	20	15.5	78	54-120	
1,2-Dibromoethane (EDB)	ug/kg	20	16.6	83	67-117	
1,2-Dichlorobenzene	ug/kg	20	17.6	88	67-122	
1,2-Dichloroethane	ug/kg	20	15.2	76	54-132	
1,2-Dichloropropane	ug/kg	20	18.1	90	68-112	
1,3-Dichlorobenzene	ug/kg	20	17.2	86	65-127	
1,4-Dichlorobenzene	ug/kg	20	17.9	89	66-127	
2-Butanone (MEK)	ug/kg	20	17.7	89	54-135	
2-Hexanone	ug/kg	20	19.1	96	58-148	
4-Methyl-2-pentanone (MIBK)	ug/kg	20	16.4	82	55-142	
Acetone	ug/kg	20	4.2J	21	39-200 L0	
Benzene	ug/kg	20	18.8	94	65-130	
Bromodichloromethane	ug/kg	20	15.4	77	57-125	
Bromoform	ug/kg	20	16.3	82	53-121	
Bromomethane	ug/kg	20	9.4	47	30-167	
Carbon disulfide	ug/kg	20	19.5	97	49-150	
Carbon tetrachloride	ug/kg	20	17.8	89	47-146	
Chlorobenzene	ug/kg	20	16.9	84	67-124	
Chloroethane	ug/kg	20	18.4	92	34-170	
Chloroform	ug/kg	20	16.1	81	63-128	
Chloromethane	ug/kg	20	17.9	89	39-159	
cis-1,2-Dichloroethene	ug/kg	20	16.9	85	64-126	

Date: 07/12/2012 05:00 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: EPT Ithaca
Pace Project No.: 3072246

LABORATORY CONTROL SAMPLE: 462499

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,3-Dichloropropene	ug/kg	20	17.8	89	66-124	
Cyclohexane	ug/kg	20	19.9	99	37-186	
Dibromochloromethane	ug/kg	20	15.4	77	56-122	
Dichlorodifluoromethane	ug/kg	20	21.1	106	10-189	
Ethylbenzene	ug/kg	20	17.7	88	65-131	
Isopropylbenzene (Cumene)	ug/kg	20	19.3	96	64-137	
Methyl acetate	ug/kg	20	14.8J	74	10-200	
Methyl-tert-butyl ether	ug/kg	20	14.6	73	71-130	
Methylcyclohexane	ug/kg	20	20.7	103	61-159	
Methylene Chloride	ug/kg	20	14.5	73	45-136	
Naphthalene	ug/kg	20	17.8	89	70-123	
Styrene	ug/kg	20	17.3	86	64-122	
Tetrachloroethene	ug/kg	20	17.8	89	61-138	
Toluene	ug/kg	20	17.4	87	63-132	
trans-1,2-Dichloroethene	ug/kg	20	17.3	87	60-130	
trans-1,3-Dichloropropene	ug/kg	20	15.6	78	58-116	
Trichloroethene	ug/kg	20	17.8	89	65-131	
Trichlorofluoromethane	ug/kg	20	19.4	97	49-148	
Vinyl chloride	ug/kg	20	19.1	96	49-149	
Xylene (Total)	ug/kg	60	51.2	85	65-134	
1,2-Dichloroethane-d4 (S)	%			90	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 462500 462501

Parameter	Units	3072246001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/kg	ND	25.2	18.2	23.2	16.3	92	89	55-141	3	
1,1,2,2-Tetrachloroethane	ug/kg	ND	25.2	18.2	15.0	10.3	59	57	58-124	3	M0
1,1,2-Trichloroethane	ug/kg	ND	25.2	18.2	21.2	14.7	84	81	70-118	4	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	25.2	18.2	26.1J	18.4J	103	101	38-196		
1,1-Dichloroethane	ug/kg	ND	25.2	18.2	24.9	17.1	98	94	64-127	4	
1,1-Dichloroethene	ug/kg	ND	25.2	18.2	24.9	17.1	99	94	50-133	5	
1,2,4-Trichlorobenzene	ug/kg	ND	25.2	18.2	17.6	11.4	70	63	70-119	11	M0
1,2-Dibromo-3-chloropropane	ug/kg	ND	25.2	18.2	19.8	13.5	78	74	54-120	5	
1,2-Dibromoethane (EDB)	ug/kg	ND	25.2	18.2	19.7	13.9	78	77	67-117	1	
1,2-Dichlorobenzene	ug/kg	ND	25.2	18.2	19.4	12.9	77	71	67-122	8	
1,2-Dichloroethane	ug/kg	ND	25.2	18.2	21.3	14.3	84	79	54-132	6	
1,2-Dichloropropane	ug/kg	ND	25.2	18.2	24.4	16.8	97	92	68-112	5	
1,3-Dichlorobenzene	ug/kg	ND	25.2	18.2	18.9	12.7	75	70	65-127	7	
1,4-Dichlorobenzene	ug/kg	ND	25.2	18.2	18.0	11.8	71	65	66-127	9	M0
2-Butanone (MEK)	ug/kg	ND	25.2	18.2	25.9	17.1	102	94	54-135	8	
2-Hexanone	ug/kg	ND	25.2	18.2	22.0	15.7	87	86	58-148	1	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.2	18.2	22.0	15.5	87	86	55-142	1	
Acetone	ug/kg	17.6	25.2	18.2	34.4	32.1	67	80	39-200	18	
Benzene	ug/kg	ND	25.2	18.2	25.0	17.0	99	94	65-130	5	

Date: 07/12/2012 05:00 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: EPT Ithaca
Pace Project No.: 3072246

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 462500 462501											
Parameter	Units	3072246001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Bromodichloromethane	ug/kg	ND	25.2	18.2	20.7	14.1	82	77	57-125	6	
Bromoform	ug/kg	ND	25.2	18.2	20.8	14.6	82	80	53-121	2	
Bromomethane	ug/kg	ND	25.2	18.2	11.8	9.1	47	50	30-167	6	
Carbon disulfide	ug/kg	ND	25.2	18.2	24.6	16.9	97	93	49-150	4	
Carbon tetrachloride	ug/kg	ND	25.2	18.2	24.0	16.7	95	92	47-146	3	
Chlorobenzene	ug/kg	ND	25.2	18.2	19.9	13.3	79	73	67-124	8	
Chloroethane	ug/kg	ND	25.2	18.2	24.8	17.0	98	93	34-170	5	
Chloroform	ug/kg	ND	25.2	18.2	22.6	16.0	86	83	63-128	4	
Chloromethane	ug/kg	ND	25.2	18.2	24.4	17.0	97	93	39-159	4	
cis-1,2-Dichloroethene	ug/kg	ND	25.2	18.2	22.7	15.5	90	86	64-126	5	
cis-1,3-Dichloropropene	ug/kg	ND	25.2	18.2	22.2	15.4	88	85	66-124	3	
Cyclohexane	ug/kg	ND	25.2	18.2	25.7	17.7	102	97	37-186	5	
Dibromochloromethane	ug/kg	ND	25.2	18.2	19.1	13.4	76	74	56-122	3	
Dichlorodifluoromethane	ug/kg	ND	25.2	18.2	28.6	20.2	113	111	10-189	2	
Ethylbenzene	ug/kg	ND	25.2	18.2	21.0	14.3	83	79	65-131	5	
Isopropylbenzene (Cumene)	ug/kg	ND	25.2	18.2	23.9	16.4	95	90	64-137	5	
Methyl acetate	ug/kg	ND	25.2	18.2	18.9J	14J	75	77	10-200		
Methyl-tert-butyl ether	ug/kg	ND	25.2	18.2	20.6	14.9	81	82	71-130	1	
Methylcyclohexane	ug/kg	ND	25.2	18.2	24.6	17.4	97	96	61-159	1	
Methylene Chloride	ug/kg	7.2	25.2	18.2	28.0	20.7	82	75	45-136	9	
Naphthalene	ug/kg	ND	25.2	18.2	16.4	11.1	65	61	70-123	6 M0	
Styrene	ug/kg	ND	25.2	18.2	19.9	13.1	79	72	64-122	9	
Tetrachloroethene	ug/kg	ND	25.2	18.2	21.5	15.0	84	81	61-138	4	
Toluene	ug/kg	ND	25.2	18.2	22.3	15.7	86	82	63-132	5	
trans-1,2-Dichloroethene	ug/kg	ND	25.2	18.2	22.3	15.4	88	85	60-130	3	
trans-1,3-Dichloropropene	ug/kg	ND	25.2	18.2	18.5	11.9	73	66	58-116	10	
Trichloroethene	ug/kg	ND	25.2	18.2	31.6	22.7	112	107	65-131	5	
Trichlorofluoromethane	ug/kg	ND	25.2	18.2	26.2	18.4	104	101	49-148	3	
Vinyl chloride	ug/kg	ND	25.2	18.2	26.2	18.4	104	101	49-149	3	
Xylene (Total)	ug/kg	ND	75.8	54.5	62.3	43.3	82	79	65-134	4	
1,2-Dichloroethane-d4 (S)	%						93	94	70-130		
4-Bromofluorobenzene (S)	%						102	105	70-130		
Toluene-d8 (S)	%						99	99	70-130		

QUALITY CONTROL DATA

Project: EPT Ithaca

Pace Project No.: 3072246

QC Batch: PMST/3251 Analysis Method: ASTM D2974-87
 QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
 Associated Lab Samples: 3072246001, 3072246004, 3072246005, 3072246006, 3072246007

SAMPLE DUPLICATE: 462830

Parameter	Units	3072241002 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	13.0	14.4	10	

SAMPLE DUPLICATE: 462831

Parameter	Units	3072241003 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	17.2	16.2	6	

QUALITY CONTROL DATA

Project: EPT Ithaca

Pace Project No.: 3072246

QC Batch: PMST/3252

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 3072246008, 3072246009, 3072246010, 3072246011, 3072246012, 3072246013

SAMPLE DUPLICATE: 462833

Parameter	Units	3072246008 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	11.5	6.9	50	

SAMPLE DUPLICATE: 462834

Parameter	Units	3072246013 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	4.6	4.0	13	

QUALIFIERS

Project: EPT Ithaca
Pace Project No.: 3072246

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: EPT Ithaca

Pace Project No.: 3072246

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3072246001	SB-TP1 (4.5-6.5)	EPA 8260	MSV/13227		
3072246004	SB-TP3 (4-6)	EPA 8260	MSV/13227		
3072246005	SB-24a (0-2)	EPA 8260	MSV/13227		
3072246006	SB-0612 (2-4)	EPA 8260	MSV/13227		
3072246007	SB-24a (2-4)	EPA 8260	MSV/13227		
3072246008	SB-24a (10-11)	EPA 8260	MSV/13227		
3072246009	SB-1G (2-5)	EPA 8260	MSV/13227		
3072246010	SB-1G (12-13.5)	EPA 8260	MSV/13227		
3072246011	SB-1H (12-14)	EPA 8260	MSV/13227		
3072246012	SB-1H (5-6)	EPA 8260	MSV/13227		
3072246013	SB-TP2 (4.5-6.5)	EPA 8260	MSV/13227		
3072246001	SB-TP1 (4.5-6.5)	ASTM D2974-87	PMST/3251		
3072246004	SB-TP3 (4-6)	ASTM D2974-87	PMST/3251		
3072246005	SB-24a (0-2)	ASTM D2974-87	PMST/3251		
3072246006	SB-0612 (2-4)	ASTM D2974-87	PMST/3251		
3072246007	SB-24a (2-4)	ASTM D2974-87	PMST/3251		
3072246008	SB-24a (10-11)	ASTM D2974-87	PMST/3252		
3072246009	SB-1G (2-5)	ASTM D2974-87	PMST/3252		
3072246010	SB-1G (12-13.5)	ASTM D2974-87	PMST/3252		
3072246011	SB-1H (12-14)	ASTM D2974-87	PMST/3252		
3072246012	SB-1H (5-6)	ASTM D2974-87	PMST/3252		
3072246013	SB-TP2 (4.5-6.5)	ASTM D2974-87	PMST/3252		

July 12, 2012

Mr. Scott Petersen
WSP Environment & Energy
5 Sullivan Street
Cazenovia, NY 13035

RE: Project: 455-055
Pace Project No.: 3072644

Dear Mr. Petersen:

Enclosed are the analytical results for sample(s) received by the laboratory on July 03, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

The samples were subcontracted to Phoenix Environmental Labs, 587 East Middle Turnpike PO Box 370, Manchester CT 06040, for Petroleum Identification analysis.

The results of this analysis are reported on the Phoenix Environmental Labs data tables attached.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Penny Westrick

penny.westrick@pacelabs.com
Project Manager



REPORT OF LABORATORY ANALYSIS

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July 12, 2012
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Enclosures

cc: Mr. Erik Reinert, WSP Environment & Energy



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 455-055

Pace Project No.: 3072644

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601

ACCLASS DOD-ELAP Accreditation #: ADE-1544

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California/TNI Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH 0694

Delaware Certification

Florida/TNI Certification #: E87683

Guam/PADEP Certification

Hawaii/PADEP Certification

Idaho Certification

Illinois/PADEP Certification

Indiana/PADEP Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana/TNI Certification #: LA080002

Louisiana/TNI Certification #: 4086

Maine Certification #: PA0091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nevada Certification

New Hampshire/TNI Certification #: 2976

New Jersey/TNI Certification #: PA 051

New Mexico Certification

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188

Utah/TNI Certification #: ANTE

Virgin Island/PADEP Certification

Virginia Certification #: 00112

Virginia VELAP (Cert # 460198)

Washington Certification #: C868

West Virginia Certification #: 143

Wisconsin/PADEP Certification

Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 455-055

Pace Project No.: 3072644

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3072644001	CatchBasin 070212	EPA 8015B Modified	CWB	2	PASI-PA
		EPA 8082	SJG	10	PASI-PA
		EPA 8015B Modified	MAK	3	PASI-PA
		EPA 8270	SPL	70	PASI-PA
		EPA 8260	JEW	45	PASI-PA
		ASTM D2974-87	AJC	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 455-055
Pace Project No.: 3072644

Method: EPA 8015B Modified
Description: 8015 GCS THC-Diesel
Client: WSP Environment & Energy - Cazenovia, NY
Date: July 12, 2012

General Information:

1 sample was analyzed for EPA 8015B Modified. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/12014

S0: Surrogate recovery outside laboratory control limits.

- MS (Lab ID: 462329)
- o-Terphenyl (S)

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- CatchBasin 070212 (Lab ID: 3072644001)
- o-Terphenyl (S)

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/12014

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 3072834001

R1: RPD value was outside control limits.

- MSD (Lab ID: 462330)
- o-Terphenyl (S)

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 455-055

Pace Project No.: 3072644

Method: EPA 8015B Modified

Description: 8015 GCS THC-Diesel

Client: WSP Environment & Energy - Cazenovia, NY

Date: July 12, 2012

Additional Comments:

Analyte Comments:

QC Batch: OEXT/12014

2c: The majority of the area quantitated as DRO for this sample is due to unresolved material eluting beyond C 20.

- CatchBasin 070212 (Lab ID: 3072644001)
 - Diesel Components

3c: The matrix spike is low due to matrix interferences. The batch is accepted based upon the LCS and MSD recoveries.

- MS (Lab ID: 462329)
 - Diesel Components

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 455-055
Pace Project No.: 3072644

Method: EPA 8082
Description: 8082 GCS PCB
Client: WSP Environment & Energy - Cazenovia, NY
Date: July 12, 2012

General Information:

1 sample was analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/12008

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 3072712001

M3: Matrix spike recovery was outside laboratory control limits due to matrix interferences.

- MS (Lab ID: 461722)
- PCB-1260 (Aroclor 1260)

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: OEXT/12008

1c: Result reported from rear column due to low response in closing calibration standard on front column.

- LCS (Lab ID: 461721)
- PCB-1016 (Aroclor 1016)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 455-055

Pace Project No.: 3072644

Method: EPA 8082

Description: 8082 GCS PCB

Client: WSP Environment & Energy - Cazenovia, NY

Date: July 12, 2012

Analyte Comments:

QC Batch: OEXT/12008

1c: Result reported from rear column due to low response in closing calibration standard on front column.

- LCS (Lab ID: 461721)
- PCB-1260 (Aroclor 1260)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 455-055

Pace Project No.: 3072644

Method: EPA 8015B Modified

Description: Gasoline Range Organics

Client: WSP Environment & Energy - Cazenovia, NY

Date: July 12, 2012

General Information:

1 sample was analyzed for EPA 8015B Modified. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 5035A/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 455-055
Pace Project No.: 3072644

Method: EPA 8270
Description: 8270 MSSV FULL LIST MICROWAVE
Client: WSP Environment & Energy - Cazenovia, NY
Date: July 12, 2012

General Information:

1 sample was analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/11997

S3: Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

- BLANK (Lab ID: 461365)
 - 2-Fluorobiphenyl (S)
 - 2-Fluorophenol (S)
 - Nitrobenzene-d5 (S)
 - Phenol-d6 (S)
 - Terphenyl-d14 (S)

S5: Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

- CatchBasin 070212 (Lab ID: 3072644001)
 - Nitrobenzene-d5 (S)

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 455-055

Pace Project No.: 3072644

Method: EPA 8270

Description: 8270 MSSV FULL LIST MICROWAVE

Client: WSP Environment & Energy - Cazenovia, NY

Date: July 12, 2012

QC Batch: OEXT/11997

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 3072713001

R1: RPD value was outside control limits.

- MSD (Lab ID: 461462)
 - 1,4-Dichlorobenzene
 - 2,4-Dinitrotoluene
 - 2-Chlorophenol
 - Acenaphthene
 - N-Nitroso-di-n-propylamine
 - Pentachlorophenol
 - Phenol
 - Pyrene

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 455-055
Pace Project No.: 3072644

Method: EPA 8260
Description: 8260 MSV 5030 Low Level
Client: WSP Environment & Energy - Cazenovia, NY
Date: July 12, 2012

General Information:

1 sample was analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/13227

LO: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 462499)
- Acetone

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 455-055
Pace Project No.: 3072644

Sample: CatchBasin 070212 **Lab ID:** 3072644001 Collected: 07/02/12 15:30 Received: 07/03/12 10:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel								
Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Diesel Components	18300	mg/kg	1790	50	07/09/12 09:00	07/10/12 15:02		2c
Surrogates								
o-Terphenyl (S)	0	%	50-150	50	07/09/12 09:00	07/10/12 15:02	84-15-1	S4
8082 GCS PCB								
Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	911	10	07/06/12 13:00	07/11/12 10:15	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	911	10	07/06/12 13:00	07/11/12 10:15	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	911	10	07/06/12 13:00	07/11/12 10:15	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	911	10	07/06/12 13:00	07/11/12 10:15	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	911	10	07/06/12 13:00	07/11/12 10:15	12672-29-6	
PCB-1254 (Aroclor 1254)	918	ug/kg	911	10	07/06/12 13:00	07/11/12 10:15	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	911	10	07/06/12 13:00	07/11/12 10:15	11096-82-5	
PCB, Total	918	ug/kg	911	10	07/06/12 13:00	07/11/12 10:15	1336-36-3	
Surrogates								
Tetrachloro-m-xylene (S)	51	%	30-150	10	07/06/12 13:00	07/11/12 10:15	877-09-8	
Decachlorobiphenyl (S)	47	%	30-150	10	07/06/12 13:00	07/11/12 10:15	2051-24-3	
Gasoline Range Organics								
Analytical Method: EPA 8015B Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND	mg/kg	14.6	1	07/06/12 11:29	07/06/12 20:31		
TPH (C06-C10)	ND	mg/kg	14.6	1	07/06/12 11:29	07/06/12 20:31		
Surrogates								
4-Bromofluorobenzene (S)	104	%	70-130	1	07/06/12 11:29	07/06/12 20:31	460-00-4	
8270 MSSV FULL LIST MICROWAVE								
Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	78400	ug/kg	17700	10	07/05/12 15:00	07/12/12 12:22	83-32-9	
Acenaphthylene	2950	ug/kg	1770	1	07/05/12 15:00	07/11/12 21:05	208-96-8	
Anthracene	105000	ug/kg	17700	10	07/05/12 15:00	07/12/12 12:22	120-12-7	
Benzo(a)anthracene	244000	ug/kg	17700	10	07/05/12 15:00	07/12/12 12:22	56-55-3	
Benzo(a)pyrene	221000	ug/kg	17700	10	07/05/12 15:00	07/12/12 12:22	50-32-8	
Benzo(b)fluoranthene	287000	ug/kg	17700	10	07/05/12 15:00	07/12/12 12:22	205-99-2	
Benzo(g,h,i)perylene	90100	ug/kg	17700	10	07/05/12 15:00	07/12/12 12:22	191-24-2	
Benzo(k)fluoranthene	120000	ug/kg	17700	10	07/05/12 15:00	07/12/12 12:22	207-08-9	
Benzyl alcohol	ND	ug/kg	1770	1	07/05/12 15:00	07/11/12 21:05	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	1770	1	07/05/12 15:00	07/11/12 21:05	101-55-3	
Butylbenzylphthalate	30200	ug/kg	17700	10	07/05/12 15:00	07/12/12 12:22	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	1770	1	07/05/12 15:00	07/11/12 21:05	59-50-7	
4-Chloroaniline	ND	ug/kg	1770	1	07/05/12 15:00	07/11/12 21:05	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	1770	1	07/05/12 15:00	07/11/12 21:05	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	1770	1	07/05/12 15:00	07/11/12 21:05	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	1770	1	07/05/12 15:00	07/11/12 21:05	108-60-1	
2-Chloronaphthalene	ND	ug/kg	1770	1	07/05/12 15:00	07/11/12 21:05	91-58-7	
2-Chlorophenol	ND	ug/kg	1770	1	07/05/12 15:00	07/11/12 21:05	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	1770	1	07/05/12 15:00	07/11/12 21:05	7005-72-3	
Chrysene	257000	ug/kg	17700	10	07/05/12 15:00	07/12/12 12:22	218-01-9	
Dibenz(a,h)anthracene	24300	ug/kg	1770	1	07/05/12 15:00	07/11/12 21:05	53-70-3	

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ANALYTICAL RESULTS

Project: 455-055
Pace Project No.: 3072644

Sample: CatchBasin 070212 **Lab ID:** 3072644001 **Collected:** 07/02/12 15:30 **Received:** 07/03/12 10:15 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV FULL LIST		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
MICROWAVE								
Dibenzofuran	70200	ug/kg	17700	10	07/05/12 15:00	07/12/12 12:22	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	1770	1	07/05/12 15:00	07/11/12 21:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	1770	1	07/05/12 15:00	07/11/12 21:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	1770	1	07/05/12 15:00	07/11/12 21:05	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1770	1	07/05/12 15:00	07/11/12 21:05	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	1770	1	07/05/12 15:00	07/11/12 21:05	120-83-2	
Diethylphthalate	ND	ug/kg	1770	1	07/05/12 15:00	07/11/12 21:05	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	1770	1	07/05/12 15:00	07/11/12 21:05	105-67-9	
Dimethylphthalate	ND	ug/kg	1770	1	07/05/12 15:00	07/11/12 21:05	131-11-3	
Di-n-butylphthalate	ND	ug/kg	1770	1	07/05/12 15:00	07/11/12 21:05	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	4440	1	07/05/12 15:00	07/11/12 21:05	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	4440	1	07/05/12 15:00	07/11/12 21:05	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	1770	1	07/05/12 15:00	07/11/12 21:05	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	1770	1	07/05/12 15:00	07/11/12 21:05	606-20-2	
Di-n-octylphthalate	ND	ug/kg	1770	1	07/05/12 15:00	07/11/12 21:05	117-84-0	
bis(2-Ethylhexyl)phthalate	29500	ug/kg	1770	1	07/05/12 15:00	07/11/12 21:05	117-81-7	
Fluoranthene	652000	ug/kg	177000	100	07/05/12 15:00	07/12/12 12:01	206-44-0	
Fluorene	93500	ug/kg	17700	10	07/05/12 15:00	07/12/12 12:22	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	1770	1	07/05/12 15:00	07/11/12 21:05	87-68-3	
Hexachlorobenzene	ND	ug/kg	1770	1	07/05/12 15:00	07/11/12 21:05	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	1770	1	07/05/12 15:00	07/11/12 21:05	77-47-4	
Hexachloroethane	ND	ug/kg	1770	1	07/05/12 15:00	07/11/12 21:05	67-72-1	
Indeno(1,2,3-cd)pyrene	92000	ug/kg	17700	10	07/05/12 15:00	07/12/12 12:22	193-39-5	
Isophorone	ND	ug/kg	1770	1	07/05/12 15:00	07/11/12 21:05	78-59-1	
2-Methylnaphthalene	37400	ug/kg	17700	10	07/05/12 15:00	07/12/12 12:22	91-57-6	
2-Methylphenol(o-Cresol)	1980	ug/kg	1770	1	07/05/12 15:00	07/11/12 21:05	95-48-7	
3&4-Methylphenol(m&p Cresol)	6610	ug/kg	3550	1	07/05/12 15:00	07/11/12 21:05		
Naphthalene	134000	ug/kg	17700	10	07/05/12 15:00	07/12/12 12:22	91-20-3	
2-Nitroaniline	ND	ug/kg	4440	1	07/05/12 15:00	07/11/12 21:05	88-74-4	
3-Nitroaniline	ND	ug/kg	4440	1	07/05/12 15:00	07/11/12 21:05	99-09-2	
4-Nitroaniline	ND	ug/kg	4440	1	07/05/12 15:00	07/11/12 21:05	100-01-6	
Nitrobenzene	ND	ug/kg	1770	1	07/05/12 15:00	07/11/12 21:05	98-95-3	
2-Nitrophenol	ND	ug/kg	1770	1	07/05/12 15:00	07/11/12 21:05	88-75-5	
4-Nitrophenol	ND	ug/kg	1770	1	07/05/12 15:00	07/11/12 21:05	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/kg	1770	1	07/05/12 15:00	07/11/12 21:05	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	1770	1	07/05/12 15:00	07/11/12 21:05	86-30-6	
Pentachlorophenol	ND	ug/kg	4440	1	07/05/12 15:00	07/11/12 21:05	87-86-5	
Phenanthrene	741000	ug/kg	177000	100	07/05/12 15:00	07/12/12 12:01	85-01-8	
Phenol	4960	ug/kg	1770	1	07/05/12 15:00	07/11/12 21:05	108-95-2	
Pyrene	593000	ug/kg	177000	100	07/05/12 15:00	07/12/12 12:01	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	1770	1	07/05/12 15:00	07/11/12 21:05	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	4440	1	07/05/12 15:00	07/11/12 21:05	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	1770	1	07/05/12 15:00	07/11/12 21:05	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	32	%	49-118	1	07/05/12 15:00	07/11/12 21:05	4165-60-0	S5

Date: 07/12/2012 03:41 PM

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ANALYTICAL RESULTS

Project: 455-055
Pace Project No.: 3072644

Sample: CatchBasin 070212 **Lab ID:** 3072644001 **Collected:** 07/02/12 15:30 **Received:** 07/03/12 10:15 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

8270 MSSV FULL LIST MICROWAVE

Analytical Method: EPA 8270 Preparation Method: EPA 3546

Surrogates

2-Fluorobiphenyl (S)	83 %		48-125	1	07/05/12 15:00	07/11/12 21:05	321-60-8	
Terphenyl-d14 (S)	137 %		29-159	1	07/05/12 15:00	07/11/12 21:05	1718-51-0	
Phenol-d6 (S)	70 %		30-130	1	07/05/12 15:00	07/11/12 21:05	13127-88-3	
2-Fluorophenol (S)	59 %		25-138	1	07/05/12 15:00	07/11/12 21:05	367-12-4	
2,4,6-Tribromophenol (S)	72 %		10-144	1	07/05/12 15:00	07/11/12 21:05	118-79-6	

8260 MSV 5030 Low Level

Analytical Method: EPA 8260

Acetone	ND ug/kg	729	50		07/06/12 20:44	67-64-1
Benzene	ND ug/kg	365	50		07/06/12 20:44	71-43-2
Bromodichloromethane	ND ug/kg	365	50		07/06/12 20:44	75-27-4
Bromoform	ND ug/kg	365	50		07/06/12 20:44	75-25-2
Bromomethane	ND ug/kg	365	50		07/06/12 20:44	74-83-9
TOTAL BTEX	ND ug/kg	2190	50		07/06/12 20:44	
2-Butanone (MEK)	ND ug/kg	729	50		07/06/12 20:44	78-93-3
Carbon disulfide	ND ug/kg	365	50		07/06/12 20:44	75-15-0
Carbon tetrachloride	ND ug/kg	365	50		07/06/12 20:44	56-23-5
Chlorobenzene	ND ug/kg	365	50		07/06/12 20:44	108-90-7
Chloroethane	ND ug/kg	365	50		07/06/12 20:44	75-00-3
Chloroform	ND ug/kg	365	50		07/06/12 20:44	67-66-3
Chloromethane	ND ug/kg	365	50		07/06/12 20:44	74-87-3
Dibromochloromethane	ND ug/kg	365	50		07/06/12 20:44	124-48-1
1,2-Dichlorobenzene	ND ug/kg	365	50		07/06/12 20:44	95-50-1
1,3-Dichlorobenzene	ND ug/kg	365	50		07/06/12 20:44	541-73-1
1,4-Dichlorobenzene	ND ug/kg	365	50		07/06/12 20:44	106-46-7
1,1-Dichloroethane	ND ug/kg	365	50		07/06/12 20:44	75-34-3
1,2-Dichloroethane	ND ug/kg	365	50		07/06/12 20:44	107-06-2
1,2-Dichloroethene (Total)	ND ug/kg	729	50		07/06/12 20:44	540-59-0
1,1-Dichloroethene	ND ug/kg	365	50		07/06/12 20:44	75-35-4
cis-1,2-Dichloroethene	ND ug/kg	365	50		07/06/12 20:44	156-59-2
trans-1,2-Dichloroethene	ND ug/kg	365	50		07/06/12 20:44	156-60-5
1,2-Dichloropropane	ND ug/kg	365	50		07/06/12 20:44	78-87-5
cis-1,3-Dichloropropene	ND ug/kg	365	50		07/06/12 20:44	10061-01-5
trans-1,3-Dichloropropene	ND ug/kg	365	50		07/06/12 20:44	10061-02-6
Ethylbenzene	ND ug/kg	365	50		07/06/12 20:44	100-41-4
2-Hexanone	ND ug/kg	729	50		07/06/12 20:44	591-78-6
Methylene Chloride	ND ug/kg	365	50		07/06/12 20:44	75-09-2
4-Methyl-2-pentanone (MIBK)	ND ug/kg	729	50		07/06/12 20:44	108-10-1
Methyl-tert-butyl ether	ND ug/kg	365	50		07/06/12 20:44	1634-04-4
Styrene	ND ug/kg	365	50		07/06/12 20:44	100-42-5
1,1,2,2-Tetrachloroethane	ND ug/kg	365	50		07/06/12 20:44	79-34-5
Tetrachloroethene	ND ug/kg	365	50		07/06/12 20:44	127-18-4
Toluene	ND ug/kg	365	50		07/06/12 20:44	108-88-3
1,1,1-Trichloroethane	ND ug/kg	365	50		07/06/12 20:44	71-55-6
1,1,2-Trichloroethane	ND ug/kg	365	50		07/06/12 20:44	79-00-5

ANALYTICAL RESULTS

Project: 455-055

Pace Project No.: 3072644

Sample: CatchBasin 070212 **Lab ID:** 3072644001 Collected: 07/02/12 15:30 Received: 07/03/12 10:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Trichloroethene	ND	ug/kg	365	50		07/06/12 20:44	79-01-6	
Vinyl chloride	ND	ug/kg	365	50		07/06/12 20:44	75-01-4	
Xylene (Total)	ND	ug/kg	1090	50		07/06/12 20:44	1330-20-7	
m&p-Xylene	ND	ug/kg	729	50		07/06/12 20:44	179601-23-1	
o-Xylene	ND	ug/kg	365	50		07/06/12 20:44	95-47-6	
Surrogates								
Toluene-d8 (S)	102	%	70-130	50		07/06/12 20:44	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130	50		07/06/12 20:44	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	70-130	50		07/06/12 20:44	17060-07-0	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	45.3	%	0.10	1		07/09/12 16:23		

QUALITY CONTROL DATA

Project: 455-055

Pace Project No.: 3072644

QC Batch:	GCV/1753	Analysis Method:	EPA 8015B Modified
QC Batch Method:	EPA 5035A/5030B	Analysis Description:	Gasoline Range Organics
Associated Lab Samples:	3072644001		

METHOD BLANK: 461740 Matrix: Solid

Associated Lab Samples: 3072644001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	10.0	07/06/12 15:47	
TPH (C06-C10)	mg/kg	ND	10.0	07/06/12 15:47	
4-Bromofluorobenzene (S)	%	117	70-130	07/06/12 15:47	

LABORATORY CONTROL SAMPLE: 461741

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	50	42.0	84	70-130	
TPH (C06-C10)	mg/kg	50	41.7	83	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 461742 461743

Parameter	Units	3072241001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Gasoline Range Organics	mg/kg	ND	43.6	43.6	47.4	47.5	102	102	70-130	.1	
TPH (C06-C10)	mg/kg	ND	43.6	43.6	47.2	47.5	101	101	70-130	.5	
4-Bromofluorobenzene (S)	%						105	117	70-130		

QUALITY CONTROL DATA

Project: 455-055
Pace Project No.: 3072644

QC Batch:	MSV/13227	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV 5035 Low
Associated Lab Samples:	3072644001		

METHOD BLANK:	462498	Matrix:	Solid
Associated Lab Samples:	3072644001		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	5.0	07/06/12 13:27	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	07/06/12 13:27	
1,1,2-Trichloroethane	ug/kg	ND	5.0	07/06/12 13:27	
1,1-Dichloroethane	ug/kg	ND	5.0	07/06/12 13:27	
1,1-Dichloroethene	ug/kg	ND	5.0	07/06/12 13:27	
1,2-Dichlorobenzene	ug/kg	ND	5.0	07/06/12 13:27	
1,2-Dichloroethane	ug/kg	ND	5.0	07/06/12 13:27	
1,2-Dichloropropane	ug/kg	ND	5.0	07/06/12 13:27	
1,3-Dichlorobenzene	ug/kg	ND	5.0	07/06/12 13:27	
1,4-Dichlorobenzene	ug/kg	ND	5.0	07/06/12 13:27	
2-Butanone (MEK)	ug/kg	ND	10.0	07/06/12 13:27	
2-Hexanone	ug/kg	ND	10.0	07/06/12 13:27	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	07/06/12 13:27	
Acetone	ug/kg	ND	10.0	07/06/12 13:27	
Benzene	ug/kg	ND	5.0	07/06/12 13:27	
Bromodichloromethane	ug/kg	ND	5.0	07/06/12 13:27	
Bromoform	ug/kg	ND	5.0	07/06/12 13:27	
Bromomethane	ug/kg	ND	5.0	07/06/12 13:27	
Carbon disulfide	ug/kg	ND	5.0	07/06/12 13:27	
Carbon tetrachloride	ug/kg	ND	5.0	07/06/12 13:27	
Chlorobenzene	ug/kg	ND	5.0	07/06/12 13:27	
Chloroethane	ug/kg	ND	5.0	07/06/12 13:27	
Chloroform	ug/kg	ND	5.0	07/06/12 13:27	
Chloromethane	ug/kg	ND	5.0	07/06/12 13:27	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	07/06/12 13:27	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	07/06/12 13:27	
Dibromochloromethane	ug/kg	ND	5.0	07/06/12 13:27	
Ethylbenzene	ug/kg	ND	5.0	07/06/12 13:27	
m&p-Xylene	ug/kg	ND	10.0	07/06/12 13:27	
Methyl-tert-butyl ether	ug/kg	ND	5.0	07/06/12 13:27	
Methylene Chloride	ug/kg	ND	5.0	07/06/12 13:27	
o-Xylene	ug/kg	ND	5.0	07/06/12 13:27	
Styrene	ug/kg	ND	5.0	07/06/12 13:27	
Tetrachloroethene	ug/kg	ND	5.0	07/06/12 13:27	
Toluene	ug/kg	ND	5.0	07/06/12 13:27	
TOTAL BTEX	ug/kg	ND	30.0	07/06/12 13:27	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	07/06/12 13:27	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	07/06/12 13:27	
Trichloroethene	ug/kg	ND	5.0	07/06/12 13:27	
Vinyl chloride	ug/kg	ND	5.0	07/06/12 13:27	
Xylene (Total)	ug/kg	ND	15.0	07/06/12 13:27	
1,2-Dichloroethane-d4 (S)	%	88	70-130	07/06/12 13:27	
4-Bromofluorobenzene (S)	%	102	70-130	07/06/12 13:27	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 455-055
Pace Project No.: 3072644

METHOD BLANK: 462498

Matrix: Solid

Associated Lab Samples: 3072644001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene-d8 (S)	%	97	70-130	07/06/12 13:27	

LABORATORY CONTROL SAMPLE: 462499

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	20	16.9	84	55-141	
1,1,2,2-Tetrachloroethane	ug/kg	20	15.7	78	58-124	
1,1,2-Trichloroethane	ug/kg	20	16.6	83	70-118	
1,1-Dichloroethane	ug/kg	20	18.0	90	64-127	
1,1-Dichloroethene	ug/kg	20	18.1	90	50-133	
1,2-Dichlorobenzene	ug/kg	20	17.6	88	67-122	
1,2-Dichloroethane	ug/kg	20	15.2	76	54-132	
1,2-Dichloropropane	ug/kg	20	18.1	90	68-112	
1,3-Dichlorobenzene	ug/kg	20	17.2	86	65-127	
1,4-Dichlorobenzene	ug/kg	20	17.9	89	66-127	
2-Butanone (MEK)	ug/kg	20	17.7	89	54-135	
2-Hexanone	ug/kg	20	19.1	96	58-148	
4-Methyl-2-pentanone (MIBK)	ug/kg	20	16.4	82	55-142	
Acetone	ug/kg	20	4.2J	21	39-200	L0
Benzene	ug/kg	20	18.8	94	65-130	
Bromodichloromethane	ug/kg	20	15.4	77	57-125	
Bromoform	ug/kg	20	16.3	82	53-121	
Bromomethane	ug/kg	20	9.4	47	30-167	
Carbon disulfide	ug/kg	20	19.5	97	49-150	
Carbon tetrachloride	ug/kg	20	17.8	89	47-146	
Chlorobenzene	ug/kg	20	16.9	84	67-124	
Chloroethane	ug/kg	20	18.4	92	34-170	
Chloroform	ug/kg	20	16.1	81	63-128	
Chloromethane	ug/kg	20	17.9	89	39-159	
cis-1,2-Dichloroethene	ug/kg	20	16.9	85	64-126	
cis-1,3-Dichloropropene	ug/kg	20	17.8	89	66-124	
Dibromochloromethane	ug/kg	20	15.4	77	56-122	
Ethylbenzene	ug/kg	20	17.7	88	65-131	
m&p-Xylene	ug/kg	40	34.4	86	63-136	
Methyl-tert-butyl ether	ug/kg	20	14.6	73	71-130	
Methylene Chloride	ug/kg	20	14.5	73	45-136	
o-Xylene	ug/kg	20	16.8	84	68-129	
Styrene	ug/kg	20	17.3	86	64-122	
Tetrachloroethene	ug/kg	20	17.8	89	61-138	
Toluene	ug/kg	20	17.4	87	63-132	
TOTAL BTEX	ug/kg		105			
trans-1,2-Dichloroethene	ug/kg	20	17.3	87	60-130	
trans-1,3-Dichloropropene	ug/kg	20	15.6	78	58-116	
Trichloroethene	ug/kg	20	17.8	89	65-131	
Vinyl chloride	ug/kg	20	19.1	96	49-149	

QUALITY CONTROL DATA

Project: 455-055

Pace Project No.: 3072644

LABORATORY CONTROL SAMPLE: 462499

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/kg	60	51.2	85	65-134	
1,2-Dichloroethane-d4 (S)	%			90	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			100	70-130	

QUALITY CONTROL DATA

Project: 455-055

Pace Project No.: 3072644

QC Batch:	OEXT/12014	Analysis Method:	EPA 8015B Modified
QC Batch Method:	EPA 3546	Analysis Description:	8015 Solid GCSV
Associated Lab Samples:	3072644001		

METHOD BLANK: 462267 Matrix: Solid

Associated Lab Samples: 3072644001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Components	mg/kg	ND	6.7	07/10/12 14:38	
o-Terphenyl (S)	%	85	50-150	07/10/12 14:38	

LABORATORY CONTROL SAMPLE: 462268

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Components	mg/kg	66.7	51.0	76	50-150	
o-Terphenyl (S)	%			73	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 462329 462330

Parameter	Units	3072834001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Diesel Components	mg/kg	68.2	74.2	75.8	84.6	106	22	50	50-150	22	3c
o-Terphenyl (S)	%						47	63	50-150		R1,S0

QUALITY CONTROL DATA

Project: 455-055
Pace Project No.: 3072644

QC Batch:	OEXT/12008	Analysis Method:	EPA 8082
QC Batch Method:	EPA 3546	Analysis Description:	8082 GCS PCB
Associated Lab Samples:	3072644001		

METHOD BLANK: 461720 Matrix: Solid
Associated Lab Samples: 3072644001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	16.7	07/09/12 14:22	
PCB-1221 (Aroclor 1221)	ug/kg	ND	16.7	07/09/12 14:22	
PCB-1232 (Aroclor 1232)	ug/kg	ND	16.7	07/09/12 14:22	
PCB-1242 (Aroclor 1242)	ug/kg	ND	16.7	07/09/12 14:22	
PCB-1248 (Aroclor 1248)	ug/kg	ND	16.7	07/09/12 14:22	
PCB-1254 (Aroclor 1254)	ug/kg	ND	16.7	07/09/12 14:22	
PCB-1260 (Aroclor 1260)	ug/kg	ND	16.7	07/09/12 14:22	
Decachlorobiphenyl (S)	%	66	30-150	07/09/12 14:22	
Tetrachloro-m-xylene (S)	%	64	30-150	07/09/12 14:22	

LABORATORY CONTROL SAMPLE: 461721

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	167	101	61	55-145	1c
PCB-1260 (Aroclor 1260)	ug/kg	167	106	63	55-145	1c
Decachlorobiphenyl (S)	%			49	30-150	
Tetrachloro-m-xylene (S)	%			56	30-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 461722 461723

Parameter	Units	3072712001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	2.7U	182	184	104	112	57	61	55-145	7	
PCB-1260 (Aroclor 1260)	ug/kg	2.8U	182	184	95.0	105	52	57	55-145	10	M3
Decachlorobiphenyl (S)	%						44	47	30-150		
Tetrachloro-m-xylene (S)	%						52	52	30-150		

QUALITY CONTROL DATA

Project: 455-055

Pace Project No.: 3072644

QC Batch: OEXT/11997

Analysis Method: EPA 8270

QC Batch Method: EPA 3546

Analysis Description: 8270 Solid MSSV Microwave

Associated Lab Samples: 3072644001

METHOD BLANK: 461365

Matrix: Solid

Associated Lab Samples: 3072644001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	333	07/10/12 20:09	
1,2-Dichlorobenzene	ug/kg	ND	333	07/10/12 20:09	
1,3-Dichlorobenzene	ug/kg	ND	333	07/10/12 20:09	
1,4-Dichlorobenzene	ug/kg	ND	333	07/10/12 20:09	
2,4,5-Trichlorophenol	ug/kg	ND	833	07/10/12 20:09	
2,4,6-Trichlorophenol	ug/kg	ND	333	07/10/12 20:09	
2,4-Dichlorophenol	ug/kg	ND	333	07/10/12 20:09	
2,4-Dimethylphenol	ug/kg	ND	333	07/10/12 20:09	
2,4-Dinitrophenol	ug/kg	ND	833	07/10/12 20:09	
2,4-Dinitrotoluene	ug/kg	ND	333	07/10/12 20:09	
2,6-Dinitrotoluene	ug/kg	ND	333	07/10/12 20:09	
2-Chloronaphthalene	ug/kg	ND	333	07/10/12 20:09	
2-Chlorophenol	ug/kg	ND	333	07/10/12 20:09	
2-Methylnaphthalene	ug/kg	ND	333	07/10/12 20:09	
2-Methylphenol(o-Cresol)	ug/kg	ND	333	07/10/12 20:09	
2-Nitroaniline	ug/kg	ND	833	07/10/12 20:09	
2-Nitrophenol	ug/kg	ND	333	07/10/12 20:09	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	666	07/10/12 20:09	
3,3'-Dichlorobenzidine	ug/kg	ND	333	07/10/12 20:09	
3-Nitroaniline	ug/kg	ND	833	07/10/12 20:09	
4,6-Dinitro-2-methylphenol	ug/kg	ND	833	07/10/12 20:09	
4-Bromophenylphenyl ether	ug/kg	ND	333	07/10/12 20:09	
4-Chloro-3-methylphenol	ug/kg	ND	333	07/10/12 20:09	
4-Chloroaniline	ug/kg	ND	333	07/10/12 20:09	
4-Chlorophenylphenyl ether	ug/kg	ND	333	07/10/12 20:09	
4-Nitroaniline	ug/kg	ND	833	07/10/12 20:09	
4-Nitrophenol	ug/kg	ND	333	07/10/12 20:09	
Acenaphthene	ug/kg	ND	333	07/10/12 20:09	
Acenaphthylene	ug/kg	ND	333	07/10/12 20:09	
Anthracene	ug/kg	ND	333	07/10/12 20:09	
Benzo(a)anthracene	ug/kg	ND	333	07/10/12 20:09	
Benzo(a)pyrene	ug/kg	ND	333	07/10/12 20:09	
Benzo(b)fluoranthene	ug/kg	ND	333	07/10/12 20:09	
Benzo(g,h,i)perylene	ug/kg	ND	333	07/10/12 20:09	
Benzo(k)fluoranthene	ug/kg	ND	333	07/10/12 20:09	
Benzyl alcohol	ug/kg	ND	333	07/10/12 20:09	
bis(2-Chloroethoxy)methane	ug/kg	ND	333	07/10/12 20:09	
bis(2-Chloroethyl) ether	ug/kg	ND	333	07/10/12 20:09	
bis(2-Chloroisopropyl) ether	ug/kg	ND	333	07/10/12 20:09	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	333	07/10/12 20:09	
Butylbenzylphthalate	ug/kg	ND	333	07/10/12 20:09	
Chrysene	ug/kg	ND	333	07/10/12 20:09	
Di-n-butylphthalate	ug/kg	ND	333	07/10/12 20:09	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 455-055
Pace Project No.: 3072644

METHOD BLANK: 461365

Matrix: Solid

Associated Lab Samples: 3072644001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Di-n-octylphthalate	ug/kg	ND	333	07/10/12 20:09	
Dibenz(a,h)anthracene	ug/kg	ND	333	07/10/12 20:09	
Dibenzofuran	ug/kg	ND	333	07/10/12 20:09	
Diethylphthalate	ug/kg	ND	333	07/10/12 20:09	
Dimethylphthalate	ug/kg	ND	333	07/10/12 20:09	
Fluoranthene	ug/kg	ND	333	07/10/12 20:09	
Fluorene	ug/kg	ND	333	07/10/12 20:09	
Hexachloro-1,3-butadiene	ug/kg	ND	333	07/10/12 20:09	
Hexachlorobenzene	ug/kg	ND	333	07/10/12 20:09	
Hexachlorocyclopentadiene	ug/kg	ND	333	07/10/12 20:09	
Hexachloroethane	ug/kg	ND	333	07/10/12 20:09	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	333	07/10/12 20:09	
Isophorone	ug/kg	ND	333	07/10/12 20:09	
N-Nitroso-di-n-propylamine	ug/kg	ND	333	07/10/12 20:09	
N-Nitrosodiphenylamine	ug/kg	ND	333	07/10/12 20:09	
Naphthalene	ug/kg	ND	333	07/10/12 20:09	
Nitrobenzene	ug/kg	ND	333	07/10/12 20:09	
Pentachlorophenol	ug/kg	ND	833	07/10/12 20:09	
Phenanthrene	ug/kg	ND	333	07/10/12 20:09	
Phenol	ug/kg	ND	333	07/10/12 20:09	
Pyrene	ug/kg	ND	333	07/10/12 20:09	
2,4,6-Tribromophenol (S)	%	144	10-144	07/10/12 20:09	
2-Fluorobiphenyl (S)	%	174	48-125	07/10/12 20:09	S3
2-Fluorophenol (S)	%	161	25-138	07/10/12 20:09	S3
Nitrobenzene-d5 (S)	%	183	49-118	07/10/12 20:09	S3
Phenol-d6 (S)	%	135	30-130	07/10/12 20:09	S3
Terphenyl-d14 (S)	%	223	29-159	07/10/12 20:09	S3

LABORATORY CONTROL SAMPLE: 461366

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	3330	2790	84	50-115	
1,4-Dichlorobenzene	ug/kg	3330	2600	78	47-105	
2,4-Dinitrotoluene	ug/kg	3330	2510	75	45-115	
2-Chlorophenol	ug/kg	3330	2610	78	51-113	
2-Methylnaphthalene	ug/kg	3330	2720	82	46-112	
4-Chloro-3-methylphenol	ug/kg	3330	2210	66	47-129	
4-Nitrophenol	ug/kg	3330	2320	70	26-117	
Acenaphthene	ug/kg	3330	2930	88	52-114	
Acenaphthylene	ug/kg	3330	2830	85	55-120	
Anthracene	ug/kg	3330	2880	86	57-121	
Benzo(a)anthracene	ug/kg	3330	3060	92	55-126	
Benzo(a)pyrene	ug/kg	3330	3230	97	57-124	
Benzo(b)fluoranthene	ug/kg	3330	2980	89	53-128	
Benzo(g,h,i)perylene	ug/kg	3330	2790	84	25-159	

QUALITY CONTROL DATA

Project: 455-055
Pace Project No.: 3072644

LABORATORY CONTROL SAMPLE: 461366

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzo(k)fluoranthene	ug/kg	3330	3880	116	52-139	
Chrysene	ug/kg	3330	3350	100	42-150	
Dibenz(a,h)anthracene	ug/kg	3330	2650	79	32-155	
Fluoranthene	ug/kg	3330	2410	72	51-125	
Fluorene	ug/kg	3330	2840	85	52-117	
Indeno(1,2,3-cd)pyrene	ug/kg	3330	2780	83	32-150	
N-Nitroso-di-n-propylamine	ug/kg	3330	2780	83	52-126	
Naphthalene	ug/kg	3330	2780	83	51-109	
Pentachlorophenol	ug/kg	3330	2730	82	20-122	
Phenanthrene	ug/kg	3330	2980	89	54-119	
Phenol	ug/kg	3330	2350	70	43-112	
Pyrene	ug/kg	3330	4100	123	38-144	
2,4,6-Tribromophenol (S)	%			90	10-144	
2-Fluorobiphenyl (S)	%			91	48-125	
2-Fluorophenol (S)	%			78	25-138	
Nitrobenzene-d5 (S)	%			80	49-118	
Phenol-d6 (S)	%			81	30-130	
Terphenyl-d14 (S)	%			124	29-159	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 461461 461462

Parameter	Units	3072713001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2,4-Trichlorobenzene	ug/kg	54.4U	3500	3480	2970	2460	85	71	50-115	19	
1,4-Dichlorobenzene	ug/kg	50.0U	3500	3480	2900	2300	83	66	47-105	23	R1
2,4-Dinitrotoluene	ug/kg	74.3U	3500	3480	2760	2010	79	58	45-115	32	R1
2-Chlorophenol	ug/kg	45.3U	3500	3480	2880	2290	82	66	51-113	23	R1
2-Methylnaphthalene	ug/kg	42.8U	3500	3480	3040	2240	87	64	46-112	30	
4-Chloro-3-methylphenol	ug/kg	56.3U	3500	3480	2390	1970	68	57	47-129	19	
4-Nitrophenol	ug/kg	60.5U	3500	3480	2470	1550	71	44	26-117	46	
Acenaphthene	ug/kg	41.3U	3500	3480	3140	2340	90	67	52-114	29	R1
Acenaphthylene	ug/kg	40.8U	3500	3480	2980	2340	85	67	55-120	24	
Anthracene	ug/kg	55.5U	3500	3480	3170	2360	91	68	57-121	29	
Benzo(a)anthracene	ug/kg	41.0U	3500	3480	3290	2270	94	65	55-126	37	
Benzo(a)pyrene	ug/kg	119U	3500	3480	3520	3680	101	106	57-124	5	
Benzo(b)fluoranthene	ug/kg	70.0U	3500	3480	3410	3510	98	101	53-128	3	
Benzo(g,h,i)perylene	ug/kg	102U	3500	3480	3190	2190	91	63	25-159	37	
Chrysene	ug/kg	76.4U	3500	3480	3640	2540	104	73	42-150	35	
Dibenz(a,h)anthracene	ug/kg	119U	3500	3480	3030	2250	87	65	32-155	30	
Fluoranthene	ug/kg	54.2U	3500	3480	2750	2020	79	58	51-125	31	
Fluorene	ug/kg	50.0U	3500	3480	3090	2410	88	69	52-117	25	
Indeno(1,2,3-cd)pyrene	ug/kg	86.6U	3500	3480	3180	2170	91	62	32-150	38	
N-Nitroso-di-n-propylamine	ug/kg	42.0U	3500	3480	3120	2190	89	63	52-126	35	R1
Naphthalene	ug/kg	47.3U	3500	3480	3180	2410	91	69	51-109	28	
Pentachlorophenol	ug/kg	88.8U	3500	3480	2620	1390	75	40	20-122	61	R1
Phenanthrene	ug/kg	65.5U	3500	3480	3350	2420	96	70	54-119	32	
Phenol	ug/kg	86.2U	3500	3480	2620	1740	75	50	43-112	41	R1

Date: 07/12/2012 03:41 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 455-055

Pace Project No.: 3072644

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:											
			461461			461462					
Parameter	Units	3072713001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Pyrene	ug/kg	54.0U	3500	3480	4000	2950	114	85	38-144	30	R1
2,4,6-Tribromophenol (S)	%						90	64	10-144		
2-Fluorobiphenyl (S)	%						92	74	48-125		
2-Fluorophenol (S)	%						82	68	25-138		
Nitrobenzene-d5 (S)	%						85	67	49-118		
Phenol-d6 (S)	%						85	67	30-130		
Terphenyl-d14 (S)	%						114	82	29-159		

QUALITY CONTROL DATA

Project: 455-055

Pace Project No.: 3072644

QC Batch: PMST/3249

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 3072644001

SAMPLE DUPLICATE: 462538

Parameter	Units	3072319001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	11.6	12.7	9	

SAMPLE DUPLICATE: 462539

Parameter	Units	3072319008 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	10.2	11.3	10	

QUALIFIERS

Project: 455-055
Pace Project No.: 3072644

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

1c	Result reported from rear column due to low response in closing calibration standard on front column.
2c	The majority of the area quantitated as DRO for this sample is due to unresolved material eluting beyond C 20.
3c	The matrix spike is low due to matrix interferences. The batch is accepted based upon the LCS and MSD recoveries.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.
S5	Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 455-055

Pace Project No.: 3072644

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3072644001	CatchBasin 070212	EPA 3546	OEXT/12014	EPA 8015B Modified	GCSV/4619
3072644001	CatchBasin 070212	EPA 3546	OEXT/12008	EPA 8082	GCSV/4614
3072644001	CatchBasin 070212	EPA 5035A/5030B	GCV/1753	EPA 8015B Modified	GCV/1754
3072644001	CatchBasin 070212	EPA 3546	OEXT/11997	EPA 8270	MSSV/4098
3072644001	CatchBasin 070212	EPA 8260	MSV/13227		
3072644001	CatchBasin 070212	ASTM D2974-87	PMST/3249		

July 23, 2012

Mr. Scott Petersen
WSP Environment & Energy
5 Sullivan Street
Cazenovia, NY 13035

RE: Project: EPT Ithaca, NY
Pace Project No.: 3072940

Dear Mr. Petersen:

Enclosed are the analytical results for sample(s) received by the laboratory on July 07, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



David A. Pichette for
Penny Westrick
penny.westrick@pacelabs.com
Project Manager

Enclosures

cc: Mr. Erik Reinert, WSP Environment & Energy



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: EPT Ithaca, NY

Pace Project No.: 3072940

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601

ACCLASS DOD-ELAP Accreditation #: ADE-1544

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California/TNI Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH 0694

Delaware Certification

Florida/TNI Certification #: E87683

Guam/PADEP Certification

Hawaii/PADEP Certification

Idaho Certification

Illinois/PADEP Certification

Indiana/PADEP Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana/TNI Certification #: LA080002

Louisiana/TNI Certification #: 4086

Maine Certification #: PA0091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nevada Certification

New Hampshire/TNI Certification #: 2976

New Jersey/TNI Certification #: PA 051

New Mexico Certification

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188

Utah/TNI Certification #: ANTE

Virgin Island/PADEP Certification

Virginia Certification #: 00112

Virginia VELAP (Cert # 460198)

Washington Certification #: C868

West Virginia Certification #: 143

Wisconsin/PADEP Certification

Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: EPT Ithaca, NY

Pace Project No.: 3072940

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3072940001	SB-070512-1-(0-2)	EPA 8260	JEW	52	PASI-PA
		ASTM D2974-87	AJC	1	PASI-PA
3072940002	SB-070512-2-(0-3)	EPA 8260	JEW	52	PASI-PA
		ASTM D2974-87	AJC	1	PASI-PA
3072940003	SB-070512-3-(4-6)	EPA 8260	JEW	52	PASI-PA
		ASTM D2974-87	AJC	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: EPT Ithaca, NY

Pace Project No.: 3072940

Method: EPA 8260

Description: 8260 MSV 5030 Low Level

Client: WSP Environment & Energy - Cazenovia, NY

Date: July 23, 2012

General Information:

3 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/13327

LO: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 466137)
 - Acetone
 - Bromomethane

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/13327

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3072940

Sample: SB-070512-1-(0-2) Lab ID: 3072940001 Collected: 07/05/12 11:40 Received: 07/07/12 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	9.5	1		07/18/12 14:35	67-64-1	
Benzene	ND	ug/kg	4.8	1		07/18/12 14:35	71-43-2	
Bromodichloromethane	ND	ug/kg	4.8	1		07/18/12 14:35	75-27-4	
Bromoform	ND	ug/kg	4.8	1		07/18/12 14:35	75-25-2	
Bromomethane	ND	ug/kg	4.8	1		07/18/12 14:35	74-83-9	
2-Butanone (MEK)	ND	ug/kg	9.5	1		07/18/12 14:35	78-93-3	
Carbon disulfide	ND	ug/kg	4.8	1		07/18/12 14:35	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.8	1		07/18/12 14:35	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	1		07/18/12 14:35	108-90-7	
Chloroethane	ND	ug/kg	4.8	1		07/18/12 14:35	75-00-3	
Chloroform	ND	ug/kg	4.8	1		07/18/12 14:35	67-66-3	
Chloromethane	ND	ug/kg	4.8	1		07/18/12 14:35	74-87-3	
Cyclohexane	ND	ug/kg	9.5	1		07/18/12 14:35	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.8	1		07/18/12 14:35	96-12-8	
Dibromochloromethane	ND	ug/kg	4.8	1		07/18/12 14:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.8	1		07/18/12 14:35	106-93-4	
1,2-Dichlorobenzene	ND	ug/kg	4.8	1		07/18/12 14:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.8	1		07/18/12 14:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.8	1		07/18/12 14:35	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	4.8	1		07/18/12 14:35	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.8	1		07/18/12 14:35	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	1		07/18/12 14:35	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.8	1		07/18/12 14:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.8	1		07/18/12 14:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1		07/18/12 14:35	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	1		07/18/12 14:35	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	1		07/18/12 14:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1		07/18/12 14:35	10061-02-6	
Ethylbenzene	ND	ug/kg	4.8	1		07/18/12 14:35	100-41-4	
2-Hexanone	ND	ug/kg	9.5	1		07/18/12 14:35	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.8	1		07/18/12 14:35	98-82-8	
Methyl acetate	ND	ug/kg	47.6	1		07/18/12 14:35	79-20-9	
Methylcyclohexane	ND	ug/kg	9.5	1		07/18/12 14:35	108-87-2	
Methylene Chloride	ND	ug/kg	4.8	1		07/18/12 14:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.5	1		07/18/12 14:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.8	1		07/18/12 14:35	1634-04-4	
Naphthalene	ND	ug/kg	4.8	1		07/18/12 14:35	91-20-3	
Styrene	ND	ug/kg	4.8	1		07/18/12 14:35	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.8	1		07/18/12 14:35	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	1		07/18/12 14:35	127-18-4	
Toluene	ND	ug/kg	4.8	1		07/18/12 14:35	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1		07/18/12 14:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.8	1		07/18/12 14:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	1		07/18/12 14:35	79-00-5	
Trichloroethene	ND	ug/kg	4.8	1		07/18/12 14:35	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.8	1		07/18/12 14:35	75-69-4	

Date: 07/23/2012 10:58 AM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3072940

Sample: SB-070512-1-(0-2) **Lab ID:** 3072940001 Collected: 07/05/12 11:40 Received: 07/07/12 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	47.6	1		07/18/12 14:35	76-13-1	
Vinyl chloride	ND	ug/kg	4.8	1		07/18/12 14:35	75-01-4	
Xylene (Total)	ND	ug/kg	14.3	1		07/18/12 14:35	1330-20-7	
Surrogates								
Toluene-d8 (S)	92	%	70-130	1		07/18/12 14:35	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-130	1		07/18/12 14:35	460-00-4	
1,2-Dichloroethane-d4 (S)	87	%	70-130	1		07/18/12 14:35	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	8.1	%	0.10	1		07/19/12 17:18		

ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3072940

Sample: SB-070512-2-(0-3) Lab ID: 3072940002 Collected: 07/05/12 15:15 Received: 07/07/12 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	8.1	1		07/18/12 15:00	67-64-1	
Benzene	ND	ug/kg	4.1	1		07/18/12 15:00	71-43-2	
Bromodichloromethane	ND	ug/kg	4.1	1		07/18/12 15:00	75-27-4	
Bromoform	ND	ug/kg	4.1	1		07/18/12 15:00	75-25-2	
Bromomethane	ND	ug/kg	4.1	1		07/18/12 15:00	74-83-9	
2-Butanone (MEK)	ND	ug/kg	8.1	1		07/18/12 15:00	78-93-3	
Carbon disulfide	ND	ug/kg	4.1	1		07/18/12 15:00	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.1	1		07/18/12 15:00	56-23-5	
Chlorobenzene	ND	ug/kg	4.1	1		07/18/12 15:00	108-90-7	
Chloroethane	ND	ug/kg	4.1	1		07/18/12 15:00	75-00-3	
Chloroform	ND	ug/kg	4.1	1		07/18/12 15:00	67-66-3	
Chloromethane	ND	ug/kg	4.1	1		07/18/12 15:00	74-87-3	
Cyclohexane	ND	ug/kg	8.1	1		07/18/12 15:00	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.1	1		07/18/12 15:00	96-12-8	
Dibromochloromethane	ND	ug/kg	4.1	1		07/18/12 15:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.1	1		07/18/12 15:00	106-93-4	
1,2-Dichlorobenzene	ND	ug/kg	4.1	1		07/18/12 15:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.1	1		07/18/12 15:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.1	1		07/18/12 15:00	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	4.1	1		07/18/12 15:00	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.1	1		07/18/12 15:00	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.1	1		07/18/12 15:00	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.1	1		07/18/12 15:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.1	1		07/18/12 15:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.1	1		07/18/12 15:00	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.1	1		07/18/12 15:00	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.1	1		07/18/12 15:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.1	1		07/18/12 15:00	10061-02-6	
Ethylbenzene	ND	ug/kg	4.1	1		07/18/12 15:00	100-41-4	
2-Hexanone	ND	ug/kg	8.1	1		07/18/12 15:00	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.1	1		07/18/12 15:00	98-82-8	
Methyl acetate	ND	ug/kg	40.7	1		07/18/12 15:00	79-20-9	
Methylcyclohexane	ND	ug/kg	8.1	1		07/18/12 15:00	108-87-2	
Methylene Chloride	ND	ug/kg	4.1	1		07/18/12 15:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	8.1	1		07/18/12 15:00	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.1	1		07/18/12 15:00	1634-04-4	
Naphthalene	ND	ug/kg	4.1	1		07/18/12 15:00	91-20-3	
Styrene	ND	ug/kg	4.1	1		07/18/12 15:00	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.1	1		07/18/12 15:00	79-34-5	
Tetrachloroethene	ND	ug/kg	4.1	1		07/18/12 15:00	127-18-4	
Toluene	ND	ug/kg	4.1	1		07/18/12 15:00	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	4.1	1		07/18/12 15:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.1	1		07/18/12 15:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.1	1		07/18/12 15:00	79-00-5	
Trichloroethene	ND	ug/kg	4.1	1		07/18/12 15:00	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.1	1		07/18/12 15:00	75-69-4	

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3072940

Sample: SB-070512-2-(0-3) **Lab ID:** 3072940002 Collected: 07/05/12 15:15 Received: 07/07/12 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	40.7	1		07/18/12 15:00	76-13-1	
Vinyl chloride	ND	ug/kg	4.1	1		07/18/12 15:00	75-01-4	
Xylene (Total)	ND	ug/kg	12.2	1		07/18/12 15:00	1330-20-7	
Surrogates								
Toluene-d8 (S)	95	%	70-130	1		07/18/12 15:00	2037-26-5	
4-Bromofluorobenzene (S)	106	%	70-130	1		07/18/12 15:00	460-00-4	
1,2-Dichloroethane-d4 (S)	87	%	70-130	1		07/18/12 15:00	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	7.3	%	0.10	1		07/19/12 17:19		

ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3072940

Sample: SB-070512-3-(4-6) **Lab ID: 3072940003** Collected: 07/05/12 16:15 Received: 07/07/12 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	15.9	1		07/18/12 15:24	67-64-1	
Benzene	ND	ug/kg	7.9	1		07/18/12 15:24	71-43-2	
Bromodichloromethane	ND	ug/kg	7.9	1		07/18/12 15:24	75-27-4	
Bromoform	ND	ug/kg	7.9	1		07/18/12 15:24	75-25-2	
Bromomethane	ND	ug/kg	7.9	1		07/18/12 15:24	74-83-9	
2-Butanone (MEK)	ND	ug/kg	15.9	1		07/18/12 15:24	78-93-3	
Carbon disulfide	ND	ug/kg	7.9	1		07/18/12 15:24	75-15-0	
Carbon tetrachloride	ND	ug/kg	7.9	1		07/18/12 15:24	56-23-5	
Chlorobenzene	ND	ug/kg	7.9	1		07/18/12 15:24	108-90-7	
Chloroethane	ND	ug/kg	7.9	1		07/18/12 15:24	75-00-3	
Chloroform	ND	ug/kg	7.9	1		07/18/12 15:24	67-66-3	
Chloromethane	ND	ug/kg	7.9	1		07/18/12 15:24	74-87-3	
Cyclohexane	ND	ug/kg	15.9	1		07/18/12 15:24	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/kg	7.9	1		07/18/12 15:24	96-12-8	
Dibromochloromethane	ND	ug/kg	7.9	1		07/18/12 15:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	7.9	1		07/18/12 15:24	106-93-4	
1,2-Dichlorobenzene	ND	ug/kg	7.9	1		07/18/12 15:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	7.9	1		07/18/12 15:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	7.9	1		07/18/12 15:24	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	7.9	1		07/18/12 15:24	75-71-8	
1,1-Dichloroethane	ND	ug/kg	7.9	1		07/18/12 15:24	75-34-3	
1,2-Dichloroethane	ND	ug/kg	7.9	1		07/18/12 15:24	107-06-2	
1,1-Dichloroethene	ND	ug/kg	7.9	1		07/18/12 15:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	7.9	1		07/18/12 15:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	7.9	1		07/18/12 15:24	156-60-5	
1,2-Dichloropropane	ND	ug/kg	7.9	1		07/18/12 15:24	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	7.9	1		07/18/12 15:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	7.9	1		07/18/12 15:24	10061-02-6	
Ethylbenzene	ND	ug/kg	7.9	1		07/18/12 15:24	100-41-4	
2-Hexanone	ND	ug/kg	15.9	1		07/18/12 15:24	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	7.9	1		07/18/12 15:24	98-82-8	
Methyl acetate	ND	ug/kg	79.3	1		07/18/12 15:24	79-20-9	
Methylcyclohexane	ND	ug/kg	15.9	1		07/18/12 15:24	108-87-2	
Methylene Chloride	ND	ug/kg	7.9	1		07/18/12 15:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	15.9	1		07/18/12 15:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	7.9	1		07/18/12 15:24	1634-04-4	
Naphthalene	ND	ug/kg	7.9	1		07/18/12 15:24	91-20-3	
Styrene	ND	ug/kg	7.9	1		07/18/12 15:24	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	7.9	1		07/18/12 15:24	79-34-5	
Tetrachloroethene	ND	ug/kg	7.9	1		07/18/12 15:24	127-18-4	
Toluene	ND	ug/kg	7.9	1		07/18/12 15:24	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	7.9	1		07/18/12 15:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	7.9	1		07/18/12 15:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	7.9	1		07/18/12 15:24	79-00-5	
Trichloroethene	ND	ug/kg	7.9	1		07/18/12 15:24	79-01-6	
Trichlorofluoromethane	ND	ug/kg	7.9	1		07/18/12 15:24	75-69-4	

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3072940

Sample: SB-070512-3-(4-6) **Lab ID: 3072940003** Collected: 07/05/12 16:15 Received: 07/07/12 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	79.3	1		07/18/12 15:24	76-13-1	
Vinyl chloride	ND	ug/kg	7.9	1		07/18/12 15:24	75-01-4	
Xylene (Total)	ND	ug/kg	23.8	1		07/18/12 15:24	1330-20-7	
Surrogates								
Toluene-d8 (S)	93	%	70-130	1		07/18/12 15:24	2037-26-5	
4-Bromofluorobenzene (S)	105	%	70-130	1		07/18/12 15:24	460-00-4	
1,2-Dichloroethane-d4 (S)	83	%	70-130	1		07/18/12 15:24	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	11.2	%	0.10	1		07/19/12 17:19		

QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3072940

QC Batch: MSV/13327

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV 5035 Low

Associated Lab Samples: 3072940001, 3072940002, 3072940003

METHOD BLANK: 466136

Matrix: Solid

Associated Lab Samples: 3072940001, 3072940002, 3072940003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	5.0	07/18/12 11:21	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	07/18/12 11:21	
1,1,2-Trichloroethane	ug/kg	ND	5.0	07/18/12 11:21	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	50.0	07/18/12 11:21	
1,1-Dichloroethane	ug/kg	ND	5.0	07/18/12 11:21	
1,1-Dichloroethene	ug/kg	ND	5.0	07/18/12 11:21	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	07/18/12 11:21	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	07/18/12 11:21	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	07/18/12 11:21	
1,2-Dichlorobenzene	ug/kg	ND	5.0	07/18/12 11:21	
1,2-Dichloroethane	ug/kg	ND	5.0	07/18/12 11:21	
1,2-Dichloropropane	ug/kg	ND	5.0	07/18/12 11:21	
1,3-Dichlorobenzene	ug/kg	ND	5.0	07/18/12 11:21	
1,4-Dichlorobenzene	ug/kg	ND	5.0	07/18/12 11:21	
2-Butanone (MEK)	ug/kg	ND	10.0	07/18/12 11:21	
2-Hexanone	ug/kg	ND	10.0	07/18/12 11:21	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	07/18/12 11:21	
Acetone	ug/kg	ND	10.0	07/18/12 11:21	
Benzene	ug/kg	ND	5.0	07/18/12 11:21	
Bromodichloromethane	ug/kg	ND	5.0	07/18/12 11:21	
Bromoform	ug/kg	ND	5.0	07/18/12 11:21	
Bromomethane	ug/kg	ND	5.0	07/18/12 11:21	
Carbon disulfide	ug/kg	ND	5.0	07/18/12 11:21	
Carbon tetrachloride	ug/kg	ND	5.0	07/18/12 11:21	
Chlorobenzene	ug/kg	ND	5.0	07/18/12 11:21	
Chloroethane	ug/kg	ND	5.0	07/18/12 11:21	
Chloroform	ug/kg	ND	5.0	07/18/12 11:21	
Chloromethane	ug/kg	ND	5.0	07/18/12 11:21	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	07/18/12 11:21	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	07/18/12 11:21	
Cyclohexane	ug/kg	ND	10.0	07/18/12 11:21	
Dibromochloromethane	ug/kg	ND	5.0	07/18/12 11:21	
Dichlorodifluoromethane	ug/kg	ND	5.0	07/18/12 11:21	
Ethylbenzene	ug/kg	ND	5.0	07/18/12 11:21	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	07/18/12 11:21	
Methyl acetate	ug/kg	ND	50.0	07/18/12 11:21	
Methyl-tert-butyl ether	ug/kg	ND	5.0	07/18/12 11:21	
Methylcyclohexane	ug/kg	ND	10.0	07/18/12 11:21	
Methylene Chloride	ug/kg	ND	5.0	07/18/12 11:21	
Naphthalene	ug/kg	ND	5.0	07/18/12 11:21	
Styrene	ug/kg	ND	5.0	07/18/12 11:21	
Tetrachloroethene	ug/kg	ND	5.0	07/18/12 11:21	
Toluene	ug/kg	ND	5.0	07/18/12 11:21	

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QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3072940

METHOD BLANK: 466136

Matrix: Solid

Associated Lab Samples: 3072940001, 3072940002, 3072940003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/kg	ND	5.0	07/18/12 11:21	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	07/18/12 11:21	
Trichloroethene	ug/kg	ND	5.0	07/18/12 11:21	
Trichlorofluoromethane	ug/kg	ND	5.0	07/18/12 11:21	
Vinyl chloride	ug/kg	ND	5.0	07/18/12 11:21	
Xylene (Total)	ug/kg	ND	15.0	07/18/12 11:21	
1,2-Dichloroethane-d4 (S)	%	88	70-130	07/18/12 11:21	
4-Bromofluorobenzene (S)	%	99	70-130	07/18/12 11:21	
Toluene-d8 (S)	%	94	70-130	07/18/12 11:21	

LABORATORY CONTROL SAMPLE: 466137

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	20	15.6	78	55-141	
1,1,2,2-Tetrachloroethane	ug/kg	20	14.7	73	58-124	
1,1,2-Trichloroethane	ug/kg	20	15.4	77	70-118	
1,1,2-Trichlorotrifluoroethane	ug/kg	20	18.7J	94	38-196	
1,1-Dichloroethane	ug/kg	20	16.6	83	64-127	
1,1-Dichloroethene	ug/kg	20	16.0	80	50-133	
1,2,4-Trichlorobenzene	ug/kg	20	17.9	90	70-119	
1,2-Dibromo-3-chloropropane	ug/kg	20	14.6	73	54-120	
1,2-Dibromoethane (EDB)	ug/kg	20	15.6	78	67-117	
1,2-Dichlorobenzene	ug/kg	20	16.9	84	67-122	
1,2-Dichloroethane	ug/kg	20	14.2	71	54-132	
1,2-Dichloropropane	ug/kg	20	17.3	87	68-112	
1,3-Dichlorobenzene	ug/kg	20	16.6	83	65-127	
1,4-Dichlorobenzene	ug/kg	20	16.4	82	66-127	
2-Butanone (MEK)	ug/kg	20	19.5	98	54-135	
2-Hexanone	ug/kg	20	18.9	94	58-148	
4-Methyl-2-pentanone (MIBK)	ug/kg	20	16.6	83	55-142	
Acetone	ug/kg	20	5.4J	27	39-200	L0
Benzene	ug/kg	20	18.3	91	65-130	
Bromodichloromethane	ug/kg	20	14.8	74	57-125	
Bromoform	ug/kg	20	15.5	77	53-121	
Bromomethane	ug/kg	20	5.5	28	30-167	L0
Carbon disulfide	ug/kg	20	18.5	92	49-150	
Carbon tetrachloride	ug/kg	20	16.9	85	47-146	
Chlorobenzene	ug/kg	20	15.4	77	67-124	
Chloroethane	ug/kg	20	16.8	84	34-170	
Chloroform	ug/kg	20	15.4	77	63-128	
Chloromethane	ug/kg	20	16.6	83	39-159	
cis-1,2-Dichloroethene	ug/kg	20	15.6	78	64-126	
cis-1,3-Dichloropropene	ug/kg	20	17.1	85	66-124	
Cyclohexane	ug/kg	20	18.9	95	37-186	
Dibromochloromethane	ug/kg	20	13.9	70	56-122	

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QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3072940

LABORATORY CONTROL SAMPLE: 466137

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dichlorodifluoromethane	ug/kg	20	22.9	114	10-189	
Ethylbenzene	ug/kg	20	17.0	85	65-131	
Isopropylbenzene (Cumene)	ug/kg	20	18.2	91	64-137	
Methyl acetate	ug/kg	20	13.9J	69	10-200	
Methyl-tert-butyl ether	ug/kg	20	14.6	73	71-130	
Methylcyclohexane	ug/kg	20	20.6	103	61-159	
Methylene Chloride	ug/kg	20	12.8	64	45-136	
Naphthalene	ug/kg	20	16.7	83	70-123	
Styrene	ug/kg	20	16.3	81	64-122	
Tetrachloroethene	ug/kg	20	17.2	86	61-138	
Toluene	ug/kg	20	18.0	90	63-132	
trans-1,2-Dichloroethene	ug/kg	20	15.4	77	60-130	
trans-1,3-Dichloropropene	ug/kg	20	14.2	71	58-116	
Trichloroethene	ug/kg	20	16.5	83	65-131	
Trichlorofluoromethane	ug/kg	20	18.4	92	49-148	
Vinyl chloride	ug/kg	20	18.4	92	49-149	
Xylene (Total)	ug/kg	60	51.3	86	65-134	
1,2-Dichloroethane-d4 (S)	%			90	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			97	70-130	

QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3072940

QC Batch:	PMST/3279	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	3072940001, 3072940002, 3072940003		

SAMPLE DUPLICATE: 466427

Parameter	Units	3072003001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	2.3	2.2	4	

SAMPLE DUPLICATE: 466428

Parameter	Units	3072003002 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	9.9	11.2	12	

QUALIFIERS

Project: EPT Ithaca, NY

Pace Project No.: 3072940

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

BATCH QUALIFIERS

Batch: MSV/13327

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: EPT Ithaca, NY

Pace Project No.: 3072940

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3072940001	SB-070512-1-(0-2)	EPA 8260	MSV/13327		
3072940002	SB-070512-2-(0-3)	EPA 8260	MSV/13327		
3072940003	SB-070512-3-(4-6)	EPA 8260	MSV/13327		
3072940001	SB-070512-1-(0-2)	ASTM D2974-87	PMST/3279		
3072940002	SB-070512-2-(0-3)	ASTM D2974-87	PMST/3279		
3072940003	SB-070512-3-(4-6)	ASTM D2974-87	PMST/3279		

July 24, 2012

Mr. Scott Petersen
WSP Environment & Energy
5 Sullivan Street
Cazenovia, NY 13035

RE: Project: EPT Ithaca, NY
Pace Project No.: 3073628

Dear Mr. Petersen:

Enclosed are the analytical results for sample(s) received by the laboratory on July 19, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



David A. Pichette for
Penny Westrick
penny.westrick@pacelabs.com
Project Manager

Enclosures

cc: Mr. Erik Reinert, WSP Environment & Energy



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: EPT Ithaca, NY

Pace Project No.: 3073628

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601

ACCLASS DOD-ELAP Accreditation #: ADE-1544

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California/TNI Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH 0694

Delaware Certification

Florida/TNI Certification #: E87683

Guam/PADEP Certification

Hawaii/PADEP Certification

Idaho Certification

Illinois/PADEP Certification

Indiana/PADEP Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana/TNI Certification #: LA080002

Louisiana/TNI Certification #: 4086

Maine Certification #: PA0091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nevada Certification

New Hampshire/TNI Certification #: 2976

New Jersey/TNI Certification #: PA 051

New Mexico Certification

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188

Utah/TNI Certification #: ANTE

Virgin Island/PADEP Certification

Virginia Certification #: 00112

Virginia VELAP (Cert # 460198)

Washington Certification #: C868

West Virginia Certification #: 143

Wisconsin/PADEP Certification

Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: EPT Ithaca, NY

Pace Project No.: 3073628

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3073628001	MW-16 B/C	EPA 8260	JAS	46	PASI-PA
3073628002	MW-17 B	EPA 8015B Modified	CWB	2	PASI-PA
		EPA 8260	JAS	46	PASI-PA
3073628003	MW-17 B-MS	EPA 8015B Modified	CWB	2	PASI-PA
		EPA 8260	JAS	46	PASI-PA
3073628004	MW-17 B-MSD	EPA 8015B Modified	CWB	2	PASI-PA
		EPA 8260	JAS	46	PASI-PA
3073628005	MW-100	EPA 8015B Modified	CWB	2	PASI-PA
		EPA 8260	JAS	46	PASI-PA
3073628006	MW-16C	EPA 8260	JAS	46	PASI-PA
3073628007	EB_071812	EPA 8015B Modified	CWB	2	PASI-PA
		EPA 8260	JAS	46	PASI-PA
3073628008	TRIP BLANK	EPA 8260	JAS	46	PASI-PA
3073628009	MW-18 B GRAB	EPA 8260	JAS	46	PASI-PA
3073628010	MW-18 B	EPA 8260	JAS	46	PASI-PA

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PROJECT NARRATIVE

Project: EPT Ithaca, NY

Pace Project No.: 3073628

Method: EPA 8015B Modified

Description: 8015 GCS THC-Diesel

Client: WSP Environment & Energy - Cazenovia, NY

Date: July 24, 2012

General Information:

5 samples were analyzed for EPA 8015B Modified. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Batch Comments:

The response for the surrogate o-terphenyl is low in the Initial Calibration Verification Standard associated with the analysis of these samples. Results for o-terphenyl may be biased low.

- QC Batch: GCSV / 4668

Analyte Comments:

QC Batch: OEXT/12176

1c: The majority of the area quantitated as DRO for this sample is due to unresolved material eluting beyond C 20.

- MW-100 (Lab ID: 3073628005)
 - Diesel Components
- MW-17 B (Lab ID: 3073628002)
 - Diesel Components

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PROJECT NARRATIVE

Project: EPT Ithaca, NY

Pace Project No.: 3073628

Method: EPA 8260

Description: 8260 MSV

Client: WSP Environment & Energy - Cazenovia, NY

Date: July 24, 2012

General Information:

10 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Sample Comments:

The sample collection time for this Trip Blank sample was changed to match the earliest collected sample.

- TRIP BLANK (Lab ID: 3073628008)

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3073628

Sample: MW-16 B/C		Lab ID: 3073628001		Collected: 07/17/12 14:55		Received: 07/19/12 09:30		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV		Analytical Method: EPA 8260							
Acetone	113	ug/L	10.0	1		07/23/12 21:55	67-64-1		
Benzene	ND	ug/L	1.0	1		07/23/12 21:55	71-43-2		
Bromochloromethane	ND	ug/L	1.0	1		07/23/12 21:55	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		07/23/12 21:55	75-27-4		
Bromoform	ND	ug/L	1.0	1		07/23/12 21:55	75-25-2		
Bromomethane	ND	ug/L	1.0	1		07/23/12 21:55	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		07/23/12 21:55	78-93-3		
Carbon disulfide	ND	ug/L	1.0	1		07/23/12 21:55	75-15-0		
Carbon tetrachloride	ND	ug/L	1.0	1		07/23/12 21:55	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		07/23/12 21:55	108-90-7		
Chloroethane	ND	ug/L	1.0	1		07/23/12 21:55	75-00-3		
Chloroform	1.3	ug/L	1.0	1		07/23/12 21:55	67-66-3		
Chloromethane	ND	ug/L	1.0	1		07/23/12 21:55	74-87-3		
Dibromochloromethane	ND	ug/L	1.0	1		07/23/12 21:55	124-48-1		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/23/12 21:55	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/23/12 21:55	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/23/12 21:55	106-46-7		
1,1-Dichloroethane	ND	ug/L	1.0	1		07/23/12 21:55	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		07/23/12 21:55	107-06-2		
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		07/23/12 21:55	540-59-0		
1,1-Dichloroethene	ND	ug/L	1.0	1		07/23/12 21:55	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/23/12 21:55	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/23/12 21:55	156-60-5		
1,2-Dichloropropane	ND	ug/L	1.0	1		07/23/12 21:55	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/23/12 21:55	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/23/12 21:55	10061-02-6		
Ethylbenzene	ND	ug/L	1.0	1		07/23/12 21:55	100-41-4		
2-Hexanone	ND	ug/L	10.0	1		07/23/12 21:55	591-78-6		
Methylene Chloride	ND	ug/L	1.0	1		07/23/12 21:55	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/23/12 21:55	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/23/12 21:55	1634-04-4		
Styrene	ND	ug/L	1.0	1		07/23/12 21:55	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/23/12 21:55	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	1		07/23/12 21:55	127-18-4		
Toluene	1.4	ug/L	1.0	1		07/23/12 21:55	108-88-3		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/23/12 21:55	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/23/12 21:55	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/23/12 21:55	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		07/23/12 21:55	79-01-6		
Vinyl chloride	ND	ug/L	1.0	1		07/23/12 21:55	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		07/23/12 21:55	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		07/23/12 21:55	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		07/23/12 21:55	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130	1		07/23/12 21:55	460-00-4		
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		07/23/12 21:55	17060-07-0		
Toluene-d8 (S)	100	%	70-130	1		07/23/12 21:55	2037-26-5		

Date: 07/24/2012 11:39 AM

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3073628

Sample: MW-17 B		Lab ID: 3073628002	Collected: 07/17/12 17:05	Received: 07/19/12 09:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel		Analytical Method: EPA 8015B Modified Preparation Method: EPA 3510						
Diesel Components	0.78 mg/L		0.10	1	07/23/12 09:00	07/23/12 15:12		1c
Surrogates								
o-Terphenyl (S)	50 %		50-150	1	07/23/12 09:00	07/23/12 15:12	84-15-1	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		10.0	1		07/23/12 22:21	67-64-1	
Benzene	ND ug/L		1.0	1		07/23/12 22:21	71-43-2	
Bromochloromethane	ND ug/L		1.0	1		07/23/12 22:21	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		07/23/12 22:21	75-27-4	
Bromoform	ND ug/L		1.0	1		07/23/12 22:21	75-25-2	
Bromomethane	ND ug/L		1.0	1		07/23/12 22:21	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		07/23/12 22:21	78-93-3	
Carbon disulfide	ND ug/L		1.0	1		07/23/12 22:21	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		07/23/12 22:21	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		07/23/12 22:21	108-90-7	
Chloroethane	ND ug/L		1.0	1		07/23/12 22:21	75-00-3	
Chloroform	ND ug/L		1.0	1		07/23/12 22:21	67-66-3	
Chloromethane	ND ug/L		1.0	1		07/23/12 22:21	74-87-3	
Dibromochloromethane	ND ug/L		1.0	1		07/23/12 22:21	124-48-1	
1,2-Dichlorobenzene	ND ug/L		1.0	1		07/23/12 22:21	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		07/23/12 22:21	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		07/23/12 22:21	106-46-7	
1,1-Dichloroethane	ND ug/L		1.0	1		07/23/12 22:21	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		07/23/12 22:21	107-06-2	
1,2-Dichloroethene (Total)	ND ug/L		2.0	1		07/23/12 22:21	540-59-0	
1,1-Dichloroethene	ND ug/L		1.0	1		07/23/12 22:21	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		07/23/12 22:21	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		07/23/12 22:21	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		07/23/12 22:21	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		07/23/12 22:21	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		07/23/12 22:21	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		07/23/12 22:21	100-41-4	
2-Hexanone	ND ug/L		10.0	1		07/23/12 22:21	591-78-6	
Methylene Chloride	ND ug/L		1.0	1		07/23/12 22:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		07/23/12 22:21	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		07/23/12 22:21	1634-04-4	
Styrene	ND ug/L		1.0	1		07/23/12 22:21	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		07/23/12 22:21	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		07/23/12 22:21	127-18-4	
Toluene	ND ug/L		1.0	1		07/23/12 22:21	108-88-3	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		07/23/12 22:21	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		07/23/12 22:21	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		07/23/12 22:21	79-00-5	
Trichloroethene	ND ug/L		1.0	1		07/23/12 22:21	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		07/23/12 22:21	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		07/23/12 22:21	1330-20-7	
m&p-Xylene	ND ug/L		2.0	1		07/23/12 22:21	179601-23-1	

Date: 07/24/2012 11:39 AM

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3073628

Sample: MW-17 B		Lab ID: 3073628002	Collected: 07/17/12 17:05	Received: 07/19/12 09:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
o-Xylene	ND	ug/L	1.0	1		07/23/12 22:21	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		07/23/12 22:21	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		07/23/12 22:21	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		07/23/12 22:21	2037-26-5	

ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3073628

Sample: MW-17 B-MS		Lab ID: 3073628003	Collected: 07/17/12 17:05	Received: 07/19/12 09:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel		Analytical Method: EPA 8015B Modified Preparation Method: EPA 3510						
Diesel Components	1.8 mg/L		0.10	1	07/23/12 09:00	07/23/12 15:21		
Surrogates								
o-Terphenyl (S)	53 %		50-150	1	07/23/12 09:00	07/23/12 15:21	84-15-1	
8260 MSV		Analytical Method: EPA 8260						
Acetone	18.6 ug/L		10.0	1		07/23/12 22:47	67-64-1	
Benzene	17.2 ug/L		1.0	1		07/23/12 22:47	71-43-2	
Bromochloromethane	17.7 ug/L		1.0	1		07/23/12 22:47	74-97-5	
Bromodichloromethane	16.5 ug/L		1.0	1		07/23/12 22:47	75-27-4	
Bromoform	14.6 ug/L		1.0	1		07/23/12 22:47	75-25-2	
Bromomethane	16.0 ug/L		1.0	1		07/23/12 22:47	74-83-9	
2-Butanone (MEK)	19.4 ug/L		10.0	1		07/23/12 22:47	78-93-3	
Carbon disulfide	19.4 ug/L		1.0	1		07/23/12 22:47	75-15-0	
Carbon tetrachloride	16.7 ug/L		1.0	1		07/23/12 22:47	56-23-5	
Chlorobenzene	18.2 ug/L		1.0	1		07/23/12 22:47	108-90-7	
Chloroethane	19.6 ug/L		1.0	1		07/23/12 22:47	75-00-3	
Chloroform	16.0 ug/L		1.0	1		07/23/12 22:47	67-66-3	
Chloromethane	19.6 ug/L		1.0	1		07/23/12 22:47	74-87-3	
Dibromochloromethane	15.2 ug/L		1.0	1		07/23/12 22:47	124-48-1	
1,2-Dichlorobenzene	17.7 ug/L		1.0	1		07/23/12 22:47	95-50-1	
1,3-Dichlorobenzene	18.3 ug/L		1.0	1		07/23/12 22:47	541-73-1	
1,4-Dichlorobenzene	16.2 ug/L		1.0	1		07/23/12 22:47	106-46-7	
1,1-Dichloroethane	17.2 ug/L		1.0	1		07/23/12 22:47	75-34-3	
1,2-Dichloroethane	17.3 ug/L		1.0	1		07/23/12 22:47	107-06-2	
1,2-Dichloroethene (Total)	35.3 ug/L		2.0	1		07/23/12 22:47	540-59-0	
1,1-Dichloroethene	18.5 ug/L		1.0	1		07/23/12 22:47	75-35-4	
cis-1,2-Dichloroethene	16.9 ug/L		1.0	1		07/23/12 22:47	156-59-2	
trans-1,2-Dichloroethene	18.3 ug/L		1.0	1		07/23/12 22:47	156-60-5	
1,2-Dichloropropane	18.8 ug/L		1.0	1		07/23/12 22:47	78-87-5	
cis-1,3-Dichloropropene	16.4 ug/L		1.0	1		07/23/12 22:47	10061-01-5	
trans-1,3-Dichloropropene	16.2 ug/L		1.0	1		07/23/12 22:47	10061-02-6	
Ethylbenzene	18.8 ug/L		1.0	1		07/23/12 22:47	100-41-4	
2-Hexanone	22.1 ug/L		10.0	1		07/23/12 22:47	591-78-6	
Methylene Chloride	17.1 ug/L		1.0	1		07/23/12 22:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	20.4 ug/L		10.0	1		07/23/12 22:47	108-10-1	
Methyl-tert-butyl ether	15.8 ug/L		1.0	1		07/23/12 22:47	1634-04-4	
Styrene	19.9 ug/L		1.0	1		07/23/12 22:47	100-42-5	
1,1,2,2-Tetrachloroethane	18.1 ug/L		1.0	1		07/23/12 22:47	79-34-5	
Tetrachloroethene	18.0 ug/L		1.0	1		07/23/12 22:47	127-18-4	
Toluene	17.9 ug/L		1.0	1		07/23/12 22:47	108-88-3	
1,2,4-Trichlorobenzene	16.5 ug/L		1.0	1		07/23/12 22:47	120-82-1	
1,1,1-Trichloroethane	17.7 ug/L		1.0	1		07/23/12 22:47	71-55-6	
1,1,2-Trichloroethane	17.9 ug/L		1.0	1		07/23/12 22:47	79-00-5	
Trichloroethene	16.8 ug/L		1.0	1		07/23/12 22:47	79-01-6	
Vinyl chloride	24.0 ug/L		1.0	1		07/23/12 22:47	75-01-4	
Xylene (Total)	52.5 ug/L		3.0	1		07/23/12 22:47	1330-20-7	
m&p-Xylene	37.5 ug/L		2.0	1		07/23/12 22:47	179601-23-1	

Date: 07/24/2012 11:39 AM

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3073628

Sample: MW-17 B-MS		Lab ID: 3073628003	Collected: 07/17/12 17:05	Received: 07/19/12 09:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
o-Xylene	15.0	ug/L	1.0	1		07/23/12 22:47	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		07/23/12 22:47	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		07/23/12 22:47	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		07/23/12 22:47	2037-26-5	

ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3073628

Sample: MW-17 B-MSD		Lab ID: 3073628004	Collected: 07/17/12 17:05	Received: 07/19/12 09:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel		Analytical Method: EPA 8015B Modified Preparation Method: EPA 3510						
Diesel Components	1.6 mg/L		0.10	1	07/23/12 09:00	07/23/12 15:30		
Surrogates								
o-Terphenyl (S)	50 %		50-150	1	07/23/12 09:00	07/23/12 15:30	84-15-1	
8260 MSV		Analytical Method: EPA 8260						
Acetone	14.8 ug/L		10.0	1		07/23/12 23:14	67-64-1	
Benzene	17.1 ug/L		1.0	1		07/23/12 23:14	71-43-2	
Bromochloromethane	19.0 ug/L		1.0	1		07/23/12 23:14	74-97-5	
Bromodichloromethane	16.6 ug/L		1.0	1		07/23/12 23:14	75-27-4	
Bromoform	14.2 ug/L		1.0	1		07/23/12 23:14	75-25-2	
Bromomethane	18.7 ug/L		1.0	1		07/23/12 23:14	74-83-9	
2-Butanone (MEK)	19.5 ug/L		10.0	1		07/23/12 23:14	78-93-3	
Carbon disulfide	18.4 ug/L		1.0	1		07/23/12 23:14	75-15-0	
Carbon tetrachloride	17.6 ug/L		1.0	1		07/23/12 23:14	56-23-5	
Chlorobenzene	18.3 ug/L		1.0	1		07/23/12 23:14	108-90-7	
Chloroethane	20.4 ug/L		1.0	1		07/23/12 23:14	75-00-3	
Chloroform	16.9 ug/L		1.0	1		07/23/12 23:14	67-66-3	
Chloromethane	20.7 ug/L		1.0	1		07/23/12 23:14	74-87-3	
Dibromochloromethane	15.3 ug/L		1.0	1		07/23/12 23:14	124-48-1	
1,2-Dichlorobenzene	18.2 ug/L		1.0	1		07/23/12 23:14	95-50-1	
1,3-Dichlorobenzene	18.4 ug/L		1.0	1		07/23/12 23:14	541-73-1	
1,4-Dichlorobenzene	17.2 ug/L		1.0	1		07/23/12 23:14	106-46-7	
1,1-Dichloroethane	17.9 ug/L		1.0	1		07/23/12 23:14	75-34-3	
1,2-Dichloroethane	17.8 ug/L		1.0	1		07/23/12 23:14	107-06-2	
1,2-Dichloroethene (Total)	37.1 ug/L		2.0	1		07/23/12 23:14	540-59-0	
1,1-Dichloroethene	19.4 ug/L		1.0	1		07/23/12 23:14	75-35-4	
cis-1,2-Dichloroethene	17.8 ug/L		1.0	1		07/23/12 23:14	156-59-2	
trans-1,2-Dichloroethene	19.3 ug/L		1.0	1		07/23/12 23:14	156-60-5	
1,2-Dichloropropane	18.5 ug/L		1.0	1		07/23/12 23:14	78-87-5	
cis-1,3-Dichloropropene	16.2 ug/L		1.0	1		07/23/12 23:14	10061-01-5	
trans-1,3-Dichloropropene	16.0 ug/L		1.0	1		07/23/12 23:14	10061-02-6	
Ethylbenzene	18.2 ug/L		1.0	1		07/23/12 23:14	100-41-4	
2-Hexanone	19.9 ug/L		10.0	1		07/23/12 23:14	591-78-6	
Methylene Chloride	18.2 ug/L		1.0	1		07/23/12 23:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	19.2 ug/L		10.0	1		07/23/12 23:14	108-10-1	
Methyl-tert-butyl ether	14.8 ug/L		1.0	1		07/23/12 23:14	1634-04-4	
Styrene	20.2 ug/L		1.0	1		07/23/12 23:14	100-42-5	
1,1,2,2-Tetrachloroethane	18.3 ug/L		1.0	1		07/23/12 23:14	79-34-5	
Tetrachloroethene	17.5 ug/L		1.0	1		07/23/12 23:14	127-18-4	
Toluene	17.6 ug/L		1.0	1		07/23/12 23:14	108-88-3	
1,2,4-Trichlorobenzene	17.2 ug/L		1.0	1		07/23/12 23:14	120-82-1	
1,1,1-Trichloroethane	18.7 ug/L		1.0	1		07/23/12 23:14	71-55-6	
1,1,2-Trichloroethane	17.6 ug/L		1.0	1		07/23/12 23:14	79-00-5	
Trichloroethene	16.9 ug/L		1.0	1		07/23/12 23:14	79-01-6	
Vinyl chloride	24.7 ug/L		1.0	1		07/23/12 23:14	75-01-4	
Xylene (Total)	51.9 ug/L		3.0	1		07/23/12 23:14	1330-20-7	
m&p-Xylene	36.9 ug/L		2.0	1		07/23/12 23:14	179601-23-1	

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3073628

Sample: MW-17 B-MSD		Lab ID: 3073628004	Collected: 07/17/12 17:05	Received: 07/19/12 09:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
o-Xylene	15.0	ug/L	1.0	1		07/23/12 23:14	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		07/23/12 23:14	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		07/23/12 23:14	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		07/23/12 23:14	2037-26-5	

ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3073628

Sample: MW-100		Lab ID: 3073628005	Collected: 07/17/12 12:00	Received: 07/19/12 09:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel		Analytical Method: EPA 8015B Modified Preparation Method: EPA 3510						
Diesel Components	0.68	mg/L	0.10	1	07/23/12 09:00	07/23/12 15:49		1c
Surrogates								
o-Terphenyl (S)	50	%	50-150	1	07/23/12 09:00	07/23/12 15:49	84-15-1	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	10.0	1		07/23/12 23:40	67-64-1	
Benzene	ND	ug/L	1.0	1		07/23/12 23:40	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		07/23/12 23:40	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/23/12 23:40	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/23/12 23:40	75-25-2	
Bromomethane	ND	ug/L	1.0	1		07/23/12 23:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/23/12 23:40	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		07/23/12 23:40	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		07/23/12 23:40	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/23/12 23:40	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/23/12 23:40	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/23/12 23:40	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/23/12 23:40	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		07/23/12 23:40	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/23/12 23:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/23/12 23:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/23/12 23:40	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/23/12 23:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/23/12 23:40	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		07/23/12 23:40	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/23/12 23:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/23/12 23:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/23/12 23:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/23/12 23:40	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/23/12 23:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/23/12 23:40	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		07/23/12 23:40	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/23/12 23:40	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		07/23/12 23:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/23/12 23:40	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/23/12 23:40	1634-04-4	
Styrene	ND	ug/L	1.0	1		07/23/12 23:40	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/23/12 23:40	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/23/12 23:40	127-18-4	
Toluene	ND	ug/L	1.0	1		07/23/12 23:40	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/23/12 23:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/23/12 23:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/23/12 23:40	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/23/12 23:40	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		07/23/12 23:40	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		07/23/12 23:40	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/23/12 23:40	179601-23-1	

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3073628

Sample: MW-100		Lab ID: 3073628005	Collected: 07/17/12 12:00	Received: 07/19/12 09:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
o-Xylene	ND	ug/L	1.0	1		07/23/12 23:40	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		07/23/12 23:40	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		07/23/12 23:40	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		07/23/12 23:40	2037-26-5	

ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3073628

Sample: MW-16C		Lab ID: 3073628006	Collected: 07/18/12 09:20	Received: 07/19/12 09:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	167 ug/L		10.0	1		07/24/12 00:06	67-64-1	
Benzene	4.7 ug/L		1.0	1		07/24/12 00:06	71-43-2	
Bromochloromethane	ND ug/L		1.0	1		07/24/12 00:06	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		07/24/12 00:06	75-27-4	
Bromoform	ND ug/L		1.0	1		07/24/12 00:06	75-25-2	
Bromomethane	ND ug/L		1.0	1		07/24/12 00:06	74-83-9	
2-Butanone (MEK)	19.7 ug/L		10.0	1		07/24/12 00:06	78-93-3	
Carbon disulfide	ND ug/L		1.0	1		07/24/12 00:06	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		07/24/12 00:06	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		07/24/12 00:06	108-90-7	
Chloroethane	ND ug/L		1.0	1		07/24/12 00:06	75-00-3	
Chloroform	ND ug/L		1.0	1		07/24/12 00:06	67-66-3	
Chloromethane	ND ug/L		1.0	1		07/24/12 00:06	74-87-3	
Dibromochloromethane	ND ug/L		1.0	1		07/24/12 00:06	124-48-1	
1,2-Dichlorobenzene	ND ug/L		1.0	1		07/24/12 00:06	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		07/24/12 00:06	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		07/24/12 00:06	106-46-7	
1,1-Dichloroethane	ND ug/L		1.0	1		07/24/12 00:06	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		07/24/12 00:06	107-06-2	
1,2-Dichloroethene (Total)	ND ug/L		2.0	1		07/24/12 00:06	540-59-0	
1,1-Dichloroethene	ND ug/L		1.0	1		07/24/12 00:06	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		07/24/12 00:06	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		07/24/12 00:06	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		07/24/12 00:06	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		07/24/12 00:06	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		07/24/12 00:06	10061-02-6	
Ethylbenzene	2.6 ug/L		1.0	1		07/24/12 00:06	100-41-4	
2-Hexanone	ND ug/L		10.0	1		07/24/12 00:06	591-78-6	
Methylene Chloride	ND ug/L		1.0	1		07/24/12 00:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		07/24/12 00:06	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		07/24/12 00:06	1634-04-4	
Styrene	ND ug/L		1.0	1		07/24/12 00:06	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		07/24/12 00:06	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		07/24/12 00:06	127-18-4	
Toluene	10.2 ug/L		1.0	1		07/24/12 00:06	108-88-3	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		07/24/12 00:06	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		07/24/12 00:06	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		07/24/12 00:06	79-00-5	
Trichloroethene	ND ug/L		1.0	1		07/24/12 00:06	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		07/24/12 00:06	75-01-4	
Xylene (Total)	16.7 ug/L		3.0	1		07/24/12 00:06	1330-20-7	
m&p-Xylene	9.7 ug/L		2.0	1		07/24/12 00:06	179601-23-1	
o-Xylene	6.9 ug/L		1.0	1		07/24/12 00:06	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100 %		70-130	1		07/24/12 00:06	460-00-4	
1,2-Dichloroethane-d4 (S)	103 %		70-130	1		07/24/12 00:06	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		07/24/12 00:06	2037-26-5	

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3073628

Sample: EB_071812		Lab ID: 3073628007	Collected: 07/18/12 10:05	Received: 07/19/12 09:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel		Analytical Method: EPA 8015B Modified Preparation Method: EPA 3510						
Diesel Components	0.12	mg/L	0.10	1	07/23/12 09:00	07/23/12 15:58		
Surrogates								
o-Terphenyl (S)	58	%	50-150	1	07/23/12 09:00	07/23/12 15:58	84-15-1	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	10.0	1		07/23/12 20:09	67-64-1	
Benzene	ND	ug/L	1.0	1		07/23/12 20:09	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		07/23/12 20:09	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/23/12 20:09	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/23/12 20:09	75-25-2	
Bromomethane	ND	ug/L	1.0	1		07/23/12 20:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/23/12 20:09	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		07/23/12 20:09	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		07/23/12 20:09	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/23/12 20:09	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/23/12 20:09	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/23/12 20:09	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/23/12 20:09	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		07/23/12 20:09	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/23/12 20:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/23/12 20:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/23/12 20:09	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/23/12 20:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/23/12 20:09	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		07/23/12 20:09	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/23/12 20:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/23/12 20:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/23/12 20:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/23/12 20:09	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/23/12 20:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/23/12 20:09	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		07/23/12 20:09	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/23/12 20:09	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		07/23/12 20:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/23/12 20:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/23/12 20:09	1634-04-4	
Styrene	ND	ug/L	1.0	1		07/23/12 20:09	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/23/12 20:09	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/23/12 20:09	127-18-4	
Toluene	ND	ug/L	1.0	1		07/23/12 20:09	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/23/12 20:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/23/12 20:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/23/12 20:09	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/23/12 20:09	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		07/23/12 20:09	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		07/23/12 20:09	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/23/12 20:09	179601-23-1	

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3073628

Sample: EB_071812		Lab ID: 3073628007		Collected: 07/18/12 10:05		Received: 07/19/12 09:30		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
o-Xylene		ND	ug/L	1.0	1		07/23/12 20:09	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)		101	%	70-130	1		07/23/12 20:09	460-00-4	
1,2-Dichloroethane-d4 (S)		104	%	70-130	1		07/23/12 20:09	17060-07-0	
Toluene-d8 (S)		101	%	70-130	1		07/23/12 20:09	2037-26-5	

ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3073628

Sample: TRIP BLANK **Lab ID: 3073628008** Collected: 07/17/12 00:01 Received: 07/19/12 09:30 Matrix: Water

Comments: • The sample collection time for this Trip Blank sample was changed to match the earliest collected sample.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		10.0	1		07/23/12 20:35	67-64-1	
Benzene	ND ug/L		1.0	1		07/23/12 20:35	71-43-2	
Bromochloromethane	ND ug/L		1.0	1		07/23/12 20:35	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		07/23/12 20:35	75-27-4	
Bromoform	ND ug/L		1.0	1		07/23/12 20:35	75-25-2	
Bromomethane	ND ug/L		1.0	1		07/23/12 20:35	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		07/23/12 20:35	78-93-3	
Carbon disulfide	ND ug/L		1.0	1		07/23/12 20:35	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		07/23/12 20:35	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		07/23/12 20:35	108-90-7	
Chloroethane	ND ug/L		1.0	1		07/23/12 20:35	75-00-3	
Chloroform	ND ug/L		1.0	1		07/23/12 20:35	67-66-3	
Chloromethane	ND ug/L		1.0	1		07/23/12 20:35	74-87-3	
Dibromochloromethane	ND ug/L		1.0	1		07/23/12 20:35	124-48-1	
1,2-Dichlorobenzene	ND ug/L		1.0	1		07/23/12 20:35	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		07/23/12 20:35	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		07/23/12 20:35	106-46-7	
1,1-Dichloroethane	ND ug/L		1.0	1		07/23/12 20:35	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		07/23/12 20:35	107-06-2	
1,2-Dichloroethene (Total)	ND ug/L		2.0	1		07/23/12 20:35	540-59-0	
1,1-Dichloroethene	ND ug/L		1.0	1		07/23/12 20:35	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		07/23/12 20:35	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		07/23/12 20:35	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		07/23/12 20:35	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		07/23/12 20:35	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		07/23/12 20:35	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		07/23/12 20:35	100-41-4	
2-Hexanone	ND ug/L		10.0	1		07/23/12 20:35	591-78-6	
Methylene Chloride	ND ug/L		1.0	1		07/23/12 20:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		07/23/12 20:35	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		07/23/12 20:35	1634-04-4	
Styrene	ND ug/L		1.0	1		07/23/12 20:35	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		07/23/12 20:35	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		07/23/12 20:35	127-18-4	
Toluene	ND ug/L		1.0	1		07/23/12 20:35	108-88-3	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		07/23/12 20:35	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		07/23/12 20:35	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		07/23/12 20:35	79-00-5	
Trichloroethene	ND ug/L		1.0	1		07/23/12 20:35	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		07/23/12 20:35	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		07/23/12 20:35	1330-20-7	
m&p-Xylene	ND ug/L		2.0	1		07/23/12 20:35	179601-23-1	
o-Xylene	ND ug/L		1.0	1		07/23/12 20:35	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100 %		70-130	1		07/23/12 20:35	460-00-4	
1,2-Dichloroethane-d4 (S)	99 %		70-130	1		07/23/12 20:35	17060-07-0	

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3073628

Sample: TRIP BLANK **Lab ID: 3073628008** Collected: 07/17/12 00:01 Received: 07/19/12 09:30 Matrix: Water

Comments: • The sample collection time for this Trip Blank sample was changed to match the earliest collected sample.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

8260 MSV

Analytical Method: EPA 8260

Surrogates

Toluene-d8 (S)	101 %		70-130	1		07/23/12 20:35	2037-26-5	

ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3073628

Sample: MW-18 B GRAB		Lab ID: 3073628009	Collected: 07/18/12 11:50	Received: 07/19/12 09:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		10.0	1		07/24/12 00:33	67-64-1	
Benzene	ND ug/L		1.0	1		07/24/12 00:33	71-43-2	
Bromochloromethane	ND ug/L		1.0	1		07/24/12 00:33	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		07/24/12 00:33	75-27-4	
Bromoform	ND ug/L		1.0	1		07/24/12 00:33	75-25-2	
Bromomethane	ND ug/L		1.0	1		07/24/12 00:33	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		07/24/12 00:33	78-93-3	
Carbon disulfide	ND ug/L		1.0	1		07/24/12 00:33	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		07/24/12 00:33	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		07/24/12 00:33	108-90-7	
Chloroethane	ND ug/L		1.0	1		07/24/12 00:33	75-00-3	
Chloroform	ND ug/L		1.0	1		07/24/12 00:33	67-66-3	
Chloromethane	ND ug/L		1.0	1		07/24/12 00:33	74-87-3	
Dibromochloromethane	ND ug/L		1.0	1		07/24/12 00:33	124-48-1	
1,2-Dichlorobenzene	ND ug/L		1.0	1		07/24/12 00:33	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		07/24/12 00:33	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		07/24/12 00:33	106-46-7	
1,1-Dichloroethane	ND ug/L		1.0	1		07/24/12 00:33	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		07/24/12 00:33	107-06-2	
1,2-Dichloroethene (Total)	3.3 ug/L		2.0	1		07/24/12 00:33	540-59-0	
1,1-Dichloroethene	ND ug/L		1.0	1		07/24/12 00:33	75-35-4	
cis-1,2-Dichloroethene	3.3 ug/L		1.0	1		07/24/12 00:33	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		07/24/12 00:33	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		07/24/12 00:33	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		07/24/12 00:33	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		07/24/12 00:33	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		07/24/12 00:33	100-41-4	
2-Hexanone	ND ug/L		10.0	1		07/24/12 00:33	591-78-6	
Methylene Chloride	ND ug/L		1.0	1		07/24/12 00:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		07/24/12 00:33	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		07/24/12 00:33	1634-04-4	
Styrene	ND ug/L		1.0	1		07/24/12 00:33	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		07/24/12 00:33	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		07/24/12 00:33	127-18-4	
Toluene	ND ug/L		1.0	1		07/24/12 00:33	108-88-3	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		07/24/12 00:33	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		07/24/12 00:33	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		07/24/12 00:33	79-00-5	
Trichloroethene	ND ug/L		1.0	1		07/24/12 00:33	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		07/24/12 00:33	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		07/24/12 00:33	1330-20-7	
m&p-Xylene	ND ug/L		2.0	1		07/24/12 00:33	179601-23-1	
o-Xylene	ND ug/L		1.0	1		07/24/12 00:33	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102 %		70-130	1		07/24/12 00:33	460-00-4	
1,2-Dichloroethane-d4 (S)	103 %		70-130	1		07/24/12 00:33	17060-07-0	
Toluene-d8 (S)	101 %		70-130	1		07/24/12 00:33	2037-26-5	

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3073628

Sample: MW-18 B		Lab ID: 3073628010	Collected: 07/18/12 14:40	Received: 07/19/12 09:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		10.0	1		07/24/12 00:59	67-64-1	
Benzene	ND ug/L		1.0	1		07/24/12 00:59	71-43-2	
Bromochloromethane	ND ug/L		1.0	1		07/24/12 00:59	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		07/24/12 00:59	75-27-4	
Bromoform	ND ug/L		1.0	1		07/24/12 00:59	75-25-2	
Bromomethane	ND ug/L		1.0	1		07/24/12 00:59	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		07/24/12 00:59	78-93-3	
Carbon disulfide	ND ug/L		1.0	1		07/24/12 00:59	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		07/24/12 00:59	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		07/24/12 00:59	108-90-7	
Chloroethane	ND ug/L		1.0	1		07/24/12 00:59	75-00-3	
Chloroform	ND ug/L		1.0	1		07/24/12 00:59	67-66-3	
Chloromethane	ND ug/L		1.0	1		07/24/12 00:59	74-87-3	
Dibromochloromethane	ND ug/L		1.0	1		07/24/12 00:59	124-48-1	
1,2-Dichlorobenzene	ND ug/L		1.0	1		07/24/12 00:59	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		07/24/12 00:59	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		07/24/12 00:59	106-46-7	
1,1-Dichloroethane	ND ug/L		1.0	1		07/24/12 00:59	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		07/24/12 00:59	107-06-2	
1,2-Dichloroethene (Total)	3.2 ug/L		2.0	1		07/24/12 00:59	540-59-0	
1,1-Dichloroethene	ND ug/L		1.0	1		07/24/12 00:59	75-35-4	
cis-1,2-Dichloroethene	3.2 ug/L		1.0	1		07/24/12 00:59	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		07/24/12 00:59	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		07/24/12 00:59	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		07/24/12 00:59	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		07/24/12 00:59	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		07/24/12 00:59	100-41-4	
2-Hexanone	ND ug/L		10.0	1		07/24/12 00:59	591-78-6	
Methylene Chloride	ND ug/L		1.0	1		07/24/12 00:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		07/24/12 00:59	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		07/24/12 00:59	1634-04-4	
Styrene	ND ug/L		1.0	1		07/24/12 00:59	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		07/24/12 00:59	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		07/24/12 00:59	127-18-4	
Toluene	ND ug/L		1.0	1		07/24/12 00:59	108-88-3	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		07/24/12 00:59	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		07/24/12 00:59	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		07/24/12 00:59	79-00-5	
Trichloroethene	ND ug/L		1.0	1		07/24/12 00:59	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		07/24/12 00:59	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		07/24/12 00:59	1330-20-7	
m&p-Xylene	ND ug/L		2.0	1		07/24/12 00:59	179601-23-1	
o-Xylene	ND ug/L		1.0	1		07/24/12 00:59	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101 %		70-130	1		07/24/12 00:59	460-00-4	
1,2-Dichloroethane-d4 (S)	105 %		70-130	1		07/24/12 00:59	17060-07-0	
Toluene-d8 (S)	101 %		70-130	1		07/24/12 00:59	2037-26-5	

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QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3073628

QC Batch:	MSV/13351	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	3073628001, 3073628002, 3073628003, 3073628004, 3073628005, 3073628006, 3073628007, 3073628008, 3073628009, 3073628010		

METHOD BLANK: 466846 Matrix: Water

Associated Lab Samples: 3073628001, 3073628002, 3073628003, 3073628004, 3073628005, 3073628006, 3073628007, 3073628008, 3073628009, 3073628010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	07/23/12 19:16	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	07/23/12 19:16	
1,1,2-Trichloroethane	ug/L	ND	1.0	07/23/12 19:16	
1,1-Dichloroethane	ug/L	ND	1.0	07/23/12 19:16	
1,1-Dichloroethene	ug/L	ND	1.0	07/23/12 19:16	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	07/23/12 19:16	
1,2-Dichlorobenzene	ug/L	ND	1.0	07/23/12 19:16	
1,2-Dichloroethane	ug/L	ND	1.0	07/23/12 19:16	
1,2-Dichloropropane	ug/L	ND	1.0	07/23/12 19:16	
1,3-Dichlorobenzene	ug/L	ND	1.0	07/23/12 19:16	
1,4-Dichlorobenzene	ug/L	ND	1.0	07/23/12 19:16	
2-Butanone (MEK)	ug/L	ND	10.0	07/23/12 19:16	
2-Hexanone	ug/L	ND	10.0	07/23/12 19:16	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	07/23/12 19:16	
Acetone	ug/L	ND	10.0	07/23/12 19:16	
Benzene	ug/L	ND	1.0	07/23/12 19:16	
Bromochloromethane	ug/L	ND	1.0	07/23/12 19:16	
Bromodichloromethane	ug/L	ND	1.0	07/23/12 19:16	
Bromoform	ug/L	ND	1.0	07/23/12 19:16	
Bromomethane	ug/L	ND	1.0	07/23/12 19:16	
Carbon disulfide	ug/L	ND	1.0	07/23/12 19:16	
Carbon tetrachloride	ug/L	ND	1.0	07/23/12 19:16	
Chlorobenzene	ug/L	ND	1.0	07/23/12 19:16	
Chloroethane	ug/L	ND	1.0	07/23/12 19:16	
Chloroform	ug/L	ND	1.0	07/23/12 19:16	
Chloromethane	ug/L	ND	1.0	07/23/12 19:16	
cis-1,2-Dichloroethene	ug/L	ND	1.0	07/23/12 19:16	
cis-1,3-Dichloropropene	ug/L	ND	1.0	07/23/12 19:16	
Dibromochloromethane	ug/L	ND	1.0	07/23/12 19:16	
Ethylbenzene	ug/L	ND	1.0	07/23/12 19:16	
m&p-Xylene	ug/L	ND	2.0	07/23/12 19:16	
Methyl-tert-butyl ether	ug/L	ND	1.0	07/23/12 19:16	
Methylene Chloride	ug/L	ND	1.0	07/23/12 19:16	
o-Xylene	ug/L	ND	1.0	07/23/12 19:16	
Styrene	ug/L	ND	1.0	07/23/12 19:16	
Tetrachloroethene	ug/L	ND	1.0	07/23/12 19:16	
Toluene	ug/L	ND	1.0	07/23/12 19:16	
trans-1,2-Dichloroethene	ug/L	ND	1.0	07/23/12 19:16	
trans-1,3-Dichloropropene	ug/L	ND	1.0	07/23/12 19:16	
Trichloroethene	ug/L	ND	1.0	07/23/12 19:16	
Vinyl chloride	ug/L	ND	1.0	07/23/12 19:16	

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QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3073628

METHOD BLANK: 466846

Matrix: Water

Associated Lab Samples: 3073628001, 3073628002, 3073628003, 3073628004, 3073628005, 3073628006, 3073628007, 3073628008, 3073628009, 3073628010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Xylene (Total)	ug/L	ND	3.0	07/23/12 19:16	
1,2-Dichloroethane-d4 (S)	%	103	70-130	07/23/12 19:16	
4-Bromofluorobenzene (S)	%	99	70-130	07/23/12 19:16	
Toluene-d8 (S)	%	99	70-130	07/23/12 19:16	

LABORATORY CONTROL SAMPLE: 466847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.8	99	64.3-127	
1,1,2,2-Tetrachloroethane	ug/L	20	19.7	99	64.6-121	
1,1,2-Trichloroethane	ug/L	20	19.0	95	75.6-120	
1,1-Dichloroethane	ug/L	20	18.9	94	68.5-122	
1,1-Dichloroethene	ug/L	20	19.2	96	57.1-120	
1,2,4-Trichlorobenzene	ug/L	20	20.3	102	67.6-129	
1,2-Dichlorobenzene	ug/L	20	20.4	102	69.6-120	
1,2-Dichloroethane	ug/L	20	19.1	95	60.5-133	
1,2-Dichloropropane	ug/L	20	20.0	100	71-120	
1,3-Dichlorobenzene	ug/L	20	20.2	101	68.4-121	
1,4-Dichlorobenzene	ug/L	20	18.7	93	68.5-123	
2-Butanone (MEK)	ug/L	20	20.4	102	55.7-138	
2-Hexanone	ug/L	20	21.2	106	67-133	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.6	98	64.5-121	
Acetone	ug/L	20	20.1	100	57.6-168	
Benzene	ug/L	20	17.9	90	69.8-120	
Bromochloromethane	ug/L	20	19.0	95	65.5-125	
Bromodichloromethane	ug/L	20	18.7	94	66.5-120	
Bromoform	ug/L	20	20.9	104	61.1-120	
Bromomethane	ug/L	20	18.5	93	10.6-200	
Carbon disulfide	ug/L	20	20.7	103	60.2-122	
Carbon tetrachloride	ug/L	20	19.2	96	60.1-127	
Chlorobenzene	ug/L	20	19.4	97	72-120	
Chloroethane	ug/L	20	18.0	90	36.8-142	
Chloroform	ug/L	20	18.0	90	69-122	
Chloromethane	ug/L	20	19.7	99	37.2-129	
cis-1,2-Dichloroethene	ug/L	20	18.4	92	69.5-123	
cis-1,3-Dichloropropene	ug/L	20	19.5	98	74.3-120	
Dibromochloromethane	ug/L	20	17.7	89	66.1-120	
Ethylbenzene	ug/L	20	19.6	98	70.9-124	
m&p-Xylene	ug/L	40	39.7	99	70.4-130	
Methyl-tert-butyl ether	ug/L	20	16.7	84	66.4-144	
Methylene Chloride	ug/L	20	19.9	100	61.5-125	
o-Xylene	ug/L	20	15.9	80	70.6-127	
Styrene	ug/L	20	22.2	111	69.9-120	
Tetrachloroethene	ug/L	20	18.1	90	63.4-121	

QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3073628

LABORATORY CONTROL SAMPLE: 466847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	20	18.8	94	71.5-120	
trans-1,2-Dichloroethene	ug/L	20	19.8	99	64.1-120	
trans-1,3-Dichloropropene	ug/L	20	19.3	97	71-120	
Trichloroethene	ug/L	20	17.9	89	65.9-120	
Vinyl chloride	ug/L	20	20.9	104	51-127	
Xylene (Total)	ug/L	60	55.6	93	70-129	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 466848 466849

Parameter	Units	3073628002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	17.7	18.7	88	93	64.3-127	5	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	18.1	18.3	90	92	64.6-121	1	
1,1,2-Trichloroethane	ug/L	ND	20	20	17.9	17.6	89	88	75.6-120	1	
1,1-Dichloroethane	ug/L	ND	20	20	17.2	17.9	86	90	68.5-122	4	
1,1-Dichloroethene	ug/L	ND	20	20	18.5	19.4	92	97	57.1-120	5	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	16.5	17.2	83	86	67.6-129	4	
1,2-Dichlorobenzene	ug/L	ND	20	20	17.7	18.2	88	91	69.6-120	3	
1,2-Dichloroethane	ug/L	ND	20	20	17.3	17.8	86	89	60.5-133	3	
1,2-Dichloropropane	ug/L	ND	20	20	18.8	18.5	94	92	71-120	2	
1,3-Dichlorobenzene	ug/L	ND	20	20	18.3	18.4	91	92	68.4-121	.6	
1,4-Dichlorobenzene	ug/L	ND	20	20	16.2	17.2	81	86	68.5-123	6	
2-Butanone (MEK)	ug/L	ND	20	20	19.4	19.5	97	97	55.7-138	.4	
2-Hexanone	ug/L	ND	20	20	22.1	19.9	110	99	67-133	11	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	20.4	19.2	102	96	64.5-121	6	
Acetone	ug/L	ND	20	20	18.6	14.8	93	74	57.6-168	23	
Benzene	ug/L	ND	20	20	17.2	17.1	86	85	69.8-120	.8	
Bromochloromethane	ug/L	ND	20	20	17.7	19.0	89	95	65.5-125	7	
Bromodichloromethane	ug/L	ND	20	20	16.5	16.6	82	83	66.5-120	.9	
Bromoform	ug/L	ND	20	20	14.6	14.2	73	71	61.1-120	3	
Bromomethane	ug/L	ND	20	20	16.0	18.7	80	93	10.6-200	15	
Carbon disulfide	ug/L	ND	20	20	19.4	18.4	97	92	60.2-122	6	
Carbon tetrachloride	ug/L	ND	20	20	16.7	17.6	84	88	60.1-127	5	
Chlorobenzene	ug/L	ND	20	20	18.2	18.3	91	91	72-120	.1	
Chloroethane	ug/L	ND	20	20	19.6	20.4	98	102	36.8-142	4	
Chloroform	ug/L	ND	20	20	16.0	16.9	80	84	69-122	5	
Chloromethane	ug/L	ND	20	20	19.6	20.7	98	103	37.2-129	6	
cis-1,2-Dichloroethene	ug/L	ND	20	20	16.9	17.8	83	87	69.5-123	5	
cis-1,3-Dichloropropene	ug/L	ND	20	20	16.4	16.2	82	81	74.3-120	.9	
Dibromochloromethane	ug/L	ND	20	20	15.2	15.3	76	76	66.1-120	.4	
Ethylbenzene	ug/L	ND	20	20	18.8	18.2	94	91	70.9-124	3	
m&p-Xylene	ug/L	ND	40	40	37.5	36.9	94	92	70.4-130	2	
Methyl-tert-butyl ether	ug/L	ND	20	20	15.8	14.8	79	74	66.4-144	6	
Methylene Chloride	ug/L	ND	20	20	17.1	18.2	85	91	61.5-125	6	

Date: 07/24/2012 11:39 AM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3073628

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 466848 466849											
Parameter	Units	3073628002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
o-Xylene	ug/L	ND	20	20	15.0	15.0	75	75	70.6-127	.4	
Styrene	ug/L	ND	20	20	19.9	20.2	99	101	69.9-120	1	
Tetrachloroethene	ug/L	ND	20	20	18.0	17.5	90	88	63.4-121	2	
Toluene	ug/L	ND	20	20	17.9	17.6	89	88	71.5-120	2	
trans-1,2-Dichloroethene	ug/L	ND	20	20	18.3	19.3	92	96	64.1-120	5	
trans-1,3-Dichloropropene	ug/L	ND	20	20	16.2	16.0	81	80	71-120	1	
Trichloroethene	ug/L	ND	20	20	16.8	16.9	84	84	65.9-120	.3	
Vinyl chloride	ug/L	ND	20	20	24.0	24.7	120	124	51-127	3	
Xylene (Total)	ug/L	ND	60	60	52.5	51.9	87	87	70-129	1	
1,2-Dichloroethane-d4 (S)	%						103	107	70-130		
4-Bromofluorobenzene (S)	%						100	102	70-130		
Toluene-d8 (S)	%						101	98	70-130		

QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3073628

QC Batch: OEXT/12176 Analysis Method: EPA 8015B Modified

QC Batch Method: EPA 3510 Analysis Description: 8015 GCS

Associated Lab Samples: 3073628002, 3073628003, 3073628004, 3073628005, 3073628007

METHOD BLANK: 467335 Matrix: Water

Associated Lab Samples: 3073628002, 3073628003, 3073628004, 3073628005, 3073628007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Components	mg/L	ND	0.10	07/23/12 14:54	
o-Terphenyl (S)	%	63	50-150	07/23/12 14:54	

LABORATORY CONTROL SAMPLE: 467336

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Components	mg/L	1	0.87	87	50-150	
o-Terphenyl (S)	%			58	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 467337 467338

Parameter	Units	3073628002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Diesel Components	mg/L	0.78	1	1	1.8	1.6	97	82	50-150	9	
o-Terphenyl (S)	%						53	50	50-150		

QUALIFIERS

Project: EPT Ithaca, NY

Pace Project No.: 3073628

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

BATCH QUALIFIERS

Batch: GCSV/4668

[1] The response for the surrogate o-terphenyl is low in the Initial Calibration Verification Standard associated with the analysis of these samples. Results for o-terphenyl may be biased low.

ANALYTE QUALIFIERS

1c The majority of the area quantitated as DRO for this sample is due to unresolved material eluting beyond C 20.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: EPT Ithaca, NY

Pace Project No.: 3073628

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3073628002	MW-17 B	EPA 3510	OEXT/12176	EPA 8015B Modified	GCSV/4668
3073628003	MW-17 B-MS	EPA 3510	OEXT/12176	EPA 8015B Modified	GCSV/4668
3073628004	MW-17 B-MSD	EPA 3510	OEXT/12176	EPA 8015B Modified	GCSV/4668
3073628005	MW-100	EPA 3510	OEXT/12176	EPA 8015B Modified	GCSV/4668
3073628007	EB_071812	EPA 3510	OEXT/12176	EPA 8015B Modified	GCSV/4668
3073628001	MW-16 B/C	EPA 8260	MSV/13351		
3073628002	MW-17 B	EPA 8260	MSV/13351		
3073628003	MW-17 B-MS	EPA 8260	MSV/13351		
3073628004	MW-17 B-MSD	EPA 8260	MSV/13351		
3073628005	MW-100	EPA 8260	MSV/13351		
3073628006	MW-16C	EPA 8260	MSV/13351		
3073628007	EB_071812	EPA 8260	MSV/13351		
3073628008	TRIP BLANK	EPA 8260	MSV/13351		
3073628009	MW-18 B GRAB	EPA 8260	MSV/13351		
3073628010	MW-18 B	EPA 8260	MSV/13351		

September 14, 2012

Scott Haitz
WSP Environment & Energy - Reston, VA
11190 Sunrise Valley Drive
Reston, VA 20191

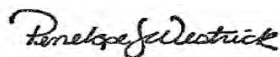
RE: Project: EPT Ithaca, NY; 4507-34
Pace Project No.: 3076815

Dear Scott Haitz:

Enclosed are the analytical results for sample(s) received by the laboratory on September 07, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Penny Westrick

penny.westrick@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: EPT Ithaca, NY; 4507-34

Pace Project No.: 3076815

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601

ACCLASS DOD-ELAP Accreditation #: ADE-1544

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California/TNI Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH-0694

Delaware Certification

Florida/TNI Certification #: E87683

Guam/PADEP Certification

Hawaii/PADEP Certification

Idaho Certification

Illinois/PADEP Certification

Indiana/PADEP Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana/TNI Certification #: LA080002

Louisiana/TNI Certification #: 4086

Maine Certification #: PA0091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nevada Certification

New Hampshire/TNI Certification #: 2976

New Jersey/TNI Certification #: PA 051

New Mexico Certification

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188

Utah/TNI Certification #: ANTE

Virgin Island/PADEP Certification

Virginia Certification #: 00112

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia Certification #: 143

Wisconsin/PADEP Certification

Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: EPT Ithaca, NY; 4507-34

Pace Project No.: 3076815

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3076815001	MW-25B	EPA 8260	JAS	52	PASI-PA
3076815002	MW-25B MS	EPA 8260	JAS	52	PASI-PA
3076815003	MW-25B MSD	EPA 8260	JAS	52	PASI-PA
3076815004	MW-100	EPA 8260	JAS	52	PASI-PA
3076815005	TRIP BLANK	EPA 8260	JAS	52	PASI-PA
3076815006	MW-10B	EPA 8260	JAS	52	PASI-PA
3076815007	EB-090512	EPA 8260	JAS	52	PASI-PA
3076815008	MW-24B	EPA 8260	JAS	52	PASI-PA
3076815009	MW-26B	EPA 8260	JAS	52	PASI-PA

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: EPT Ithaca, NY; 4507-34

Pace Project No.: 3076815

Method: EPA 8260

Description: 8260 MSV

Client: WSP Environment & Energy - Reston, VA

Date: September 14, 2012

General Information:

9 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

QC Batch: MSV/13885

IS: The internal standard response is below criteria. Results may be biased high.

- MW-10B (Lab ID: 3076815006)
 - 1,1-Dichloroethane
 - 1,1-Dichloroethene
 - Chloroethane
 - trans-1,2-Dichloroethene

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/13885

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

- LCS (Lab ID: 484970)
 - Dichlorodifluoromethane

QC Batch: MSV/13896

L3: Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

- LCS (Lab ID: 485341)
 - Trichlorofluoromethane

REPORT OF LABORATORY ANALYSIS

PROJECT NARRATIVE

Project: EPT Ithaca, NY; 4507-34

Pace Project No.: 3076815

Method: EPA 8260

Description: 8260 MSV

Client: WSP Environment & Energy - Reston, VA

Date: September 14, 2012

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/13885

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 3076815001

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 484972)
 - Dichlorodifluoromethane
 - Trichlorofluoromethane
 - cis-1,2-Dichloroethene
- MSD (Lab ID: 484973)
 - Acetone
 - Bromomethane
 - Dichlorodifluoromethane
 - Trichlorofluoromethane
 - cis-1,2-Dichloroethene

R1: RPD value was outside control limits.

- MSD (Lab ID: 484973)
 - Bromomethane

QC Batch: MSV/13896

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 3076821007

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 485342)
 - 1,1,2-Trichloroethane
 - 1,2-Dibromoethane (EDB)
 - 1,2-Dichloropropane
 - Benzene
 - Bromodichloromethane
 - Dichlorodifluoromethane
 - Tetrachloroethene
 - Toluene
 - Trichloroethene
 - Trichlorofluoromethane
 - cis-1,2-Dichloroethene
 - cis-1,3-Dichloropropene
 - trans-1,3-Dichloropropene
- MSD (Lab ID: 485343)
 - 1,1,2-Trichloroethane
 - 1,2-Dibromoethane (EDB)
 - 1,2-Dichloropropane
 - Benzene
 - Bromodichloromethane
 - Chlorobenzene
 - Dibromochloromethane

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: EPT Ithaca, NY; 4507-34

Pace Project No.: 3076815

Method: EPA 8260

Description: 8260 MSV

Client: WSP Environment & Energy - Reston, VA

Date: September 14, 2012

QC Batch: MSV/13896

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 3076821007

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- Dichlorodifluoromethane
- Naphthalene
- Tetrachloroethene
- Toluene
- Trichloroethene
- Trichlorofluoromethane
- cis-1,2-Dichloroethene
- cis-1,3-Dichloropropene
- trans-1,2-Dichloroethene
- trans-1,3-Dichloropropene

Additional Comments:

Analyte Comments:

QC Batch: MSV/13885

1c: The result from the 200 fold dilution analysis did not match the neat analysis very well due to matrix interferences with the Internal standard in the neat analysis. The result from 200 fold dilution was below the calibration curve.

- MW-10B (Lab ID: 3076815006)
- trans-1,2-Dichloroethene

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MW-10B (Lab ID: 3076815006)
- trans-1,2-Dichloroethene

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY; 4507-34

Pace Project No.: 3076815

Sample: MW-25B		Lab ID: 3076815001	Collected: 09/05/12 17:35	Received: 09/07/12 09:25	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	45.4 ug/L		10.0	1		09/10/12 17:30	67-64-1	
Benzene	ND ug/L		1.0	1		09/10/12 17:30	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		09/10/12 17:30	75-27-4	
Bromoform	ND ug/L		1.0	1		09/10/12 17:30	75-25-2	
Bromomethane	ND ug/L		1.0	1		09/10/12 17:30	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		09/10/12 17:30	78-93-3	
Carbon disulfide	ND ug/L		1.0	1		09/10/12 17:30	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		09/10/12 17:30	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		09/10/12 17:30	108-90-7	
Chloroethane	16.6 ug/L		1.0	1		09/10/12 17:30	75-00-3	
Chloroform	ND ug/L		1.0	1		09/10/12 17:30	67-66-3	
Chloromethane	ND ug/L		1.0	1		09/10/12 17:30	74-87-3	
Cyclohexane	ND ug/L		10.0	1		09/10/12 17:30	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		09/10/12 17:30	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		09/10/12 17:30	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		09/10/12 17:30	106-93-4	
1,2-Dichlorobenzene	ND ug/L		1.0	1		09/10/12 17:30	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		09/10/12 17:30	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		09/10/12 17:30	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		09/10/12 17:30	75-71-8	
1,1-Dichloroethane	4.4 ug/L		1.0	1		09/10/12 17:30	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		09/10/12 17:30	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		09/10/12 17:30	75-35-4	
cis-1,2-Dichloroethene	774 ug/L		50.0	50		09/11/12 20:00	156-59-2	
trans-1,2-Dichloroethene	10.5 ug/L		1.0	1		09/10/12 17:30	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		09/10/12 17:30	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		09/10/12 17:30	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		09/10/12 17:30	10061-02-6	
Ethylbenzene	2.8 ug/L		1.0	1		09/10/12 17:30	100-41-4	
2-Hexanone	ND ug/L		10.0	1		09/10/12 17:30	591-78-6	
Isopropylbenzene (Cumene)	4.0 ug/L		1.0	1		09/10/12 17:30	98-82-8	
Methyl acetate	ND ug/L		5.0	1		09/10/12 17:30	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		09/10/12 17:30	108-87-2	
Methylene Chloride	ND ug/L		1.0	1		09/10/12 17:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		09/10/12 17:30	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		09/10/12 17:30	1634-04-4	
Naphthalene	ND ug/L		2.0	1		09/10/12 17:30	91-20-3	
Styrene	ND ug/L		1.0	1		09/10/12 17:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		09/10/12 17:30	79-34-5	
Tetrachloroethene	1.2 ug/L		1.0	1		09/10/12 17:30	127-18-4	
Toluene	4.1 ug/L		1.0	1		09/10/12 17:30	108-88-3	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		09/10/12 17:30	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		09/10/12 17:30	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		09/10/12 17:30	79-00-5	
Trichloroethene	24.3 ug/L		1.0	1		09/10/12 17:30	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		09/10/12 17:30	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		50.0	1		09/10/12 17:30	76-13-1	

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY; 4507-34

Pace Project No.: 3076815

Sample: MW-25B		Lab ID: 3076815001	Collected: 09/05/12 17:35	Received: 09/07/12 09:25	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Vinyl chloride	1100	ug/L	50.0	50		09/11/12 20:00	75-01-4	
Xylene (Total)	25.1	ug/L	3.0	1		09/10/12 17:30	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	86	%	70-130	1		09/10/12 17:30	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		09/10/12 17:30	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		09/10/12 17:30	2037-26-5	

ANALYTICAL RESULTS

Project: EPT Ithaca, NY; 4507-34

Pace Project No.: 3076815

Sample: MW-25B MS		Lab ID: 3076815002	Collected: 09/05/12 17:35	Received: 09/07/12 09:25	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	68.1 ug/L		10.0	1		09/10/12 17:56	67-64-1	
Benzene	18.3 ug/L		1.0	1		09/10/12 17:56	71-43-2	
Bromodichloromethane	17.0 ug/L		1.0	1		09/10/12 17:56	75-27-4	
Bromoform	15.8 ug/L		1.0	1		09/10/12 17:56	75-25-2	
Bromomethane	6.0 ug/L		1.0	1		09/10/12 17:56	74-83-9	
2-Butanone (MEK)	21.8 ug/L		10.0	1		09/10/12 17:56	78-93-3	
Carbon disulfide	20.2 ug/L		1.0	1		09/10/12 17:56	75-15-0	
Carbon tetrachloride	16.2 ug/L		1.0	1		09/10/12 17:56	56-23-5	
Chlorobenzene	16.9 ug/L		1.0	1		09/10/12 17:56	108-90-7	
Chloroethane	24.2 ug/L		1.0	1		09/10/12 17:56	75-00-3	
Chloroform	16.3 ug/L		1.0	1		09/10/12 17:56	67-66-3	
Chloromethane	17.1 ug/L		1.0	1		09/10/12 17:56	74-87-3	
Cyclohexane	21.9 ug/L		10.0	1		09/10/12 17:56	110-82-7	
1,2-Dibromo-3-chloropropane	15.8 ug/L		5.0	1		09/10/12 17:56	96-12-8	
Dibromochloromethane	17.3 ug/L		1.0	1		09/10/12 17:56	124-48-1	
1,2-Dibromoethane (EDB)	17.1 ug/L		1.0	1		09/10/12 17:56	106-93-4	
1,2-Dichlorobenzene	16.0 ug/L		1.0	1		09/10/12 17:56	95-50-1	
1,3-Dichlorobenzene	15.7 ug/L		1.0	1		09/10/12 17:56	541-73-1	
1,4-Dichlorobenzene	16.2 ug/L		1.0	1		09/10/12 17:56	106-46-7	
Dichlorodifluoromethane	33.5 ug/L		1.0	1		09/10/12 17:56	75-71-8	
1,1-Dichloroethane	20.5 ug/L		1.0	1		09/10/12 17:56	75-34-3	
1,2-Dichloroethane	16.4 ug/L		1.0	1		09/10/12 17:56	107-06-2	
1,1-Dichloroethene	16.3 ug/L		1.0	1		09/10/12 17:56	75-35-4	
cis-1,2-Dichloroethene	1460 ug/L		50.0	50		09/11/12 20:26	156-59-2	
trans-1,2-Dichloroethene	24.5 ug/L		1.0	1		09/10/12 17:56	156-60-5	
1,2-Dichloropropane	16.7 ug/L		1.0	1		09/10/12 17:56	78-87-5	
cis-1,3-Dichloropropene	16.3 ug/L		1.0	1		09/10/12 17:56	10061-01-5	
trans-1,3-Dichloropropene	17.0 ug/L		1.0	1		09/10/12 17:56	10061-02-6	
Ethylbenzene	20.2 ug/L		1.0	1		09/10/12 17:56	100-41-4	
2-Hexanone	22.1 ug/L		10.0	1		09/10/12 17:56	591-78-6	
Isopropylbenzene (Cumene)	21.3 ug/L		1.0	1		09/10/12 17:56	98-82-8	
Methyl acetate	11.4 ug/L		5.0	1		09/10/12 17:56	79-20-9	
Methylcyclohexane	25.0 ug/L		10.0	1		09/10/12 17:56	108-87-2	
Methylene Chloride	17.2 ug/L		1.0	1		09/10/12 17:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	20.2 ug/L		10.0	1		09/10/12 17:56	108-10-1	
Methyl-tert-butyl ether	18.7 ug/L		1.0	1		09/10/12 17:56	1634-04-4	
Naphthalene	15.0 ug/L		2.0	1		09/10/12 17:56	91-20-3	
Styrene	20.2 ug/L		1.0	1		09/10/12 17:56	100-42-5	
1,1,2,2-Tetrachloroethane	15.8 ug/L		1.0	1		09/10/12 17:56	79-34-5	
Tetrachloroethene	17.4 ug/L		1.0	1		09/10/12 17:56	127-18-4	
Toluene	20.8 ug/L		1.0	1		09/10/12 17:56	108-88-3	
1,2,4-Trichlorobenzene	15.0 ug/L		1.0	1		09/10/12 17:56	120-82-1	
1,1,1-Trichloroethane	16.5 ug/L		1.0	1		09/10/12 17:56	71-55-6	
1,1,2-Trichloroethane	17.2 ug/L		1.0	1		09/10/12 17:56	79-00-5	
Trichloroethene	39.1 ug/L		1.0	1		09/10/12 17:56	79-01-6	
Trichlorofluoromethane	32.8 ug/L		1.0	1		09/10/12 17:56	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		50.0	1		09/10/12 17:56	76-13-1	

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY; 4507-34

Pace Project No.: 3076815

Sample: MW-25B MS		Lab ID: 3076815002	Collected: 09/05/12 17:35	Received: 09/07/12 09:25	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Vinyl chloride	2190	ug/L	50.0	50		09/11/12 20:26	75-01-4	
Xylene (Total)	78.8	ug/L	3.0	1		09/10/12 17:56	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	89	%	70-130	1		09/10/12 17:56	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		09/10/12 17:56	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		09/10/12 17:56	2037-26-5	

ANALYTICAL RESULTS

Project: EPT Ithaca, NY; 4507-34

Pace Project No.: 3076815

Sample: MW-25B MSD		Lab ID: 3076815003	Collected: 09/05/12 17:35	Received: 09/07/12 09:25	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	52.6 ug/L		10.0	1		09/10/12 18:23	67-64-1	
Benzene	19.7 ug/L		1.0	1		09/10/12 18:23	71-43-2	
Bromodichloromethane	18.2 ug/L		1.0	1		09/10/12 18:23	75-27-4	
Bromoform	16.4 ug/L		1.0	1		09/10/12 18:23	75-25-2	
Bromomethane	8.3 ug/L		1.0	1		09/10/12 18:23	74-83-9	
2-Butanone (MEK)	20.4 ug/L		10.0	1		09/10/12 18:23	78-93-3	
Carbon disulfide	17.8 ug/L		1.0	1		09/10/12 18:23	75-15-0	
Carbon tetrachloride	16.6 ug/L		1.0	1		09/10/12 18:23	56-23-5	
Chlorobenzene	17.8 ug/L		1.0	1		09/10/12 18:23	108-90-7	
Chloroethane	27.1 ug/L		1.0	1		09/10/12 18:23	75-00-3	
Chloroform	16.4 ug/L		1.0	1		09/10/12 18:23	67-66-3	
Chloromethane	17.7 ug/L		1.0	1		09/10/12 18:23	74-87-3	
Cyclohexane	20.3 ug/L		10.0	1		09/10/12 18:23	110-82-7	
1,2-Dibromo-3-chloropropane	15.9 ug/L		5.0	1		09/10/12 18:23	96-12-8	
Dibromochloromethane	18.5 ug/L		1.0	1		09/10/12 18:23	124-48-1	
1,2-Dibromoethane (EDB)	17.2 ug/L		1.0	1		09/10/12 18:23	106-93-4	
1,2-Dichlorobenzene	15.8 ug/L		1.0	1		09/10/12 18:23	95-50-1	
1,3-Dichlorobenzene	16.0 ug/L		1.0	1		09/10/12 18:23	541-73-1	
1,4-Dichlorobenzene	16.5 ug/L		1.0	1		09/10/12 18:23	106-46-7	
Dichlorodifluoromethane	37.8 ug/L		1.0	1		09/10/12 18:23	75-71-8	
1,1-Dichloroethane	20.2 ug/L		1.0	1		09/10/12 18:23	75-34-3	
1,2-Dichloroethane	16.6 ug/L		1.0	1		09/10/12 18:23	107-06-2	
1,1-Dichloroethene	17.1 ug/L		1.0	1		09/10/12 18:23	75-35-4	
cis-1,2-Dichloroethene	1460 ug/L		50.0	50		09/11/12 20:53	156-59-2	
trans-1,2-Dichloroethene	24.7 ug/L		1.0	1		09/10/12 18:23	156-60-5	
1,2-Dichloropropane	18.2 ug/L		1.0	1		09/10/12 18:23	78-87-5	
cis-1,3-Dichloropropene	18.0 ug/L		1.0	1		09/10/12 18:23	10061-01-5	
trans-1,3-Dichloropropene	16.1 ug/L		1.0	1		09/10/12 18:23	10061-02-6	
Ethylbenzene	21.5 ug/L		1.0	1		09/10/12 18:23	100-41-4	
2-Hexanone	22.1 ug/L		10.0	1		09/10/12 18:23	591-78-6	
Isopropylbenzene (Cumene)	21.7 ug/L		1.0	1		09/10/12 18:23	98-82-8	
Methyl acetate	13.7 ug/L		5.0	1		09/10/12 18:23	79-20-9	
Methylcyclohexane	25.3 ug/L		10.0	1		09/10/12 18:23	108-87-2	
Methylene Chloride	17.1 ug/L		1.0	1		09/10/12 18:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	19.9 ug/L		10.0	1		09/10/12 18:23	108-10-1	
Methyl-tert-butyl ether	17.0 ug/L		1.0	1		09/10/12 18:23	1634-04-4	
Naphthalene	15.3 ug/L		2.0	1		09/10/12 18:23	91-20-3	
Styrene	22.0 ug/L		1.0	1		09/10/12 18:23	100-42-5	
1,1,2,2-Tetrachloroethane	16.2 ug/L		1.0	1		09/10/12 18:23	79-34-5	
Tetrachloroethene	17.9 ug/L		1.0	1		09/10/12 18:23	127-18-4	
Toluene	22.4 ug/L		1.0	1		09/10/12 18:23	108-88-3	
1,2,4-Trichlorobenzene	15.8 ug/L		1.0	1		09/10/12 18:23	120-82-1	
1,1,1-Trichloroethane	17.1 ug/L		1.0	1		09/10/12 18:23	71-55-6	
1,1,2-Trichloroethane	18.5 ug/L		1.0	1		09/10/12 18:23	79-00-5	
Trichloroethene	43.1 ug/L		1.0	1		09/10/12 18:23	79-01-6	
Trichlorofluoromethane	31.9 ug/L		1.0	1		09/10/12 18:23	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		50.0	1		09/10/12 18:23	76-13-1	

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY; 4507-34

Pace Project No.: 3076815

Sample: MW-25B MSD		Lab ID: 3076815003	Collected: 09/05/12 17:35	Received: 09/07/12 09:25	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Vinyl chloride	2230	ug/L	50.0	50		09/11/12 20:53	75-01-4	
Xylene (Total)	83.8	ug/L	3.0	1		09/10/12 18:23	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	91	%	70-130	1		09/10/12 18:23	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		09/10/12 18:23	17060-07-0	
Toluene-d8 (S)	105	%	70-130	1		09/10/12 18:23	2037-26-5	

ANALYTICAL RESULTS

Project: EPT Ithaca, NY; 4507-34

Pace Project No.: 3076815

Sample: MW-100		Lab ID: 3076815004	Collected: 09/05/12 13:00	Received: 09/07/12 09:25	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	44.3	ug/L	10.0	1		09/10/12 18:49	67-64-1	
Benzene	ND	ug/L	1.0	1		09/10/12 18:49	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		09/10/12 18:49	75-27-4	
Bromoform	ND	ug/L	1.0	1		09/10/12 18:49	75-25-2	
Bromomethane	ND	ug/L	1.0	1		09/10/12 18:49	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/10/12 18:49	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		09/10/12 18:49	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		09/10/12 18:49	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		09/10/12 18:49	108-90-7	
Chloroethane	11.1	ug/L	1.0	1		09/10/12 18:49	75-00-3	
Chloroform	ND	ug/L	1.0	1		09/10/12 18:49	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/10/12 18:49	74-87-3	
Cyclohexane	ND	ug/L	10.0	1		09/10/12 18:49	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		09/10/12 18:49	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		09/10/12 18:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/10/12 18:49	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/10/12 18:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/10/12 18:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/10/12 18:49	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/10/12 18:49	75-71-8	
1,1-Dichloroethane	4.3	ug/L	1.0	1		09/10/12 18:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/10/12 18:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		09/10/12 18:49	75-35-4	
cis-1,2-Dichloroethene	724	ug/L	50.0	50		09/11/12 19:34	156-59-2	
trans-1,2-Dichloroethene	8.5	ug/L	1.0	1		09/10/12 18:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/10/12 18:49	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/10/12 18:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/10/12 18:49	10061-02-6	
Ethylbenzene	2.8	ug/L	1.0	1		09/10/12 18:49	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		09/10/12 18:49	591-78-6	
Isopropylbenzene (Cumene)	4.8	ug/L	1.0	1		09/10/12 18:49	98-82-8	
Methyl acetate	ND	ug/L	5.0	1		09/10/12 18:49	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		09/10/12 18:49	108-87-2	
Methylene Chloride	ND	ug/L	1.0	1		09/10/12 18:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/10/12 18:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/10/12 18:49	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		09/10/12 18:49	91-20-3	
Styrene	ND	ug/L	1.0	1		09/10/12 18:49	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/10/12 18:49	79-34-5	
Tetrachloroethene	1.1	ug/L	1.0	1		09/10/12 18:49	127-18-4	
Toluene	3.9	ug/L	1.0	1		09/10/12 18:49	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/10/12 18:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/10/12 18:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/10/12 18:49	79-00-5	
Trichloroethene	23.5	ug/L	1.0	1		09/10/12 18:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/10/12 18:49	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	50.0	1		09/10/12 18:49	76-13-1	

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY; 4507-34

Pace Project No.: 3076815

Sample: MW-100		Lab ID: 3076815004		Collected: 09/05/12 13:00		Received: 09/07/12 09:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV		Analytical Method: EPA 8260							
Vinyl chloride	1030	ug/L	50.0	50		09/11/12 19:34	75-01-4		
Xylene (Total)	26.1	ug/L	3.0	1		09/10/12 18:49	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130	1		09/10/12 18:49	460-00-4		
1,2-Dichloroethane-d4 (S)	106	%	70-130	1		09/10/12 18:49	17060-07-0		
Toluene-d8 (S)	97	%	70-130	1		09/10/12 18:49	2037-26-5		

ANALYTICAL RESULTS

Project: EPT Ithaca, NY; 4507-34

Pace Project No.: 3076815

Sample: TRIP BLANK		Lab ID: 3076815005	Collected: 09/05/12 00:01	Received: 09/07/12 09:25	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		10.0	1		09/10/12 11:21	67-64-1	
Benzene	ND ug/L		1.0	1		09/10/12 11:21	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		09/10/12 11:21	75-27-4	
Bromoform	ND ug/L		1.0	1		09/10/12 11:21	75-25-2	
Bromomethane	ND ug/L		1.0	1		09/10/12 11:21	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		09/10/12 11:21	78-93-3	
Carbon disulfide	ND ug/L		1.0	1		09/10/12 11:21	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		09/10/12 11:21	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		09/10/12 11:21	108-90-7	
Chloroethane	ND ug/L		1.0	1		09/10/12 11:21	75-00-3	
Chloroform	ND ug/L		1.0	1		09/10/12 11:21	67-66-3	
Chloromethane	ND ug/L		1.0	1		09/10/12 11:21	74-87-3	
Cyclohexane	ND ug/L		10.0	1		09/10/12 11:21	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		09/10/12 11:21	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		09/10/12 11:21	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		09/10/12 11:21	106-93-4	
1,2-Dichlorobenzene	ND ug/L		1.0	1		09/10/12 11:21	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		09/10/12 11:21	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		09/10/12 11:21	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		09/10/12 11:21	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		09/10/12 11:21	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		09/10/12 11:21	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		09/10/12 11:21	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		09/10/12 11:21	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		09/10/12 11:21	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		09/10/12 11:21	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		09/10/12 11:21	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		09/10/12 11:21	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		09/10/12 11:21	100-41-4	
2-Hexanone	ND ug/L		10.0	1		09/10/12 11:21	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		09/10/12 11:21	98-82-8	
Methyl acetate	ND ug/L		5.0	1		09/10/12 11:21	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		09/10/12 11:21	108-87-2	
Methylene Chloride	ND ug/L		1.0	1		09/10/12 11:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		09/10/12 11:21	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		09/10/12 11:21	1634-04-4	
Naphthalene	ND ug/L		2.0	1		09/10/12 11:21	91-20-3	
Styrene	ND ug/L		1.0	1		09/10/12 11:21	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		09/10/12 11:21	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		09/10/12 11:21	127-18-4	
Toluene	ND ug/L		1.0	1		09/10/12 11:21	108-88-3	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		09/10/12 11:21	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		09/10/12 11:21	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		09/10/12 11:21	79-00-5	
Trichloroethene	ND ug/L		1.0	1		09/10/12 11:21	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		09/10/12 11:21	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		50.0	1		09/10/12 11:21	76-13-1	

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY; 4507-34

Pace Project No.: 3076815

Sample: TRIP BLANK		Lab ID: 3076815005		Collected: 09/05/12 00:01		Received: 09/07/12 09:25		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Vinyl chloride		ND	ug/L	1.0	1		09/10/12 11:21	75-01-4	
Xylene (Total)		ND	ug/L	3.0	1		09/10/12 11:21	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)		102	%	70-130	1		09/10/12 11:21	460-00-4	
1,2-Dichloroethane-d4 (S)		110	%	70-130	1		09/10/12 11:21	17060-07-0	
Toluene-d8 (S)		100	%	70-130	1		09/10/12 11:21	2037-26-5	

ANALYTICAL RESULTS

Project: EPT Ithaca, NY; 4507-34

Pace Project No.: 3076815

Sample: MW-10B		Lab ID: 3076815006	Collected: 09/05/12 18:55	Received: 09/07/12 09:25	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	10.0	1		09/10/12 19:15	67-64-1	
Benzene	ND	ug/L	1.0	1		09/10/12 19:15	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		09/10/12 19:15	75-27-4	
Bromoform	ND	ug/L	1.0	1		09/10/12 19:15	75-25-2	
Bromomethane	ND	ug/L	1.0	1		09/10/12 19:15	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/10/12 19:15	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		09/10/12 19:15	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		09/10/12 19:15	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		09/10/12 19:15	108-90-7	
Chloroethane	8.8	ug/L	1.0	1		09/10/12 19:15	75-00-3	IS
Chloroform	ND	ug/L	1.0	1		09/10/12 19:15	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/10/12 19:15	74-87-3	
Cyclohexane	ND	ug/L	10.0	1		09/10/12 19:15	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		09/10/12 19:15	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		09/10/12 19:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/10/12 19:15	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/10/12 19:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/10/12 19:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/10/12 19:15	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/10/12 19:15	75-71-8	
1,1-Dichloroethane	302	ug/L	1.0	1		09/10/12 19:15	75-34-3	IS
1,2-Dichloroethane	ND	ug/L	1.0	1		09/10/12 19:15	107-06-2	
1,1-Dichloroethene	244	ug/L	1.0	1		09/10/12 19:15	75-35-4	IS
cis-1,2-Dichloroethene	57800	ug/L	200	200		09/11/12 18:41	156-59-2	
trans-1,2-Dichloroethene	2680	ug/L	1.0	1		09/10/12 19:15	156-60-5	1c,E,IS
1,2-Dichloropropane	ND	ug/L	1.0	1		09/10/12 19:15	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/10/12 19:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/10/12 19:15	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		09/10/12 19:15	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		09/10/12 19:15	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/10/12 19:15	98-82-8	
Methyl acetate	ND	ug/L	5.0	1		09/10/12 19:15	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		09/10/12 19:15	108-87-2	
Methylene Chloride	ND	ug/L	1.0	1		09/10/12 19:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/10/12 19:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/10/12 19:15	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		09/10/12 19:15	91-20-3	
Styrene	ND	ug/L	1.0	1		09/10/12 19:15	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/10/12 19:15	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		09/10/12 19:15	127-18-4	
Toluene	2.9	ug/L	1.0	1		09/10/12 19:15	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/10/12 19:15	120-82-1	
1,1,1-Trichloroethane	17.4	ug/L	1.0	1		09/10/12 19:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/10/12 19:15	79-00-5	
Trichloroethene	53.8	ug/L	1.0	1		09/10/12 19:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/10/12 19:15	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	50.0	1		09/10/12 19:15	76-13-1	

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY; 4507-34

Pace Project No.: 3076815

Sample: MW-10B		Lab ID: 3076815006		Collected: 09/05/12 18:55		Received: 09/07/12 09:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV		Analytical Method: EPA 8260							
Vinyl chloride	35500	ug/L	200	200		09/11/12 18:41	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		09/10/12 19:15	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	80	%	70-130	1		09/10/12 19:15	460-00-4		
1,2-Dichloroethane-d4 (S)	113	%	70-130	1		09/10/12 19:15	17060-07-0		
Toluene-d8 (S)	74	%	70-130	1		09/10/12 19:15	2037-26-5		

ANALYTICAL RESULTS

Project: EPT Ithaca, NY; 4507-34

Pace Project No.: 3076815

Sample: EB-090512		Lab ID: 3076815007	Collected: 09/05/12 19:15	Received: 09/07/12 09:25	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	12.4 ug/L		10.0	1		09/10/12 12:14	67-64-1	
Benzene	ND ug/L		1.0	1		09/10/12 12:14	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		09/10/12 12:14	75-27-4	
Bromoform	ND ug/L		1.0	1		09/10/12 12:14	75-25-2	
Bromomethane	ND ug/L		1.0	1		09/10/12 12:14	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		09/10/12 12:14	78-93-3	
Carbon disulfide	ND ug/L		1.0	1		09/10/12 12:14	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		09/10/12 12:14	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		09/10/12 12:14	108-90-7	
Chloroethane	ND ug/L		1.0	1		09/10/12 12:14	75-00-3	
Chloroform	ND ug/L		1.0	1		09/10/12 12:14	67-66-3	
Chloromethane	ND ug/L		1.0	1		09/10/12 12:14	74-87-3	
Cyclohexane	ND ug/L		10.0	1		09/10/12 12:14	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		09/10/12 12:14	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		09/10/12 12:14	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		09/10/12 12:14	106-93-4	
1,2-Dichlorobenzene	ND ug/L		1.0	1		09/10/12 12:14	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		09/10/12 12:14	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		09/10/12 12:14	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		09/10/12 12:14	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		09/10/12 12:14	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		09/10/12 12:14	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		09/10/12 12:14	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		09/10/12 12:14	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		09/10/12 12:14	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		09/10/12 12:14	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		09/10/12 12:14	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		09/10/12 12:14	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		09/10/12 12:14	100-41-4	
2-Hexanone	ND ug/L		10.0	1		09/10/12 12:14	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		09/10/12 12:14	98-82-8	
Methyl acetate	ND ug/L		5.0	1		09/10/12 12:14	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		09/10/12 12:14	108-87-2	
Methylene Chloride	ND ug/L		1.0	1		09/10/12 12:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		09/10/12 12:14	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		09/10/12 12:14	1634-04-4	
Naphthalene	ND ug/L		2.0	1		09/10/12 12:14	91-20-3	
Styrene	ND ug/L		1.0	1		09/10/12 12:14	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		09/10/12 12:14	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		09/10/12 12:14	127-18-4	
Toluene	ND ug/L		1.0	1		09/10/12 12:14	108-88-3	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		09/10/12 12:14	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		09/10/12 12:14	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		09/10/12 12:14	79-00-5	
Trichloroethene	ND ug/L		1.0	1		09/10/12 12:14	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		09/10/12 12:14	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		50.0	1		09/10/12 12:14	76-13-1	

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY; 4507-34

Pace Project No.: 3076815

Sample: EB-090512		Lab ID: 3076815007		Collected: 09/05/12 19:15		Received: 09/07/12 09:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV		Analytical Method: EPA 8260							
Vinyl chloride	ND	ug/L	1.0	1		09/10/12 12:14	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		09/10/12 12:14	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130	1		09/10/12 12:14	460-00-4		
1,2-Dichloroethane-d4 (S)	111	%	70-130	1		09/10/12 12:14	17060-07-0		
Toluene-d8 (S)	97	%	70-130	1		09/10/12 12:14	2037-26-5		

ANALYTICAL RESULTS

Project: EPT Ithaca, NY; 4507-34

Pace Project No.: 3076815

Sample: MW-24B		Lab ID: 3076815008	Collected: 09/06/12 08:25	Received: 09/07/12 09:25	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	10.0	1		09/11/12 12:32	67-64-1	
Benzene	ND	ug/L	1.0	1		09/11/12 12:32	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		09/11/12 12:32	75-27-4	
Bromoform	ND	ug/L	1.0	1		09/11/12 12:32	75-25-2	
Bromomethane	ND	ug/L	1.0	1		09/11/12 12:32	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/11/12 12:32	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		09/11/12 12:32	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		09/11/12 12:32	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		09/11/12 12:32	108-90-7	
Chloroethane	ND	ug/L	1.0	1		09/11/12 12:32	75-00-3	
Chloroform	ND	ug/L	1.0	1		09/11/12 12:32	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/11/12 12:32	74-87-3	
Cyclohexane	ND	ug/L	10.0	1		09/11/12 12:32	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		09/11/12 12:32	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		09/11/12 12:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/11/12 12:32	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/11/12 12:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/11/12 12:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/11/12 12:32	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/11/12 12:32	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		09/11/12 12:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/11/12 12:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		09/11/12 12:32	75-35-4	
cis-1,2-Dichloroethene	107	ug/L	1.0	1		09/11/12 12:32	156-59-2	
trans-1,2-Dichloroethene	1.5	ug/L	1.0	1		09/11/12 12:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/11/12 12:32	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/11/12 12:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/11/12 12:32	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		09/11/12 12:32	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		09/11/12 12:32	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/11/12 12:32	98-82-8	
Methyl acetate	ND	ug/L	5.0	1		09/11/12 12:32	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		09/11/12 12:32	108-87-2	
Methylene Chloride	ND	ug/L	1.0	1		09/11/12 12:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/11/12 12:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/11/12 12:32	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		09/11/12 12:32	91-20-3	
Styrene	ND	ug/L	1.0	1		09/11/12 12:32	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/11/12 12:32	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		09/11/12 12:32	127-18-4	
Toluene	ND	ug/L	1.0	1		09/11/12 12:32	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/11/12 12:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/11/12 12:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/11/12 12:32	79-00-5	
Trichloroethene	6.3	ug/L	1.0	1		09/11/12 12:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/11/12 12:32	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	50.0	1		09/11/12 12:32	76-13-1	

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY; 4507-34

Pace Project No.: 3076815

Sample: MW-24B		Lab ID: 3076815008	Collected: 09/06/12 08:25	Received: 09/07/12 09:25	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Vinyl chloride	73.0	ug/L	1.0	1		09/11/12 12:32	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/11/12 12:32	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	92	%	70-130	1		09/11/12 12:32	460-00-4	
1,2-Dichloroethane-d4 (S)	117	%	70-130	1		09/11/12 12:32	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		09/11/12 12:32	2037-26-5	

ANALYTICAL RESULTS

Project: EPT Ithaca, NY; 4507-34

Pace Project No.: 3076815

Sample: MW-26B		Lab ID: 3076815009	Collected: 09/06/12 09:45	Received: 09/07/12 09:25	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	35.0	ug/L	10.0	1		09/10/12 20:08	67-64-1	
Benzene	ND	ug/L	1.0	1		09/10/12 20:08	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		09/10/12 20:08	75-27-4	
Bromoform	ND	ug/L	1.0	1		09/10/12 20:08	75-25-2	
Bromomethane	ND	ug/L	1.0	1		09/10/12 20:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/10/12 20:08	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		09/10/12 20:08	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		09/10/12 20:08	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		09/10/12 20:08	108-90-7	
Chloroethane	ND	ug/L	1.0	1		09/10/12 20:08	75-00-3	
Chloroform	ND	ug/L	1.0	1		09/10/12 20:08	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/10/12 20:08	74-87-3	
Cyclohexane	ND	ug/L	10.0	1		09/10/12 20:08	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		09/10/12 20:08	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		09/10/12 20:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/10/12 20:08	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/10/12 20:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/10/12 20:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/10/12 20:08	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/10/12 20:08	75-71-8	
1,1-Dichloroethane	12.8	ug/L	1.0	1		09/10/12 20:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/10/12 20:08	107-06-2	
1,1-Dichloroethene	5.1	ug/L	1.0	1		09/10/12 20:08	75-35-4	
cis-1,2-Dichloroethene	6160	ug/L	100	100		09/11/12 19:07	156-59-2	
trans-1,2-Dichloroethene	117	ug/L	1.0	1		09/10/12 20:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/10/12 20:08	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/10/12 20:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/10/12 20:08	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		09/10/12 20:08	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		09/10/12 20:08	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/10/12 20:08	98-82-8	
Methyl acetate	ND	ug/L	5.0	1		09/10/12 20:08	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		09/10/12 20:08	108-87-2	
Methylene Chloride	ND	ug/L	1.0	1		09/10/12 20:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/10/12 20:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/10/12 20:08	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		09/10/12 20:08	91-20-3	
Styrene	ND	ug/L	1.0	1		09/10/12 20:08	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/10/12 20:08	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		09/10/12 20:08	127-18-4	
Toluene	1.2	ug/L	1.0	1		09/10/12 20:08	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/10/12 20:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/10/12 20:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/10/12 20:08	79-00-5	
Trichloroethene	47.4	ug/L	1.0	1		09/10/12 20:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/10/12 20:08	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	50.0	1		09/10/12 20:08	76-13-1	

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY; 4507-34

Pace Project No.: 3076815

Sample: MW-26B		Lab ID: 3076815009	Collected: 09/06/12 09:45	Received: 09/07/12 09:25	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Vinyl chloride	3930	ug/L	100	100		09/11/12 19:07	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/10/12 20:08	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		09/10/12 20:08	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130	1		09/10/12 20:08	17060-07-0	
Toluene-d8 (S)	106	%	70-130	1		09/10/12 20:08	2037-26-5	

QUALITY CONTROL DATA

Project: EPT Ithaca, NY; 4507-34

Pace Project No.: 3076815

QC Batch:	MSV/13885	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples: 3076815001, 3076815002, 3076815003, 3076815004, 3076815005, 3076815006, 3076815007, 3076815009			

METHOD BLANK:	484969	Matrix:	Water
Associated Lab Samples: 3076815001, 3076815002, 3076815003, 3076815004, 3076815005, 3076815006, 3076815007, 3076815009			

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	09/10/12 10:55	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	09/10/12 10:55	
1,1,2-Trichloroethane	ug/L	ND	1.0	09/10/12 10:55	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50.0	09/10/12 10:55	
1,1-Dichloroethane	ug/L	ND	1.0	09/10/12 10:55	
1,1-Dichloroethene	ug/L	ND	1.0	09/10/12 10:55	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	09/10/12 10:55	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	09/10/12 10:55	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	09/10/12 10:55	
1,2-Dichlorobenzene	ug/L	ND	1.0	09/10/12 10:55	
1,2-Dichloroethane	ug/L	ND	1.0	09/10/12 10:55	
1,2-Dichloropropane	ug/L	ND	1.0	09/10/12 10:55	
1,3-Dichlorobenzene	ug/L	ND	1.0	09/10/12 10:55	
1,4-Dichlorobenzene	ug/L	ND	1.0	09/10/12 10:55	
2-Butanone (MEK)	ug/L	ND	10.0	09/10/12 10:55	
2-Hexanone	ug/L	ND	10.0	09/10/12 10:55	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	09/10/12 10:55	
Acetone	ug/L	ND	10.0	09/10/12 10:55	
Benzene	ug/L	ND	1.0	09/10/12 10:55	
Bromodichloromethane	ug/L	ND	1.0	09/10/12 10:55	
Bromoform	ug/L	ND	1.0	09/10/12 10:55	
Bromomethane	ug/L	ND	1.0	09/10/12 10:55	
Carbon disulfide	ug/L	ND	1.0	09/10/12 10:55	
Carbon tetrachloride	ug/L	ND	1.0	09/10/12 10:55	
Chlorobenzene	ug/L	ND	1.0	09/10/12 10:55	
Chloroethane	ug/L	ND	1.0	09/10/12 10:55	
Chloroform	ug/L	ND	1.0	09/10/12 10:55	
Chloromethane	ug/L	ND	1.0	09/10/12 10:55	
cis-1,2-Dichloroethene	ug/L	ND	1.0	09/10/12 10:55	
cis-1,3-Dichloropropene	ug/L	ND	1.0	09/10/12 10:55	
Cyclohexane	ug/L	ND	10.0	09/10/12 10:55	
Dibromochloromethane	ug/L	ND	1.0	09/10/12 10:55	
Dichlorodifluoromethane	ug/L	ND	1.0	09/10/12 10:55	
Ethylbenzene	ug/L	ND	1.0	09/10/12 10:55	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	09/10/12 10:55	
Methyl acetate	ug/L	ND	5.0	09/10/12 10:55	
Methyl-tert-butyl ether	ug/L	ND	1.0	09/10/12 10:55	
Methylcyclohexane	ug/L	ND	10.0	09/10/12 10:55	
Methylene Chloride	ug/L	ND	1.0	09/10/12 10:55	
Naphthalene	ug/L	ND	2.0	09/10/12 10:55	
Styrene	ug/L	ND	1.0	09/10/12 10:55	
Tetrachloroethene	ug/L	ND	1.0	09/10/12 10:55	
Toluene	ug/L	ND	1.0	09/10/12 10:55	

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QUALITY CONTROL DATA

Project: EPT Ithaca, NY; 4507-34

Pace Project No.: 3076815

METHOD BLANK: 484969

Matrix: Water

Associated Lab Samples: 3076815001, 3076815002, 3076815003, 3076815004, 3076815005, 3076815006, 3076815007, 3076815009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	ND	1.0	09/10/12 10:55	
trans-1,3-Dichloropropene	ug/L	ND	1.0	09/10/12 10:55	
Trichloroethene	ug/L	ND	1.0	09/10/12 10:55	
Trichlorofluoromethane	ug/L	ND	1.0	09/10/12 10:55	
Vinyl chloride	ug/L	ND	1.0	09/10/12 10:55	
Xylene (Total)	ug/L	ND	3.0	09/10/12 10:55	
1,2-Dichloroethane-d4 (S)	%	105	70-130	09/10/12 10:55	
4-Bromofluorobenzene (S)	%	101	70-130	09/10/12 10:55	
Toluene-d8 (S)	%	101	70-130	09/10/12 10:55	

LABORATORY CONTROL SAMPLE: 484970

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	14.1	71	64.3-127	
1,1,2,2-Tetrachloroethane	ug/L	20	15.0	75	64.6-121	
1,1,2-Trichloroethane	ug/L	20	16.6	83	75.6-120	
1,1,2-Trichlorotrifluoroethane	ug/L	20	16.7J	84	34.5-171	
1,1-Dichloroethane	ug/L	20	14.0	70	68.5-122	
1,1-Dichloroethene	ug/L	20	13.3	67	57.1-120	
1,2,4-Trichlorobenzene	ug/L	20	16.6	83	67.6-129	
1,2-Dibromo-3-chloropropane	ug/L	20	15.6	78	56.7-131	
1,2-Dibromoethane (EDB)	ug/L	20	16.0	80	73.6-120	
1,2-Dichlorobenzene	ug/L	20	15.7	78	69.6-120	
1,2-Dichloroethane	ug/L	20	14.4	72	60.5-133	
1,2-Dichloropropane	ug/L	20	15.6	78	71-120	
1,3-Dichlorobenzene	ug/L	20	15.4	77	68.4-121	
1,4-Dichlorobenzene	ug/L	20	15.6	78	68.5-123	
2-Butanone (MEK)	ug/L	20	13.1	66	55.7-138	
2-Hexanone	ug/L	20	21.0	105	67-133	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.1	96	64.5-121	
Acetone	ug/L	20	17.8	89	57.6-168	
Benzene	ug/L	20	16.3	82	69.8-120	
Bromodichloromethane	ug/L	20	16.5	82	66.5-120	
Bromoform	ug/L	20	16.2	81	61.1-120	
Bromomethane	ug/L	20	29.2	146	10.6-200	
Carbon disulfide	ug/L	20	14.7	73	60.2-122	
Carbon tetrachloride	ug/L	20	14.4	72	60.1-127	
Chlorobenzene	ug/L	20	16.1	80	72-120	
Chloroethane	ug/L	20	15.6	78	36.8-142	
Chloroform	ug/L	20	13.9	70	69-122	
Chloromethane	ug/L	20	16.6	83	37.2-129	
cis-1,2-Dichloroethene	ug/L	20	14.1	71	69.5-123	
cis-1,3-Dichloropropene	ug/L	20	17.0	85	74.3-120	
Cyclohexane	ug/L	20	16.3	81	59.4-146	
Dibromochloromethane	ug/L	20	17.3	86	66.1-120	

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QUALITY CONTROL DATA

Project: EPT Ithaca, NY; 4507-34

Pace Project No.: 3076815

LABORATORY CONTROL SAMPLE: 484970

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dichlorodifluoromethane	ug/L	20	26.0	130	14.6-129	L1
Ethylbenzene	ug/L	20	16.6	83	70.9-124	
Isopropylbenzene (Cumene)	ug/L	20	17.0	85	68.3-129	
Methyl acetate	ug/L	20	12.3	61	43.6-200	
Methyl-tert-butyl ether	ug/L	20	16.8	84	66.4-144	
Methylcyclohexane	ug/L	20	21.3	107	62.2-137	
Methylene Chloride	ug/L	20	15.4	77	61.5-125	
Naphthalene	ug/L	20	15.5	78	61-135	
Styrene	ug/L	20	18.9	95	69.9-120	
Tetrachloroethene	ug/L	20	15.2	76	63.4-121	
Toluene	ug/L	20	16.0	80	71.5-120	
trans-1,2-Dichloroethene	ug/L	20	13.5	68	64.1-120	
trans-1,3-Dichloropropene	ug/L	20	16.7	83	71-120	
Trichloroethene	ug/L	20	15.1	76	65.9-120	
Trichlorofluoromethane	ug/L	20	24.1	120	44.8-137	
Vinyl chloride	ug/L	20	18.8	94	51-127	
Xylene (Total)	ug/L	60	49.5	82	70-129	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			103	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 484972 484973

Parameter	Units	3076815001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	16.5	17.1	82	85	64.3-127	4	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	15.8	16.2	79	81	64.6-121	3	
1,1,2-Trichloroethane	ug/L	ND	20	20	17.2	18.5	86	92	75.6-120	7	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20	22.1J	21J	111	105	34.5-171		
1,1-Dichloroethane	ug/L	4.4	20	20	20.5	20.2	81	79	68.5-122	2	
1,1-Dichloroethene	ug/L	ND	20	20	16.3	17.1	82	86	57.1-120	5	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	15.0	15.8	75	79	67.6-129	5	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	15.8	15.9	79	79	56.7-131	.6	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	17.1	17.2	85	86	73.6-120	.6	
1,2-Dichlorobenzene	ug/L	ND	20	20	16.0	15.8	80	79	69.6-120	.9	
1,2-Dichloroethane	ug/L	ND	20	20	16.4	16.6	82	83	60.5-133	1	
1,2-Dichloropropane	ug/L	ND	20	20	16.7	18.2	83	91	71-120	9	
1,3-Dichlorobenzene	ug/L	ND	20	20	15.7	16.0	79	80	68.4-121	1	
1,4-Dichlorobenzene	ug/L	ND	20	20	16.2	16.5	81	82	68.5-123	2	
2-Butanone (MEK)	ug/L	ND	20	20	21.8	20.4	109	102	55.7-138	7	
2-Hexanone	ug/L	ND	20	20	22.1	22.1	111	110	67-133	.2	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	20.2	19.9	101	100	64.5-121	1	
Acetone	ug/L	45.4	20	20	68.1	52.6	114	36	57.6-168	26	M0
Benzene	ug/L	ND	20	20	18.3	19.7	92	98	69.8-120	7	
Bromodichloromethane	ug/L	ND	20	20	17.0	18.2	85	91	66.5-120	7	
Bromoform	ug/L	ND	20	20	15.8	16.4	79	82	61.1-120	4	
Bromomethane	ug/L	ND	20	20	6.0	8.3	30	41	10.6-200	32	M0,R1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: EPT Ithaca, NY; 4507-34

Pace Project No.: 3076815

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 484972 484973											
Parameter	Units	3076815001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Carbon disulfide	ug/L	ND	20	20	20.2	17.8	101	89	60.2-122	12	
Carbon tetrachloride	ug/L	ND	20	20	16.2	16.6	81	83	60.1-127	3	
Chlorobenzene	ug/L	ND	20	20	16.9	17.8	85	89	72-120	5	
Chloroethane	ug/L	16.6	20	20	24.2	27.1	38	52	36.8-142	11	
Chloroform	ug/L	ND	20	20	16.3	16.4	78	78	69-122	.4	
Chloromethane	ug/L	ND	20	20	17.1	17.7	85	89	37.2-129	4	
cis-1,2-Dichloroethene	ug/L	774	1000	1000	1460	1460	69	68	69.5-123	.3	M0
cis-1,3-Dichloropropene	ug/L	ND	20	20	16.3	18.0	82	90	74.3-120	10	
Cyclohexane	ug/L	ND	20	20	21.9	20.3	110	101	59.4-146	8	
Dibromochloromethane	ug/L	ND	20	20	17.3	18.5	86	93	66.1-120	7	
Dichlorodifluoromethane	ug/L	ND	20	20	33.5	37.8	168	189	14.6-129	12	M0
Ethylbenzene	ug/L	2.8	20	20	20.2	21.5	87	94	70.9-124	6	
Isopropylbenzene (Cumene)	ug/L	4.0	20	20	21.3	21.7	87	88	68.3-129	2	
Methyl acetate	ug/L	ND	20	20	11.4	13.7	57	68	43.6-200	18	
Methyl-tert-butyl ether	ug/L	ND	20	20	18.7	17.0	93	85	66.4-144	10	
Methylcyclohexane	ug/L	ND	20	20	25.0	25.3	125	126	62.2-137	1	
Methylene Chloride	ug/L	ND	20	20	17.2	17.1	86	85	61.5-125	1	
Naphthalene	ug/L	ND	20	20	15.0	15.3	70	72	61-135	2	
Styrene	ug/L	ND	20	20	20.2	22.0	101	110	69.9-120	9	
Tetrachloroethene	ug/L	1.2	20	20	17.4	17.9	81	84	63.4-121	3	
Toluene	ug/L	4.1	20	20	20.8	22.4	83	91	71.5-120	7	
trans-1,2-Dichloroethene	ug/L	10.5	20	20	24.5	24.7	70	71	64.1-120	.8	
trans-1,3-Dichloropropene	ug/L	ND	20	20	17.0	16.1	85	81	71-120	6	
Trichloroethene	ug/L	24.3	20	20	39.1	43.1	74	94	65.9-120	10	
Trichlorofluoromethane	ug/L	ND	20	20	32.8	31.9	164	159	44.8-137	3	M0
Vinyl chloride	ug/L	1100	1000	1000	2190	2230	109	113	51-127	2	
Xylene (Total)	ug/L	25.1	60	60	78.8	83.8	90	98	70-129	6	
1,2-Dichloroethane-d4 (S)	%						99	99	70-130		
4-Bromofluorobenzene (S)	%						89	91	70-130		
Toluene-d8 (S)	%						100	105	70-130		

QUALITY CONTROL DATA

Project: EPT Ithaca, NY; 4507-34

Pace Project No.: 3076815

QC Batch:	MSV/13896	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	3076815008		

METHOD BLANK: 485340 Matrix: Water

Associated Lab Samples: 3076815008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	09/11/12 12:06	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	09/11/12 12:06	
1,1,2-Trichloroethane	ug/L	ND	1.0	09/11/12 12:06	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50.0	09/11/12 12:06	
1,1-Dichloroethane	ug/L	ND	1.0	09/11/12 12:06	
1,1-Dichloroethene	ug/L	ND	1.0	09/11/12 12:06	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	09/11/12 12:06	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	09/11/12 12:06	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	09/11/12 12:06	
1,2-Dichlorobenzene	ug/L	ND	1.0	09/11/12 12:06	
1,2-Dichloroethane	ug/L	ND	1.0	09/11/12 12:06	
1,2-Dichloropropane	ug/L	ND	1.0	09/11/12 12:06	
1,3-Dichlorobenzene	ug/L	ND	1.0	09/11/12 12:06	
1,4-Dichlorobenzene	ug/L	ND	1.0	09/11/12 12:06	
2-Butanone (MEK)	ug/L	ND	10.0	09/11/12 12:06	
2-Hexanone	ug/L	ND	10.0	09/11/12 12:06	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	09/11/12 12:06	
Acetone	ug/L	ND	10.0	09/11/12 12:06	
Benzene	ug/L	ND	1.0	09/11/12 12:06	
Bromodichloromethane	ug/L	ND	1.0	09/11/12 12:06	
Bromoform	ug/L	ND	1.0	09/11/12 12:06	
Bromomethane	ug/L	ND	1.0	09/11/12 12:06	
Carbon disulfide	ug/L	ND	1.0	09/11/12 12:06	
Carbon tetrachloride	ug/L	ND	1.0	09/11/12 12:06	
Chlorobenzene	ug/L	ND	1.0	09/11/12 12:06	
Chloroethane	ug/L	ND	1.0	09/11/12 12:06	
Chloroform	ug/L	ND	1.0	09/11/12 12:06	
Chloromethane	ug/L	ND	1.0	09/11/12 12:06	
cis-1,2-Dichloroethene	ug/L	ND	1.0	09/11/12 12:06	
cis-1,3-Dichloropropene	ug/L	ND	1.0	09/11/12 12:06	
Cyclohexane	ug/L	ND	10.0	09/11/12 12:06	
Dibromochloromethane	ug/L	ND	1.0	09/11/12 12:06	
Dichlorodifluoromethane	ug/L	ND	1.0	09/11/12 12:06	
Ethylbenzene	ug/L	ND	1.0	09/11/12 12:06	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	09/11/12 12:06	
Methyl acetate	ug/L	ND	5.0	09/11/12 12:06	
Methyl-tert-butyl ether	ug/L	ND	1.0	09/11/12 12:06	
Methylcyclohexane	ug/L	ND	10.0	09/11/12 12:06	
Methylene Chloride	ug/L	ND	1.0	09/11/12 12:06	
Naphthalene	ug/L	ND	2.0	09/11/12 12:06	
Styrene	ug/L	ND	1.0	09/11/12 12:06	
Tetrachloroethene	ug/L	ND	1.0	09/11/12 12:06	
Toluene	ug/L	ND	1.0	09/11/12 12:06	

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QUALITY CONTROL DATA

Project: EPT Ithaca, NY; 4507-34

Pace Project No.: 3076815

METHOD BLANK: 485340

Matrix: Water

Associated Lab Samples: 3076815008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	ND	1.0	09/11/12 12:06	
trans-1,3-Dichloropropene	ug/L	ND	1.0	09/11/12 12:06	
Trichloroethene	ug/L	ND	1.0	09/11/12 12:06	
Trichlorofluoromethane	ug/L	ND	1.0	09/11/12 12:06	
Vinyl chloride	ug/L	ND	1.0	09/11/12 12:06	
Xylene (Total)	ug/L	ND	3.0	09/11/12 12:06	
1,2-Dichloroethane-d4 (S)	%	120	70-130	09/11/12 12:06	
4-Bromofluorobenzene (S)	%	97	70-130	09/11/12 12:06	
Toluene-d8 (S)	%	96	70-130	09/11/12 12:06	

LABORATORY CONTROL SAMPLE: 485341

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	14.0	70	64.3-127	
1,1,2,2-Tetrachloroethane	ug/L	20	16.2	81	64.6-121	
1,1,2-Trichloroethane	ug/L	20	16.1	80	75.6-120	
1,1,2-Trichlorotrifluoroethane	ug/L	20	17.9J	90	34.5-171	
1,1-Dichloroethane	ug/L	20	14.4	72	68.5-122	
1,1-Dichloroethene	ug/L	20	13.3	67	57.1-120	
1,2,4-Trichlorobenzene	ug/L	20	15.5	77	67.6-129	
1,2-Dibromo-3-chloropropane	ug/L	20	16.4	82	56.7-131	
1,2-Dibromoethane (EDB)	ug/L	20	15.1	76	73.6-120	
1,2-Dichlorobenzene	ug/L	20	15.6	78	69.6-120	
1,2-Dichloroethane	ug/L	20	15.1	75	60.5-133	
1,2-Dichloropropane	ug/L	20	15.3	76	71-120	
1,3-Dichlorobenzene	ug/L	20	15.5	77	68.4-121	
1,4-Dichlorobenzene	ug/L	20	15.1	76	68.5-123	
2-Butanone (MEK)	ug/L	20	13.9	69	55.7-138	
2-Hexanone	ug/L	20	19.7	99	67-133	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.7	94	64.5-121	
Acetone	ug/L	20	19.0	95	57.6-168	
Benzene	ug/L	20	15.1	75	69.8-120	
Bromodichloromethane	ug/L	20	15.5	78	66.5-120	
Bromoform	ug/L	20	14.4	72	61.1-120	
Bromomethane	ug/L	20	15.7	78	10.6-200	
Carbon disulfide	ug/L	20	16.4	82	60.2-122	
Carbon tetrachloride	ug/L	20	14.2	71	60.1-127	
Chlorobenzene	ug/L	20	15.0	75	72-120	
Chloroethane	ug/L	20	18.6	93	36.8-142	
Chloroform	ug/L	20	14.5	72	69-122	
Chloromethane	ug/L	20	16.1	81	37.2-129	
cis-1,2-Dichloroethene	ug/L	20	14.4	72	69.5-123	
cis-1,3-Dichloropropene	ug/L	20	15.6	78	74.3-120	
Cyclohexane	ug/L	20	16.3	81	59.4-146	
Dibromochloromethane	ug/L	20	15.6	78	66.1-120	

QUALITY CONTROL DATA

Project: EPT Ithaca, NY; 4507-34

Pace Project No.: 3076815

LABORATORY CONTROL SAMPLE: 485341

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dichlorodifluoromethane	ug/L	20	25.8	129	14.6-129	
Ethylbenzene	ug/L	20	15.3	76	70.9-124	
Isopropylbenzene (Cumene)	ug/L	20	16.3	82	68.3-129	
Methyl acetate	ug/L	20	9.3	47	43.6-200	
Methyl-tert-butyl ether	ug/L	20	17.5	88	66.4-144	
Methylcyclohexane	ug/L	20	20.3	102	62.2-137	
Methylene Chloride	ug/L	20	16.2	81	61.5-125	
Naphthalene	ug/L	20	13.4	67	61-135	
Styrene	ug/L	20	16.8	84	69.9-120	
Tetrachloroethene	ug/L	20	14.1	71	63.4-121	
Toluene	ug/L	20	14.9	75	71.5-120	
trans-1,2-Dichloroethene	ug/L	20	13.7	68	64.1-120	
trans-1,3-Dichloropropene	ug/L	20	15.6	78	71-120	
Trichloroethene	ug/L	20	14.4	72	65.9-120	
Trichlorofluoromethane	ug/L	20	28.6	143	44.8-137	L3
Vinyl chloride	ug/L	20	20.5	103	51-127	
Xylene (Total)	ug/L	60	45.7	76	70-129	
1,2-Dichloroethane-d4 (S)	%			109	70-130	
4-Bromofluorobenzene (S)	%			94	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 485342 485343

Parameter	Units	3076821007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.19	20	20	13.8	13.8	69	69	64.3-127	.3	
1,1,2,2-Tetrachloroethane	ug/L	<0.22	20	20	17.0	15.2	85	76	64.6-121	11	
1,1,2-Trichloroethane	ug/L	<0.23	20	20	13.8	13.1	69	66	75.6-120	5	M0
1,1,2-Trichlorotrifluoroethane	ug/L	<0.14	20	20	17.7J	17.9J	88	90	34.5-171		
1,1-Dichloroethane	ug/L	<0.16	20	20	14.5	14.0	72	70	68.5-122	3	
1,1-Dichloroethene	ug/L	<0.14	20	20	12.7	13.0	64	65	57.1-120	2	
1,2,4-Trichlorobenzene	ug/L	<0.33	20	20	13.6	14.0	68	70	67.6-129	3	
1,2-Dibromo-3-chloropropane	ug/L	<0.74	20	20	14.4	12.7	72	63	56.7-131	13	
1,2-Dibromoethane (EDB)	ug/L	<0.17	20	20	13.0	12.1	65	61	73.6-120	7	M0
1,2-Dichlorobenzene	ug/L	<0.23	20	20	14.8	15.0	74	75	69.6-120	2	
1,2-Dichloroethane	ug/L	<0.14	20	20	15.7	15.2	79	76	60.5-133	3	
1,2-Dichloropropane	ug/L	2.4	20	20	15.9	15.7	67	66	71-120	1	M0
1,3-Dichlorobenzene	ug/L	<0.26	20	20	14.1	14.4	70	72	68.4-121	2	
1,4-Dichlorobenzene	ug/L	<0.17	20	20	14.3	14.1	72	70	68.5-123	2	
2-Butanone (MEK)	ug/L	<1.1	20	20	13.9	13.2	69	66	55.7-138	5	
2-Hexanone	ug/L	<0.34	20	20	19.0	16.8	95	84	67-133	12	
4-Methyl-2-pentanone (MIBK)	ug/L	<0.29	20	20	17.3	16.0	87	80	64.5-121	8	
Acetone	ug/L	<2.6	20	20	20.7	19.5	103	98	57.6-168	6	
Benzene	ug/L	1.7	20	20	14.7	14.5	65	64	69.8-120	1	M0
Bromodichloromethane	ug/L	<0.15	20	20	12.9	12.7	64	63	66.5-120	1	M0
Bromoform	ug/L	<0.25	20	20	13.0	12.8	65	64	61.1-120	1	
Bromomethane	ug/L	<0.37	20	20	15.0	16.9	75	84	10.6-200	12	

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QUALITY CONTROL DATA

Project: EPT Ithaca, NY; 4507-34

Pace Project No.: 3076815

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 485342 485343											
Parameter	Units	3076821007		MS	MSD	MS	MSD	MS	MSD	% Rec	RPD
		Result	Conc.	Spike	Spike						
				Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	Qual
Carbon disulfide	ug/L	<0.18	20	20	20	14.7	14.6	74	73	60.2-122	.8
Carbon tetrachloride	ug/L	<0.24	20	20	20	13.9	14.1	70	71	60.1-127	1
Chlorobenzene	ug/L	605	200	200	200	775	717	85	56	72-120	8 M0
Chloroethane	ug/L	<0.48	20	20	20	19.9	19.5	100	97	36.8-142	2
Chloroform	ug/L	<0.16	20	20	20	14.1	13.9	70	70	69-122	.9
Chloromethane	ug/L	<0.21	20	20	20	17.3	17.0	86	85	37.2-129	2
cis-1,2-Dichloroethene	ug/L	<0.20	20	20	20	13.9	13.3	69	66	69.5-123	4 M0
cis-1,3-Dichloropropene	ug/L	<0.19	20	20	20	12.2	12.3	61	61	74.3-120	1 M0
Cyclohexane	ug/L	<0.24	20	20	20	15.1	15.6	75	78	59.4-146	3
Dibromochloromethane	ug/L	<0.22	20	20	20	13.3	12.5	67	62	66.1-120	6 M0
Dichlorodifluoromethane	ug/L	<0.20	20	20	20	27.5	27.7	137	138	14.6-129	.7 M0
Ethylbenzene	ug/L	<0.12	20	20	20	15.4	15.4	77	77	70.9-124	.1
Isopropylbenzene (Cumene)	ug/L	<0.12	20	20	20	14.8	14.7	74	74	68.3-129	.1
Methyl acetate	ug/L	<2.0	20	20	20	19.3	15.4	96	77	43.6-200	23
Methyl-tert-butyl ether	ug/L	<0.19	20	20	20	17.0	15.4	85	77	66.4-144	10
Methylcyclohexane	ug/L	<0.24	20	20	20	16.0	17.3	80	87	62.2-137	8
Methylene Chloride	ug/L	<0.23	20	20	20	15.6	15.3	78	77	61.5-125	2
Naphthalene	ug/L	<0.33	20	20	20	12.2	11.9	61	59	61-135	3 M0
Styrene	ug/L	<0.18	20	20	20	14.1	14.3	71	72	69.9-120	1
Tetrachloroethene	ug/L	<0.12	20	20	20	11.8	11.9	59	59	63.4-121	.5 M0
Toluene	ug/L	<0.11	20	20	20	12.1	12.2	60	61	71.5-120	.8 M0
trans-1,2-Dichloroethene	ug/L	<0.18	20	20	20	13.1	12.9	65	64	64.1-120	2 M0
trans-1,3-Dichloropropene	ug/L	<0.23	20	20	20	13.1	12.9	66	64	71-120	2 M0
Trichloroethene	ug/L	<0.15	20	20	20	11.9	12.2	59	61	65.9-120	2 M0
Trichlorofluoromethane	ug/L	<0.19	20	20	20	36.4	34.2	182	171	44.8-137	6 M0
Vinyl chloride	ug/L	<0.13	20	20	20	24.1	23.2	120	116	51-127	4
Xylene (Total)	ug/L	<0.31	60	60	60	38.1	38.3	64	64	70-129	.5 ES
1,2-Dichloroethane-d4 (S)	%							104	104	70-130	
4-Bromofluorobenzene (S)	%							98	98	70-130	
Toluene-d8 (S)	%							84	85	70-130	

QUALIFIERS

Project: EPT Ithaca, NY; 4507-34

Pace Project No.: 3076815

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

1c	The result from the 200 fold dilution analysis did not match the neat analysis very well due to matrix interferences with the Internal standard in the neat analysis. The result from 200 fold dilution was below the calibration curve.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
ES	The reported result is estimated because one or more of the constituent results are qualified as such.
IS	The internal standard response is below criteria. Results may be biased high.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
R1	RPD value was outside control limits.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: EPT Ithaca, NY; 4507-34

Pace Project No.: 3076815

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3076815001	MW-25B	EPA 8260	MSV/13885		
3076815002	MW-25B MS	EPA 8260	MSV/13885		
3076815003	MW-25B MSD	EPA 8260	MSV/13885		
3076815004	MW-100	EPA 8260	MSV/13885		
3076815005	TRIP BLANK	EPA 8260	MSV/13885		
3076815006	MW-10B	EPA 8260	MSV/13885		
3076815007	EB-090512	EPA 8260	MSV/13885		
3076815008	MW-24B	EPA 8260	MSV/13896		
3076815009	MW-26B	EPA 8260	MSV/13885		

October 31, 2012

Mr. Scott Petersen
WSP Environment & Energy
5 Sullivan Street
Cazenovia, NY 13035

RE: Project: EPT Ithaca, NY
Pace Project No.: 3079608

Dear Mr. Petersen:

Enclosed are the analytical results for sample(s) received by the laboratory on October 12, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Penny Westrick

penny.westrick@pacelabs.com
Project Manager

Enclosures

cc: Mr. Erik Reinert, WSP Environment & Energy



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: EPT Ithaca, NY

Pace Project No.: 3079608

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601

ACCLASS DOD-ELAP Accreditation #: ADE-1544

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California/TNI Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH-0694

Delaware Certification

Florida/TNI Certification #: E87683

Guam/PADEP Certification

Hawaii/PADEP Certification

Idaho Certification

Illinois/PADEP Certification

Indiana/PADEP Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana/TNI Certification #: LA080002

Louisiana/TNI Certification #: 4086

Maine Certification #: PA0091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nevada Certification

New Hampshire/TNI Certification #: 2976

New Jersey/TNI Certification #: PA 051

New Mexico Certification

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188

Utah/TNI Certification #: ANTE

Virgin Island/PADEP Certification

Virginia Certification #: 00112

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia Certification #: 143

Wisconsin/PADEP Certification

Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: EPT Ithaca, NY

Pace Project No.: 3079608

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3079608001	SB-101112-1	EPA 8260	JEW	52	PASI-PA
3079608002	SB-101112-2	EPA 8260	JEW	52	PASI-PA
		ASTM D2974-87	VAL	1	PASI-PA
3079608003	SB-101112-2 (14-15.5)	EPA 8260	JEW	52	PASI-PA
		ASTM D2974-87	AJC	1	PASI-PA
3079608004	SB-101112-6	EPA 8260	JEW	52	PASI-PA
		ASTM D2974-87	VAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: EPT Ithaca, NY

Pace Project No.: 3079608

Method: EPA 8260

Description: 8260 MSV 5030 Low Level

Client: WSP Environment & Energy - Cazenovia, NY

Date: October 31, 2012

General Information:

4 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

QC Batch: MSV/14345

B: Analyte was detected in the associated method blank.

- BLANK (Lab ID: 502716)
- Acetone

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/14345

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 502717)
- 1,2-Dichloropropane

QC Batch: MSV/14359

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 503206)
- 1,2-Dichloropropane
- Benzene
- Carbon disulfide
- Methylcyclohexane
- Styrene

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: EPT Ithaca, NY

Pace Project No.: 3079608

Method: EPA 8260

Description: 8260 MSV 5030 Low Level

Client: WSP Environment & Energy - Cazenovia, NY

Date: October 31, 2012

QC Batch: MSV/14359

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 3079879002

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 503207)
 - 1,1,2-Trichlorotrifluoroethane
 - 1,1-Dichloroethene
 - 1,2-Dichlorobenzene
 - 1,3-Dichlorobenzene
 - 1,4-Dichlorobenzene
 - 2-Hexanone
 - Methylcyclohexane
 - Naphthalene
 - Tetrachloroethene
 - Trichlorofluoromethane
 - cis-1,3-Dichloropropene
- MSD (Lab ID: 503208)
 - 1,1,2-Trichlorotrifluoroethane
 - 1,1-Dichloroethene
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - 1,3-Dichlorobenzene
 - 1,4-Dichlorobenzene
 - 2-Hexanone
 - Ethylbenzene
 - Isopropylbenzene (Cumene)
 - Methylcyclohexane
 - Naphthalene
 - Tetrachloroethene
 - Trichloroethene
 - Trichlorofluoromethane
 - cis-1,3-Dichloropropene
 - trans-1,2-Dichloroethene
 - trans-1,3-Dichloropropene

M3: Matrix spike recovery was outside laboratory control limits due to matrix interferences.

- MS (Lab ID: 503207)
 - 1,2,4-Trichlorobenzene

Additional Comments:

Analyte Comments:

QC Batch: MSV/14345

C9: Common Laboratory Contaminant.

- BLANK (Lab ID: 502716)
 - Acetone

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: EPT Ithaca, NY

Pace Project No.: 3079608

Method: EPA 8260

Description: 8260 MSV 5030 Low Level

Client: WSP Environment & Energy - Cazenovia, NY

Date: October 31, 2012

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3079608

Sample: SB-101112-1 **Lab ID: 3079608001** Collected: 10/11/12 11:16 Received: 10/12/12 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Acetone	29.4	ug/kg	8.1	1		10/19/12 18:09	67-64-1	
Benzene	ND	ug/kg	4.0	1		10/19/12 18:09	71-43-2	
Bromodichloromethane	ND	ug/kg	4.0	1		10/19/12 18:09	75-27-4	
Bromoform	ND	ug/kg	4.0	1		10/19/12 18:09	75-25-2	
Bromomethane	ND	ug/kg	4.0	1		10/19/12 18:09	74-83-9	
2-Butanone (MEK)	ND	ug/kg	8.1	1		10/19/12 18:09	78-93-3	
Carbon disulfide	4.6	ug/kg	4.0	1		10/19/12 18:09	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.0	1		10/19/12 18:09	56-23-5	
Chlorobenzene	ND	ug/kg	4.0	1		10/19/12 18:09	108-90-7	
Chloroethane	ND	ug/kg	4.0	1		10/19/12 18:09	75-00-3	
Chloroform	ND	ug/kg	4.0	1		10/19/12 18:09	67-66-3	
Chloromethane	ND	ug/kg	4.0	1		10/19/12 18:09	74-87-3	
Cyclohexane	ND	ug/kg	8.1	1		10/19/12 18:09	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.0	1		10/19/12 18:09	96-12-8	
Dibromochloromethane	ND	ug/kg	4.0	1		10/19/12 18:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.0	1		10/19/12 18:09	106-93-4	
1,2-Dichlorobenzene	ND	ug/kg	4.0	1		10/19/12 18:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.0	1		10/19/12 18:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.0	1		10/19/12 18:09	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	4.0	1		10/19/12 18:09	75-71-8	
1,1-Dichloroethane	12.6	ug/kg	4.0	1		10/19/12 18:09	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.0	1		10/19/12 18:09	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.0	1		10/19/12 18:09	75-35-4	
cis-1,2-Dichloroethene	5870	ug/kg	436	100		10/22/12 18:41	156-59-2	
trans-1,2-Dichloroethene	16.7	ug/kg	4.0	1		10/19/12 18:09	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.0	1		10/19/12 18:09	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.0	1		10/19/12 18:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.0	1		10/19/12 18:09	10061-02-6	
Ethylbenzene	14.9	ug/kg	4.0	1		10/19/12 18:09	100-41-4	
2-Hexanone	ND	ug/kg	8.1	1		10/19/12 18:09	591-78-6	
Isopropylbenzene (Cumene)	41.5	ug/kg	4.0	1		10/19/12 18:09	98-82-8	
Methyl acetate	ND	ug/kg	40.3	1		10/19/12 18:09	79-20-9	
Methylcyclohexane	ND	ug/kg	8.1	1		10/19/12 18:09	108-87-2	
Methylene Chloride	ND	ug/kg	4.0	1		10/19/12 18:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	8.1	1		10/19/12 18:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.0	1		10/19/12 18:09	1634-04-4	
Naphthalene	9.8	ug/kg	4.0	1		10/19/12 18:09	91-20-3	
Styrene	ND	ug/kg	4.0	1		10/19/12 18:09	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.0	1		10/19/12 18:09	79-34-5	
Tetrachloroethene	ND	ug/kg	4.0	1		10/19/12 18:09	127-18-4	
Toluene	15.3	ug/kg	4.0	1		10/19/12 18:09	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	4.0	1		10/19/12 18:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.0	1		10/19/12 18:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.0	1		10/19/12 18:09	79-00-5	
Trichloroethene	ND	ug/kg	4.0	1		10/19/12 18:09	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.0	1		10/19/12 18:09	75-69-4	

Date: 10/31/2012 04:03 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3079608

Sample: SB-101112-1 **Lab ID: 3079608001** Collected: 10/11/12 11:16 Received: 10/12/12 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	40.3	1		10/19/12 18:09	76-13-1	
Vinyl chloride	9400	ug/kg	436	100		10/22/12 18:41	75-01-4	
Xylene (Total)	202	ug/kg	12.1	1		10/19/12 18:09	1330-20-7	
Surrogates								
Toluene-d8 (S)	93	%	70-130	1		10/19/12 18:09	2037-26-5	
4-Bromofluorobenzene (S)	121	%	70-130	1		10/19/12 18:09	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		10/19/12 18:09	17060-07-0	
		Analytical Method: ASTM D2974-87						
Percent Moisture	14.7	%	0.10	1		10/31/12 10:00		

ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3079608

Sample: SB-101112-2 **Lab ID: 3079608002** Collected: 10/11/12 11:30 Received: 10/12/12 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Acetone	74.0	ug/kg	9.5	1		10/19/12 18:31	67-64-1	
Benzene	ND	ug/kg	4.8	1		10/19/12 18:31	71-43-2	
Bromodichloromethane	ND	ug/kg	4.8	1		10/19/12 18:31	75-27-4	
Bromoform	ND	ug/kg	4.8	1		10/19/12 18:31	75-25-2	
Bromomethane	ND	ug/kg	4.8	1		10/19/12 18:31	74-83-9	
2-Butanone (MEK)	11.7	ug/kg	9.5	1		10/19/12 18:31	78-93-3	
Carbon disulfide	8.2	ug/kg	4.8	1		10/19/12 18:31	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.8	1		10/19/12 18:31	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	1		10/19/12 18:31	108-90-7	
Chloroethane	ND	ug/kg	4.8	1		10/19/12 18:31	75-00-3	
Chloroform	ND	ug/kg	4.8	1		10/19/12 18:31	67-66-3	
Chloromethane	ND	ug/kg	4.8	1		10/19/12 18:31	74-87-3	
Cyclohexane	ND	ug/kg	9.5	1		10/19/12 18:31	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.8	1		10/19/12 18:31	96-12-8	
Dibromochloromethane	ND	ug/kg	4.8	1		10/19/12 18:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.8	1		10/19/12 18:31	106-93-4	
1,2-Dichlorobenzene	ND	ug/kg	4.8	1		10/19/12 18:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.8	1		10/19/12 18:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.8	1		10/19/12 18:31	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	4.8	1		10/19/12 18:31	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.8	1		10/19/12 18:31	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	1		10/19/12 18:31	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.8	1		10/19/12 18:31	75-35-4	
cis-1,2-Dichloroethene	7.2	ug/kg	4.8	1		10/19/12 18:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1		10/19/12 18:31	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	1		10/19/12 18:31	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	1		10/19/12 18:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1		10/19/12 18:31	10061-02-6	
Ethylbenzene	13.3	ug/kg	4.8	1		10/19/12 18:31	100-41-4	
2-Hexanone	ND	ug/kg	9.5	1		10/19/12 18:31	591-78-6	
Isopropylbenzene (Cumene)	38.6	ug/kg	4.8	1		10/19/12 18:31	98-82-8	
Methyl acetate	ND	ug/kg	47.6	1		10/19/12 18:31	79-20-9	
Methylcyclohexane	ND	ug/kg	9.5	1		10/19/12 18:31	108-87-2	
Methylene Chloride	ND	ug/kg	4.8	1		10/19/12 18:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.5	1		10/19/12 18:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.8	1		10/19/12 18:31	1634-04-4	
Naphthalene	10.8	ug/kg	4.8	1		10/19/12 18:31	91-20-3	
Styrene	ND	ug/kg	4.8	1		10/19/12 18:31	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.8	1		10/19/12 18:31	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	1		10/19/12 18:31	127-18-4	
Toluene	8.3	ug/kg	4.8	1		10/19/12 18:31	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1		10/19/12 18:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.8	1		10/19/12 18:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	1		10/19/12 18:31	79-00-5	
Trichloroethene	ND	ug/kg	4.8	1		10/19/12 18:31	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.8	1		10/19/12 18:31	75-69-4	

Date: 10/31/2012 04:03 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3079608

Sample: SB-101112-2 **Lab ID: 3079608002** Collected: 10/11/12 11:30 Received: 10/12/12 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	47.6	1		10/19/12 18:31	76-13-1	
Vinyl chloride	206	ug/kg	4.8	1		10/19/12 18:31	75-01-4	
Xylene (Total)	161	ug/kg	14.3	1		10/19/12 18:31	1330-20-7	
Surrogates								
Toluene-d8 (S)	99	%	70-130	1		10/19/12 18:31	2037-26-5	
4-Bromofluorobenzene (S)	109	%	70-130	1		10/19/12 18:31	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		10/19/12 18:31	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	12.9	%	0.10	1		10/22/12 16:26		

ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3079608

Sample: **SB-101112-2 (14-15.5)** Lab ID: **3079608003** Collected: 10/11/12 11:44 Received: 10/12/12 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Acetone	24.0	ug/kg	9.7	1		10/22/12 17:56	67-64-1	
Benzene	ND	ug/kg	4.8	1		10/22/12 17:56	71-43-2	
Bromodichloromethane	ND	ug/kg	4.8	1		10/22/12 17:56	75-27-4	
Bromoform	ND	ug/kg	4.8	1		10/22/12 17:56	75-25-2	
Bromomethane	ND	ug/kg	4.8	1		10/22/12 17:56	74-83-9	
2-Butanone (MEK)	ND	ug/kg	9.7	1		10/22/12 17:56	78-93-3	
Carbon disulfide	ND	ug/kg	4.8	1		10/22/12 17:56	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.8	1		10/22/12 17:56	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	1		10/22/12 17:56	108-90-7	
Chloroethane	ND	ug/kg	4.8	1		10/22/12 17:56	75-00-3	
Chloroform	ND	ug/kg	4.8	1		10/22/12 17:56	67-66-3	
Chloromethane	ND	ug/kg	4.8	1		10/22/12 17:56	74-87-3	
Cyclohexane	ND	ug/kg	9.7	1		10/22/12 17:56	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.8	1		10/22/12 17:56	96-12-8	
Dibromochloromethane	ND	ug/kg	4.8	1		10/22/12 17:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.8	1		10/22/12 17:56	106-93-4	
1,2-Dichlorobenzene	ND	ug/kg	4.8	1		10/22/12 17:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.8	1		10/22/12 17:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.8	1		10/22/12 17:56	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	4.8	1		10/22/12 17:56	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.8	1		10/22/12 17:56	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	1		10/22/12 17:56	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.8	1		10/22/12 17:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.8	1		10/22/12 17:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1		10/22/12 17:56	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	1		10/22/12 17:56	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	1		10/22/12 17:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1		10/22/12 17:56	10061-02-6	
Ethylbenzene	15.9	ug/kg	4.8	1		10/22/12 17:56	100-41-4	
2-Hexanone	ND	ug/kg	9.7	1		10/22/12 17:56	591-78-6	
Isopropylbenzene (Cumene)	38.7	ug/kg	4.8	1		10/22/12 17:56	98-82-8	
Methyl acetate	ND	ug/kg	48.4	1		10/22/12 17:56	79-20-9	
Methylcyclohexane	9.8	ug/kg	9.7	1		10/22/12 17:56	108-87-2	
Methylene Chloride	ND	ug/kg	4.8	1		10/22/12 17:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.7	1		10/22/12 17:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.8	1		10/22/12 17:56	1634-04-4	
Naphthalene	8.0	ug/kg	4.8	1		10/22/12 17:56	91-20-3	
Styrene	ND	ug/kg	4.8	1		10/22/12 17:56	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.8	1		10/22/12 17:56	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	1		10/22/12 17:56	127-18-4	
Toluene	16.4	ug/kg	4.8	1		10/22/12 17:56	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1		10/22/12 17:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.8	1		10/22/12 17:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	1		10/22/12 17:56	79-00-5	
Trichloroethene	ND	ug/kg	4.8	1		10/22/12 17:56	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.8	1		10/22/12 17:56	75-69-4	

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3079608

Sample: SB-101112-2 (14-15.5) **Lab ID: 3079608003** Collected: 10/11/12 11:44 Received: 10/12/12 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	48.4	1		10/22/12 17:56	76-13-1	
Vinyl chloride	ND	ug/kg	4.8	1		10/22/12 17:56	75-01-4	
Xylene (Total)	182	ug/kg	14.5	1		10/22/12 17:56	1330-20-7	
Surrogates								
Toluene-d8 (S)	103	%	70-130	1		10/22/12 17:56	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/22/12 17:56	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130	1		10/22/12 17:56	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	14.4	%	0.10	1		10/23/12 17:43		

ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3079608

Sample: SB-101112-6 **Lab ID: 3079608004** Collected: 10/11/12 14:00 Received: 10/12/12 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Acetone	21.3	ug/kg	10	1		10/19/12 18:53	67-64-1	
Benzene	ND	ug/kg	5.0	1		10/19/12 18:53	71-43-2	
Bromodichloromethane	ND	ug/kg	5.0	1		10/19/12 18:53	75-27-4	
Bromoform	ND	ug/kg	5.0	1		10/19/12 18:53	75-25-2	
Bromomethane	ND	ug/kg	5.0	1		10/19/12 18:53	74-83-9	
2-Butanone (MEK)	ND	ug/kg	10	1		10/19/12 18:53	78-93-3	
Carbon disulfide	ND	ug/kg	5.0	1		10/19/12 18:53	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	1		10/19/12 18:53	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	1		10/19/12 18:53	108-90-7	
Chloroethane	ND	ug/kg	5.0	1		10/19/12 18:53	75-00-3	
Chloroform	ND	ug/kg	5.0	1		10/19/12 18:53	67-66-3	
Chloromethane	ND	ug/kg	5.0	1		10/19/12 18:53	74-87-3	
Cyclohexane	ND	ug/kg	10	1		10/19/12 18:53	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.0	1		10/19/12 18:53	96-12-8	
Dibromochloromethane	ND	ug/kg	5.0	1		10/19/12 18:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	1		10/19/12 18:53	106-93-4	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1		10/19/12 18:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	1		10/19/12 18:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1		10/19/12 18:53	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	5.0	1		10/19/12 18:53	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.0	1		10/19/12 18:53	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1		10/19/12 18:53	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	1		10/19/12 18:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1		10/19/12 18:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1		10/19/12 18:53	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1		10/19/12 18:53	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1		10/19/12 18:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1		10/19/12 18:53	10061-02-6	
Ethylbenzene	18.7	ug/kg	5.0	1		10/19/12 18:53	100-41-4	
2-Hexanone	ND	ug/kg	10	1		10/19/12 18:53	591-78-6	
Isopropylbenzene (Cumene)	48.2	ug/kg	5.0	1		10/19/12 18:53	98-82-8	
Methyl acetate	ND	ug/kg	49.8	1		10/19/12 18:53	79-20-9	
Methylcyclohexane	ND	ug/kg	10	1		10/19/12 18:53	108-87-2	
Methylene Chloride	ND	ug/kg	5.0	1		10/19/12 18:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10	1		10/19/12 18:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.0	1		10/19/12 18:53	1634-04-4	
Naphthalene	ND	ug/kg	5.0	1		10/19/12 18:53	91-20-3	
Styrene	ND	ug/kg	5.0	1		10/19/12 18:53	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	1		10/19/12 18:53	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	1		10/19/12 18:53	127-18-4	
Toluene	10.6	ug/kg	5.0	1		10/19/12 18:53	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	1		10/19/12 18:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.0	1		10/19/12 18:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	1		10/19/12 18:53	79-00-5	
Trichloroethene	ND	ug/kg	5.0	1		10/19/12 18:53	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.0	1		10/19/12 18:53	75-69-4	

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ANALYTICAL RESULTS

Project: EPT Ithaca, NY

Pace Project No.: 3079608

Sample: SB-101112-6 **Lab ID: 3079608004** Collected: 10/11/12 14:00 Received: 10/12/12 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	49.8	1		10/19/12 18:53	76-13-1	
Vinyl chloride	8.2	ug/kg	5.0	1		10/19/12 18:53	75-01-4	
Xylene (Total)	199	ug/kg	14.9	1		10/19/12 18:53	1330-20-7	
Surrogates								
Toluene-d8 (S)	96	%	70-130	1		10/19/12 18:53	2037-26-5	
4-Bromofluorobenzene (S)	121	%	70-130	1		10/19/12 18:53	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		10/19/12 18:53	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	15.0	%	0.10	1		10/22/12 16:26		

QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3079608

QC Batch:	MSV/14345	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV 5035 Low
Associated Lab Samples:	3079608001, 3079608002, 3079608004		

METHOD BLANK: 502716 Matrix: Solid

Associated Lab Samples: 3079608001, 3079608002, 3079608004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	5.0	10/19/12 12:33	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	10/19/12 12:33	
1,1,2-Trichloroethane	ug/kg	ND	5.0	10/19/12 12:33	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	50.0	10/19/12 12:33	
1,1-Dichloroethane	ug/kg	ND	5.0	10/19/12 12:33	
1,1-Dichloroethene	ug/kg	ND	5.0	10/19/12 12:33	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	10/19/12 12:33	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	10/19/12 12:33	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	10/19/12 12:33	
1,2-Dichlorobenzene	ug/kg	ND	5.0	10/19/12 12:33	
1,2-Dichloroethane	ug/kg	ND	5.0	10/19/12 12:33	
1,2-Dichloropropane	ug/kg	ND	5.0	10/19/12 12:33	
1,3-Dichlorobenzene	ug/kg	ND	5.0	10/19/12 12:33	
1,4-Dichlorobenzene	ug/kg	ND	5.0	10/19/12 12:33	
2-Butanone (MEK)	ug/kg	ND	10.0	10/19/12 12:33	
2-Hexanone	ug/kg	ND	10.0	10/19/12 12:33	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	10/19/12 12:33	
Acetone	ug/kg	16.8	10.0	10/19/12 12:33	B,C9
Benzene	ug/kg	ND	5.0	10/19/12 12:33	
Bromodichloromethane	ug/kg	ND	5.0	10/19/12 12:33	
Bromoform	ug/kg	ND	5.0	10/19/12 12:33	
Bromomethane	ug/kg	ND	5.0	10/19/12 12:33	
Carbon disulfide	ug/kg	ND	5.0	10/19/12 12:33	
Carbon tetrachloride	ug/kg	ND	5.0	10/19/12 12:33	
Chlorobenzene	ug/kg	ND	5.0	10/19/12 12:33	
Chloroethane	ug/kg	ND	5.0	10/19/12 12:33	
Chloroform	ug/kg	ND	5.0	10/19/12 12:33	
Chloromethane	ug/kg	ND	5.0	10/19/12 12:33	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	10/19/12 12:33	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	10/19/12 12:33	
Cyclohexane	ug/kg	ND	10.0	10/19/12 12:33	
Dibromochloromethane	ug/kg	ND	5.0	10/19/12 12:33	
Dichlorodifluoromethane	ug/kg	ND	5.0	10/19/12 12:33	
Ethylbenzene	ug/kg	ND	5.0	10/19/12 12:33	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	10/19/12 12:33	
Methyl acetate	ug/kg	ND	50.0	10/19/12 12:33	
Methyl-tert-butyl ether	ug/kg	ND	5.0	10/19/12 12:33	
Methylcyclohexane	ug/kg	ND	10.0	10/19/12 12:33	
Methylene Chloride	ug/kg	ND	5.0	10/19/12 12:33	
Naphthalene	ug/kg	ND	5.0	10/19/12 12:33	
Styrene	ug/kg	ND	5.0	10/19/12 12:33	
Tetrachloroethene	ug/kg	ND	5.0	10/19/12 12:33	
Toluene	ug/kg	ND	5.0	10/19/12 12:33	

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QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3079608

METHOD BLANK: 502716

Matrix: Solid

Associated Lab Samples: 3079608001, 3079608002, 3079608004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/kg	ND	5.0	10/19/12 12:33	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	10/19/12 12:33	
Trichloroethene	ug/kg	ND	5.0	10/19/12 12:33	
Trichlorofluoromethane	ug/kg	ND	5.0	10/19/12 12:33	
Vinyl chloride	ug/kg	ND	5.0	10/19/12 12:33	
Xylene (Total)	ug/kg	ND	15.0	10/19/12 12:33	
1,2-Dichloroethane-d4 (S)	%	90	70-130	10/19/12 12:33	
4-Bromofluorobenzene (S)	%	92	70-130	10/19/12 12:33	
Toluene-d8 (S)	%	91	70-130	10/19/12 12:33	

LABORATORY CONTROL SAMPLE: 502717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	20	17.7	89	55-141	
1,1,2,2-Tetrachloroethane	ug/kg	20	15.5	78	58-124	
1,1,2-Trichloroethane	ug/kg	20	17.9	89	70-118	
1,1,2-Trichlorotrifluoroethane	ug/kg	20	24J	120	38-196	
1,1-Dichloroethane	ug/kg	20	17.5	88	64-127	
1,1-Dichloroethene	ug/kg	20	17.7	88	50-133	
1,2,4-Trichlorobenzene	ug/kg	20	17.4	87	70-119	
1,2-Dibromo-3-chloropropane	ug/kg	20	13.9	70	54-120	
1,2-Dibromoethane (EDB)	ug/kg	20	15.4	77	67-117	
1,2-Dichlorobenzene	ug/kg	20	15.7	78	67-122	
1,2-Dichloroethane	ug/kg	20	13.5	68	54-132	
1,2-Dichloropropane	ug/kg	20	13.4	67	68-112	L0
1,3-Dichlorobenzene	ug/kg	20	15.8	79	65-127	
1,4-Dichlorobenzene	ug/kg	20	15.7	79	66-127	
2-Butanone (MEK)	ug/kg	20	16.3	82	54-135	
2-Hexanone	ug/kg	20	13.6	68	58-148	
4-Methyl-2-pentanone (MIBK)	ug/kg	20	15.0	75	55-142	
Acetone	ug/kg	20	26.4	132	39-200	
Benzene	ug/kg	20	18.5	93	65-130	
Bromodichloromethane	ug/kg	20	12.8	64	57-125	
Bromoform	ug/kg	20	15.7	79	53-121	
Bromomethane	ug/kg	20	18.3	91	30-167	
Carbon disulfide	ug/kg	20	21.9	110	49-150	
Carbon tetrachloride	ug/kg	20	18.6	93	47-146	
Chlorobenzene	ug/kg	20	15.0	75	67-124	
Chloroethane	ug/kg	20	22.3	112	34-170	
Chloroform	ug/kg	20	16.5	83	63-128	
Chloromethane	ug/kg	20	13.4	67	39-159	
cis-1,2-Dichloroethene	ug/kg	20	15.6	78	64-126	
cis-1,3-Dichloropropene	ug/kg	20	13.5	68	66-124	
Cyclohexane	ug/kg	20	22.7	113	37-186	
Dibromochloromethane	ug/kg	20	16.2	81	56-122	

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QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3079608

LABORATORY CONTROL SAMPLE: 502717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dichlorodifluoromethane	ug/kg	20	22.4	112	10-189	
Ethylbenzene	ug/kg	20	14.7	74	65-131	
Isopropylbenzene (Cumene)	ug/kg	20	17.8	89	64-137	
Methyl acetate	ug/kg	20	23.4J	117	10-200	
Methyl-tert-butyl ether	ug/kg	20	18.0	90	71-130	
Methylcyclohexane	ug/kg	20	21.6	108	61-159	
Methylene Chloride	ug/kg	20	14.4	72	45-136	
Naphthalene	ug/kg	20	15.8	79	70-123	
Styrene	ug/kg	20	18.1	91	64-122	
Tetrachloroethene	ug/kg	20	18.2	91	61-138	
Toluene	ug/kg	20	14.0	70	63-132	
trans-1,2-Dichloroethene	ug/kg	20	16.8	84	60-130	
trans-1,3-Dichloropropene	ug/kg	20	16.4	82	58-116	
Trichloroethene	ug/kg	20	14.3	71	65-131	
Trichlorofluoromethane	ug/kg	20	26.1	130	49-148	
Vinyl chloride	ug/kg	20	23.8	119	49-149	
Xylene (Total)	ug/kg	60	47.4	79	65-134	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			108	70-130	
Toluene-d8 (S)	%			90	70-130	

QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3079608

QC Batch: MSV/14359

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV 5035 Low

Associated Lab Samples: 3079608003

METHOD BLANK: 503205

Matrix: Solid

Associated Lab Samples: 3079608003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	5.0	10/22/12 13:06	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	10/22/12 13:06	
1,1,2-Trichloroethane	ug/kg	ND	5.0	10/22/12 13:06	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	50.0	10/22/12 13:06	
1,1-Dichloroethane	ug/kg	ND	5.0	10/22/12 13:06	
1,1-Dichloroethene	ug/kg	ND	5.0	10/22/12 13:06	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	10/22/12 13:06	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	10/22/12 13:06	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	10/22/12 13:06	
1,2-Dichlorobenzene	ug/kg	ND	5.0	10/22/12 13:06	
1,2-Dichloroethane	ug/kg	ND	5.0	10/22/12 13:06	
1,2-Dichloropropane	ug/kg	ND	5.0	10/22/12 13:06	
1,3-Dichlorobenzene	ug/kg	ND	5.0	10/22/12 13:06	
1,4-Dichlorobenzene	ug/kg	ND	5.0	10/22/12 13:06	
2-Butanone (MEK)	ug/kg	ND	10.0	10/22/12 13:06	
2-Hexanone	ug/kg	ND	10.0	10/22/12 13:06	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	10/22/12 13:06	
Acetone	ug/kg	ND	10.0	10/22/12 13:06	
Benzene	ug/kg	ND	5.0	10/22/12 13:06	
Bromodichloromethane	ug/kg	ND	5.0	10/22/12 13:06	
Bromoform	ug/kg	ND	5.0	10/22/12 13:06	
Bromomethane	ug/kg	ND	5.0	10/22/12 13:06	
Carbon disulfide	ug/kg	ND	5.0	10/22/12 13:06	
Carbon tetrachloride	ug/kg	ND	5.0	10/22/12 13:06	
Chlorobenzene	ug/kg	ND	5.0	10/22/12 13:06	
Chloroethane	ug/kg	ND	5.0	10/22/12 13:06	
Chloroform	ug/kg	ND	5.0	10/22/12 13:06	
Chloromethane	ug/kg	ND	5.0	10/22/12 13:06	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	10/22/12 13:06	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	10/22/12 13:06	
Cyclohexane	ug/kg	ND	10.0	10/22/12 13:06	
Dibromochloromethane	ug/kg	ND	5.0	10/22/12 13:06	
Dichlorodifluoromethane	ug/kg	ND	5.0	10/22/12 13:06	
Ethylbenzene	ug/kg	ND	5.0	10/22/12 13:06	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	10/22/12 13:06	
Methyl acetate	ug/kg	ND	50.0	10/22/12 13:06	
Methyl-tert-butyl ether	ug/kg	ND	5.0	10/22/12 13:06	
Methylcyclohexane	ug/kg	ND	10.0	10/22/12 13:06	
Methylene Chloride	ug/kg	ND	5.0	10/22/12 13:06	
Naphthalene	ug/kg	ND	5.0	10/22/12 13:06	
Styrene	ug/kg	ND	5.0	10/22/12 13:06	
Tetrachloroethene	ug/kg	ND	5.0	10/22/12 13:06	
Toluene	ug/kg	ND	5.0	10/22/12 13:06	

Date: 10/31/2012 04:03 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3079608

METHOD BLANK: 503205

Matrix: Solid

Associated Lab Samples: 3079608003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/kg	ND	5.0	10/22/12 13:06	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	10/22/12 13:06	
Trichloroethene	ug/kg	ND	5.0	10/22/12 13:06	
Trichlorofluoromethane	ug/kg	ND	5.0	10/22/12 13:06	
Vinyl chloride	ug/kg	ND	5.0	10/22/12 13:06	
Xylene (Total)	ug/kg	ND	15.0	10/22/12 13:06	
1,2-Dichloroethane-d4 (S)	%	93	70-130	10/22/12 13:06	
4-Bromofluorobenzene (S)	%	93	70-130	10/22/12 13:06	
Toluene-d8 (S)	%	92	70-130	10/22/12 13:06	

LABORATORY CONTROL SAMPLE: 503206

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	20	20.2	101	55-141	
1,1,2,2-Tetrachloroethane	ug/kg	20	17.0	85	58-124	
1,1,2-Trichloroethane	ug/kg	20	18.7	94	70-118	
1,1,2-Trichlorotrifluoroethane	ug/kg	20	27.8J	139	38-196	
1,1-Dichloroethane	ug/kg	20	20.2	101	64-127	
1,1-Dichloroethene	ug/kg	20	21.2	106	50-133	
1,2,4-Trichlorobenzene	ug/kg	20	21.2	106	70-119	
1,2-Dibromo-3-chloropropane	ug/kg	20	16.2	81	54-120	
1,2-Dibromoethane (EDB)	ug/kg	20	18.5	92	67-117	
1,2-Dichlorobenzene	ug/kg	20	19.3	97	67-122	
1,2-Dichloroethane	ug/kg	20	16.5	82	54-132	
1,2-Dichloropropane	ug/kg	20	24.0	120	68-112	L0
1,3-Dichlorobenzene	ug/kg	20	20.4	102	65-127	
1,4-Dichlorobenzene	ug/kg	20	20.1	100	66-127	
2-Butanone (MEK)	ug/kg	20	16.5	82	54-135	
2-Hexanone	ug/kg	20	14.9	74	58-148	
4-Methyl-2-pentanone (MIBK)	ug/kg	20	14.6	73	55-142	
Acetone	ug/kg	20	14.7	73	39-200	
Benzene	ug/kg	20	26.8	134	65-130	L0
Bromodichloromethane	ug/kg	20	21.7	108	57-125	
Bromoform	ug/kg	20	19.6	98	53-121	
Bromomethane	ug/kg	20	17.5	88	30-167	
Carbon disulfide	ug/kg	20	31.8	159	49-150	L0
Carbon tetrachloride	ug/kg	20	21.8	109	47-146	
Chlorobenzene	ug/kg	20	20.4	102	67-124	
Chloroethane	ug/kg	20	20.1	100	34-170	
Chloroform	ug/kg	20	19.9	99	63-128	
Chloromethane	ug/kg	20	16.1	80	39-159	
cis-1,2-Dichloroethene	ug/kg	20	17.5	87	64-126	
cis-1,3-Dichloropropene	ug/kg	20	21.6	108	66-124	
Cyclohexane	ug/kg	20	26.4	132	37-186	
Dibromochloromethane	ug/kg	20	19.6	98	56-122	

Date: 10/31/2012 04:03 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3079608

LABORATORY CONTROL SAMPLE: 503206

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dichlorodifluoromethane	ug/kg	20	19.9	99	10-189	
Ethylbenzene	ug/kg	20	21.1	105	65-131	
Isopropylbenzene (Cumene)	ug/kg	20	21.6	108	64-137	
Methyl acetate	ug/kg	20	23.1J	115	10-200	
Methyl-tert-butyl ether	ug/kg	20	22.0	110	71-130	
Methylcyclohexane	ug/kg	20	35.1	176	61-159	L0
Methylene Chloride	ug/kg	20	17.5	87	45-136	
Naphthalene	ug/kg	20	16.6	83	70-123	
Styrene	ug/kg	20	25.6	128	64-122	L0
Tetrachloroethene	ug/kg	20	22.2	111	61-138	
Toluene	ug/kg	20	20.1	100	63-132	
trans-1,2-Dichloroethene	ug/kg	20	20.1	100	60-130	
trans-1,3-Dichloropropene	ug/kg	20	19.1	95	58-116	
Trichloroethene	ug/kg	20	24.3	121	65-131	
Trichlorofluoromethane	ug/kg	20	22.0	110	49-148	
Vinyl chloride	ug/kg	20	19.9	100	49-149	
Xylene (Total)	ug/kg	60	64.5	107	65-134	
1,2-Dichloroethane-d4 (S)	%			91	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			103	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 503207 503208

Parameter	Units	3079879002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/kg	0.0032 U mg/kg	26.4	23.5	16.1	13.4	61	57	55-141	18	
1,1,2,2-Tetrachloroethane	ug/kg	0.0011U mg/kg	26.4	23.5	21.7	17.5	83	74	58-124	22	
1,1,2-Trichloroethane	ug/kg	0.0011U mg/kg	26.4	23.5	22.5	17.4	85	74	70-118	25	
1,1,2-Trichlorotrifluoroethane	ug/kg	0.00083 U mg/kg	26.4	23.5	5.9J	5.2J	22	22	38-196		M0
1,1-Dichloroethane	ug/kg	0.00098 U mg/kg	26.4	23.5	20.9	17.0	79	72	64-127	20	
1,1-Dichloroethene	ug/kg	0.0010 U mg/kg	26.4	23.5	11.7	9.5	44	41	50-133	20	M0
1,2,4-Trichlorobenzene	ug/kg	0.0017 U mg/kg	26.4	23.5	12.8	10.6	48	45	70-119	19	M0,M3
1,2-Dibromo-3-chloropropane	ug/kg	0.0021 U mg/kg	26.4	23.5	17.7	15.1	67	64	54-120	16	
1,2-Dibromoethane (EDB)	ug/kg	0.0032 U mg/kg	26.4	23.5	20.9	16.6	79	71	67-117	23	
1,2-Dichlorobenzene	ug/kg	0.0014 U mg/kg	26.4	23.5	17.3	14.7	66	63	67-122	16	M0
1,2-Dichloroethane	ug/kg	0.0011U mg/kg	26.4	23.5	18.7	14.8	71	63	54-132	23	
1,2-Dichloropropane	ug/kg	0.0020 U mg/kg	26.4	23.5	22.9	18.1	87	77	68-112	23	

QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3079608

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 503207 503208											
Parameter	Units	3079879002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,3-Dichlorobenzene	ug/kg	0.0016 U mg/kg	26.4	23.5	16.7	14.0	63	59	65-127	18	M0
1,4-Dichlorobenzene	ug/kg	0.0015 U mg/kg	26.4	23.5	16.4	14.0	62	59	66-127	16	M0
2-Butanone (MEK)	ug/kg	0.0016 U mg/kg	26.4	23.5	16.2	12.9	62	55	54-135	23	
2-Hexanone	ug/kg	0.0015 U mg/kg	26.4	23.5	12.5J	10.8J	48	46	58-148		M0
4-Methyl-2-pentanone (MIBK)	ug/kg	0.0013 U mg/kg	26.4	23.5	16.0	13.3	61	57	55-142	18	
Acetone	ug/kg	0.024 mg/kg	26.4	23.5	44.6	37.0	79	56	39-200	19	
Benzene	ug/kg	0.00097 U mg/kg	26.4	23.5	22.0	17.5	84	75	65-130	23	
Bromodichloromethane	ug/kg	0.0022 U mg/kg	26.4	23.5	20.2	15.3	77	65	57-125	28	
Bromoform	ug/kg	0.0031 U mg/kg	26.4	23.5	20.8	16.2	79	69	53-121	25	
Bromomethane	ug/kg	0.0036 U mg/kg	26.4	23.5	14.4	13.0	55	55	30-167	10	
Carbon disulfide	ug/kg	0.00095 U mg/kg	26.4	23.5	14.2	12.8	54	54	49-150	10	
Carbon tetrachloride	ug/kg	0.0011U mg/kg	26.4	23.5	13.2	11.0	50	47	47-146	18	
Chlorobenzene	ug/kg	0.0012 U mg/kg	26.4	23.5	20.7	16.2	78	69	67-124	24	
Chloroethane	ug/kg	0.0020 U mg/kg	26.4	23.5	18.8	14.7	71	62	34-170	25	
Chloroform	ug/kg	0.00088 U mg/kg	26.4	23.5	21.2	17.0	81	72	63-128	22	
Chloromethane	ug/kg	0.0013 U mg/kg	26.4	23.5	14.0	11.5	53	49	39-159	20	
cis-1,2-Dichloroethene	ug/kg	0.0031 U mg/kg	26.4	23.5	19.0	15.3	72	65	64-126	21	
cis-1,3-Dichloropropene	ug/kg	0.0019 U mg/kg	26.4	23.5	16.1	12.4	61	53	66-124	26	M0
Cyclohexane	ug/kg	0.0016 U mg/kg	26.4	23.5	10.9J	9.5J	41	41	37-186		
Dibromochloromethane	ug/kg	0.0019 U mg/kg	26.4	23.5	19.8	16.1	75	69	56-122	20	
Dichlorodifluoromethane	ug/kg	0.0011U mg/kg	26.4	23.5	8.7	7.7	33	33	10-189	12	
Ethylbenzene	ug/kg	0.0032 U mg/kg	26.4	23.5	17.4	14.0	66	60	65-131	21	M0
Isopropylbenzene (Cumene)	ug/kg	0.0013 U mg/kg	26.4	23.5	17.1	14.7	65	62	64-137	15	M0
Methyl acetate	ug/kg	0.0037 U mg/kg	26.4	23.5	12.4J	9.2J	47	39	10-200		
Methyl-tert-butyl ether	ug/kg	0.00088 U mg/kg	26.4	23.5	23.0	18.8	87	80	71-130	20	
Methylcyclohexane	ug/kg	0.0029 U mg/kg	26.4	23.5	10.7J	9.5J	41	40	61-159		M0
Methylene Chloride	ug/kg	0.0017J mg/kg	26.4	23.5	20.5	15.6	71	59	45-136	27	

QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3079608

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 503207 503208											
Parameter	Units	3079879002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Naphthalene	ug/kg	0.0031	26.4	23.5	15.2	12.5	54	49	70-123	19	M0
		U mg/kg									
Styrene	ug/kg	0.0014	26.4	23.5	23.2	18.1	88	77	64-122	25	
		U mg/kg									
Tetrachloroethene	ug/kg	0.00090	26.4	23.5	13.6	11.2	52	48	61-138	19	M0
		U mg/kg									
Toluene	ug/kg	0.00080	26.4	23.5	19.9	15.7	73	64	63-132	24	
		U mg/kg									
trans-1,2-Dichloroethene	ug/kg	0.0010	26.4	23.5	16.9	13.4	64	57	60-130	23	M0
		U mg/kg									
trans-1,3-Dichloropropene	ug/kg	0.0020	26.4	23.5	16.5	12.8	63	54	58-116	25	M0
		U mg/kg									
Trichloroethene	ug/kg	0.00094	26.4	23.5	17.1	13.0	65	55	65-131	27	M0
		U mg/kg									
Trichlorofluoromethane	ug/kg	0.0011U	26.4	23.5	9.6	8.6	36	37	49-148	10	M0
		mg/kg									
Vinyl chloride	ug/kg	0.0010	26.4	23.5	15.2	13.1	58	56	49-149	15	
		U mg/kg									
Xylene (Total)	ug/kg	0.0038	79.1	70.5	57.6	47.1	73	67	65-134	20	
		U mg/kg									
1,2-Dichloroethane-d4 (S)	%						82	87	70-130		
4-Bromofluorobenzene (S)	%						91	92	70-130		
Toluene-d8 (S)	%						98	97	70-130		

QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3079608

QC Batch: PMST/3455

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 3079608002, 3079608004

SAMPLE DUPLICATE: 503022

Parameter	Units	3079955001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	14.8	14.4	3	

SAMPLE DUPLICATE: 503023

Parameter	Units	3080171004 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	17.7	17.3	2	

QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3079608

QC Batch: PMST/3456

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 3079608003

SAMPLE DUPLICATE: 503641

Parameter	Units	3079608003 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	14.4	15.0	4	

SAMPLE DUPLICATE: 503642

Parameter	Units	3080086001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	0.53	0.53	.09	

QUALITY CONTROL DATA

Project: EPT Ithaca, NY

Pace Project No.: 3079608

QC Batch: PMST/3475

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 3079608001

SAMPLE DUPLICATE: 506837

Parameter	Units	3079608001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	14.7	13.7	8	

QUALIFIERS

Project: EPT Ithaca, NY

Pace Project No.: 3079608

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

C9 Common Laboratory Contaminant.

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

M3 Matrix spike recovery was outside laboratory control limits due to matrix interferences.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: EPT Ithaca, NY

Pace Project No.: 3079608

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3079608001	SB-101112-1	EPA 8260	MSV/14345		
3079608002	SB-101112-2	EPA 8260	MSV/14345		
3079608003	SB-101112-2 (14-15.5)	EPA 8260	MSV/14359		
3079608004	SB-101112-6	EPA 8260	MSV/14345		
3079608002	SB-101112-2	ASTM D2974-87	PMST/3455		
3079608003	SB-101112-2 (14-15.5)	ASTM D2974-87	PMST/3456		
3079608004	SB-101112-6	ASTM D2974-87	PMST/3455		

Appendix E – MW-10B Pumping Test Transducer Data

Appendix E-1

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
<u>Step Test and Beginning of Recovery Test</u>							
10/17/2012 16:45	0	2.161	16.033	4.99	5.4	1.017	565.86
10/17/2012 16:46	60.001	2.161	16.032	4.989	5.399	1.017	565.859
10/17/2012 16:47	120.001	2.161	16.033	4.99	5.4	1.017	565.86
10/17/2012 16:48	180.001	2.161	16.034	4.989	5.399	1.017	565.859
10/17/2012 16:49	240.001	2.161	16.033	4.99	5.4	1.017	565.86
10/17/2012 16:50	300.001	2.161	16.03	4.99	5.4	1.017	565.86
10/17/2012 16:51	360.001	2.161	16.034	4.991	5.401	1.017	565.861
10/17/2012 16:52	420.001	2.161	16.031	4.99	5.4	1.017	565.86
10/17/2012 16:53	480.001	2.161	16.041	4.99	5.4	1.017	565.86
10/17/2012 16:54	540.001	2.161	16.06	4.99	5.4	1.017	565.86
10/17/2012 16:55	600.001	2.162	16.087	4.991	5.401	1.017	565.861
10/17/2012 16:56	660.001	2.161	16.099	4.99	5.4	1.017	565.86
10/17/2012 16:57	720.088	2.162	16.111	4.991	5.401	1.017	565.861
10/17/2012 16:58	780.139	2.161	16.114	4.99	5.4	1.017	565.86
10/17/2012 16:59	840.203	2.161	16.116	4.989	5.399	1.017	565.859
10/17/2012 17:00	900.25	2.162	16.119	4.991	5.401	1.017	565.861
10/17/2012 17:01	960.279	2.148	16.118	4.959	5.369	1.011	565.829
10/17/2012 17:02	1020.302	2.067	16.121	4.773	5.183	0.976	565.643
10/17/2012 17:03	1080.328	2.068	16.13	4.774	5.184	0.976	565.644
10/17/2012 17:04	1140.365	2.031	16.132	4.689	5.099	0.96	565.559
10/17/2012 17:05	1200.392	1.987	16.132	4.588	4.998	0.941	565.458
10/17/2012 17:06	1260.435	1.917	16.139	4.427	4.837	0.911	565.297
10/17/2012 17:07	1320.484	1.858	16.15	4.29	4.7	0.885	565.16
10/17/2012 17:08	1380.506	1.843	16.163	4.255	4.665	0.879	565.125
10/17/2012 17:09	1440.533	1.835	16.172	4.237	4.647	0.875	565.107
10/17/2012 17:10	1500.557	1.836	16.18	4.24	4.65	0.876	565.11
10/17/2012 17:11	1560.584	1.837	16.186	4.242	4.652	0.876	565.112
10/17/2012 17:12	1620.614	1.817	16.18	4.196	4.606	0.867	565.066
10/17/2012 17:13	1680.642	1.806	16.178	4.171	4.581	0.863	565.041
10/17/2012 17:14	1740.666	1.797	16.176	4.149	4.559	0.859	565.019
10/17/2012 17:15	1800.001	1.794	16.157	4.142	4.552	0.857	565.012
10/17/2012 17:16	1860.001	1.775	16.163	4.098	4.508	0.849	564.968
10/17/2012 17:17	1920.001	1.799	16.162	4.154	4.564	0.86	565.024
10/17/2012 17:18	1980.001	1.757	16.163	4.057	4.467	0.841	564.927
10/17/2012 17:19	2040.001	1.719	16.164	3.97	4.38	0.825	564.84
10/17/2012 17:20	2100.001	1.687	16.168	3.896	4.306	0.811	564.766
10/17/2012 17:21	2160.001	1.652	16.181	3.815	4.225	0.796	564.685
10/17/2012 17:22	2220.001	1.62	16.198	3.74	4.15	0.782	564.61
10/17/2012 17:23	2280.001	1.587	16.219	3.665	4.075	0.767	564.535
10/17/2012 17:24	2340.001	1.556	16.24	3.592	4.002	0.754	564.462
10/17/2012 17:25	2400.001	1.523	16.256	3.516	3.926	0.739	564.386
10/17/2012 17:26	2460.001	1.49	16.275	3.441	3.851	0.725	564.311
10/17/2012 17:27	2520.001	1.457	16.29	3.364	3.774	0.711	564.234
10/17/2012 17:28	2580.001	1.426	16.305	3.293	3.703	0.697	564.163
10/17/2012 17:29	2640.001	1.397	16.322	3.225	3.635	0.685	564.095
10/17/2012 17:30	2700.001	1.369	16.338	3.162	3.572	0.673	564.032
10/17/2012 17:31	2760.001	1.336	16.354	3.085	3.495	0.658	563.955
10/17/2012 17:32	2820.001	1.293	16.376	2.985	3.395	0.639	563.855
10/17/2012 17:33	2880.001	1.251	16.391	2.888	3.298	0.621	563.758

Appendix E-1

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/17/2012 17:34	2940.001	1.209	16.401	2.791	3.201	0.603	563.661
10/17/2012 17:35	3000.001	1.167	16.408	2.694	3.104	0.585	563.564
10/17/2012 17:36	3060.001	1.126	16.41	2.599	3.009	0.567	563.469
10/17/2012 17:37	3120.001	1.083	16.412	2.502	2.912	0.548	563.372
10/17/2012 17:38	3180.001	1.042	16.407	2.406	2.816	0.53	563.276
10/17/2012 17:39	3240.001	0.997	16.398	2.302	2.712	0.511	563.172
10/17/2012 17:40	3300.001	0.95	16.397	2.193	2.603	0.49	563.063
10/17/2012 17:41	3360.001	0.904	16.391	2.086	2.496	0.47	562.956
10/17/2012 17:42	3420.001	0.86	16.381	1.986	2.396	0.451	562.856
10/17/2012 17:43	3480.001	0.82	16.371	1.894	2.304	0.434	562.764
10/17/2012 17:44	3540.001	0.781	16.364	1.804	2.214	0.417	562.674
10/17/2012 17:45	3600.001	0.742	16.356	1.713	2.123	0.4	562.583
10/17/2012 17:46	3660.001	0.69	16.343	1.593	2.003	0.377	562.463
10/17/2012 17:47	3720.001	0.637	16.334	1.471	1.881	0.354	562.341
10/17/2012 17:48	3780.001	0.583	16.324	1.347	1.757	0.331	562.217
10/17/2012 17:49	3840.001	0.529	16.31	1.22	1.63	0.307	562.09
10/17/2012 17:50	3900.001	0.474	16.301	1.094	1.504	0.283	561.964
10/17/2012 17:51	3960.001	0.421	16.289	0.973	1.383	0.26	561.843
10/17/2012 17:52	4020.001	0.37	16.278	0.853	1.263	0.238	561.723
10/17/2012 17:53	4080.001	0.316	16.264	0.731	1.141	0.215	561.601
10/17/2012 17:54	4140.001	0.263	16.253	0.606	1.016	0.191	561.476
10/17/2012 17:55	4200.001	0.211	16.245	0.487	0.897	0.169	561.357
10/17/2012 17:56	4260.001	0.159	16.234	0.368	0.778	0.147	561.238
10/17/2012 17:57	4320.141	0.11	16.225	0.254	0.664	0.125	561.124
10/17/2012 17:58	4380.164	0.064	16.226	0.147	0.557	0.105	561.017
10/17/2012 17:59	4440.192	0.016	16.227	0.037	0.447	0.084	560.907
10/17/2012 18:00	4500.215	0.006	16.231	0.014	0.424	0.08	560.884
10/17/2012 18:15	5400.576	0.049	16.228	0.113	0.523	0.098	560.983
10/17/2012 18:30	6300.216	0.069	16.106	0.16	0.57	0.107	561.03
10/17/2012 18:45	7200.216	0.08	16.073	0.184	0.594	0.112	561.054
10/17/2012 19:00	8100.216	0.088	16.061	0.202	0.612	0.115	561.072
10/17/2012 19:15	9000.216	0.093	16.056	0.215	0.625	0.118	561.085
10/17/2012 19:30	9900.216	0.099	16.051	0.228	0.638	0.12	561.098
10/17/2012 19:45	10800.216	0.102	16.048	0.235	0.645	0.121	561.105
10/17/2012 20:00	11700.216	0.105	16.042	0.243	0.653	0.123	561.113
10/17/2012 20:15	12600.216	0.109	16.042	0.251	0.661	0.124	561.121
10/17/2012 20:30	13500.216	0.111	16.041	0.256	0.666	0.125	561.126
10/17/2012 20:45	14400.216	0.114	16.04	0.262	0.672	0.127	561.132
10/17/2012 21:00	15300.216	0.115	16.039	0.267	0.677	0.127	561.137
10/17/2012 21:15	16200.216	0.117	16.04	0.271	0.681	0.128	561.141
10/17/2012 21:30	17100.216	0.119	16.037	0.275	0.685	0.129	561.145
10/17/2012 21:45	18000.216	0.121	16.035	0.28	0.69	0.13	561.15
10/17/2012 22:00	18900.216	0.122	16.038	0.282	0.692	0.13	561.152
10/17/2012 22:15	19800.216	0.123	16.036	0.285	0.695	0.131	561.155
10/17/2012 22:30	20700.216	0.125	16.034	0.288	0.698	0.131	561.158
10/17/2012 22:45	21600.216	0.126	16.037	0.292	0.702	0.132	561.162
10/17/2012 23:00	22500.216	0.127	16.033	0.294	0.704	0.133	561.164
10/17/2012 23:15	23400.216	0.129	16.033	0.297	0.707	0.133	561.167
10/17/2012 23:30	24300.216	0.13	16.036	0.299	0.709	0.134	561.169
10/17/2012 23:45	25200.216	0.13	16.034	0.301	0.711	0.134	561.171

Appendix E-1

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	Groundwater Elevation		
					H (ft)	H/H0	(ft AMSL)
10/18/2012 0:00	26100.216	0.131	16.033	0.304	0.714	0.134	561.174
10/18/2012 0:15	27000.216	0.133	16.035	0.307	0.717	0.135	561.177
10/18/2012 0:30	27900.216	0.134	16.036	0.31	0.72	0.136	561.18
10/18/2012 0:45	28800.216	0.135	16.032	0.312	0.722	0.136	561.182
10/18/2012 1:00	29700.216	0.136	16.035	0.314	0.724	0.136	561.184
10/18/2012 1:15	30600.216	0.137	16.035	0.317	0.727	0.137	561.187
10/18/2012 1:30	31500.216	0.138	16.035	0.319	0.729	0.137	561.189
10/18/2012 1:45	32400.216	0.14	16.033	0.322	0.732	0.138	561.192
10/18/2012 2:00	33300.216	0.141	16.034	0.325	0.735	0.138	561.195
Recovery Test							
10/18/2012 9:59	0	0.138	16.011	0.32	0.74	0.139	561.2
10/18/2012 10:14	900	0.142	16.015	0.328	0.748	0.141	561.208
10/18/2012 10:29	1800	0.143	16.029	0.331	0.751	0.141	561.211
10/18/2012 10:44	2700	0.146	16.03	0.337	0.757	0.143	561.217
10/18/2012 10:59	3600	0.148	16.035	0.341	0.761	0.143	561.221
10/18/2012 11:14	4500	0.149	16.034	0.344	0.764	0.144	561.224
10/18/2012 11:29	5400	0.151	16.038	0.348	0.768	0.145	561.228
10/18/2012 11:44	6300	0.152	16.039	0.352	0.772	0.145	561.232
10/18/2012 11:59	7200	0.154	16.038	0.356	0.776	0.146	561.236
10/18/2012 12:14	8100	0.156	16.04	0.361	0.781	0.147	561.241
10/18/2012 12:29	9000	0.157	16.042	0.364	0.784	0.148	561.244
10/18/2012 12:44	9900	0.158	16.039	0.365	0.785	0.148	561.245
10/18/2012 12:59	10800	0.159	16.041	0.367	0.787	0.148	561.247
10/18/2012 13:14	11700	0.16	16.044	0.37	0.79	0.149	561.25
10/18/2012 13:29	12600	0.161	16.043	0.372	0.792	0.149	561.252
10/18/2012 13:44	13500	0.162	16.044	0.374	0.794	0.15	561.254
10/18/2012 13:59	14400	0.164	16.042	0.378	0.798	0.15	561.258
10/18/2012 14:14	15300	0.164	16.043	0.379	0.799	0.15	561.259
10/18/2012 14:29	16200	0.166	16.041	0.382	0.802	0.151	561.262
10/18/2012 14:44	17100	0.166	16.041	0.384	0.804	0.151	561.264
10/18/2012 14:59	18000	0.167	16.044	0.386	0.806	0.152	561.266
10/18/2012 15:14	18900	0.168	16.044	0.389	0.809	0.152	561.269
10/18/2012 15:29	19800	0.169	16.047	0.391	0.811	0.153	561.271
10/18/2012 15:44	20700	0.17	16.045	0.394	0.814	0.153	561.274
10/18/2012 15:59	21600	0.171	16.044	0.396	0.816	0.154	561.276
10/18/2012 16:14	22500	0.172	16.043	0.398	0.818	0.154	561.278
10/18/2012 16:29	23400	0.174	16.043	0.401	0.821	0.155	561.281
10/18/2012 16:44	24300	0.174	16.045	0.403	0.823	0.155	561.283
10/18/2012 16:59	25200	0.176	16.045	0.406	0.826	0.156	561.286
10/18/2012 17:14	26100	0.176	16.043	0.406	0.826	0.156	561.286
10/18/2012 17:29	27000	0.177	16.045	0.409	0.829	0.156	561.289
10/18/2012 17:44	27900	0.179	16.044	0.412	0.832	0.157	561.292
10/18/2012 17:59	28800	0.18	16.047	0.415	0.835	0.157	561.295
10/18/2012 18:14	29700	0.181	16.045	0.417	0.837	0.158	561.297
10/18/2012 18:29	30600	0.182	16.045	0.42	0.84	0.158	561.3
10/18/2012 18:44	31500	0.183	16.047	0.422	0.842	0.159	561.302
10/18/2012 18:59	32400	0.184	16.046	0.425	0.845	0.159	561.305
10/18/2012 19:14	33300	0.185	16.045	0.428	0.848	0.16	561.308
10/18/2012 19:29	34200	0.185	16.046	0.428	0.848	0.16	561.308
10/18/2012 19:44	35100	0.187	16.043	0.432	0.852	0.16	561.312

Appendix E-1

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/18/2012 19:59	36000	0.188	16.047	0.434	0.854	0.161	561.314
10/18/2012 20:14	36900	0.189	16.046	0.437	0.857	0.161	561.317
10/18/2012 20:29	37800	0.19	16.049	0.439	0.859	0.162	561.319
10/18/2012 20:44	38700	0.191	16.048	0.442	0.862	0.162	561.322
10/18/2012 20:59	39600	0.193	16.048	0.446	0.866	0.163	561.326
10/18/2012 21:14	40500	0.194	16.048	0.447	0.867	0.163	561.327
10/18/2012 21:29	41400	0.195	16.05	0.45	0.87	0.164	561.33
10/18/2012 21:44	42300	0.196	16.049	0.453	0.873	0.164	561.333
10/18/2012 21:59	43200	0.197	16.048	0.456	0.876	0.165	561.336
10/18/2012 22:14	44100	0.198	16.047	0.458	0.878	0.165	561.338
10/18/2012 22:29	45000	0.199	16.048	0.46	0.88	0.166	561.34
10/18/2012 22:44	45900	0.201	16.049	0.464	0.884	0.166	561.344
10/18/2012 22:59	46800	0.202	16.047	0.466	0.886	0.167	561.346
10/18/2012 23:14	47700	0.203	16.048	0.468	0.888	0.167	561.348
10/18/2012 23:29	48600	0.204	16.05	0.471	0.891	0.168	561.351
10/18/2012 23:44	49500	0.205	16.05	0.474	0.894	0.168	561.354
10/18/2012 23:59	50400	0.206	16.049	0.476	0.896	0.169	561.356
10/19/2012 0:14	51300	0.208	16.049	0.48	0.9	0.169	561.36
10/19/2012 0:29	52200	0.209	16.048	0.482	0.902	0.17	561.362
10/19/2012 0:44	53100	0.21	16.048	0.484	0.904	0.17	561.364
10/19/2012 0:59	54000	0.211	16.046	0.488	0.908	0.171	561.368
10/19/2012 1:14	54900	0.212	16.049	0.489	0.909	0.171	561.369
10/19/2012 1:29	55800	0.213	16.051	0.492	0.912	0.172	561.372
10/19/2012 1:44	56700	0.214	16.051	0.495	0.915	0.172	561.375
10/19/2012 1:59	57600	0.216	16.051	0.499	0.919	0.173	561.379
10/19/2012 2:14	58500	0.217	16.053	0.501	0.921	0.173	561.381
10/19/2012 2:29	59400	0.218	16.05	0.503	0.923	0.174	561.383
10/19/2012 2:44	60300	0.219	16.051	0.506	0.926	0.174	561.386
10/19/2012 2:59	61200	0.221	16.05	0.509	0.929	0.175	561.389
10/19/2012 3:14	62100	0.222	16.049	0.512	0.932	0.176	561.392
10/19/2012 3:29	63000	0.223	16.052	0.514	0.934	0.176	561.394
10/19/2012 3:44	63900	0.224	16.049	0.518	0.938	0.177	561.398
10/19/2012 3:59	64800	0.226	16.053	0.521	0.941	0.177	561.401
10/19/2012 4:14	65700	0.227	16.051	0.523	0.943	0.178	561.403
10/19/2012 4:29	66600	0.227	16.051	0.524	0.944	0.178	561.404
10/19/2012 4:44	67500	0.228	16.051	0.527	0.947	0.178	561.407
10/19/2012 4:59	68400	0.229	16.053	0.53	0.95	0.179	561.41
10/19/2012 5:14	69300	0.231	16.051	0.533	0.953	0.179	561.413
10/19/2012 5:29	70200	0.232	16.053	0.536	0.956	0.18	561.416
10/19/2012 5:44	71100	0.233	16.052	0.539	0.959	0.181	561.419
10/19/2012 5:59	72000	0.235	16.051	0.542	0.962	0.181	561.422
10/19/2012 6:14	72900	0.236	16.053	0.544	0.964	0.182	561.424
10/19/2012 6:29	73800	0.236	16.053	0.546	0.966	0.182	561.426
10/19/2012 6:44	74700	0.238	16.051	0.549	0.969	0.182	561.429
10/19/2012 6:59	75600	0.239	16.054	0.553	0.973	0.183	561.433
10/19/2012 7:14	76500	0.24	16.054	0.554	0.974	0.183	561.434
10/19/2012 7:29	77400	0.242	16.051	0.558	0.978	0.184	561.438
10/19/2012 7:44	78300	0.243	16.054	0.561	0.981	0.185	561.441
10/19/2012 7:59	79200	0.244	16.055	0.563	0.983	0.185	561.443
10/19/2012 8:14	80100	0.245	16.053	0.566	0.986	0.186	561.446

Appendix E-1

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/19/2012 8:29	81000	0.246	16.054	0.569	0.989	0.186	561.449
10/19/2012 8:44	81900	0.248	16.054	0.571	0.991	0.187	561.451
10/19/2012 8:59	82800	0.248	16.053	0.573	0.993	0.187	561.453
10/19/2012 9:14	83700	0.249	16.052	0.575	0.995	0.187	561.455
10/19/2012 9:29	84600	0.251	16.055	0.579	0.999	0.188	561.459
10/19/2012 9:44	85500	0.252	16.053	0.581	1.001	0.189	561.461
10/19/2012 9:59	86400	0.253	16.054	0.584	1.004	0.189	561.464
10/19/2012 10:14	87300	0.254	16.055	0.586	1.006	0.189	561.466
10/19/2012 10:29	88200	0.255	16.053	0.59	1.01	0.19	561.47
10/19/2012 10:44	89100	0.257	16.053	0.593	1.013	0.191	561.473
10/19/2012 10:59	90000	0.258	16.055	0.595	1.015	0.191	561.475
10/19/2012 11:14	90900	0.259	16.054	0.599	1.019	0.192	561.479
10/19/2012 11:29	91800	0.26	16.055	0.601	1.021	0.192	561.481
10/19/2012 11:44	92700	0.261	16.055	0.604	1.024	0.193	561.484
10/19/2012 11:59	93600	0.263	16.054	0.606	1.026	0.193	561.486
10/19/2012 12:14	94500	0.264	16.056	0.609	1.029	0.194	561.489
10/19/2012 12:29	95400	0.265	16.054	0.612	1.032	0.194	561.492
10/19/2012 12:44	96300	0.266	16.055	0.614	1.034	0.195	561.494
10/19/2012 12:59	97200	0.267	16.055	0.617	1.037	0.195	561.497
10/19/2012 13:14	98100	0.268	16.055	0.62	1.04	0.196	561.5
10/19/2012 13:29	99000	0.27	16.057	0.622	1.042	0.196	561.502
10/19/2012 13:44	99900	0.271	16.056	0.625	1.045	0.197	561.505
10/19/2012 13:59	100800	0.272	16.057	0.628	1.048	0.197	561.508
10/19/2012 14:14	101700	0.273	16.059	0.63	1.05	0.198	561.51
10/19/2012 14:29	102600	0.274	16.055	0.633	1.053	0.198	561.513
10/19/2012 14:44	103500	0.275	16.056	0.634	1.054	0.198	561.514
10/19/2012 14:59	104400	0.277	16.057	0.639	1.059	0.199	561.519
10/19/2012 15:14	105300	0.278	16.058	0.641	1.061	0.2	561.521
10/19/2012 15:29	106200	0.279	16.06	0.644	1.064	0.2	561.524
10/19/2012 15:44	107100	0.28	16.056	0.647	1.067	0.201	561.527
10/19/2012 15:59	108000	0.281	16.057	0.65	1.07	0.202	561.53
10/19/2012 16:14	108900	0.282	16.057	0.651	1.071	0.202	561.531
10/19/2012 16:29	109800	0.283	16.061	0.654	1.074	0.202	561.534
10/19/2012 16:44	110700	0.285	16.057	0.657	1.077	0.203	561.537
10/19/2012 16:59	111600	0.285	16.059	0.659	1.079	0.203	561.539
10/19/2012 17:14	112500	0.287	16.061	0.662	1.082	0.204	561.542
10/19/2012 17:29	113400	0.288	16.058	0.665	1.085	0.204	561.545
10/19/2012 17:44	114300	0.29	16.057	0.669	1.089	0.205	561.549
10/19/2012 17:59	115200	0.29	16.061	0.67	1.09	0.205	561.55
10/19/2012 18:14	116100	0.292	16.06	0.674	1.094	0.206	561.554
10/19/2012 18:29	117000	0.293	16.058	0.676	1.096	0.206	561.556
10/19/2012 18:44	117900	0.294	16.061	0.679	1.099	0.207	561.559
10/19/2012 18:59	118800	0.295	16.059	0.682	1.102	0.208	561.562
10/19/2012 19:14	119700	0.296	16.059	0.683	1.103	0.208	561.563
10/19/2012 19:29	120600	0.297	16.058	0.687	1.107	0.208	561.567
10/19/2012 19:44	121500	0.299	16.063	0.69	1.11	0.209	561.57
10/19/2012 19:59	122400	0.3	16.058	0.693	1.113	0.21	561.573
10/19/2012 20:14	123300	0.301	16.06	0.695	1.115	0.21	561.575
10/19/2012 20:29	124200	0.302	16.059	0.698	1.118	0.211	561.578
10/19/2012 20:44	125100	0.303	16.064	0.7	1.12	0.211	561.58

Appendix E-1

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/19/2012 20:59	126000	0.305	16.061	0.703	1.123	0.211	561.583
10/19/2012 21:14	126900	0.305	16.061	0.705	1.125	0.212	561.585
10/19/2012 21:29	127800	0.307	16.062	0.709	1.129	0.213	561.589
10/19/2012 21:44	128700	0.308	16.062	0.711	1.131	0.213	561.591
10/19/2012 21:59	129600	0.309	16.061	0.714	1.134	0.214	561.594
10/19/2012 22:14	130500	0.311	16.061	0.717	1.137	0.214	561.597
10/19/2012 22:29	131400	0.311	16.058	0.719	1.139	0.215	561.599
10/19/2012 22:44	132300	0.313	16.062	0.722	1.142	0.215	561.602
10/19/2012 22:59	133200	0.314	16.062	0.725	1.145	0.216	561.605
10/19/2012 23:14	134100	0.315	16.061	0.727	1.147	0.216	561.607
10/19/2012 23:29	135000	0.316	16.063	0.73	1.15	0.217	561.61
10/19/2012 23:44	135900	0.318	16.063	0.733	1.153	0.217	561.613
10/19/2012 23:59	136800	0.318	16.063	0.735	1.155	0.218	561.615
10/20/2012 0:14	137700	0.32	16.062	0.738	1.158	0.218	561.618
10/20/2012 0:29	138600	0.321	16.062	0.742	1.162	0.219	561.622
10/20/2012 0:44	139500	0.323	16.063	0.745	1.165	0.219	561.625
10/20/2012 0:59	140400	0.323	16.066	0.747	1.167	0.22	561.627
10/20/2012 1:14	141300	0.325	16.062	0.751	1.171	0.221	561.631
10/20/2012 1:29	142200	0.326	16.064	0.752	1.172	0.221	561.632
10/20/2012 1:44	143100	0.328	16.063	0.757	1.177	0.222	561.637
10/20/2012 1:59	144000	0.329	16.064	0.759	1.179	0.222	561.639
10/20/2012 2:14	144900	0.33	16.064	0.763	1.183	0.223	561.643
10/20/2012 2:29	145800	0.331	16.062	0.765	1.185	0.223	561.645
10/20/2012 2:44	146700	0.332	16.065	0.767	1.187	0.224	561.647
10/20/2012 2:59	147600	0.333	16.063	0.769	1.189	0.224	561.649
10/20/2012 3:14	148500	0.334	16.061	0.772	1.192	0.224	561.652
10/20/2012 3:29	149400	0.336	16.067	0.777	1.197	0.225	561.657
10/20/2012 3:44	150300	0.337	16.064	0.778	1.198	0.226	561.658
10/20/2012 3:59	151200	0.339	16.066	0.782	1.202	0.226	561.662
10/20/2012 4:14	152100	0.34	16.067	0.785	1.205	0.227	561.665
10/20/2012 4:29	153000	0.341	16.064	0.788	1.208	0.227	561.668
10/20/2012 4:44	153900	0.342	16.065	0.791	1.211	0.228	561.671
10/20/2012 4:59	154800	0.344	16.066	0.794	1.214	0.229	561.674
10/20/2012 5:14	155700	0.344	16.064	0.795	1.215	0.229	561.675
10/20/2012 5:29	156600	0.346	16.064	0.799	1.219	0.23	561.679
10/20/2012 5:44	157500	0.347	16.063	0.802	1.222	0.23	561.682
10/20/2012 5:59	158400	0.349	16.064	0.805	1.225	0.231	561.685
10/20/2012 6:14	159300	0.35	16.066	0.807	1.227	0.231	561.687
10/20/2012 6:29	160200	0.351	16.064	0.81	1.23	0.232	561.69
10/20/2012 6:44	161100	0.352	16.067	0.813	1.233	0.232	561.693
10/20/2012 6:59	162000	0.353	16.067	0.816	1.236	0.233	561.696
10/20/2012 7:14	162900	0.355	16.065	0.82	1.24	0.234	561.7
10/20/2012 7:29	163800	0.355	16.068	0.82	1.24	0.234	561.7
10/20/2012 7:44	164700	0.357	16.065	0.824	1.244	0.234	561.704
10/20/2012 7:59	165600	0.358	16.066	0.827	1.247	0.235	561.707
10/20/2012 8:14	166500	0.359	16.068	0.83	1.25	0.235	561.71
10/20/2012 8:29	167400	0.36	16.067	0.832	1.252	0.236	561.712
10/20/2012 8:44	168300	0.362	16.067	0.836	1.256	0.237	561.716
10/20/2012 8:59	169200	0.363	16.07	0.838	1.258	0.237	561.718
10/20/2012 9:14	170100	0.364	16.068	0.841	1.261	0.237	561.721

Appendix E-1

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/20/2012 9:29	171000	0.365	16.067	0.844	1.264	0.238	561.724
10/20/2012 9:44	171900	0.366	16.066	0.845	1.265	0.238	561.725
10/20/2012 9:59	172800	0.368	16.072	0.85	1.27	0.239	561.73
10/20/2012 10:14	173700	0.369	16.07	0.852	1.272	0.24	561.732
10/20/2012 10:29	174600	0.371	16.07	0.856	1.276	0.24	561.736
10/20/2012 10:44	175500	0.372	16.069	0.859	1.279	0.241	561.739
10/20/2012 10:59	176400	0.373	16.069	0.861	1.281	0.241	561.741
10/20/2012 11:14	177300	0.374	16.067	0.863	1.283	0.242	561.743
10/20/2012 11:29	178200	0.375	16.068	0.866	1.286	0.242	561.746
10/20/2012 11:44	179100	0.376	16.072	0.869	1.289	0.243	561.749
10/20/2012 11:59	180000	0.377	16.07	0.871	1.291	0.243	561.751
10/20/2012 12:14	180900	0.379	16.067	0.874	1.294	0.244	561.754
10/20/2012 12:29	181800	0.38	16.069	0.877	1.297	0.244	561.757
10/20/2012 12:44	182700	0.382	16.069	0.881	1.301	0.245	561.761
10/20/2012 12:59	183600	0.382	16.07	0.882	1.302	0.245	561.762
10/20/2012 13:14	184500	0.383	16.069	0.885	1.305	0.246	561.765
10/20/2012 13:29	185400	0.385	16.072	0.889	1.309	0.247	561.769
10/20/2012 13:44	186300	0.386	16.071	0.891	1.311	0.247	561.771
10/20/2012 13:59	187200	0.388	16.071	0.895	1.315	0.248	561.775
10/20/2012 14:14	188100	0.388	16.071	0.896	1.316	0.248	561.776
10/20/2012 14:29	189000	0.39	16.07	0.901	1.321	0.249	561.781
10/20/2012 14:44	189900	0.391	16.07	0.903	1.323	0.249	561.783
10/20/2012 14:59	190800	0.391	16.071	0.904	1.324	0.249	561.784
10/20/2012 15:14	191700	0.393	16.07	0.908	1.328	0.25	561.788
10/20/2012 15:29	192600	0.394	16.071	0.91	1.33	0.25	561.79
10/20/2012 15:44	193500	0.395	16.07	0.912	1.332	0.251	561.792
10/20/2012 15:59	194400	0.396	16.071	0.915	1.335	0.251	561.795
10/20/2012 16:14	195300	0.398	16.073	0.918	1.338	0.252	561.798
10/20/2012 16:29	196200	0.399	16.07	0.921	1.341	0.253	561.801
10/20/2012 16:44	197100	0.4	16.069	0.924	1.344	0.253	561.804
10/20/2012 16:59	198000	0.401	16.073	0.927	1.347	0.254	561.807
10/20/2012 17:14	198900	0.403	16.073	0.93	1.35	0.254	561.81
10/20/2012 17:29	199800	0.404	16.073	0.932	1.352	0.255	561.812
10/20/2012 17:44	200700	0.405	16.07	0.935	1.355	0.255	561.815
10/20/2012 17:59	201600	0.406	16.072	0.938	1.358	0.256	561.818
10/20/2012 18:14	202500	0.407	16.073	0.94	1.36	0.256	561.82
10/20/2012 18:29	203400	0.409	16.07	0.943	1.363	0.257	561.823
10/20/2012 18:44	204300	0.409	16.075	0.945	1.365	0.257	561.825
10/20/2012 18:59	205200	0.411	16.074	0.948	1.368	0.258	561.828
10/20/2012 19:14	206100	0.412	16.072	0.951	1.371	0.258	561.831
10/20/2012 19:29	207000	0.413	16.076	0.954	1.374	0.259	561.834
10/20/2012 19:44	207900	0.415	16.073	0.958	1.378	0.26	561.838
10/20/2012 19:59	208800	0.416	16.074	0.959	1.379	0.26	561.839
10/20/2012 20:14	209700	0.417	16.072	0.963	1.383	0.26	561.843
10/20/2012 20:29	210600	0.418	16.077	0.965	1.385	0.261	561.845
10/20/2012 20:44	211500	0.419	16.078	0.968	1.388	0.261	561.848
10/20/2012 20:59	212400	0.42	16.074	0.971	1.391	0.262	561.851
10/20/2012 21:14	213300	0.421	16.072	0.973	1.393	0.262	561.853
10/20/2012 21:29	214200	0.422	16.072	0.976	1.396	0.263	561.856
10/20/2012 21:44	215100	0.424	16.075	0.978	1.398	0.263	561.858

Appendix E-1

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/20/2012 21:59	216000	0.425	16.076	0.982	1.402	0.264	561.862
10/20/2012 22:14	216900	0.426	16.076	0.983	1.403	0.264	561.863
10/20/2012 22:29	217800	0.428	16.077	0.988	1.408	0.265	561.868
10/20/2012 22:44	218700	0.429	16.076	0.991	1.411	0.266	561.871
10/20/2012 22:59	219600	0.43	16.077	0.993	1.413	0.266	561.873
10/20/2012 23:14	220500	0.431	16.08	0.996	1.416	0.267	561.876
10/20/2012 23:29	221400	0.432	16.076	0.998	1.418	0.267	561.878
10/20/2012 23:44	222300	0.433	16.076	1	1.42	0.267	561.88
10/20/2012 23:59	223200	0.435	16.076	1.003	1.423	0.268	561.883
10/21/2012 0:14	224100	0.436	16.078	1.006	1.426	0.269	561.886
10/21/2012 0:29	225000	0.437	16.076	1.009	1.429	0.269	561.889
10/21/2012 0:44	225900	0.438	16.077	1.012	1.432	0.27	561.892
10/21/2012 0:59	226800	0.439	16.075	1.015	1.435	0.27	561.895
10/21/2012 1:14	227700	0.441	16.077	1.017	1.437	0.271	561.897
10/21/2012 1:29	228600	0.441	16.078	1.019	1.439	0.271	561.899
10/21/2012 1:44	229500	0.443	16.077	1.023	1.443	0.272	561.903
10/21/2012 1:59	230400	0.444	16.078	1.025	1.445	0.272	561.905
10/21/2012 2:14	231300	0.445	16.076	1.029	1.449	0.273	561.909
10/21/2012 2:29	232200	0.446	16.078	1.03	1.45	0.273	561.91
10/21/2012 2:44	233100	0.448	16.077	1.034	1.454	0.274	561.914
10/21/2012 2:59	234000	0.449	16.078	1.037	1.457	0.274	561.917
10/21/2012 3:14	234900	0.45	16.078	1.038	1.458	0.275	561.918
10/21/2012 3:29	235800	0.452	16.079	1.043	1.463	0.276	561.923
10/21/2012 3:44	236700	0.452	16.081	1.044	1.464	0.276	561.924
10/21/2012 3:59	237600	0.454	16.078	1.048	1.468	0.276	561.928
10/21/2012 4:14	238500	0.454	16.079	1.049	1.469	0.277	561.929
10/21/2012 4:29	239400	0.456	16.079	1.053	1.473	0.277	561.933
10/21/2012 4:44	240300	0.457	16.079	1.055	1.475	0.278	561.935
10/21/2012 4:59	241200	0.459	16.078	1.059	1.479	0.279	561.939
10/21/2012 5:14	242100	0.459	16.082	1.061	1.481	0.279	561.941
10/21/2012 5:29	243000	0.461	16.079	1.063	1.483	0.279	561.943
10/21/2012 5:44	243900	0.462	16.08	1.067	1.487	0.28	561.947
10/21/2012 5:59	244800	0.463	16.08	1.069	1.489	0.28	561.949
10/21/2012 6:14	245700	0.464	16.08	1.071	1.491	0.281	561.951
10/21/2012 6:29	246600	0.465	16.077	1.074	1.494	0.281	561.954
10/21/2012 6:44	247500	0.467	16.079	1.078	1.498	0.282	561.958
10/21/2012 6:59	248400	0.467	16.08	1.079	1.499	0.282	561.959
10/21/2012 7:14	249300	0.469	16.081	1.083	1.503	0.283	561.963
10/21/2012 7:29	250200	0.47	16.083	1.085	1.505	0.283	561.965
10/21/2012 7:44	251100	0.471	16.083	1.088	1.508	0.284	561.968
10/21/2012 7:59	252000	0.473	16.08	1.092	1.512	0.285	561.972
10/21/2012 8:14	252900	0.474	16.079	1.094	1.514	0.285	561.974
10/21/2012 8:29	253800	0.475	16.082	1.096	1.516	0.285	561.976
10/21/2012 8:44	254700	0.476	16.081	1.098	1.518	0.286	561.978
10/21/2012 8:59	255600	0.477	16.081	1.102	1.522	0.287	561.982
10/21/2012 9:14	256500	0.478	16.082	1.104	1.524	0.287	561.984
10/21/2012 9:29	257400	0.48	16.079	1.107	1.527	0.288	561.987
10/21/2012 9:44	258300	0.481	16.084	1.11	1.53	0.288	561.99
10/21/2012 9:59	259200	0.482	16.082	1.113	1.533	0.289	561.993
10/21/2012 10:14	260100	0.483	16.081	1.115	1.535	0.289	561.995

Appendix E-1

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/21/2012 10:29	261000	0.484	16.081	1.118	1.538	0.29	561.998
10/21/2012 10:44	261900	0.485	16.084	1.12	1.54	0.29	562
10/21/2012 10:59	262800	0.487	16.084	1.124	1.544	0.291	562.004
10/21/2012 11:14	263700	0.487	16.081	1.125	1.545	0.291	562.005
10/21/2012 11:29	264600	0.489	16.081	1.129	1.549	0.292	562.009
10/21/2012 11:44	265500	0.49	16.085	1.132	1.552	0.292	562.012
10/21/2012 11:59	266400	0.491	16.082	1.135	1.555	0.293	562.015
10/21/2012 12:14	267300	0.494	16.084	1.14	1.56	0.294	562.02
10/21/2012 12:29	268200	0.494	16.083	1.141	1.561	0.294	562.021
10/21/2012 12:44	269100	0.495	16.082	1.143	1.563	0.294	562.023
10/21/2012 12:59	270000	0.496	16.079	1.145	1.565	0.295	562.025
10/21/2012 13:14	270900	0.498	16.084	1.149	1.569	0.295	562.029
10/21/2012 13:29	271800	0.499	16.085	1.153	1.573	0.296	562.033
10/21/2012 13:44	272700	0.5	16.085	1.154	1.574	0.296	562.034
10/21/2012 13:59	273600	0.501	16.083	1.158	1.578	0.297	562.038
10/21/2012 14:14	274500	0.502	16.082	1.16	1.58	0.298	562.04
10/21/2012 14:29	275400	0.504	16.084	1.163	1.583	0.298	562.043
10/21/2012 14:44	276300	0.505	16.086	1.166	1.586	0.299	562.046
10/21/2012 14:59	277200	0.506	16.086	1.168	1.588	0.299	562.048
10/21/2012 15:14	278100	0.508	16.083	1.172	1.592	0.3	562.052
10/21/2012 15:29	279000	0.509	16.085	1.175	1.595	0.3	562.055
10/21/2012 15:44	279900	0.51	16.086	1.177	1.597	0.301	562.057
10/21/2012 15:59	280800	0.511	16.084	1.179	1.599	0.301	562.059
10/21/2012 16:14	281700	0.512	16.086	1.182	1.602	0.302	562.062
10/21/2012 16:29	282600	0.514	16.085	1.186	1.606	0.302	562.066
10/21/2012 16:44	283500	0.515	16.087	1.189	1.609	0.303	562.069
10/21/2012 16:59	284400	0.516	16.086	1.19	1.61	0.303	562.07
10/21/2012 17:14	285300	0.517	16.09	1.193	1.613	0.304	562.073
10/21/2012 17:29	286200	0.518	16.085	1.196	1.616	0.304	562.076
10/21/2012 17:44	287100	0.519	16.086	1.199	1.619	0.305	562.079
10/21/2012 17:59	288000	0.521	16.085	1.202	1.622	0.305	562.082
10/21/2012 18:14	288900	0.522	16.085	1.204	1.624	0.306	562.084
10/21/2012 18:29	289800	0.523	16.085	1.207	1.627	0.306	562.087
10/21/2012 18:44	290700	0.524	16.087	1.21	1.63	0.307	562.09
10/21/2012 18:59	291600	0.525	16.087	1.212	1.632	0.307	562.092
10/21/2012 19:14	292500	0.526	16.086	1.215	1.635	0.308	562.095
10/21/2012 19:29	293400	0.527	16.086	1.218	1.638	0.308	562.098
10/21/2012 19:44	294300	0.529	16.088	1.222	1.642	0.309	562.102
10/21/2012 19:59	295200	0.53	16.091	1.224	1.644	0.31	562.104
10/21/2012 20:14	296100	0.531	16.089	1.227	1.647	0.31	562.107
10/21/2012 20:29	297000	0.532	16.089	1.229	1.649	0.311	562.109
10/21/2012 20:44	297900	0.533	16.088	1.232	1.652	0.311	562.112
10/21/2012 20:59	298800	0.535	16.088	1.235	1.655	0.312	562.115
10/21/2012 21:14	299700	0.536	16.09	1.237	1.657	0.312	562.117
10/21/2012 21:29	300600	0.537	16.09	1.241	1.661	0.313	562.121
10/21/2012 21:44	301500	0.539	16.09	1.243	1.663	0.313	562.123
10/21/2012 21:59	302400	0.539	16.087	1.245	1.665	0.314	562.125
10/21/2012 22:14	303300	0.541	16.087	1.249	1.669	0.314	562.129
10/21/2012 22:29	304200	0.542	16.088	1.252	1.672	0.315	562.132
10/21/2012 22:44	305100	0.543	16.088	1.254	1.674	0.315	562.134

Appendix E-1

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/21/2012 22:59	306000	0.544	16.086	1.256	1.676	0.316	562.136
10/21/2012 23:14	306900	0.546	16.091	1.261	1.681	0.317	562.141
10/21/2012 23:29	307800	0.547	16.089	1.262	1.682	0.317	562.142
10/21/2012 23:44	308700	0.548	16.091	1.265	1.685	0.317	562.145
10/21/2012 23:59	309600	0.549	16.089	1.268	1.688	0.318	562.148
10/22/2012 0:14	310500	0.55	16.089	1.271	1.691	0.318	562.151
10/22/2012 0:29	311400	0.552	16.091	1.274	1.694	0.319	562.154
10/22/2012 0:44	312300	0.553	16.089	1.276	1.696	0.319	562.156
10/22/2012 0:59	313200	0.554	16.092	1.278	1.698	0.32	562.158
10/22/2012 1:14	314100	0.555	16.091	1.282	1.702	0.321	562.162
10/22/2012 1:29	315000	0.556	16.091	1.284	1.704	0.321	562.164
10/22/2012 1:44	315900	0.558	16.092	1.287	1.707	0.321	562.167
10/22/2012 1:59	316800	0.559	16.09	1.291	1.711	0.322	562.171
10/22/2012 2:14	317700	0.56	16.091	1.293	1.713	0.323	562.173
10/22/2012 2:29	318600	0.561	16.091	1.296	1.716	0.323	562.176
10/22/2012 2:44	319500	0.562	16.09	1.299	1.719	0.324	562.179
10/22/2012 2:59	320400	0.563	16.091	1.3	1.72	0.324	562.18
10/22/2012 3:14	321300	0.565	16.092	1.304	1.724	0.325	562.184
10/22/2012 3:29	322200	0.566	16.093	1.307	1.727	0.325	562.187
10/22/2012 3:44	323100	0.567	16.092	1.309	1.729	0.326	562.189
10/22/2012 3:59	324000	0.568	16.093	1.312	1.732	0.326	562.192
10/22/2012 4:14	324900	0.57	16.091	1.316	1.736	0.327	562.196
10/22/2012 4:29	325800	0.57	16.092	1.317	1.737	0.327	562.197
10/22/2012 4:44	326700	0.572	16.094	1.32	1.74	0.328	562.2
10/22/2012 4:59	327600	0.573	16.094	1.323	1.743	0.328	562.203
10/22/2012 5:14	328500	0.574	16.092	1.325	1.745	0.329	562.205
10/22/2012 5:29	329400	0.575	16.092	1.328	1.748	0.329	562.208
10/22/2012 5:44	330300	0.576	16.092	1.331	1.751	0.33	562.211
10/22/2012 5:59	331200	0.578	16.09	1.335	1.755	0.331	562.215
10/22/2012 6:14	332100	0.578	16.091	1.336	1.756	0.331	562.216
10/22/2012 6:29	333000	0.58	16.09	1.34	1.76	0.331	562.22
10/22/2012 6:44	333900	0.581	16.091	1.342	1.762	0.332	562.222
10/22/2012 6:59	334800	0.582	16.095	1.345	1.765	0.332	562.225
10/22/2012 7:14	335700	0.584	16.096	1.348	1.768	0.333	562.228
10/22/2012 7:29	336600	0.584	16.091	1.349	1.769	0.333	562.229
10/22/2012 7:44	337500	0.585	16.095	1.352	1.772	0.334	562.232
10/22/2012 7:59	338400	0.587	16.095	1.356	1.776	0.334	562.236
10/22/2012 8:14	339300	0.588	16.093	1.358	1.778	0.335	562.238
10/22/2012 8:29	340200	0.589	16.095	1.36	1.78	0.335	562.24
10/22/2012 8:44	341100	0.59	16.095	1.363	1.783	0.336	562.243
10/22/2012 8:59	342000	0.592	16.094	1.367	1.787	0.337	562.247
10/22/2012 9:14	342900	0.593	16.095	1.369	1.789	0.337	562.249
10/22/2012 9:29	343800	0.594	16.094	1.372	1.792	0.337	562.252
10/22/2012 9:44	344700	0.595	16.097	1.374	1.794	0.338	562.254
10/22/2012 9:59	345600	0.596	16.093	1.377	1.797	0.338	562.257
10/22/2012 10:14	346500	0.598	16.095	1.38	1.8	0.339	562.26
10/22/2012 10:29	347400	0.599	16.096	1.382	1.802	0.339	562.262
10/22/2012 10:44	348300	0.6	16.096	1.386	1.806	0.34	562.266
10/22/2012 10:59	349200	0.601	16.097	1.388	1.808	0.34	562.268
10/22/2012 11:14	350100	0.602	16.094	1.391	1.811	0.341	562.271

Appendix E-1

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/22/2012 11:29	351000	0.604	16.096	1.394	1.814	0.342	562.274
10/22/2012 11:44	351900	0.605	16.096	1.397	1.817	0.342	562.277
10/22/2012 11:59	352800	0.606	16.095	1.4	1.82	0.343	562.28
10/22/2012 12:14	353700	0.607	16.097	1.402	1.822	0.343	562.282
10/22/2012 12:29	354600	0.608	16.093	1.405	1.825	0.344	562.285
10/22/2012 12:44	355500	0.61	16.097	1.408	1.828	0.344	562.288
10/22/2012 12:59	356400	0.611	16.096	1.41	1.83	0.345	562.29
10/22/2012 13:14	357300	0.612	16.098	1.413	1.833	0.345	562.293
10/22/2012 13:29	358200	0.613	16.097	1.415	1.835	0.346	562.295
10/22/2012 13:44	359100	0.615	16.098	1.419	1.839	0.346	562.299
10/22/2012 13:59	360000	0.616	16.099	1.422	1.842	0.347	562.302
10/22/2012 14:14	360900	0.617	16.097	1.424	1.844	0.347	562.304
10/22/2012 14:29	361800	0.618	16.099	1.427	1.847	0.348	562.307
10/22/2012 14:44	362700	0.619	16.097	1.43	1.85	0.348	562.31
10/22/2012 14:59	363600	0.621	16.099	1.433	1.853	0.349	562.313
10/22/2012 15:14	364500	0.621	16.097	1.434	1.854	0.349	562.314
10/22/2012 15:29	365400	0.623	16.098	1.438	1.858	0.35	562.318
10/22/2012 15:44	366300	0.624	16.098	1.441	1.861	0.35	562.321
10/22/2012 15:59	367200	0.625	16.099	1.444	1.864	0.351	562.324
10/22/2012 16:14	368100	0.627	16.099	1.447	1.867	0.352	562.327
10/22/2012 16:29	369000	0.628	16.099	1.45	1.87	0.352	562.33
10/22/2012 16:44	369900	0.629	16.098	1.452	1.872	0.353	562.332
10/22/2012 16:59	370800	0.63	16.101	1.455	1.875	0.353	562.335
10/22/2012 17:14	371700	0.631	16.1	1.457	1.877	0.353	562.337
10/22/2012 17:29	372600	0.632	16.1	1.46	1.88	0.354	562.34
10/22/2012 17:44	373500	0.634	16.096	1.463	1.883	0.355	562.343
10/22/2012 17:59	374400	0.635	16.1	1.466	1.886	0.355	562.346
10/22/2012 18:14	375300	0.636	16.099	1.469	1.889	0.356	562.349
10/22/2012 18:29	376200	0.637	16.099	1.471	1.891	0.356	562.351
10/22/2012 18:44	377100	0.638	16.099	1.474	1.894	0.357	562.354
10/22/2012 18:59	378000	0.64	16.098	1.477	1.897	0.357	562.357
10/22/2012 19:14	378900	0.64	16.101	1.478	1.898	0.357	562.358
10/22/2012 19:29	379800	0.642	16.099	1.483	1.903	0.358	562.363
10/22/2012 19:44	380700	0.643	16.102	1.485	1.905	0.359	562.365
10/22/2012 19:59	381600	0.645	16.097	1.488	1.908	0.359	562.368
10/22/2012 20:14	382500	0.645	16.102	1.49	1.91	0.36	562.37
10/22/2012 20:29	383400	0.647	16.101	1.494	1.914	0.36	562.374
10/22/2012 20:44	384300	0.648	16.101	1.496	1.916	0.361	562.376
10/22/2012 20:59	385200	0.649	16.101	1.498	1.918	0.361	562.378
10/22/2012 21:14	386100	0.65	16.102	1.501	1.921	0.362	562.381
10/22/2012 21:29	387000	0.652	16.101	1.505	1.925	0.363	562.385
10/22/2012 21:44	387900	0.652	16.103	1.506	1.926	0.363	562.386
10/22/2012 21:59	388800	0.654	16.103	1.51	1.93	0.363	562.39
10/22/2012 22:14	389700	0.655	16.101	1.512	1.932	0.364	562.392
10/22/2012 22:29	390600	0.656	16.102	1.516	1.936	0.365	562.396
10/22/2012 22:44	391500	0.657	16.103	1.517	1.937	0.365	562.397
10/22/2012 22:59	392400	0.658	16.102	1.52	1.94	0.365	562.4
10/22/2012 23:14	393300	0.66	16.101	1.524	1.944	0.366	562.404
10/22/2012 23:29	394200	0.661	16.103	1.526	1.946	0.366	562.406
10/22/2012 23:44	395100	0.662	16.103	1.529	1.949	0.367	562.409

Appendix E-1

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/22/2012 23:59	396000	0.663	16.102	1.531	1.951	0.367	562.411
10/23/2012 0:14	396900	0.665	16.106	1.534	1.954	0.368	562.414
10/23/2012 0:29	397800	0.666	16.102	1.538	1.958	0.369	562.418
10/23/2012 0:44	398700	0.667	16.104	1.54	1.96	0.369	562.42
10/23/2012 0:59	399600	0.668	16.104	1.543	1.963	0.37	562.423
10/23/2012 1:14	400500	0.669	16.106	1.545	1.965	0.37	562.425
10/23/2012 1:29	401400	0.671	16.102	1.549	1.969	0.371	562.429
10/23/2012 1:44	402300	0.671	16.104	1.55	1.97	0.371	562.43
10/23/2012 1:59	403200	0.673	16.103	1.555	1.975	0.372	562.435
10/23/2012 2:14	404100	0.674	16.105	1.557	1.977	0.372	562.437
10/23/2012 2:29	405000	0.675	16.106	1.559	1.979	0.373	562.439
10/23/2012 2:44	405900	0.677	16.106	1.563	1.983	0.373	562.443
10/23/2012 2:59	406800	0.678	16.105	1.565	1.985	0.374	562.445
10/23/2012 3:14	407700	0.679	16.102	1.569	1.989	0.375	562.449
10/23/2012 3:29	408600	0.68	16.104	1.57	1.99	0.375	562.45
10/23/2012 3:44	409500	0.682	16.105	1.575	1.995	0.376	562.455
10/23/2012 3:59	410400	0.683	16.106	1.576	1.996	0.376	562.456
10/23/2012 4:14	411300	0.684	16.106	1.58	2	0.377	562.46
10/23/2012 4:29	412200	0.685	16.104	1.583	2.003	0.377	562.463
10/23/2012 4:44	413100	0.687	16.106	1.585	2.005	0.378	562.465
10/23/2012 4:59	414000	0.687	16.105	1.587	2.007	0.378	562.467
10/23/2012 5:14	414900	0.689	16.105	1.591	2.011	0.379	562.471
10/23/2012 5:29	415800	0.691	16.102	1.594	2.014	0.379	562.474
10/23/2012 5:44	416700	0.691	16.103	1.596	2.016	0.38	562.476
10/23/2012 5:59	417600	0.693	16.106	1.6	2.02	0.38	562.48
10/23/2012 6:14	418500	0.694	16.107	1.602	2.022	0.381	562.482
10/23/2012 6:29	419400	0.695	16.106	1.605	2.025	0.381	562.485
10/23/2012 6:44	420300	0.696	16.104	1.608	2.028	0.382	562.488
10/23/2012 6:59	421200	0.698	16.106	1.611	2.031	0.382	562.491
10/23/2012 7:14	422100	0.699	16.108	1.614	2.034	0.383	562.494
10/23/2012 7:29	423000	0.7	16.104	1.617	2.037	0.384	562.497
10/23/2012 7:44	423900	0.701	16.107	1.619	2.039	0.384	562.499
10/23/2012 7:59	424800	0.702	16.108	1.621	2.041	0.384	562.501
10/23/2012 8:14	425700	0.704	16.106	1.625	2.045	0.385	562.505
10/23/2012 8:29	426600	0.705	16.107	1.628	2.048	0.386	562.508
10/23/2012 8:44	427500	0.706	16.109	1.631	2.051	0.386	562.511
10/23/2012 8:59	428400	0.708	16.108	1.634	2.054	0.387	562.514
10/23/2012 9:14	429300	0.709	16.108	1.636	2.056	0.387	562.516
10/23/2012 9:29	430200	0.71	16.109	1.639	2.059	0.388	562.519
10/23/2012 9:44	431100	0.711	16.106	1.641	2.061	0.388	562.521
10/23/2012 9:59	432000	0.712	16.107	1.644	2.064	0.389	562.524
10/23/2012 10:14	432900	0.713	16.109	1.646	2.066	0.389	562.526
10/23/2012 10:29	433800	0.715	16.106	1.65	2.07	0.39	562.53
10/23/2012 10:44	434700	0.716	16.108	1.652	2.072	0.39	562.532
10/23/2012 10:59	435600	0.717	16.106	1.655	2.075	0.391	562.535
10/23/2012 11:14	436500	0.718	16.106	1.658	2.078	0.391	562.538
10/23/2012 11:29	437400	0.719	16.108	1.661	2.081	0.392	562.541
10/23/2012 11:44	438300	0.721	16.108	1.664	2.084	0.392	562.544
10/23/2012 11:59	439200	0.722	16.108	1.666	2.086	0.393	562.546
10/23/2012 12:14	440100	0.723	16.109	1.668	2.088	0.393	562.548

Appendix E-1

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/23/2012 12:29	441000	0.724	16.11	1.672	2.092	0.394	562.552
10/23/2012 12:44	441900	0.726	16.108	1.676	2.096	0.395	562.556
10/23/2012 12:59	442800	0.727	16.108	1.678	2.098	0.395	562.558
10/23/2012 13:14	443700	0.728	16.109	1.68	2.1	0.395	562.56
10/23/2012 13:29	444600	0.729	16.11	1.684	2.104	0.396	562.564
10/23/2012 13:44	445500	0.73	16.11	1.686	2.106	0.397	562.566
10/23/2012 13:59	446400	0.731	16.109	1.688	2.108	0.397	562.568
10/23/2012 14:14	447300	0.733	16.111	1.692	2.112	0.398	562.572
10/23/2012 14:29	448200	0.734	16.109	1.694	2.114	0.398	562.574
10/23/2012 14:44	449100	0.735	16.111	1.697	2.117	0.399	562.577
10/23/2012 14:59	450000	0.736	16.111	1.7	2.12	0.399	562.58
10/23/2012 15:14	450900	0.738	16.113	1.703	2.123	0.4	562.583
10/23/2012 15:29	451800	0.739	16.109	1.706	2.126	0.4	562.586
10/23/2012 15:44	452700	0.739	16.108	1.707	2.127	0.401	562.587
10/23/2012 15:59	453600	0.741	16.112	1.712	2.132	0.402	562.592
10/23/2012 16:14	454500	0.743	16.112	1.715	2.135	0.402	562.595
10/23/2012 16:29	455400	0.743	16.111	1.716	2.136	0.402	562.596
10/23/2012 16:44	456300	0.745	16.111	1.719	2.139	0.403	562.599
10/23/2012 16:59	457200	0.746	16.113	1.721	2.141	0.403	562.601
10/23/2012 17:14	458100	0.747	16.109	1.724	2.144	0.404	562.604
10/23/2012 17:29	459000	0.748	16.109	1.727	2.147	0.404	562.607
10/23/2012 17:44	459900	0.749	16.11	1.73	2.15	0.405	562.61
10/23/2012 17:59	460800	0.751	16.111	1.733	2.153	0.405	562.613
10/23/2012 18:14	461700	0.752	16.115	1.736	2.156	0.406	562.616
10/23/2012 18:29	462600	0.753	16.112	1.739	2.159	0.407	562.619
10/23/2012 18:44	463500	0.754	16.11	1.741	2.161	0.407	562.621
10/23/2012 18:59	464400	0.755	16.11	1.743	2.163	0.407	562.623
10/23/2012 19:14	465300	0.756	16.11	1.747	2.167	0.408	562.627
10/23/2012 19:29	466200	0.757	16.112	1.749	2.169	0.408	562.629
10/23/2012 19:44	467100	0.759	16.111	1.753	2.173	0.409	562.633
10/23/2012 19:59	468000	0.76	16.111	1.755	2.175	0.41	562.635
10/23/2012 20:14	468900	0.761	16.113	1.758	2.178	0.41	562.638
10/23/2012 20:29	469800	0.763	16.11	1.762	2.182	0.411	562.642
10/23/2012 20:44	470700	0.764	16.114	1.764	2.184	0.411	562.644
10/23/2012 20:59	471600	0.765	16.114	1.766	2.186	0.412	562.646
10/23/2012 21:14	472500	0.766	16.114	1.77	2.19	0.412	562.65
10/23/2012 21:29	473400	0.767	16.111	1.772	2.192	0.413	562.652
10/23/2012 21:44	474300	0.768	16.115	1.774	2.194	0.413	562.654
10/23/2012 21:59	475200	0.77	16.116	1.778	2.198	0.414	562.658
10/23/2012 22:14	476100	0.771	16.116	1.781	2.201	0.415	562.661
10/23/2012 22:29	477000	0.772	16.112	1.783	2.203	0.415	562.663
10/23/2012 22:44	477900	0.774	16.113	1.788	2.208	0.416	562.668
10/23/2012 22:59	478800	0.775	16.113	1.789	2.209	0.416	562.669
10/23/2012 23:14	479700	0.776	16.115	1.793	2.213	0.417	562.673
10/23/2012 23:29	480600	0.778	16.116	1.796	2.216	0.417	562.676
10/23/2012 23:44	481500	0.779	16.113	1.798	2.218	0.418	562.678
10/23/2012 23:59	482400	0.78	16.114	1.801	2.221	0.418	562.681
10/24/2012 0:14	483300	0.781	16.112	1.804	2.224	0.419	562.684
10/24/2012 0:29	484200	0.783	16.112	1.808	2.228	0.42	562.688
10/24/2012 0:44	485100	0.784	16.117	1.81	2.23	0.42	562.69

Appendix E-1

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	Groundwater Elevation		
					H (ft)	H/H0	(ft AMSL)
10/24/2012 0:59	486000	0.785	16.116	1.812	2.232	0.42	562.692
10/24/2012 1:14	486900	0.787	16.117	1.817	2.237	0.421	562.697
10/24/2012 1:29	487800	0.788	16.117	1.818	2.238	0.421	562.698
10/24/2012 1:44	488700	0.789	16.114	1.821	2.241	0.422	562.701
10/24/2012 1:59	489600	0.79	16.114	1.823	2.243	0.422	562.703
10/24/2012 2:14	490500	0.791	16.115	1.826	2.246	0.423	562.706
10/24/2012 2:29	491400	0.793	16.115	1.831	2.251	0.424	562.711
10/24/2012 2:44	492300	0.794	16.115	1.833	2.253	0.424	562.713
10/24/2012 2:59	493200	0.795	16.117	1.836	2.256	0.425	562.716
10/24/2012 3:14	494100	0.797	16.117	1.839	2.259	0.425	562.719
10/24/2012 3:29	495000	0.798	16.117	1.843	2.263	0.426	562.723
10/24/2012 3:44	495900	0.8	16.115	1.846	2.266	0.427	562.726
10/24/2012 3:59	496800	0.8	16.118	1.848	2.268	0.427	562.728
10/24/2012 4:14	497700	0.802	16.116	1.851	2.271	0.428	562.731
10/24/2012 4:29	498600	0.803	16.118	1.854	2.274	0.428	562.734
10/24/2012 4:44	499500	0.805	16.119	1.858	2.278	0.429	562.738
10/24/2012 4:59	500400	0.806	16.118	1.861	2.281	0.43	562.741
10/24/2012 5:14	501300	0.807	16.115	1.863	2.283	0.43	562.743
10/24/2012 5:29	502200	0.808	16.12	1.867	2.287	0.431	562.747
10/24/2012 5:44	503100	0.81	16.118	1.869	2.289	0.431	562.749
10/24/2012 5:59	504000	0.811	16.119	1.872	2.292	0.432	562.752
10/24/2012 6:14	504900	0.812	16.118	1.874	2.294	0.432	562.754
10/24/2012 6:29	505800	0.813	16.118	1.878	2.298	0.433	562.758
10/24/2012 6:44	506700	0.815	16.118	1.882	2.302	0.434	562.762
10/24/2012 6:59	507600	0.816	16.117	1.884	2.304	0.434	562.764
10/24/2012 7:14	508500	0.818	16.114	1.888	2.308	0.435	562.768
10/24/2012 7:29	509400	0.819	16.118	1.891	2.311	0.435	562.771
10/24/2012 7:44	510300	0.82	16.119	1.894	2.314	0.436	562.774
10/24/2012 7:59	511200	0.821	16.115	1.896	2.316	0.436	562.776
10/24/2012 8:14	512100	0.823	16.12	1.9	2.32	0.437	562.78
10/24/2012 8:29	513000	0.824	16.119	1.903	2.323	0.437	562.783
10/24/2012 8:44	513900	0.826	16.118	1.907	2.327	0.438	562.787
10/24/2012 8:59	514800	0.827	16.121	1.91	2.33	0.439	562.79
10/24/2012 9:14	515700	0.828	16.119	1.911	2.331	0.439	562.791
10/24/2012 9:29	516600	0.83	16.122	1.915	2.335	0.44	562.795
10/24/2012 9:44	517500	0.831	16.12	1.919	2.339	0.44	562.799
10/24/2012 9:59	518400	0.832	16.123	1.921	2.341	0.441	562.801
10/24/2012 10:14	519300	0.833	16.119	1.924	2.344	0.441	562.804
10/24/2012 10:29	520200	0.835	16.121	1.928	2.348	0.442	562.808
10/24/2012 10:44	521100	0.836	16.119	1.931	2.351	0.443	562.811
10/24/2012 10:59	522000	0.838	16.118	1.934	2.354	0.443	562.814
10/24/2012 11:14	522900	0.839	16.12	1.937	2.357	0.444	562.817
10/24/2012 11:29	523800	0.84	16.12	1.94	2.36	0.444	562.82
10/24/2012 11:44	524700	0.842	16.119	1.944	2.364	0.445	562.824
10/24/2012 11:59	525600	0.843	16.119	1.946	2.366	0.446	562.826
10/24/2012 12:14	526500	0.844	16.118	1.95	2.37	0.446	562.83
10/24/2012 12:29	527400	0.846	16.12	1.953	2.373	0.447	562.833
10/24/2012 12:44	528300	0.847	16.125	1.956	2.376	0.447	562.836
10/24/2012 12:59	529200	0.848	16.121	1.959	2.379	0.448	562.839
10/24/2012 13:14	530100	0.85	16.121	1.962	2.382	0.449	562.842

Appendix E-1

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/24/2012 13:29	531000	0.851	16.121	1.966	2.386	0.449	562.846
10/24/2012 13:44	531900	0.853	16.121	1.968	2.388	0.45	562.848
10/24/2012 13:59	532800	0.854	16.123	1.973	2.393	0.451	562.853
10/24/2012 14:14	533700	0.855	16.12	1.975	2.395	0.451	562.855
10/24/2012 14:29	534600	0.857	16.123	1.978	2.398	0.452	562.858
10/24/2012 14:44	535500	0.858	16.123	1.981	2.401	0.452	562.861
10/24/2012 14:59	536400	0.859	16.122	1.984	2.404	0.453	562.864
10/24/2012 15:14	537300	0.861	16.123	1.987	2.407	0.453	562.867
10/24/2012 15:29	538200	0.862	16.121	1.99	2.41	0.454	562.87
10/24/2012 15:44	539100	0.864	16.124	1.994	2.414	0.455	562.874
10/24/2012 15:59	540000	0.865	16.123	1.996	2.416	0.455	562.876
10/24/2012 16:14	540900	0.866	16.121	2	2.42	0.456	562.88
10/24/2012 16:29	541800	0.868	16.122	2.003	2.423	0.456	562.883
10/24/2012 16:44	542700	0.869	16.121	2.006	2.426	0.457	562.886
10/24/2012 16:59	543600	0.87	16.125	2.01	2.43	0.458	562.89
10/24/2012 17:14	544500	0.872	16.122	2.012	2.432	0.458	562.892
10/24/2012 17:29	545400	0.872	16.123	2.014	2.434	0.458	562.894
10/24/2012 17:44	546300	0.874	16.125	2.018	2.438	0.459	562.898
10/24/2012 17:59	547200	0.875	16.122	2.021	2.441	0.46	562.901
10/24/2012 18:14	548100	0.876	16.124	2.023	2.443	0.46	562.903
10/24/2012 18:29	549000	0.877	16.127	2.026	2.446	0.461	562.906
10/24/2012 18:44	549900	0.879	16.122	2.03	2.45	0.461	562.91
10/24/2012 18:59	550800	0.88	16.124	2.033	2.453	0.462	562.913
10/24/2012 19:14	551700	0.881	16.123	2.035	2.455	0.462	562.915
10/24/2012 19:29	552600	0.883	16.124	2.039	2.459	0.463	562.919
10/24/2012 19:44	553500	0.884	16.124	2.042	2.462	0.464	562.922
10/24/2012 19:59	554400	0.886	16.128	2.045	2.465	0.464	562.925
10/24/2012 20:14	555300	0.887	16.126	2.048	2.468	0.465	562.928
10/24/2012 20:29	556200	0.888	16.127	2.051	2.471	0.465	562.931
10/24/2012 20:44	557100	0.889	16.124	2.053	2.473	0.466	562.933
10/24/2012 20:59	558000	0.891	16.122	2.057	2.477	0.466	562.937
10/24/2012 21:14	558900	0.892	16.124	2.059	2.479	0.467	562.939
10/24/2012 21:29	559800	0.893	16.124	2.063	2.483	0.468	562.943
10/24/2012 21:44	560700	0.895	16.125	2.067	2.487	0.468	562.947
10/24/2012 21:59	561600	0.896	16.126	2.069	2.489	0.469	562.949
10/24/2012 22:14	562500	0.898	16.128	2.072	2.492	0.469	562.952
10/24/2012 22:29	563400	0.899	16.125	2.075	2.495	0.47	562.955
10/24/2012 22:44	564300	0.9	16.123	2.079	2.499	0.471	562.959
10/24/2012 22:59	565200	0.901	16.124	2.081	2.501	0.471	562.961
10/24/2012 23:14	566100	0.903	16.126	2.085	2.505	0.472	562.965
10/24/2012 23:29	567000	0.904	16.125	2.087	2.507	0.472	562.967
10/24/2012 23:44	567900	0.906	16.125	2.091	2.511	0.473	562.971
10/24/2012 23:59	568800	0.907	16.125	2.094	2.514	0.473	562.974
10/25/2012 0:14	569700	0.908	16.126	2.097	2.517	0.474	562.977
10/25/2012 0:29	570600	0.909	16.125	2.1	2.52	0.475	562.98
10/25/2012 0:44	571500	0.911	16.125	2.103	2.523	0.475	562.983
10/25/2012 0:59	572400	0.912	16.129	2.106	2.526	0.476	562.986
10/25/2012 1:14	573300	0.913	16.125	2.109	2.529	0.476	562.989
10/25/2012 1:29	574200	0.915	16.124	2.113	2.533	0.477	562.993
10/25/2012 1:44	575100	0.916	16.125	2.116	2.536	0.478	562.996

Appendix E-1

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/25/2012 1:59	576000	0.918	16.124	2.119	2.539	0.478	562.999
10/25/2012 2:14	576900	0.919	16.128	2.122	2.542	0.479	563.002
10/25/2012 2:29	577800	0.92	16.127	2.125	2.545	0.479	563.005
10/25/2012 2:44	578700	0.922	16.127	2.128	2.548	0.48	563.008
10/25/2012 2:59	579600	0.923	16.127	2.131	2.551	0.48	563.011
10/25/2012 3:14	580500	0.925	16.125	2.135	2.555	0.481	563.015
10/25/2012 3:29	581400	0.926	16.128	2.138	2.558	0.482	563.018
10/25/2012 3:44	582300	0.927	16.127	2.14	2.56	0.482	563.02
10/25/2012 3:59	583200	0.929	16.127	2.144	2.564	0.483	563.024
10/25/2012 4:14	584100	0.93	16.129	2.148	2.568	0.484	563.028
10/25/2012 4:29	585000	0.931	16.128	2.151	2.571	0.484	563.031
10/25/2012 4:44	585900	0.933	16.131	2.154	2.574	0.485	563.034
10/25/2012 4:59	586800	0.935	16.128	2.158	2.578	0.485	563.038
10/25/2012 5:14	587700	0.935	16.129	2.16	2.58	0.486	563.04
10/25/2012 5:29	588600	0.937	16.131	2.164	2.584	0.487	563.044
10/25/2012 5:44	589500	0.938	16.131	2.165	2.585	0.487	563.045
10/25/2012 5:59	590400	0.94	16.131	2.171	2.591	0.488	563.051
10/25/2012 6:14	591300	0.941	16.131	2.174	2.594	0.489	563.054
10/25/2012 6:29	592200	0.943	16.129	2.176	2.596	0.489	563.056
10/25/2012 6:44	593100	0.944	16.129	2.181	2.601	0.49	563.061
10/25/2012 6:59	594000	0.946	16.133	2.184	2.604	0.49	563.064
10/25/2012 7:14	594900	0.947	16.13	2.187	2.607	0.491	563.067
10/25/2012 7:29	595800	0.949	16.129	2.19	2.61	0.492	563.07
10/25/2012 7:44	596700	0.95	16.13	2.194	2.614	0.492	563.074
10/25/2012 7:59	597600	0.951	16.126	2.197	2.617	0.493	563.077
10/25/2012 8:14	598500	0.953	16.131	2.2	2.62	0.493	563.08
10/25/2012 8:29	599400	0.954	16.131	2.204	2.624	0.494	563.084
10/25/2012 8:44	600300	0.956	16.131	2.207	2.627	0.495	563.087
10/25/2012 8:59	601200	0.957	16.132	2.21	2.63	0.495	563.09
10/25/2012 9:14	602100	0.958	16.131	2.213	2.633	0.496	563.093
10/25/2012 9:29	603000	0.96	16.131	2.216	2.636	0.496	563.096
10/25/2012 9:44	603900	0.961	16.132	2.22	2.64	0.497	563.1
10/25/2012 9:59	604800	0.963	16.133	2.223	2.643	0.498	563.103
10/25/2012 10:14	605700	0.964	16.13	2.226	2.646	0.498	563.106
10/25/2012 10:29	606600	0.966	16.133	2.23	2.65	0.499	563.11
10/25/2012 10:44	607500	0.967	16.132	2.233	2.653	0.5	563.113
10/25/2012 10:59	608400	0.969	16.134	2.236	2.656	0.5	563.116
10/25/2012 11:14	609300	0.97	16.13	2.24	2.66	0.501	563.12
10/25/2012 11:29	610200	0.971	16.13	2.243	2.663	0.502	563.123
10/25/2012 11:44	611100	0.973	16.132	2.247	2.667	0.502	563.127
10/25/2012 11:59	612000	0.966	16.132	2.231	2.651	0.499	563.111
<u>Constant Rate Test</u>							
10/25/2012 13:00	0	1.187	16.129	2.741	2.741	0.516	563.201
10/25/2012 13:00	0.251	1.187	16.146	2.74	2.74	0.516	563.2
10/25/2012 13:00	0.501	1.186	16.166	2.739	2.739	0.516	563.199
10/25/2012 13:00	0.751	1.187	16.174	2.741	2.741	0.516	563.201
10/25/2012 13:00	1.001	1.189	16.183	2.745	2.745	0.517	563.205
10/25/2012 13:00	1.754	1.186	16.189	2.738	2.738	0.516	563.198
10/25/2012 13:00	1.973	1.187	16.198	2.741	2.741	0.516	563.201
10/25/2012 13:00	2.192	1.187	16.209	2.74	2.74	0.516	563.2

Appendix E-1

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/25/2012 13:00	2.411	1.187	16.212	2.74	2.74	0.516	563.2
10/25/2012 13:00	2.629	1.187	16.216	2.74	2.74	0.516	563.2
10/25/2012 13:00	2.848	1.186	16.221	2.739	2.739	0.516	563.199
10/25/2012 13:00	3.067	1.186	16.223	2.74	2.74	0.516	563.2
10/25/2012 13:00	3.286	1.187	16.224	2.74	2.74	0.516	563.2
10/25/2012 13:00	3.504	1.187	16.228	2.74	2.74	0.516	563.2
10/25/2012 13:00	3.723	1.187	16.234	2.74	2.74	0.516	563.2
10/25/2012 13:00	3.943	1.187	16.233	2.74	2.74	0.516	563.2
10/25/2012 13:00	4.163	1.187	16.235	2.74	2.74	0.516	563.2
10/25/2012 13:00	4.381	1.187	16.238	2.74	2.74	0.516	563.2
10/25/2012 13:00	4.6	1.186	16.239	2.739	2.739	0.516	563.199
10/25/2012 13:00	4.819	1.187	16.246	2.74	2.74	0.516	563.2
10/25/2012 13:00	5.038	1.187	16.241	2.74	2.74	0.516	563.2
10/25/2012 13:00	5.256	1.187	16.243	2.74	2.74	0.516	563.2
10/25/2012 13:00	5.501	1.186	16.245	2.74	2.74	0.516	563.2
10/25/2012 13:00	5.751	1.186	16.245	2.739	2.739	0.516	563.199
10/25/2012 13:00	6.001	1.186	16.242	2.739	2.739	0.516	563.199
10/25/2012 13:00	6.361	1.186	16.228	2.739	2.739	0.516	563.199
10/25/2012 13:00	6.721	1.186	16.223	2.738	2.738	0.516	563.198
10/25/2012 13:00	7.141	1.186	16.218	2.739	2.739	0.516	563.199
10/25/2012 13:00	7.561	1.186	16.211	2.738	2.738	0.516	563.198
10/25/2012 13:00	7.981	1.186	16.21	2.738	2.738	0.516	563.198
10/25/2012 13:00	8.461	1.186	16.205	2.739	2.739	0.516	563.199
10/25/2012 13:00	9.001	1.186	16.2	2.739	2.739	0.516	563.199
10/25/2012 13:00	9.481	1.186	16.2	2.739	2.739	0.516	563.199
10/25/2012 13:00	10.081	1.186	16.193	2.739	2.739	0.516	563.199
10/25/2012 13:00	10.681	1.187	16.194	2.74	2.74	0.516	563.2
10/25/2012 13:00	11.281	1.186	16.189	2.739	2.739	0.516	563.199
10/25/2012 13:00	11.94	1.186	16.186	2.74	2.74	0.516	563.2
10/25/2012 13:00	12.697	1.188	16.206	2.743	2.743	0.517	563.203
10/25/2012 13:00	13.573	1.187	16.187	2.74	2.74	0.516	563.2
10/25/2012 13:00	14.22	1.185	16.19	2.737	2.737	0.515	563.197
10/25/2012 13:00	15.061	1.184	16.181	2.734	2.734	0.515	563.194
10/25/2012 13:00	15.96	1.185	16.181	2.736	2.736	0.515	563.196
10/25/2012 13:00	16.92	1.187	16.178	2.742	2.742	0.516	563.202
10/25/2012 13:00	17.88	1.181	16.177	2.728	2.728	0.514	563.188
10/25/2012 13:00	18.96	1.183	16.173	2.732	2.732	0.515	563.192
10/25/2012 13:00	20.101	1.179	16.171	2.723	2.723	0.513	563.183
10/25/2012 13:00	21.301	1.18	16.17	2.725	2.725	0.513	563.185
10/25/2012 13:00	22.714	1.181	16.191	2.727	2.727	0.514	563.187
10/25/2012 13:00	23.88	1.176	16.177	2.714	2.714	0.511	563.174
10/25/2012 13:00	25.321	1.176	16.173	2.715	2.715	0.511	563.175
10/25/2012 13:00	26.821	1.174	16.171	2.71	2.71	0.51	563.17
10/25/2012 13:00	28.381	1.178	16.166	2.721	2.721	0.512	563.181
10/25/2012 13:00	30.061	1.177	16.167	2.718	2.718	0.512	563.178
10/25/2012 13:00	31.86	1.171	16.166	2.703	2.703	0.509	563.163
10/25/2012 13:00	33.72	1.17	16.172	2.702	2.702	0.509	563.162
10/25/2012 13:00	35.761	1.171	16.166	2.703	2.703	0.509	563.163
10/25/2012 13:00	37.86	1.167	16.164	2.694	2.694	0.507	563.154
10/25/2012 13:00	40.08	1.166	16.162	2.692	2.692	0.507	563.152

Appendix E-1

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/25/2012 13:00	42.72	1.164	16.185	2.688	2.688	0.506	563.148
10/25/2012 13:00	45	1.166	16.167	2.693	2.693	0.507	563.153
10/25/2012 13:00	47.64	1.164	16.16	2.689	2.689	0.506	563.149
10/25/2012 13:00	50.46	1.161	16.158	2.68	2.68	0.505	563.14
10/25/2012 13:00	53.46	1.159	16.167	2.675	2.675	0.504	563.135
10/25/2012 13:00	56.64	1.157	16.16	2.671	2.671	0.503	563.131
10/25/2012 13:01	60	1.155	16.154	2.668	2.668	0.502	563.128
10/25/2012 13:01	63.6	1.152	16.158	2.66	2.66	0.501	563.12
10/25/2012 13:01	67.2	1.151	16.15	2.657	2.657	0.5	563.117
10/25/2012 13:01	71.4	1.148	16.154	2.65	2.65	0.499	563.11
10/25/2012 13:01	75.6	1.145	16.154	2.643	2.643	0.498	563.103
10/25/2012 13:01	79.801	1.142	16.149	2.638	2.638	0.497	563.098
10/25/2012 13:01	84.6	1.139	16.156	2.629	2.629	0.495	563.089
10/25/2012 13:01	90.001	1.136	16.147	2.622	2.622	0.494	563.082
10/25/2012 13:01	94.8	1.132	16.152	2.614	2.614	0.492	563.074
10/25/2012 13:01	100.801	1.129	16.15	2.607	2.607	0.491	563.067
10/25/2012 13:01	106.8	1.126	16.15	2.6	2.6	0.49	563.06
10/25/2012 13:01	112.8	1.123	16.166	2.592	2.592	0.488	563.052
10/25/2012 13:01	119.4	1.12	16.147	2.586	2.586	0.487	563.046
10/25/2012 13:02	126.6	1.117	16.145	2.579	2.579	0.486	563.039
10/25/2012 13:02	134.4	1.114	16.15	2.573	2.573	0.485	563.033
10/25/2012 13:02	142.69	1.111	16.166	2.566	2.566	0.483	563.026
10/25/2012 13:02	150.601	1.108	16.145	2.557	2.557	0.482	563.017
10/25/2012 13:02	159.6	1.106	16.143	2.554	2.554	0.481	563.014
10/25/2012 13:02	169.2	1.101	16.145	2.542	2.542	0.479	563.002
10/25/2012 13:02	178.801	1.101	16.145	2.543	2.543	0.479	563.003
10/25/2012 13:03	189.6	1.1	16.145	2.539	2.539	0.478	562.999
10/25/2012 13:03	201.001	1.093	16.145	2.523	2.523	0.475	562.983
10/25/2012 13:03	213	1.093	16.16	2.523	2.523	0.475	562.983
10/25/2012 13:03	225.6	1.089	16.146	2.515	2.515	0.474	562.975
10/25/2012 13:03	238.801	1.083	16.149	2.5	2.5	0.471	562.96
10/25/2012 13:04	253.2	1.078	16.158	2.489	2.489	0.469	562.949
10/25/2012 13:04	268.2	1.072	16.152	2.475	2.475	0.466	562.935
10/25/2012 13:04	283.8	1.067	16.157	2.464	2.464	0.464	562.924
10/25/2012 13:05	300.6	1.06	16.153	2.448	2.448	0.461	562.908
10/25/2012 13:05	318.6	1.054	16.152	2.433	2.433	0.458	562.893
10/25/2012 13:05	337.2	1.047	16.16	2.418	2.418	0.455	562.878
10/25/2012 13:05	357.6	1.041	16.157	2.404	2.404	0.453	562.864
10/25/2012 13:06	378.6	1.033	16.163	2.385	2.385	0.449	562.845
10/25/2012 13:06	400.8	1.026	16.161	2.369	2.369	0.446	562.829
10/25/2012 13:07	424.8	1.017	16.169	2.349	2.349	0.442	562.809
10/25/2012 13:07	450	1.01	16.168	2.333	2.333	0.439	562.793
10/25/2012 13:07	476.4	1.001	16.175	2.311	2.311	0.435	562.771
10/25/2012 13:08	504.6	0.993	16.177	2.292	2.292	0.432	562.752
10/25/2012 13:08	534.6	0.983	16.18	2.27	2.27	0.427	562.73
10/25/2012 13:09	566.4	0.973	16.184	2.246	2.246	0.423	562.706
10/25/2012 13:10	600	0.962	16.192	2.221	2.221	0.418	562.681
10/25/2012 13:10	636	0.951	16.197	2.195	2.195	0.413	562.655
10/25/2012 13:11	672	0.939	16.197	2.169	2.169	0.408	562.629
10/25/2012 13:11	714	0.926	16.2	2.139	2.139	0.403	562.599

Appendix E-1

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/25/2012 13:12	756	0.913	16.212	2.109	2.109	0.397	562.569
10/25/2012 13:13	798	0.9	16.219	2.078	2.078	0.391	562.538
10/25/2012 13:14	846	0.885	16.226	2.044	2.044	0.385	562.504
10/25/2012 13:15	900.282	0.865	16.252	1.998	1.998	0.376	562.458
10/25/2012 13:15	948	0.849	16.236	1.96	1.96	0.369	562.42
10/25/2012 13:16	1008	0.826	16.241	1.908	1.908	0.359	562.368
10/25/2012 13:17	1068	0.803	16.241	1.854	1.854	0.349	562.314
10/25/2012 13:18	1128	0.78	16.246	1.801	1.801	0.339	562.261
10/25/2012 13:19	1188	0.756	16.244	1.745	1.745	0.329	562.205
10/25/2012 13:20	1248	0.73	16.247	1.685	1.685	0.317	562.145
10/25/2012 13:21	1308	0.704	16.242	1.624	1.624	0.306	562.084
10/25/2012 13:22	1368	0.677	16.244	1.562	1.562	0.294	562.022
10/25/2012 13:23	1428	0.651	16.244	1.502	1.502	0.283	561.962
10/25/2012 13:24	1488	0.624	16.243	1.442	1.442	0.272	561.902
10/25/2012 13:25	1548	0.599	16.237	1.383	1.383	0.26	561.843
10/25/2012 13:26	1608	0.573	16.24	1.324	1.324	0.249	561.784
10/25/2012 13:27	1668	0.548	16.237	1.265	1.265	0.238	561.725
10/25/2012 13:28	1728	0.523	16.235	1.207	1.207	0.227	561.667
10/25/2012 13:29	1788	0.497	16.23	1.147	1.147	0.216	561.607
10/25/2012 13:30	1848	0.471	16.227	1.088	1.088	0.205	561.548
10/25/2012 13:31	1908	0.446	16.227	1.031	1.031	0.194	561.491
10/25/2012 13:32	1968	0.419	16.224	0.967	0.967	0.182	561.427
10/25/2012 13:33	2028	0.395	16.218	0.912	0.912	0.172	561.372
10/25/2012 13:34	2088	0.371	16.217	0.856	0.856	0.161	561.316
10/25/2012 13:35	2148	0.345	16.211	0.796	0.796	0.15	561.256
10/25/2012 13:36	2208	0.319	16.21	0.737	0.737	0.139	561.197
10/25/2012 13:37	2268	0.295	16.205	0.682	0.682	0.128	561.142
10/25/2012 13:38	2328	0.271	16.203	0.625	0.625	0.118	561.085
10/25/2012 13:49	0	0.025	16.171	0.057	0.057	0.011	560.517
10/25/2012 13:49	0.25	0.024	16.196	0.055	0.055	0.01	560.515
10/25/2012 13:49	0.5	0.024	16.208	0.056	0.056	0.011	560.516
10/25/2012 13:49	0.75	0.024	16.22	0.056	0.056	0.011	560.516
10/25/2012 13:49	1	0.024	16.227	0.056	0.056	0.011	560.516
10/25/2012 13:49	1.25	0.024	16.233	0.055	0.055	0.01	560.515
10/25/2012 13:49	1.5	0.024	16.238	0.055	0.055	0.01	560.515
10/25/2012 13:49	1.75	0.024	16.247	0.055	0.055	0.01	560.515
10/25/2012 13:49	2	0.023	16.241	0.053	0.053	0.01	560.513
10/25/2012 13:49	2.25	0.024	16.249	0.055	0.055	0.01	560.515
10/25/2012 13:49	2.5	0.023	16.253	0.054	0.054	0.01	560.514
10/25/2012 13:49	2.75	0.023	16.256	0.053	0.053	0.01	560.513
10/25/2012 13:49	3	0.023	16.258	0.053	0.053	0.01	560.513
10/25/2012 13:49	3.25	0.023	16.26	0.054	0.054	0.01	560.514
10/25/2012 13:49	3.5	0.023	16.266	0.054	0.054	0.01	560.514
10/25/2012 13:49	3.75	0.023	16.265	0.053	0.053	0.01	560.513
10/25/2012 13:49	4	0.023	16.266	0.053	0.053	0.01	560.513
10/25/2012 13:49	4.25	0.023	16.267	0.053	0.053	0.01	560.513
10/25/2012 13:49	4.5	0.023	16.269	0.053	0.053	0.01	560.513
10/25/2012 13:49	4.75	0.023	16.271	0.054	0.054	0.01	560.514
10/25/2012 13:49	5	0.023	16.273	0.053	0.053	0.01	560.513
10/25/2012 13:49	5.25	0.023	16.276	0.054	0.054	0.01	560.514

Appendix E-1

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/25/2012 13:49	5.5	0.023	16.275	0.052	0.052	0.01	560.512
10/25/2012 13:49	5.75	0.023	16.273	0.054	0.054	0.01	560.514
10/25/2012 13:49	6	0.023	16.277	0.054	0.054	0.01	560.514
10/25/2012 13:49	6.36	0.023	16.268	0.053	0.053	0.01	560.513
10/25/2012 13:49	6.72	0.023	16.264	0.053	0.053	0.01	560.513
10/25/2012 13:49	7.14	0.023	16.255	0.054	0.054	0.01	560.514
10/25/2012 13:49	7.56	0.023	16.252	0.053	0.053	0.01	560.513
10/25/2012 13:49	7.98	0.024	16.25	0.054	0.054	0.01	560.514
10/25/2012 13:49	8.46	0.023	16.244	0.053	0.053	0.01	560.513
10/25/2012 13:49	9	0.024	16.244	0.054	0.054	0.01	560.514
10/25/2012 13:49	9.48	0.023	16.243	0.054	0.054	0.01	560.514
10/25/2012 13:49	10.08	0.023	16.234	0.054	0.054	0.01	560.514
10/25/2012 13:49	10.68	0.024	16.234	0.054	0.054	0.01	560.514
10/25/2012 13:49	11.28	0.023	16.234	0.054	0.054	0.01	560.514
10/25/2012 13:49	11.94	0.024	16.228	0.055	0.055	0.01	560.515
10/25/2012 13:49	12.66	0.024	16.225	0.055	0.055	0.01	560.515
10/25/2012 13:49	13.44	0.024	16.226	0.055	0.055	0.01	560.515
10/25/2012 13:49	14.22	0.024	16.226	0.055	0.055	0.01	560.515
10/25/2012 13:49	15.06	0.024	16.224	0.055	0.055	0.01	560.515
10/25/2012 13:49	15.96	0.024	16.22	0.055	0.055	0.01	560.515
10/25/2012 13:49	16.92	0.024	16.216	0.055	0.055	0.01	560.515
10/25/2012 13:49	17.88	0.024	16.218	0.056	0.056	0.011	560.516
10/25/2012 13:49	18.96	0.024	16.217	0.056	0.056	0.011	560.516
10/25/2012 13:49	20.1	0.025	16.213	0.057	0.057	0.011	560.517
10/25/2012 13:49	21.3	0.025	16.213	0.058	0.058	0.011	560.518
10/25/2012 13:49	22.56	0.025	16.211	0.058	0.058	0.011	560.518
10/25/2012 13:49	23.88	0.025	16.212	0.059	0.059	0.011	560.519
10/25/2012 13:49	25.32	0.025	16.209	0.059	0.059	0.011	560.519
10/25/2012 13:49	26.82	0.026	16.207	0.059	0.059	0.011	560.519
10/25/2012 13:49	28.38	0.025	16.209	0.059	0.059	0.011	560.519
10/25/2012 13:49	30.06	0.026	16.207	0.06	0.06	0.011	560.52
10/25/2012 13:49	31.86	0.026	16.205	0.061	0.061	0.011	560.521
10/25/2012 13:49	33.72	0.026	16.204	0.061	0.061	0.011	560.521
10/25/2012 13:49	35.76	0.026	16.201	0.061	0.061	0.011	560.521
10/25/2012 13:49	37.86	0.027	16.199	0.062	0.062	0.012	560.522
10/25/2012 13:49	40.08	0.027	16.202	0.062	0.062	0.012	560.522
10/25/2012 13:50	42.48	0.027	16.199	0.063	0.063	0.012	560.523
10/25/2012 13:50	45	0.028	16.197	0.064	0.064	0.012	560.524
10/25/2012 13:50	47.64	0.028	16.198	0.066	0.066	0.012	560.526
10/25/2012 13:50	50.46	0.028	16.196	0.065	0.065	0.012	560.525
10/25/2012 13:50	53.46	0.028	16.197	0.066	0.066	0.012	560.526
10/25/2012 13:50	56.64	0.029	16.19	0.067	0.067	0.013	560.527
10/25/2012 13:50	60	0.029	16.195	0.067	0.067	0.013	560.527
10/25/2012 13:50	63.6	0.029	16.193	0.067	0.067	0.013	560.527
10/25/2012 13:50	67.2	0.03	16.192	0.069	0.069	0.013	560.529
10/25/2012 13:50	71.4	0.031	16.189	0.071	0.071	0.013	560.531
10/25/2012 13:50	75.6	0.031	16.196	0.071	0.071	0.013	560.531
10/25/2012 13:50	79.8	0.031	16.188	0.071	0.071	0.013	560.531
10/25/2012 13:50	84.6	0.031	16.196	0.073	0.073	0.014	560.533
10/25/2012 13:50	90	0.032	16.187	0.073	0.073	0.014	560.533

Appendix E-1

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/25/2012 13:50	94.8	0.032	16.198	0.074	0.074	0.014	560.534
10/25/2012 13:50	100.8	0.032	16.188	0.074	0.074	0.014	560.534
10/25/2012 13:51	106.8	0.033	16.187	0.076	0.076	0.014	560.536
10/25/2012 13:51	112.8	0.033	16.184	0.075	0.075	0.014	560.535
10/25/2012 13:51	119.4	0.033	16.184	0.077	0.077	0.015	560.537
10/25/2012 13:51	126.6	0.034	16.187	0.078	0.078	0.015	560.538
10/25/2012 13:51	134.4	0.034	16.204	0.079	0.079	0.015	560.539
10/25/2012 13:51	142.2	0.035	16.184	0.08	0.08	0.015	560.54
10/25/2012 13:51	150.6	0.035	16.181	0.08	0.08	0.015	560.54
10/25/2012 13:51	159.6	0.035	16.184	0.082	0.082	0.015	560.542
10/25/2012 13:52	169.2	0.036	16.183	0.083	0.083	0.016	560.543
10/25/2012 13:52	178.8	0.036	16.183	0.083	0.083	0.016	560.543
10/25/2012 13:52	189.6	0.037	16.182	0.085	0.085	0.016	560.545
10/25/2012 13:52	201	0.037	16.179	0.086	0.086	0.016	560.546
10/25/2012 13:52	213.076	0.038	16.204	0.087	0.087	0.016	560.547
10/25/2012 13:53	225.6	0.038	16.184	0.088	0.088	0.017	560.548
10/25/2012 13:53	238.8	0.039	16.182	0.09	0.09	0.017	560.55
10/25/2012 13:53	253.2	0.039	16.177	0.091	0.091	0.017	560.551
10/25/2012 13:53	268.2	0.04	16.181	0.093	0.093	0.018	560.553
10/25/2012 13:54	283.8	0.041	16.176	0.094	0.094	0.018	560.554
10/25/2012 13:54	300.6	0.034	16.173	0.079	0.079	0.015	560.539
10/25/2012 13:54	318.6	0.042	16.171	0.098	0.098	0.018	560.558
10/25/2012 13:54	337.2	0.043	16.17	0.099	0.099	0.019	560.559
10/25/2012 13:55	357.6	0.043	16.166	0.099	0.099	0.019	560.559
10/25/2012 13:55	378.6	0.045	16.166	0.103	0.103	0.019	560.563
10/25/2012 13:55	400.8	0.045	16.163	0.105	0.105	0.02	560.565
10/25/2012 13:56	424.8	0.046	16.162	0.106	0.106	0.02	560.566
10/25/2012 13:56	450	0.047	16.158	0.108	0.108	0.02	560.568
10/25/2012 13:57	476.4	0.048	16.159	0.11	0.11	0.021	560.57
10/25/2012 13:57	504.6	0.049	16.156	0.112	0.112	0.021	560.572
10/25/2012 13:58	534.6	0.05	16.153	0.115	0.115	0.022	560.575
10/25/2012 13:58	566.4	0.051	16.153	0.117	0.117	0.022	560.577
10/25/2012 13:59	600	0.052	16.149	0.12	0.12	0.023	560.58
10/25/2012 13:59	636	0.053	16.149	0.123	0.123	0.023	560.583
10/25/2012 14:00	672	0.054	16.145	0.125	0.125	0.024	560.585
10/25/2012 14:01	714	0.055	16.144	0.127	0.127	0.024	560.587
10/25/2012 14:01	756	0.057	16.143	0.131	0.131	0.025	560.591
10/25/2012 14:02	798	0.057	16.143	0.132	0.132	0.025	560.592
10/25/2012 14:03	846	0.058	16.138	0.135	0.135	0.025	560.595
10/25/2012 14:04	900	0.06	16.141	0.139	0.139	0.026	560.599
10/25/2012 14:05	948	0.062	16.137	0.143	0.143	0.027	560.603
10/25/2012 14:06	1008	0.063	16.134	0.146	0.146	0.027	560.606
10/25/2012 14:07	1068	0.064	16.132	0.149	0.149	0.028	560.609
10/25/2012 14:08	1128	0.066	16.132	0.152	0.152	0.029	560.612
10/25/2012 14:09	1194	0.067	16.131	0.156	0.156	0.029	560.616
10/25/2012 14:10	1266	0.069	16.131	0.16	0.16	0.03	560.62
10/25/2012 14:11	1344	0.071	16.128	0.164	0.164	0.031	560.624
10/25/2012 14:13	1422	0.072	16.126	0.166	0.166	0.031	560.626
10/25/2012 14:14	1506	0.074	16.124	0.17	0.17	0.032	560.63
10/25/2012 14:15	1596	0.076	16.122	0.175	0.175	0.033	560.635

Appendix E-1

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/25/2012 14:17	1692	0.078	16.122	0.179	0.179	0.034	560.639
10/25/2012 14:19	1788	0.079	16.122	0.183	0.183	0.034	560.643
10/25/2012 14:20	1896	0.081	16.12	0.187	0.187	0.035	560.647
10/25/2012 14:22	2010	0.083	16.118	0.191	0.191	0.036	560.651
10/25/2012 14:24	2130	0.085	16.119	0.197	0.197	0.037	560.657
10/25/2012 14:26	2256	0.087	16.118	0.201	0.201	0.038	560.661
10/25/2012 14:29	2388	0.089	16.116	0.206	0.206	0.039	560.666
10/25/2012 14:31	2532	0.091	16.118	0.209	0.209	0.039	560.669
10/25/2012 14:34	2682	0.094	16.116	0.216	0.216	0.041	560.676
10/25/2012 14:36	2838	0.096	16.111	0.221	0.221	0.042	560.681
10/25/2012 14:39	3006	0.097	16.111	0.224	0.224	0.042	560.684
10/25/2012 14:42	3186	0.1	16.113	0.231	0.231	0.044	560.691
10/25/2012 14:45	3372	0.102	16.111	0.236	0.236	0.044	560.696
10/25/2012 14:48	3576	0.104	16.109	0.241	0.241	0.045	560.701
10/25/2012 14:52	3786	0.107	16.11	0.247	0.247	0.047	560.707
10/25/2012 14:56	4008	0.109	16.112	0.251	0.251	0.047	560.711
10/25/2012 15:00	4248	0.112	16.109	0.258	0.258	0.049	560.718
10/25/2012 15:04	4500	0.114	16.111	0.264	0.264	0.05	560.724
10/25/2012 15:08	4764	0.117	16.106	0.269	0.269	0.051	560.729
10/25/2012 15:13	5046	0.119	16.107	0.275	0.275	0.052	560.735
10/25/2012 15:18	5346	0.122	16.105	0.281	0.281	0.053	560.741
10/25/2012 15:23	5664	0.124	16.111	0.286	0.286	0.054	560.746
10/25/2012 15:29	6000	0.127	16.105	0.293	0.293	0.055	560.753
10/25/2012 15:35	6360	0.134	16.103	0.309	0.309	0.058	560.769
10/25/2012 15:41	6720	0.135	16.105	0.312	0.312	0.059	560.772
10/25/2012 15:48	7140	0.138	16.105	0.318	0.318	0.06	560.778
10/25/2012 15:55	7560	0.14	16.104	0.322	0.322	0.061	560.782
10/25/2012 16:02	7980	0.141	16.105	0.326	0.326	0.061	560.786
10/25/2012 16:10	8460	0.143	16.103	0.331	0.331	0.062	560.791
10/25/2012 16:19	9000	0.146	16.106	0.336	0.336	0.063	560.796
10/25/2012 16:27	9480	0.148	16.106	0.341	0.341	0.064	560.801

a/ PSI = pounds per square inch; C = Celsius; ft = feet; H = measured height of water column in well; H0 = initial height of water column; TD = total depth; btoc = below top of casing; DTW0 = initial depth to water; D0 = initial depth; TOC = top of casing.

Appendix E-2

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
Step Test and Beginning of Recovery Test							
10/17/2012 17:00	0	1.351	17.522	3.119	17.829	1	575.249
10/17/2012 17:01	60.001	1.351	17.522	3.12	17.83	1	575.25
10/17/2012 17:02	120.001	1.351	17.523	3.12	17.83	1	575.25
10/17/2012 17:03	180.001	1.351	17.522	3.12	17.83	1	575.25
10/17/2012 17:04	240.001	1.351	17.523	3.12	17.83	1	575.25
10/17/2012 17:05	300.001	1.351	17.523	3.12	17.83	1	575.25
10/17/2012 17:06	360.001	1.352	17.522	3.121	17.831	1.001	575.251
10/17/2012 17:07	420.001	1.351	17.524	3.12	17.83	1	575.25
10/17/2012 17:08	480.001	1.351	17.525	3.12	17.83	1	575.25
10/17/2012 17:09	540.001	1.351	17.521	3.12	17.83	1	575.25
10/17/2012 17:10	600.001	1.351	17.522	3.119	17.829	1	575.249
10/17/2012 17:11	660.001	1.352	17.524	3.121	17.831	1.001	575.251
10/17/2012 17:12	720.001	1.351	17.523	3.12	17.83	1	575.25
10/17/2012 17:13	780.001	1.351	17.524	3.119	17.829	1	575.249
10/17/2012 17:14	840.001	1.351	17.524	3.12	17.83	1	575.25
10/17/2012 17:15	900.001	1.351	17.524	3.12	17.83	1	575.25
10/17/2012 17:16	960.002	1.351	17.522	3.12	17.83	1	575.25
10/17/2012 17:17	1020.002	1.352	17.521	3.121	17.831	1.001	575.251
10/17/2012 17:18	1080.002	1.351	17.522	3.12	17.83	1	575.25
10/17/2012 17:19	1140.002	1.351	17.525	3.12	17.83	1	575.25
10/17/2012 17:20	1200.002	1.351	17.524	3.119	17.829	1	575.249
10/17/2012 17:21	1260.002	1.351	17.522	3.12	17.83	1	575.25
10/17/2012 17:22	1320.002	1.351	17.524	3.12	17.83	1	575.25
10/17/2012 17:23	1380.002	1.351	17.521	3.119	17.829	1	575.249
10/17/2012 17:24	1440.002	1.352	17.523	3.121	17.831	1.001	575.251
10/17/2012 17:25	1500.002	1.351	17.521	3.119	17.829	1	575.249
10/17/2012 17:26	1560.002	1.351	17.524	3.12	17.83	1	575.25
10/17/2012 17:27	1620.002	1.351	17.526	3.12	17.83	1	575.25
10/17/2012 17:28	1680.002	1.351	17.524	3.119	17.829	1	575.249
10/17/2012 17:29	1740.002	1.351	17.523	3.119	17.829	1	575.249
10/17/2012 17:30	1800.001	1.351	17.525	3.119	17.829	1	575.249
10/17/2012 17:31	1860.002	1.351	17.521	3.119	17.829	1	575.249
10/17/2012 17:32	1920.002	1.351	17.525	3.119	17.829	1	575.249
10/17/2012 17:33	1980.002	1.351	17.523	3.119	17.829	1	575.249
10/17/2012 17:34	2040.002	1.351	17.521	3.119	17.829	1	575.249
10/17/2012 17:35	2100.002	1.351	17.522	3.119	17.829	1	575.249
10/17/2012 17:36	2160.002	1.351	17.521	3.119	17.829	1	575.249
10/17/2012 17:37	2220.002	1.351	17.525	3.119	17.829	1	575.249
10/17/2012 17:38	2280.002	1.35	17.525	3.118	17.828	1	575.248
10/17/2012 17:39	2340.002	1.351	17.523	3.119	17.829	1	575.249
10/17/2012 17:40	2400.002	1.351	17.525	3.12	17.83	1	575.25
10/17/2012 17:41	2460.002	1.351	17.521	3.119	17.829	1	575.249
10/17/2012 17:42	2520.002	1.351	17.523	3.119	17.829	1	575.249
10/17/2012 17:43	2580.002	1.351	17.521	3.119	17.829	1	575.249
10/17/2012 17:44	2640.002	1.351	17.525	3.119	17.829	1	575.249
10/17/2012 17:45	2700.001	1.351	17.522	3.119	17.829	1	575.249
10/17/2012 17:46	2760.002	1.351	17.521	3.119	17.829	1	575.249

Appendix E-2

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	Groundwater		
					H (ft)	H/H0	Elevation (ft AMSL)
10/17/2012 17:47	2820.002	1.351	17.523	3.119	17.829	1	575.249
10/17/2012 17:48	2880.002	1.35	17.522	3.118	17.828	1	575.248
10/17/2012 17:49	2940.002	1.351	17.521	3.119	17.829	1	575.249
10/17/2012 17:50	3000.002	1.351	17.522	3.119	17.829	1	575.249
10/17/2012 17:51	3060.002	1.351	17.525	3.119	17.829	1	575.249
10/17/2012 17:52	3120.002	1.351	17.523	3.118	17.828	1	575.248
10/17/2012 17:53	3180.002	1.35	17.52	3.118	17.828	1	575.248
10/17/2012 17:54	3240.002	1.35	17.522	3.118	17.828	1	575.248
10/17/2012 17:55	3300.002	1.351	17.523	3.119	17.829	1	575.249
10/17/2012 17:56	3360.002	1.351	17.523	3.119	17.829	1	575.249
10/17/2012 17:57	3420.002	1.35	17.524	3.118	17.828	1	575.248
10/17/2012 17:58	3480.002	1.351	17.525	3.119	17.829	1	575.249
10/17/2012 17:59	3540.002	1.35	17.523	3.118	17.828	1	575.248
10/17/2012 18:00	3600.001	1.351	17.525	3.119	17.829	1	575.249
10/17/2012 18:15	4500.002	1.351	17.523	3.119	17.829	1	575.249
10/17/2012 18:30	5400.002	1.35	17.527	3.117	17.827	0.999	575.247
10/17/2012 18:45	6300.002	1.349	17.523	3.115	17.825	0.999	575.245
10/17/2012 19:00	7200.002	1.349	17.523	3.114	17.824	0.998	575.244
10/17/2012 19:15	8100.002	1.348	17.522	3.112	17.822	0.998	575.242
10/17/2012 19:30	9000.002	1.347	17.524	3.111	17.821	0.997	575.241
10/17/2012 19:45	9900.002	1.346	17.524	3.109	17.819	0.997	575.239
10/17/2012 20:00	10800.002	1.346	17.526	3.108	17.818	0.996	575.238
10/17/2012 20:15	11700.002	1.346	17.523	3.107	17.817	0.996	575.237
10/17/2012 20:30	12600.002	1.345	17.525	3.106	17.816	0.996	575.236
10/17/2012 20:45	13500.002	1.345	17.523	3.106	17.816	0.996	575.236
10/17/2012 21:00	14400.002	1.345	17.524	3.106	17.816	0.996	575.236
10/17/2012 21:15	15300.002	1.345	17.521	3.106	17.816	0.996	575.236
10/17/2012 21:30	16200.002	1.346	17.524	3.107	17.817	0.996	575.237
10/17/2012 21:45	17100.002	1.346	17.524	3.107	17.817	0.996	575.237
10/17/2012 22:00	18000.002	1.345	17.522	3.106	17.816	0.996	575.236
10/17/2012 22:15	18900.002	1.346	17.523	3.107	17.817	0.996	575.237
10/17/2012 22:30	19800.002	1.345	17.522	3.106	17.816	0.996	575.236
10/17/2012 22:45	20700.002	1.345	17.521	3.106	17.816	0.996	575.236
10/17/2012 23:00	21600.002	1.345	17.525	3.106	17.816	0.996	575.236
10/17/2012 23:15	22500.002	1.346	17.523	3.107	17.817	0.996	575.237
10/17/2012 23:30	23400.002	1.346	17.523	3.107	17.817	0.996	575.237
10/17/2012 23:45	24300.002	1.345	17.52	3.106	17.816	0.996	575.236
10/18/2012 0:00	25200.002	1.346	17.52	3.108	17.818	0.996	575.238
10/18/2012 0:15	26100.002	1.346	17.524	3.107	17.817	0.996	575.237
10/18/2012 0:30	27000.002	1.346	17.522	3.108	17.818	0.996	575.238
10/18/2012 0:45	27900.002	1.346	17.522	3.108	17.818	0.996	575.238
10/18/2012 1:00	28800.002	1.346	17.525	3.108	17.818	0.996	575.238
10/18/2012 1:15	29700.002	1.346	17.523	3.108	17.818	0.996	575.238
10/18/2012 1:30	30600.002	1.346	17.524	3.108	17.818	0.996	575.238
10/18/2012 1:45	31500.002	1.346	17.525	3.108	17.818	0.996	575.238
10/18/2012 2:00	32400.002	1.347	17.52	3.109	17.819	0.997	575.239
Recovery Test							
10/18/2012 9:13	0	1.364	17.532	3.15	17.81	0.998	575.23

Appendix E-2

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/18/2012 9:28	900	1.364	17.521	3.149	17.809	0.998	575.229
10/18/2012 9:43	1800	1.364	17.52	3.15	17.81	0.998	575.23
10/18/2012 9:58	2700	1.364	17.521	3.148	17.808	0.998	575.228
10/18/2012 10:13	3600	1.364	17.518	3.15	17.81	0.998	575.23
10/18/2012 10:28	4500	1.364	17.519	3.149	17.809	0.998	575.229
10/18/2012 10:43	5400	1.365	17.519	3.151	17.811	0.998	575.231
10/18/2012 10:58	6300	1.365	17.52	3.152	17.812	0.998	575.232
10/18/2012 11:13	7200	1.366	17.52	3.154	17.814	0.999	575.234
10/18/2012 11:28	8100	1.367	17.521	3.156	17.816	0.999	575.236
10/18/2012 11:43	9000	1.367	17.519	3.156	17.816	0.999	575.236
10/18/2012 11:58	9900	1.367	17.517	3.156	17.816	0.999	575.236
10/18/2012 12:13	10800	1.367	17.516	3.156	17.816	0.999	575.236
10/18/2012 12:28	11700	1.368	17.521	3.158	17.818	0.999	575.238
10/18/2012 12:43	12600	1.369	17.518	3.16	17.82	0.999	575.24
10/18/2012 12:58	13500	1.37	17.516	3.162	17.822	0.999	575.242
10/18/2012 13:13	14400	1.37	17.515	3.163	17.823	0.999	575.243
10/18/2012 13:28	15300	1.37	17.52	3.164	17.824	0.999	575.244
10/18/2012 13:43	16200	1.371	17.518	3.164	17.824	0.999	575.244
10/18/2012 13:58	17100	1.371	17.52	3.166	17.826	0.999	575.246
10/18/2012 14:13	18000	1.372	17.518	3.167	17.827	0.999	575.247
10/18/2012 14:28	18900	1.371	17.517	3.167	17.827	0.999	575.247
10/18/2012 14:43	19800	1.371	17.521	3.166	17.826	0.999	575.246
10/18/2012 14:58	20700	1.371	17.519	3.166	17.826	0.999	575.246
10/18/2012 15:13	21600	1.371	17.517	3.165	17.825	0.999	575.245
10/18/2012 15:28	22500	1.37	17.522	3.164	17.824	0.999	575.244
10/18/2012 15:43	23400	1.37	17.519	3.163	17.823	0.999	575.243
10/18/2012 15:58	24300	1.37	17.519	3.162	17.822	0.999	575.242
10/18/2012 16:13	25200	1.37	17.522	3.163	17.823	0.999	575.243
10/18/2012 16:28	26100	1.37	17.52	3.164	17.824	0.999	575.244
10/18/2012 16:43	27000	1.37	17.52	3.163	17.823	0.999	575.243
10/18/2012 16:58	27900	1.37	17.52	3.163	17.823	0.999	575.243
10/18/2012 17:13	28800	1.369	17.523	3.162	17.822	0.999	575.242
10/18/2012 17:28	29700	1.369	17.522	3.162	17.822	0.999	575.242
10/18/2012 17:43	30600	1.369	17.519	3.162	17.822	0.999	575.242
10/18/2012 17:58	31500	1.369	17.519	3.162	17.822	0.999	575.242
10/18/2012 18:13	32400	1.369	17.518	3.16	17.82	0.999	575.24
10/18/2012 18:28	33300	1.369	17.521	3.161	17.821	0.999	575.241
10/18/2012 18:43	34200	1.368	17.517	3.159	17.819	0.999	575.239
10/18/2012 18:58	35100	1.367	17.521	3.157	17.817	0.999	575.237
10/18/2012 19:13	36000	1.367	17.52	3.157	17.817	0.999	575.237
10/18/2012 19:28	36900	1.367	17.519	3.156	17.816	0.999	575.236
10/18/2012 19:43	37800	1.367	17.52	3.156	17.816	0.999	575.236
10/18/2012 19:58	38700	1.366	17.52	3.154	17.814	0.999	575.234
10/18/2012 20:13	39600	1.366	17.521	3.154	17.814	0.999	575.234
10/18/2012 20:28	40500	1.366	17.52	3.154	17.814	0.999	575.234
10/18/2012 20:43	41400	1.366	17.516	3.155	17.815	0.999	575.235
10/18/2012 20:58	42300	1.367	17.518	3.156	17.816	0.999	575.236
10/18/2012 21:13	43200	1.368	17.522	3.159	17.819	0.999	575.239

Appendix E-2

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	Groundwater		
					H (ft)	H/H0	Elevation (ft AMSL)
10/18/2012 21:28	44100	1.368	17.519	3.159	17.819	0.999	575.239
10/18/2012 21:43	45000	1.369	17.518	3.16	17.82	0.999	575.24
10/18/2012 21:58	45900	1.368	17.521	3.16	17.82	0.999	575.24
10/18/2012 22:13	46800	1.368	17.519	3.158	17.818	0.999	575.238
10/18/2012 22:28	47700	1.367	17.52	3.156	17.816	0.999	575.236
10/18/2012 22:43	48600	1.367	17.522	3.156	17.816	0.999	575.236
10/18/2012 22:58	49500	1.367	17.52	3.156	17.816	0.999	575.236
10/18/2012 23:13	50400	1.367	17.519	3.156	17.816	0.999	575.236
10/18/2012 23:28	51300	1.368	17.519	3.158	17.818	0.999	575.238
10/18/2012 23:43	52200	1.368	17.517	3.158	17.818	0.999	575.238
10/18/2012 23:58	53100	1.368	17.52	3.158	17.818	0.999	575.238
10/19/2012 0:13	54000	1.368	17.521	3.159	17.819	0.999	575.239
10/19/2012 0:28	54900	1.368	17.519	3.158	17.818	0.999	575.238
10/19/2012 0:43	55800	1.367	17.522	3.155	17.815	0.999	575.235
10/19/2012 0:58	56700	1.366	17.521	3.154	17.814	0.999	575.234
10/19/2012 1:13	57600	1.364	17.519	3.149	17.809	0.998	575.229
10/19/2012 1:28	58500	1.362	17.52	3.144	17.804	0.998	575.224
10/19/2012 1:43	59400	1.361	17.52	3.142	17.802	0.998	575.222
10/19/2012 1:58	60300	1.36	17.521	3.14	17.8	0.998	575.22
10/19/2012 2:13	61200	1.36	17.52	3.14	17.8	0.998	575.22
10/19/2012 2:28	62100	1.36	17.519	3.141	17.801	0.998	575.221
10/19/2012 2:43	63000	1.361	17.52	3.143	17.803	0.998	575.223
10/19/2012 2:58	63900	1.362	17.519	3.145	17.805	0.998	575.225
10/19/2012 3:13	64800	1.364	17.52	3.149	17.809	0.998	575.229
10/19/2012 3:28	65700	1.365	17.517	3.152	17.812	0.998	575.232
10/19/2012 3:43	66600	1.367	17.518	3.156	17.816	0.999	575.236
10/19/2012 3:58	67500	1.367	17.518	3.157	17.817	0.999	575.237
10/19/2012 4:13	68400	1.369	17.519	3.16	17.82	0.999	575.24
10/19/2012 4:28	69300	1.369	17.517	3.161	17.821	0.999	575.241
10/19/2012 4:43	70200	1.37	17.518	3.164	17.824	0.999	575.244
10/19/2012 4:58	71100	1.371	17.518	3.165	17.825	0.999	575.245
10/19/2012 5:13	72000	1.372	17.515	3.168	17.828	0.999	575.248
10/19/2012 5:28	72900	1.372	17.52	3.169	17.829	0.999	575.249
10/19/2012 5:43	73800	1.372	17.517	3.168	17.828	0.999	575.248
10/19/2012 5:58	74700	1.372	17.519	3.167	17.827	0.999	575.247
10/19/2012 6:13	75600	1.372	17.516	3.168	17.828	0.999	575.248
10/19/2012 6:28	76500	1.371	17.516	3.166	17.826	0.999	575.246
10/19/2012 6:43	77400	1.372	17.515	3.167	17.827	0.999	575.247
10/19/2012 6:58	78300	1.372	17.515	3.168	17.828	0.999	575.248
10/19/2012 7:13	79200	1.373	17.516	3.17	17.83	0.999	575.25
10/19/2012 7:28	80100	1.373	17.518	3.171	17.831	0.999	575.251
10/19/2012 7:43	81000	1.374	17.517	3.174	17.834	1	575.254
10/19/2012 7:58	81900	1.375	17.519	3.175	17.835	1	575.255
10/19/2012 8:13	82800	1.374	17.517	3.174	17.834	1	575.254
10/19/2012 8:28	83700	1.374	17.516	3.172	17.832	1	575.252
10/19/2012 8:43	84600	1.375	17.515	3.175	17.835	1	575.255
10/19/2012 8:58	85500	1.375	17.516	3.174	17.834	1	575.254
10/19/2012 9:13	86400	1.375	17.513	3.175	17.835	1	575.255

Appendix E-2

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/19/2012 9:28	87300	1.376	17.516	3.176	17.836	1	575.256
10/19/2012 9:43	88200	1.376	17.515	3.177	17.837	1	575.257
10/19/2012 9:58	89100	1.377	17.515	3.18	17.84	1	575.26
10/19/2012 10:13	90000	1.379	17.515	3.185	17.845	1	575.265
10/19/2012 10:28	90900	1.381	17.513	3.189	17.849	1.001	575.269
10/19/2012 10:43	91800	1.382	17.512	3.192	17.852	1.001	575.272
10/19/2012 10:58	92700	1.383	17.514	3.194	17.854	1.001	575.274
10/19/2012 11:13	93600	1.384	17.514	3.195	17.855	1.001	575.275
10/19/2012 11:28	94500	1.384	17.516	3.196	17.856	1.001	575.276
10/19/2012 11:43	95400	1.384	17.516	3.196	17.856	1.001	575.276
10/19/2012 11:58	96300	1.385	17.514	3.197	17.857	1.001	575.277
10/19/2012 12:13	97200	1.386	17.515	3.199	17.859	1.001	575.279
10/19/2012 12:28	98100	1.386	17.516	3.201	17.861	1.001	575.281
10/19/2012 12:43	99000	1.387	17.515	3.203	17.863	1.001	575.283
10/19/2012 12:58	99900	1.388	17.516	3.205	17.865	1.001	575.285
10/19/2012 13:13	100800	1.389	17.515	3.207	17.867	1.002	575.287
10/19/2012 13:28	101700	1.39	17.515	3.209	17.869	1.002	575.289
10/19/2012 13:43	102600	1.391	17.515	3.211	17.871	1.002	575.291
10/19/2012 13:58	103500	1.391	17.515	3.213	17.873	1.002	575.293
10/19/2012 14:13	104400	1.393	17.514	3.215	17.875	1.002	575.295
10/19/2012 14:28	105300	1.394	17.516	3.219	17.879	1.002	575.299
10/19/2012 14:43	106200	1.395	17.512	3.221	17.881	1.002	575.301
10/19/2012 14:58	107100	1.396	17.515	3.224	17.884	1.002	575.304
10/19/2012 15:13	108000	1.397	17.515	3.226	17.886	1.003	575.306
10/19/2012 15:28	108900	1.398	17.512	3.227	17.887	1.003	575.307
10/19/2012 15:43	109800	1.399	17.514	3.229	17.889	1.003	575.309
10/19/2012 15:58	110700	1.399	17.515	3.231	17.891	1.003	575.311
10/19/2012 16:13	111600	1.4	17.514	3.234	17.894	1.003	575.314
10/19/2012 16:28	112500	1.401	17.516	3.235	17.895	1.003	575.315
10/19/2012 16:43	113400	1.401	17.512	3.236	17.896	1.003	575.316
10/19/2012 16:58	114300	1.402	17.517	3.237	17.897	1.003	575.317
10/19/2012 17:13	115200	1.402	17.516	3.237	17.897	1.003	575.317
10/19/2012 17:28	116100	1.402	17.515	3.237	17.897	1.003	575.317
10/19/2012 17:43	117000	1.402	17.515	3.236	17.896	1.003	575.316
10/19/2012 17:58	117900	1.403	17.515	3.239	17.899	1.003	575.319
10/19/2012 18:13	118800	1.403	17.515	3.24	17.9	1.003	575.32
10/19/2012 18:28	119700	1.403	17.516	3.239	17.899	1.003	575.319
10/19/2012 18:43	120600	1.402	17.515	3.238	17.898	1.003	575.318
10/19/2012 18:58	121500	1.402	17.512	3.238	17.898	1.003	575.318
10/19/2012 19:13	122400	1.403	17.514	3.239	17.899	1.003	575.319
10/19/2012 19:28	123300	1.403	17.515	3.239	17.899	1.003	575.319
10/19/2012 19:43	124200	1.402	17.516	3.238	17.898	1.003	575.318
10/19/2012 19:58	125100	1.402	17.515	3.238	17.898	1.003	575.318
10/19/2012 20:13	126000	1.402	17.515	3.238	17.898	1.003	575.318
10/19/2012 20:28	126900	1.402	17.515	3.237	17.897	1.003	575.317
10/19/2012 20:43	127800	1.402	17.514	3.237	17.897	1.003	575.317
10/19/2012 20:58	128700	1.402	17.518	3.238	17.898	1.003	575.318
10/19/2012 21:13	129600	1.402	17.514	3.237	17.897	1.003	575.317

Appendix E-2

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	Groundwater		
					H (ft)	H/H0	Elevation (ft AMSL)
10/19/2012 21:28	130500	1.402	17.516	3.237	17.897	1.003	575.317
10/19/2012 21:43	131400	1.403	17.515	3.239	17.899	1.003	575.319
10/19/2012 21:58	132300	1.403	17.515	3.24	17.9	1.003	575.32
10/19/2012 22:13	133200	1.403	17.516	3.239	17.899	1.003	575.319
10/19/2012 22:28	134100	1.402	17.514	3.238	17.898	1.003	575.318
10/19/2012 22:43	135000	1.402	17.515	3.237	17.897	1.003	575.317
10/19/2012 22:58	135900	1.401	17.516	3.235	17.895	1.003	575.315
10/19/2012 23:13	136800	1.401	17.515	3.235	17.895	1.003	575.315
10/19/2012 23:28	137700	1.401	17.515	3.236	17.896	1.003	575.316
10/19/2012 23:43	138600	1.401	17.514	3.236	17.896	1.003	575.316
10/19/2012 23:58	139500	1.401	17.517	3.236	17.896	1.003	575.316
10/20/2012 0:13	140400	1.401	17.514	3.235	17.895	1.003	575.315
10/20/2012 0:28	141300	1.401	17.515	3.235	17.895	1.003	575.315
10/20/2012 0:43	142200	1.402	17.514	3.237	17.897	1.003	575.317
10/20/2012 0:58	143100	1.402	17.515	3.236	17.896	1.003	575.316
10/20/2012 1:13	144000	1.402	17.514	3.237	17.897	1.003	575.317
10/20/2012 1:28	144900	1.402	17.516	3.236	17.896	1.003	575.316
10/20/2012 1:43	145800	1.402	17.514	3.236	17.896	1.003	575.316
10/20/2012 1:58	146700	1.402	17.517	3.236	17.896	1.003	575.316
10/20/2012 2:13	147600	1.402	17.515	3.237	17.897	1.003	575.317
10/20/2012 2:28	148500	1.401	17.515	3.235	17.895	1.003	575.315
10/20/2012 2:43	149400	1.401	17.514	3.235	17.895	1.003	575.315
10/20/2012 2:58	150300	1.402	17.514	3.237	17.897	1.003	575.317
10/20/2012 3:13	151200	1.402	17.514	3.237	17.897	1.003	575.317
10/20/2012 3:28	152100	1.402	17.516	3.237	17.897	1.003	575.317
10/20/2012 3:43	153000	1.402	17.516	3.237	17.897	1.003	575.317
10/20/2012 3:58	153900	1.402	17.514	3.238	17.898	1.003	575.318
10/20/2012 4:13	154800	1.402	17.514	3.237	17.897	1.003	575.317
10/20/2012 4:28	155700	1.402	17.514	3.237	17.897	1.003	575.317
10/20/2012 4:43	156600	1.401	17.516	3.235	17.895	1.003	575.315
10/20/2012 4:58	157500	1.401	17.514	3.235	17.895	1.003	575.315
10/20/2012 5:13	158400	1.401	17.511	3.235	17.895	1.003	575.315
10/20/2012 5:28	159300	1.401	17.514	3.236	17.896	1.003	575.316
10/20/2012 5:43	160200	1.401	17.512	3.236	17.896	1.003	575.316
10/20/2012 5:58	161100	1.401	17.513	3.235	17.895	1.003	575.315
10/20/2012 6:13	162000	1.401	17.514	3.234	17.894	1.003	575.314
10/20/2012 6:28	162900	1.4	17.514	3.234	17.894	1.003	575.314
10/20/2012 6:43	163800	1.4	17.513	3.233	17.893	1.003	575.313
10/20/2012 6:58	164700	1.4	17.513	3.233	17.893	1.003	575.313
10/20/2012 7:13	165600	1.4	17.513	3.232	17.892	1.003	575.312
10/20/2012 7:28	166500	1.4	17.513	3.232	17.892	1.003	575.312
10/20/2012 7:43	167400	1.4	17.514	3.233	17.893	1.003	575.313
10/20/2012 7:58	168300	1.4	17.514	3.232	17.892	1.003	575.312
10/20/2012 8:13	169200	1.4	17.517	3.232	17.892	1.003	575.312
10/20/2012 8:28	170100	1.399	17.514	3.231	17.891	1.003	575.311
10/20/2012 8:43	171000	1.4	17.514	3.232	17.892	1.003	575.312
10/20/2012 8:58	171900	1.399	17.515	3.23	17.89	1.003	575.31
10/20/2012 9:13	172800	1.399	17.516	3.231	17.891	1.003	575.311

Appendix E-2

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/20/2012 9:28	173700	1.4	17.514	3.232	17.892	1.003	575.312
10/20/2012 9:43	174600	1.4	17.515	3.233	17.893	1.003	575.313
10/20/2012 9:58	175500	1.4	17.512	3.233	17.893	1.003	575.313
10/20/2012 10:13	176400	1.4	17.514	3.233	17.893	1.003	575.313
10/20/2012 10:28	177300	1.4	17.514	3.232	17.892	1.003	575.312
10/20/2012 10:43	178200	1.4	17.514	3.232	17.892	1.003	575.312
10/20/2012 10:58	179100	1.4	17.514	3.233	17.893	1.003	575.313
10/20/2012 11:13	180000	1.4	17.514	3.231	17.891	1.003	575.311
10/20/2012 11:28	180900	1.399	17.512	3.231	17.891	1.003	575.311
10/20/2012 11:43	181800	1.399	17.514	3.23	17.89	1.003	575.31
10/20/2012 11:58	182700	1.4	17.513	3.232	17.892	1.003	575.312
10/20/2012 12:13	183600	1.399	17.512	3.231	17.891	1.003	575.311
10/20/2012 12:28	184500	1.4	17.514	3.233	17.893	1.003	575.313
10/20/2012 12:43	185400	1.401	17.513	3.234	17.894	1.003	575.314
10/20/2012 12:58	186300	1.401	17.512	3.236	17.896	1.003	575.316
10/20/2012 13:13	187200	1.402	17.512	3.237	17.897	1.003	575.317
10/20/2012 13:28	188100	1.402	17.513	3.238	17.898	1.003	575.318
10/20/2012 13:43	189000	1.403	17.514	3.24	17.9	1.003	575.32
10/20/2012 13:58	189900	1.404	17.514	3.242	17.902	1.003	575.322
10/20/2012 14:13	190800	1.404	17.513	3.242	17.902	1.003	575.322
10/20/2012 14:28	191700	1.404	17.514	3.243	17.903	1.004	575.323
10/20/2012 14:43	192600	1.404	17.514	3.242	17.902	1.003	575.322
10/20/2012 14:58	193500	1.405	17.514	3.244	17.904	1.004	575.324
10/20/2012 15:13	194400	1.405	17.512	3.244	17.904	1.004	575.324
10/20/2012 15:28	195300	1.404	17.512	3.242	17.902	1.003	575.322
10/20/2012 15:43	196200	1.404	17.514	3.242	17.902	1.003	575.322
10/20/2012 15:58	197100	1.404	17.514	3.241	17.901	1.003	575.321
10/20/2012 16:13	198000	1.404	17.512	3.242	17.902	1.003	575.322
10/20/2012 16:28	198900	1.404	17.511	3.241	17.901	1.003	575.321
10/20/2012 16:43	199800	1.403	17.513	3.24	17.9	1.003	575.32
10/20/2012 16:58	200700	1.403	17.513	3.239	17.899	1.003	575.319
10/20/2012 17:13	201600	1.403	17.514	3.239	17.899	1.003	575.319
10/20/2012 17:28	202500	1.402	17.513	3.238	17.898	1.003	575.318
10/20/2012 17:43	203400	1.402	17.514	3.237	17.897	1.003	575.317
10/20/2012 17:58	204300	1.402	17.514	3.237	17.897	1.003	575.317
10/20/2012 18:13	205200	1.401	17.514	3.235	17.895	1.003	575.315
10/20/2012 18:28	206100	1.401	17.514	3.234	17.894	1.003	575.314
10/20/2012 18:43	207000	1.4	17.513	3.233	17.893	1.003	575.313
10/20/2012 18:58	207900	1.399	17.514	3.231	17.891	1.003	575.311
10/20/2012 19:13	208800	1.399	17.512	3.23	17.89	1.003	575.31
10/20/2012 19:28	209700	1.399	17.51	3.23	17.89	1.003	575.31
10/20/2012 19:43	210600	1.398	17.514	3.228	17.888	1.003	575.308
10/20/2012 19:58	211500	1.398	17.515	3.227	17.887	1.003	575.307
10/20/2012 20:13	212400	1.397	17.51	3.225	17.885	1.003	575.305
10/20/2012 20:28	213300	1.397	17.511	3.225	17.885	1.003	575.305
10/20/2012 20:43	214200	1.397	17.514	3.226	17.886	1.003	575.306
10/20/2012 20:58	215100	1.396	17.512	3.224	17.884	1.002	575.304
10/20/2012 21:13	216000	1.396	17.512	3.223	17.883	1.002	575.303

Appendix E-2

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/20/2012 21:28	216900	1.395	17.512	3.221	17.881	1.002	575.301
10/20/2012 21:43	217800	1.396	17.513	3.223	17.883	1.002	575.303
10/20/2012 21:58	218700	1.396	17.513	3.223	17.883	1.002	575.303
10/20/2012 22:13	219600	1.396	17.514	3.222	17.882	1.002	575.302
10/20/2012 22:28	220500	1.396	17.513	3.223	17.883	1.002	575.303
10/20/2012 22:43	221400	1.395	17.513	3.222	17.882	1.002	575.302
10/20/2012 22:58	222300	1.395	17.512	3.222	17.882	1.002	575.302
10/20/2012 23:13	223200	1.396	17.511	3.223	17.883	1.002	575.303
10/20/2012 23:28	224100	1.396	17.512	3.224	17.884	1.002	575.304
10/20/2012 23:43	225000	1.396	17.514	3.223	17.883	1.002	575.303
10/20/2012 23:58	225900	1.396	17.512	3.224	17.884	1.002	575.304
10/21/2012 0:13	226800	1.396	17.514	3.224	17.884	1.002	575.304
10/21/2012 0:28	227700	1.396	17.512	3.224	17.884	1.002	575.304
10/21/2012 0:43	228600	1.396	17.51	3.222	17.882	1.002	575.302
10/21/2012 0:58	229500	1.395	17.511	3.222	17.882	1.002	575.302
10/21/2012 1:13	230400	1.395	17.512	3.221	17.881	1.002	575.301
10/21/2012 1:28	231300	1.395	17.514	3.22	17.88	1.002	575.3
10/21/2012 1:43	232200	1.394	17.512	3.219	17.879	1.002	575.299
10/21/2012 1:58	233100	1.394	17.511	3.218	17.878	1.002	575.298
10/21/2012 2:13	234000	1.394	17.511	3.219	17.879	1.002	575.299
10/21/2012 2:28	234900	1.393	17.51	3.217	17.877	1.002	575.297
10/21/2012 2:43	235800	1.393	17.514	3.217	17.877	1.002	575.297
10/21/2012 2:58	236700	1.392	17.514	3.215	17.875	1.002	575.295
10/21/2012 3:13	237600	1.392	17.513	3.214	17.874	1.002	575.294
10/21/2012 3:28	238500	1.391	17.512	3.212	17.872	1.002	575.292
10/21/2012 3:43	239400	1.391	17.513	3.212	17.872	1.002	575.292
10/21/2012 3:58	240300	1.391	17.514	3.212	17.872	1.002	575.292
10/21/2012 4:13	241200	1.39	17.512	3.21	17.87	1.002	575.29
10/21/2012 4:28	242100	1.389	17.514	3.207	17.867	1.002	575.287
10/21/2012 4:43	243000	1.388	17.513	3.206	17.866	1.001	575.286
10/21/2012 4:58	243900	1.388	17.513	3.204	17.864	1.001	575.284
10/21/2012 5:13	244800	1.387	17.513	3.203	17.863	1.001	575.283
10/21/2012 5:28	245700	1.386	17.513	3.2	17.86	1.001	575.28
10/21/2012 5:43	246600	1.386	17.513	3.199	17.859	1.001	575.279
10/21/2012 5:58	247500	1.385	17.512	3.198	17.858	1.001	575.278
10/21/2012 6:13	248400	1.384	17.511	3.196	17.856	1.001	575.276
10/21/2012 6:28	249300	1.384	17.514	3.195	17.855	1.001	575.275
10/21/2012 6:43	250200	1.384	17.511	3.196	17.856	1.001	575.276
10/21/2012 6:58	251100	1.384	17.511	3.195	17.855	1.001	575.275
10/21/2012 7:13	252000	1.384	17.511	3.195	17.855	1.001	575.275
10/21/2012 7:28	252900	1.383	17.509	3.194	17.854	1.001	575.274
10/21/2012 7:43	253800	1.383	17.511	3.194	17.854	1.001	575.274
10/21/2012 7:58	254700	1.383	17.511	3.192	17.852	1.001	575.272
10/21/2012 8:13	255600	1.382	17.51	3.192	17.852	1.001	575.272
10/21/2012 8:28	256500	1.382	17.51	3.192	17.852	1.001	575.272
10/21/2012 8:43	257400	1.382	17.513	3.192	17.852	1.001	575.272
10/21/2012 8:58	258300	1.382	17.512	3.192	17.852	1.001	575.272
10/21/2012 9:13	259200	1.383	17.51	3.192	17.852	1.001	575.272

Appendix E-2

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	Groundwater		
					H (ft)	H/H0	Elevation (ft AMSL)
10/21/2012 9:28	260100	1.383	17.51	3.192	17.852	1.001	575.272
10/21/2012 9:43	261000	1.383	17.511	3.193	17.853	1.001	575.273
10/21/2012 9:58	261900	1.383	17.512	3.194	17.854	1.001	575.274
10/21/2012 10:13	262800	1.383	17.509	3.194	17.854	1.001	575.274
10/21/2012 10:28	263700	1.383	17.51	3.194	17.854	1.001	575.274
10/21/2012 10:43	264600	1.384	17.511	3.195	17.855	1.001	575.275
10/21/2012 10:58	265500	1.384	17.509	3.195	17.855	1.001	575.275
10/21/2012 11:13	266400	1.384	17.512	3.195	17.855	1.001	575.275
10/21/2012 11:28	267300	1.384	17.512	3.196	17.856	1.001	575.276
10/21/2012 11:43	268200	1.384	17.51	3.196	17.856	1.001	575.276
10/21/2012 11:58	269100	1.385	17.507	3.197	17.857	1.001	575.277
10/21/2012 12:13	270000	1.385	17.511	3.197	17.857	1.001	575.277
10/21/2012 12:28	270900	1.384	17.51	3.196	17.856	1.001	575.276
10/21/2012 12:43	271800	1.385	17.509	3.198	17.858	1.001	575.278
10/21/2012 12:58	272700	1.385	17.51	3.198	17.858	1.001	575.278
10/21/2012 13:13	273600	1.386	17.512	3.2	17.86	1.001	575.28
10/21/2012 13:28	274500	1.386	17.509	3.2	17.86	1.001	575.28
10/21/2012 13:43	275400	1.386	17.509	3.201	17.861	1.001	575.281
10/21/2012 13:58	276300	1.386	17.512	3.201	17.861	1.001	575.281
10/21/2012 14:13	277200	1.387	17.507	3.202	17.862	1.001	575.282
10/21/2012 14:28	278100	1.387	17.51	3.203	17.863	1.001	575.283
10/21/2012 14:43	279000	1.387	17.51	3.204	17.864	1.001	575.284
10/21/2012 14:58	279900	1.387	17.507	3.202	17.862	1.001	575.282
10/21/2012 15:13	280800	1.387	17.508	3.204	17.864	1.001	575.284
10/21/2012 15:28	281700	1.388	17.51	3.204	17.864	1.001	575.284
10/21/2012 15:43	282600	1.388	17.508	3.204	17.864	1.001	575.284
10/21/2012 15:58	283500	1.387	17.509	3.203	17.863	1.001	575.283
10/21/2012 16:13	284400	1.387	17.509	3.202	17.862	1.001	575.282
10/21/2012 16:28	285300	1.387	17.51	3.202	17.862	1.001	575.282
10/21/2012 16:43	286200	1.387	17.509	3.201	17.861	1.001	575.281
10/21/2012 16:58	287100	1.387	17.508	3.202	17.862	1.001	575.282
10/21/2012 17:13	288000	1.386	17.507	3.2	17.86	1.001	575.28
10/21/2012 17:28	288900	1.386	17.508	3.2	17.86	1.001	575.28
10/21/2012 17:43	289800	1.385	17.509	3.199	17.859	1.001	575.279
10/21/2012 17:58	290700	1.385	17.511	3.198	17.858	1.001	575.278
10/21/2012 18:13	291600	1.385	17.509	3.197	17.857	1.001	575.277
10/21/2012 18:28	292500	1.384	17.51	3.196	17.856	1.001	575.276
10/21/2012 18:43	293400	1.384	17.51	3.195	17.855	1.001	575.275
10/21/2012 18:58	294300	1.384	17.51	3.195	17.855	1.001	575.275
10/21/2012 19:13	295200	1.383	17.509	3.193	17.853	1.001	575.273
10/21/2012 19:28	296100	1.383	17.509	3.194	17.854	1.001	575.274
10/21/2012 19:43	297000	1.383	17.509	3.193	17.853	1.001	575.273
10/21/2012 19:58	297900	1.382	17.509	3.191	17.851	1.001	575.271
10/21/2012 20:13	298800	1.382	17.508	3.191	17.851	1.001	575.271
10/21/2012 20:28	299700	1.382	17.507	3.19	17.85	1.001	575.27
10/21/2012 20:43	300600	1.381	17.509	3.189	17.849	1.001	575.269
10/21/2012 20:58	301500	1.381	17.509	3.188	17.848	1	575.268
10/21/2012 21:13	302400	1.381	17.508	3.188	17.848	1	575.268

Appendix E-2

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater
							Elevation (ft AMSL)
10/21/2012 21:28	303300	1.381	17.508	3.188	17.848	1	575.268
10/21/2012 21:43	304200	1.38	17.51	3.187	17.847	1	575.267
10/21/2012 21:58	305100	1.38	17.509	3.187	17.847	1	575.267
10/21/2012 22:13	306000	1.38	17.511	3.186	17.846	1	575.266
10/21/2012 22:28	306900	1.38	17.51	3.187	17.847	1	575.267
10/21/2012 22:43	307800	1.381	17.511	3.188	17.848	1	575.268
10/21/2012 22:58	308700	1.381	17.511	3.188	17.848	1	575.268
10/21/2012 23:13	309600	1.38	17.508	3.187	17.847	1	575.267
10/21/2012 23:28	310500	1.38	17.51	3.186	17.846	1	575.266
10/21/2012 23:43	311400	1.379	17.509	3.185	17.845	1	575.265
10/21/2012 23:58	312300	1.379	17.506	3.184	17.844	1	575.264
10/22/2012 0:13	313200	1.379	17.506	3.183	17.843	1	575.263
10/22/2012 0:28	314100	1.379	17.507	3.184	17.844	1	575.264
10/22/2012 0:43	315000	1.379	17.509	3.185	17.845	1	575.265
10/22/2012 0:58	315900	1.379	17.508	3.184	17.844	1	575.264
10/22/2012 1:13	316800	1.379	17.509	3.183	17.843	1	575.263
10/22/2012 1:28	317700	1.378	17.507	3.183	17.843	1	575.263
10/22/2012 1:43	318600	1.379	17.508	3.184	17.844	1	575.264
10/22/2012 1:58	319500	1.379	17.508	3.184	17.844	1	575.264
10/22/2012 2:13	320400	1.379	17.506	3.184	17.844	1	575.264
10/22/2012 2:28	321300	1.379	17.505	3.185	17.845	1	575.265
10/22/2012 2:43	322200	1.38	17.504	3.185	17.845	1	575.265
10/22/2012 2:58	323100	1.38	17.504	3.186	17.846	1	575.266
10/22/2012 3:13	324000	1.38	17.507	3.186	17.846	1	575.266
10/22/2012 3:28	324900	1.379	17.508	3.184	17.844	1	575.264
10/22/2012 3:43	325800	1.379	17.51	3.185	17.845	1	575.265
10/22/2012 3:58	326700	1.379	17.506	3.184	17.844	1	575.264
10/22/2012 4:13	327600	1.379	17.508	3.184	17.844	1	575.264
10/22/2012 4:28	328500	1.378	17.508	3.183	17.843	1	575.263
10/22/2012 4:43	329400	1.379	17.509	3.185	17.845	1	575.265
10/22/2012 4:58	330300	1.379	17.508	3.185	17.845	1	575.265
10/22/2012 5:13	331200	1.379	17.506	3.184	17.844	1	575.264
10/22/2012 5:28	332100	1.379	17.506	3.184	17.844	1	575.264
10/22/2012 5:43	333000	1.379	17.509	3.183	17.843	1	575.263
10/22/2012 5:58	333900	1.378	17.509	3.182	17.842	1	575.262
10/22/2012 6:13	334800	1.378	17.507	3.182	17.842	1	575.262
10/22/2012 6:28	335700	1.378	17.507	3.183	17.843	1	575.263
10/22/2012 6:43	336600	1.379	17.507	3.183	17.843	1	575.263
10/22/2012 6:58	337500	1.378	17.506	3.183	17.843	1	575.263
10/22/2012 7:13	338400	1.378	17.509	3.181	17.841	1	575.261
10/22/2012 7:28	339300	1.377	17.507	3.18	17.84	1	575.26
10/22/2012 7:43	340200	1.377	17.509	3.179	17.839	1	575.259
10/22/2012 7:58	341100	1.376	17.508	3.176	17.836	1	575.256
10/22/2012 8:13	342000	1.376	17.506	3.177	17.837	1	575.257
10/22/2012 8:28	342900	1.377	17.507	3.178	17.838	1	575.258
10/22/2012 8:43	343800	1.377	17.506	3.179	17.839	1	575.259
10/22/2012 8:58	344700	1.376	17.506	3.177	17.837	1	575.257
10/22/2012 9:13	345600	1.376	17.508	3.177	17.837	1	575.257

Appendix E-2

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	Groundwater		
					H (ft)	H/H0	Elevation (ft AMSL)
10/22/2012 9:28	346500	1.376	17.509	3.177	17.837	1	575.257
10/22/2012 9:43	347400	1.376	17.508	3.178	17.838	1	575.258
10/22/2012 9:58	348300	1.376	17.508	3.177	17.837	1	575.257
10/22/2012 10:13	349200	1.376	17.506	3.178	17.838	1	575.258
10/22/2012 10:28	350100	1.376	17.508	3.178	17.838	1	575.258
10/22/2012 10:43	351000	1.376	17.509	3.178	17.838	1	575.258
10/22/2012 10:58	351900	1.376	17.507	3.177	17.837	1	575.257
10/22/2012 11:13	352800	1.377	17.505	3.18	17.84	1	575.26
10/22/2012 11:28	353700	1.377	17.507	3.18	17.84	1	575.26
10/22/2012 11:43	354600	1.377	17.506	3.18	17.84	1	575.26
10/22/2012 11:58	355500	1.378	17.504	3.181	17.841	1	575.261
10/22/2012 12:13	356400	1.378	17.507	3.181	17.841	1	575.261
10/22/2012 12:28	357300	1.378	17.506	3.181	17.841	1	575.261
10/22/2012 12:43	358200	1.378	17.504	3.183	17.843	1	575.263
10/22/2012 12:58	359100	1.378	17.505	3.183	17.843	1	575.263
10/22/2012 13:13	360000	1.379	17.503	3.184	17.844	1	575.264
10/22/2012 13:28	360900	1.379	17.502	3.184	17.844	1	575.264
10/22/2012 13:43	361800	1.379	17.504	3.185	17.845	1	575.265
10/22/2012 13:58	362700	1.38	17.505	3.186	17.846	1	575.266
10/22/2012 14:13	363600	1.38	17.504	3.186	17.846	1	575.266
10/22/2012 14:28	364500	1.381	17.506	3.188	17.848	1	575.268
10/22/2012 14:43	365400	1.381	17.505	3.19	17.85	1.001	575.27
10/22/2012 14:58	366300	1.381	17.506	3.189	17.849	1.001	575.269
10/22/2012 15:13	367200	1.381	17.506	3.19	17.85	1.001	575.27
10/22/2012 15:28	368100	1.382	17.506	3.19	17.85	1.001	575.27
10/22/2012 15:43	369000	1.382	17.504	3.191	17.851	1.001	575.271
10/22/2012 15:58	369900	1.383	17.505	3.193	17.853	1.001	575.273
10/22/2012 16:13	370800	1.383	17.505	3.193	17.853	1.001	575.273
10/22/2012 16:28	371700	1.383	17.507	3.194	17.854	1.001	575.274
10/22/2012 16:43	372600	1.384	17.508	3.196	17.856	1.001	575.276
10/22/2012 16:58	373500	1.384	17.506	3.196	17.856	1.001	575.276
10/22/2012 17:13	374400	1.385	17.504	3.197	17.857	1.001	575.277
10/22/2012 17:28	375300	1.384	17.508	3.196	17.856	1.001	575.276
10/22/2012 17:43	376200	1.384	17.503	3.196	17.856	1.001	575.276
10/22/2012 17:58	377100	1.384	17.503	3.195	17.855	1.001	575.275
10/22/2012 18:13	378000	1.384	17.505	3.194	17.854	1.001	575.274
10/22/2012 18:28	378900	1.383	17.504	3.193	17.853	1.001	575.273
10/22/2012 18:43	379800	1.383	17.506	3.192	17.852	1.001	575.272
10/22/2012 18:58	380700	1.382	17.507	3.191	17.851	1.001	575.271
10/22/2012 19:13	381600	1.381	17.503	3.19	17.85	1.001	575.27
10/22/2012 19:28	382500	1.382	17.504	3.19	17.85	1.001	575.27
10/22/2012 19:43	383400	1.382	17.504	3.19	17.85	1.001	575.27
10/22/2012 19:58	384300	1.382	17.503	3.19	17.85	1.001	575.27
10/22/2012 20:13	385200	1.381	17.504	3.189	17.849	1.001	575.269
10/22/2012 20:28	386100	1.381	17.505	3.188	17.848	1	575.268
10/22/2012 20:43	387000	1.381	17.504	3.189	17.849	1.001	575.269
10/22/2012 20:58	387900	1.381	17.503	3.188	17.848	1	575.268
10/22/2012 21:13	388800	1.381	17.502	3.188	17.848	1	575.268

Appendix E-2

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	Groundwater		
					H (ft)	H/H0	Elevation (ft AMSL)
10/22/2012 21:28	389700	1.381	17.505	3.189	17.849	1.001	575.269
10/22/2012 21:43	390600	1.381	17.502	3.189	17.849	1.001	575.269
10/22/2012 21:58	391500	1.381	17.502	3.188	17.848	1	575.268
10/22/2012 22:13	392400	1.381	17.505	3.189	17.849	1.001	575.269
10/22/2012 22:28	393300	1.381	17.502	3.189	17.849	1.001	575.269
10/22/2012 22:43	394200	1.382	17.503	3.19	17.85	1.001	575.27
10/22/2012 22:58	395100	1.382	17.502	3.191	17.851	1.001	575.271
10/22/2012 23:13	396000	1.382	17.503	3.191	17.851	1.001	575.271
10/22/2012 23:28	396900	1.382	17.505	3.191	17.851	1.001	575.271
10/22/2012 23:43	397800	1.382	17.506	3.191	17.851	1.001	575.271
10/22/2012 23:58	398700	1.382	17.502	3.19	17.85	1.001	575.27
10/23/2012 0:13	399600	1.382	17.504	3.191	17.851	1.001	575.271
10/23/2012 0:28	400500	1.382	17.504	3.191	17.851	1.001	575.271
10/23/2012 0:43	401400	1.382	17.503	3.19	17.85	1.001	575.27
10/23/2012 0:58	402300	1.382	17.504	3.192	17.852	1.001	575.272
10/23/2012 1:13	403200	1.382	17.502	3.191	17.851	1.001	575.271
10/23/2012 1:28	404100	1.382	17.503	3.19	17.85	1.001	575.27
10/23/2012 1:43	405000	1.382	17.503	3.191	17.851	1.001	575.271
10/23/2012 1:58	405900	1.382	17.505	3.192	17.852	1.001	575.272
10/23/2012 2:13	406800	1.382	17.502	3.192	17.852	1.001	575.272
10/23/2012 2:28	407700	1.382	17.501	3.192	17.852	1.001	575.272
10/23/2012 2:43	408600	1.383	17.503	3.192	17.852	1.001	575.272
10/23/2012 2:58	409500	1.383	17.502	3.193	17.853	1.001	575.273
10/23/2012 3:13	410400	1.383	17.503	3.193	17.853	1.001	575.273
10/23/2012 3:28	411300	1.382	17.501	3.192	17.852	1.001	575.272
10/23/2012 3:43	412200	1.383	17.501	3.192	17.852	1.001	575.272
10/23/2012 3:58	413100	1.383	17.501	3.193	17.853	1.001	575.273
10/23/2012 4:13	414000	1.383	17.502	3.192	17.852	1.001	575.272
10/23/2012 4:28	414900	1.383	17.503	3.193	17.853	1.001	575.273
10/23/2012 4:43	415800	1.384	17.503	3.195	17.855	1.001	575.275
10/23/2012 4:58	416700	1.384	17.503	3.196	17.856	1.001	575.276
10/23/2012 5:13	417600	1.385	17.501	3.197	17.857	1.001	575.277
10/23/2012 5:28	418500	1.385	17.5	3.198	17.858	1.001	575.278
10/23/2012 5:43	419400	1.384	17.503	3.196	17.856	1.001	575.276
10/23/2012 5:58	420300	1.384	17.503	3.195	17.855	1.001	575.275
10/23/2012 6:13	421200	1.383	17.504	3.193	17.853	1.001	575.273
10/23/2012 6:28	422100	1.382	17.499	3.19	17.85	1.001	575.27
10/23/2012 6:43	423000	1.382	17.503	3.19	17.85	1.001	575.27
10/23/2012 6:58	423900	1.382	17.501	3.19	17.85	1.001	575.27
10/23/2012 7:13	424800	1.382	17.5	3.192	17.852	1.001	575.272
10/23/2012 7:28	425700	1.383	17.499	3.192	17.852	1.001	575.272
10/23/2012 7:43	426600	1.383	17.501	3.192	17.852	1.001	575.272
10/23/2012 7:58	427500	1.382	17.499	3.192	17.852	1.001	575.272
10/23/2012 8:13	428400	1.381	17.5	3.19	17.85	1.001	575.27
10/23/2012 8:28	429300	1.382	17.499	3.191	17.851	1.001	575.271
10/23/2012 8:43	430200	1.382	17.501	3.191	17.851	1.001	575.271
10/23/2012 8:58	431100	1.381	17.501	3.19	17.85	1.001	575.27
10/23/2012 9:13	432000	1.382	17.501	3.19	17.85	1.001	575.27

Appendix E-2

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	Groundwater		
					H (ft)	H/H0	Elevation (ft AMSL)
10/23/2012 9:28	432900	1.381	17.5	3.188	17.848	1	575.268
10/23/2012 9:43	433800	1.38	17.5	3.187	17.847	1	575.267
10/23/2012 9:58	434700	1.381	17.501	3.188	17.848	1	575.268
10/23/2012 10:13	435600	1.381	17.499	3.188	17.848	1	575.268
10/23/2012 10:28	436500	1.381	17.501	3.19	17.85	1.001	575.27
10/23/2012 10:43	437400	1.381	17.5	3.189	17.849	1.001	575.269
10/23/2012 10:58	438300	1.381	17.501	3.189	17.849	1.001	575.269
10/23/2012 11:13	439200	1.381	17.5	3.188	17.848	1	575.268
10/23/2012 11:28	440100	1.38	17.502	3.187	17.847	1	575.267
10/23/2012 11:43	441000	1.381	17.501	3.189	17.849	1.001	575.269
10/23/2012 11:58	441900	1.381	17.5	3.189	17.849	1.001	575.269
10/23/2012 12:13	442800	1.382	17.499	3.191	17.851	1.001	575.271
10/23/2012 12:28	443700	1.382	17.5	3.192	17.852	1.001	575.272
10/23/2012 12:43	444600	1.383	17.498	3.193	17.853	1.001	575.273
10/23/2012 12:58	445500	1.383	17.499	3.194	17.854	1.001	575.274
10/23/2012 13:13	446400	1.384	17.498	3.195	17.855	1.001	575.275
10/23/2012 13:28	447300	1.385	17.499	3.197	17.857	1.001	575.277
10/23/2012 13:43	448200	1.385	17.501	3.197	17.857	1.001	575.277
10/23/2012 13:58	449100	1.385	17.499	3.199	17.859	1.001	575.279
10/23/2012 14:13	450000	1.386	17.5	3.2	17.86	1.001	575.28
10/23/2012 14:28	450900	1.386	17.499	3.201	17.861	1.001	575.281
10/23/2012 14:43	451800	1.387	17.499	3.203	17.863	1.001	575.283
10/23/2012 14:58	452700	1.387	17.497	3.204	17.864	1.001	575.284
10/23/2012 15:13	453600	1.389	17.498	3.206	17.866	1.001	575.286
10/23/2012 15:28	454500	1.389	17.499	3.207	17.867	1.002	575.287
10/23/2012 15:43	455400	1.39	17.501	3.21	17.87	1.002	575.29
10/23/2012 15:58	456300	1.391	17.498	3.212	17.872	1.002	575.292
10/23/2012 16:13	457200	1.391	17.497	3.211	17.871	1.002	575.291
10/23/2012 16:28	458100	1.391	17.501	3.212	17.872	1.002	575.292
10/23/2012 16:43	459000	1.391	17.499	3.212	17.872	1.002	575.292
10/23/2012 16:58	459900	1.392	17.499	3.213	17.873	1.002	575.293
10/23/2012 17:13	460800	1.391	17.499	3.212	17.872	1.002	575.292
10/23/2012 17:28	461700	1.391	17.499	3.213	17.873	1.002	575.293
10/23/2012 17:43	462600	1.391	17.499	3.212	17.872	1.002	575.292
10/23/2012 17:58	463500	1.392	17.499	3.213	17.873	1.002	575.293
10/23/2012 18:13	464400	1.392	17.501	3.213	17.873	1.002	575.293
10/23/2012 18:28	465300	1.392	17.499	3.214	17.874	1.002	575.294
10/23/2012 18:43	466200	1.392	17.499	3.214	17.874	1.002	575.294
10/23/2012 18:58	467100	1.392	17.498	3.214	17.874	1.002	575.294
10/23/2012 19:13	468000	1.393	17.499	3.216	17.876	1.002	575.296
10/23/2012 19:28	468900	1.394	17.496	3.218	17.878	1.002	575.298
10/23/2012 19:43	469800	1.394	17.497	3.219	17.879	1.002	575.299
10/23/2012 19:58	470700	1.393	17.498	3.218	17.878	1.002	575.298
10/23/2012 20:13	471600	1.394	17.499	3.218	17.878	1.002	575.298
10/23/2012 20:28	472500	1.394	17.499	3.219	17.879	1.002	575.299
10/23/2012 20:43	473400	1.394	17.497	3.219	17.879	1.002	575.299
10/23/2012 20:58	474300	1.394	17.499	3.219	17.879	1.002	575.299
10/23/2012 21:13	475200	1.394	17.499	3.219	17.879	1.002	575.299

Appendix E-2

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	Groundwater		
					H (ft)	H/H0	Elevation (ft AMSL)
10/23/2012 21:28	476100	1.394	17.499	3.219	17.879	1.002	575.299
10/23/2012 21:43	477000	1.394	17.499	3.22	17.88	1.002	575.3
10/23/2012 21:58	477900	1.395	17.497	3.22	17.88	1.002	575.3
10/23/2012 22:13	478800	1.395	17.498	3.22	17.88	1.002	575.3
10/23/2012 22:28	479700	1.394	17.5	3.219	17.879	1.002	575.299
10/23/2012 22:43	480600	1.395	17.5	3.221	17.881	1.002	575.301
10/23/2012 22:58	481500	1.395	17.498	3.221	17.881	1.002	575.301
10/23/2012 23:13	482400	1.396	17.502	3.223	17.883	1.002	575.303
10/23/2012 23:28	483300	1.396	17.497	3.223	17.883	1.002	575.303
10/23/2012 23:43	484200	1.397	17.499	3.225	17.885	1.003	575.305
10/23/2012 23:58	485100	1.397	17.498	3.225	17.885	1.003	575.305
10/24/2012 0:13	486000	1.397	17.499	3.225	17.885	1.003	575.305
10/24/2012 0:28	486900	1.397	17.499	3.226	17.886	1.003	575.306
10/24/2012 0:43	487800	1.397	17.498	3.226	17.886	1.003	575.306
10/24/2012 0:58	488700	1.397	17.498	3.227	17.887	1.003	575.307
10/24/2012 1:13	489600	1.398	17.496	3.228	17.888	1.003	575.308
10/24/2012 1:28	490500	1.398	17.497	3.228	17.888	1.003	575.308
10/24/2012 1:43	491400	1.399	17.499	3.23	17.89	1.003	575.31
10/24/2012 1:58	492300	1.399	17.499	3.231	17.891	1.003	575.311
10/24/2012 2:13	493200	1.4	17.499	3.232	17.892	1.003	575.312
10/24/2012 2:28	494100	1.4	17.496	3.232	17.892	1.003	575.312
10/24/2012 2:43	495000	1.4	17.497	3.233	17.893	1.003	575.313
10/24/2012 2:58	495900	1.4	17.497	3.233	17.893	1.003	575.313
10/24/2012 3:13	496800	1.401	17.497	3.235	17.895	1.003	575.315
10/24/2012 3:28	497700	1.401	17.498	3.234	17.894	1.003	575.314
10/24/2012 3:43	498600	1.401	17.498	3.236	17.896	1.003	575.316
10/24/2012 3:58	499500	1.402	17.497	3.237	17.897	1.003	575.317
10/24/2012 4:13	500400	1.403	17.498	3.238	17.898	1.003	575.318
10/24/2012 4:28	501300	1.402	17.5	3.238	17.898	1.003	575.318
10/24/2012 4:43	502200	1.403	17.497	3.238	17.898	1.003	575.318
10/24/2012 4:58	503100	1.403	17.499	3.24	17.9	1.003	575.32
10/24/2012 5:13	504000	1.403	17.495	3.239	17.899	1.003	575.319
10/24/2012 5:28	504900	1.403	17.497	3.24	17.9	1.003	575.32
10/24/2012 5:43	505800	1.403	17.498	3.24	17.9	1.003	575.32
10/24/2012 5:58	506700	1.404	17.496	3.242	17.902	1.003	575.322
10/24/2012 6:13	507600	1.404	17.498	3.242	17.902	1.003	575.322
10/24/2012 6:28	508500	1.404	17.496	3.242	17.902	1.003	575.322
10/24/2012 6:43	509400	1.404	17.496	3.242	17.902	1.003	575.322
10/24/2012 6:58	510300	1.405	17.495	3.244	17.904	1.004	575.324
10/24/2012 7:13	511200	1.405	17.498	3.245	17.905	1.004	575.325
10/24/2012 7:28	512100	1.406	17.497	3.245	17.905	1.004	575.325
10/24/2012 7:43	513000	1.406	17.497	3.246	17.906	1.004	575.326
10/24/2012 7:58	513900	1.406	17.497	3.247	17.907	1.004	575.327
10/24/2012 8:13	514800	1.407	17.497	3.248	17.908	1.004	575.328
10/24/2012 8:28	515700	1.407	17.497	3.249	17.909	1.004	575.329
10/24/2012 8:43	516600	1.407	17.497	3.25	17.91	1.004	575.33
10/24/2012 8:58	517500	1.407	17.496	3.249	17.909	1.004	575.329
10/24/2012 9:13	518400	1.408	17.493	3.25	17.91	1.004	575.33

Appendix E-2

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	Groundwater		
					H (ft)	H/H0	Elevation (ft AMSL)
10/24/2012 9:28	519300	1.408	17.494	3.25	17.91	1.004	575.33
10/24/2012 9:43	520200	1.408	17.497	3.251	17.911	1.004	575.331
10/24/2012 9:58	521100	1.408	17.494	3.251	17.911	1.004	575.331
10/24/2012 10:13	522000	1.408	17.494	3.252	17.912	1.004	575.332
10/24/2012 10:28	522900	1.409	17.497	3.253	17.913	1.004	575.333
10/24/2012 10:43	523800	1.409	17.497	3.254	17.914	1.004	575.334
10/24/2012 10:58	524700	1.41	17.498	3.255	17.915	1.004	575.335
10/24/2012 11:13	525600	1.41	17.496	3.255	17.915	1.004	575.335
10/24/2012 11:28	526500	1.41	17.497	3.256	17.916	1.004	575.336
10/24/2012 11:43	527400	1.411	17.494	3.257	17.917	1.004	575.337
10/24/2012 11:58	528300	1.411	17.494	3.258	17.918	1.004	575.338
10/24/2012 12:13	529200	1.411	17.495	3.258	17.918	1.004	575.338
10/24/2012 12:28	530100	1.411	17.494	3.259	17.919	1.004	575.339
10/24/2012 12:43	531000	1.412	17.493	3.259	17.919	1.004	575.339
10/24/2012 12:58	531900	1.412	17.493	3.26	17.92	1.004	575.34
10/24/2012 13:13	532800	1.413	17.496	3.262	17.922	1.005	575.342
10/24/2012 13:28	533700	1.413	17.496	3.262	17.922	1.005	575.342
10/24/2012 13:43	534600	1.413	17.495	3.262	17.922	1.005	575.342
10/24/2012 13:58	535500	1.413	17.496	3.263	17.923	1.005	575.343
10/24/2012 14:13	536400	1.413	17.496	3.264	17.924	1.005	575.344
10/24/2012 14:28	537300	1.414	17.495	3.264	17.924	1.005	575.344
10/24/2012 14:43	538200	1.414	17.496	3.264	17.924	1.005	575.344
10/24/2012 14:58	539100	1.414	17.494	3.264	17.924	1.005	575.344
10/24/2012 15:13	540000	1.413	17.495	3.264	17.924	1.005	575.344
10/24/2012 15:28	540900	1.413	17.495	3.262	17.922	1.005	575.342
10/24/2012 15:43	541800	1.412	17.494	3.261	17.921	1.005	575.341
10/24/2012 15:58	542700	1.412	17.493	3.26	17.92	1.004	575.34
10/24/2012 16:13	543600	1.412	17.494	3.26	17.92	1.004	575.34
10/24/2012 16:28	544500	1.412	17.495	3.26	17.92	1.004	575.34
10/24/2012 16:43	545400	1.412	17.494	3.26	17.92	1.004	575.34
10/24/2012 16:58	546300	1.412	17.493	3.26	17.92	1.004	575.34
10/24/2012 17:13	547200	1.412	17.496	3.26	17.92	1.004	575.34
10/24/2012 17:28	548100	1.412	17.496	3.259	17.919	1.004	575.339
10/24/2012 17:43	549000	1.412	17.494	3.261	17.921	1.005	575.341
10/24/2012 17:58	549900	1.412	17.495	3.26	17.92	1.004	575.34
10/24/2012 18:13	550800	1.412	17.495	3.26	17.92	1.004	575.34
10/24/2012 18:28	551700	1.411	17.494	3.259	17.919	1.004	575.339
10/24/2012 18:43	552600	1.411	17.495	3.259	17.919	1.004	575.339
10/24/2012 18:58	553500	1.411	17.495	3.258	17.918	1.004	575.338
10/24/2012 19:13	554400	1.411	17.496	3.258	17.918	1.004	575.338
10/24/2012 19:28	555300	1.41	17.494	3.255	17.915	1.004	575.335
10/24/2012 19:43	556200	1.41	17.494	3.256	17.916	1.004	575.336
10/24/2012 19:58	557100	1.41	17.495	3.256	17.916	1.004	575.336
10/24/2012 20:13	558000	1.41	17.494	3.255	17.915	1.004	575.335
10/24/2012 20:28	558900	1.409	17.494	3.253	17.913	1.004	575.333
10/24/2012 20:43	559800	1.409	17.494	3.253	17.913	1.004	575.333
10/24/2012 20:58	560700	1.409	17.493	3.253	17.913	1.004	575.333
10/24/2012 21:13	561600	1.409	17.494	3.253	17.913	1.004	575.333

Appendix E-2

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/24/2012 21:28	562500	1.409	17.492	3.254	17.914	1.004	575.334
10/24/2012 21:43	563400	1.409	17.494	3.254	17.914	1.004	575.334
10/24/2012 21:58	564300	1.41	17.494	3.256	17.916	1.004	575.336
10/24/2012 22:13	565200	1.41	17.495	3.256	17.916	1.004	575.336
10/24/2012 22:28	566100	1.411	17.491	3.258	17.918	1.004	575.338
10/24/2012 22:43	567000	1.411	17.494	3.257	17.917	1.004	575.337
10/24/2012 22:58	567900	1.411	17.492	3.257	17.917	1.004	575.337
10/24/2012 23:13	568800	1.41	17.492	3.257	17.917	1.004	575.337
10/24/2012 23:28	569700	1.411	17.492	3.257	17.917	1.004	575.337
10/24/2012 23:43	570600	1.41	17.494	3.257	17.917	1.004	575.337
10/24/2012 23:58	571500	1.411	17.492	3.258	17.918	1.004	575.338
10/25/2012 0:13	572400	1.41	17.491	3.257	17.917	1.004	575.337
10/25/2012 0:28	573300	1.411	17.492	3.257	17.917	1.004	575.337
10/25/2012 0:43	574200	1.411	17.494	3.258	17.918	1.004	575.338
10/25/2012 0:58	575100	1.411	17.492	3.258	17.918	1.004	575.338
10/25/2012 1:13	576000	1.411	17.493	3.259	17.919	1.004	575.339
10/25/2012 1:28	576900	1.411	17.493	3.259	17.919	1.004	575.339
10/25/2012 1:43	577800	1.411	17.491	3.258	17.918	1.004	575.338
10/25/2012 1:58	578700	1.411	17.493	3.258	17.918	1.004	575.338
10/25/2012 2:13	579600	1.412	17.493	3.259	17.919	1.004	575.339
10/25/2012 2:28	580500	1.412	17.491	3.26	17.92	1.004	575.34
10/25/2012 2:43	581400	1.412	17.493	3.261	17.921	1.005	575.341
10/25/2012 2:58	582300	1.413	17.49	3.262	17.922	1.005	575.342
10/25/2012 3:13	583200	1.413	17.493	3.262	17.922	1.005	575.342
10/25/2012 3:28	584100	1.413	17.49	3.263	17.923	1.005	575.343
10/25/2012 3:43	585000	1.413	17.495	3.262	17.922	1.005	575.342
10/25/2012 3:58	585900	1.413	17.49	3.263	17.923	1.005	575.343
10/25/2012 4:13	586800	1.413	17.493	3.263	17.923	1.005	575.343
10/25/2012 4:28	587700	1.413	17.493	3.263	17.923	1.005	575.343
10/25/2012 4:43	588600	1.414	17.491	3.264	17.924	1.005	575.344
10/25/2012 4:58	589500	1.414	17.494	3.264	17.924	1.005	575.344
10/25/2012 5:13	590400	1.413	17.492	3.263	17.923	1.005	575.343
10/25/2012 5:28	591300	1.413	17.492	3.264	17.924	1.005	575.344
10/25/2012 5:43	592200	1.413	17.494	3.264	17.924	1.005	575.344
10/25/2012 5:58	593100	1.414	17.49	3.264	17.924	1.005	575.344
10/25/2012 6:13	594000	1.413	17.492	3.264	17.924	1.005	575.344
10/25/2012 6:28	594900	1.413	17.491	3.264	17.924	1.005	575.344
10/25/2012 6:43	595800	1.414	17.491	3.265	17.925	1.005	575.345
10/25/2012 6:58	596700	1.414	17.49	3.264	17.924	1.005	575.344
10/25/2012 7:13	597600	1.414	17.492	3.264	17.924	1.005	575.344
10/25/2012 7:28	598500	1.414	17.492	3.264	17.924	1.005	575.344
10/25/2012 7:43	599400	1.413	17.492	3.263	17.923	1.005	575.343
10/25/2012 7:58	600300	1.413	17.492	3.263	17.923	1.005	575.343
10/25/2012 8:13	601200	1.413	17.49	3.262	17.922	1.005	575.342
10/25/2012 8:28	602100	1.412	17.491	3.261	17.921	1.005	575.341
10/25/2012 8:43	603000	1.413	17.491	3.262	17.922	1.005	575.342
10/25/2012 8:58	603900	1.412	17.493	3.261	17.921	1.005	575.341
10/25/2012 9:13	604800	1.412	17.492	3.261	17.921	1.005	575.341

Appendix E-2

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	Groundwater		
					H (ft)	H/H0	Elevation (ft AMSL)
10/25/2012 9:28	605700	1.412	17.494	3.261	17.921	1.005	575.341
10/25/2012 9:43	606600	1.413	17.493	3.262	17.922	1.005	575.342
10/25/2012 9:58	607500	1.413	17.492	3.261	17.921	1.005	575.341
10/25/2012 10:13	608400	1.413	17.491	3.262	17.922	1.005	575.342
10/25/2012 10:28	609300	1.412	17.491	3.261	17.921	1.005	575.341
<u>Constant Rate Test</u>							
10/25/2012 13:00	0	1.421	17.487	3.281	17.941	1.006	575.361
10/25/2012 13:00	0.251	1.421	17.51	3.282	17.942	1.006	575.362
10/25/2012 13:00	0.5	1.421	17.522	3.281	17.941	1.006	575.361
10/25/2012 13:00	0.75	1.421	17.53	3.281	17.941	1.006	575.361
10/25/2012 13:00	1.001	1.421	17.539	3.281	17.941	1.006	575.361
10/25/2012 13:00	1.251	1.421	17.543	3.28	17.94	1.006	575.36
10/25/2012 13:00	1.5	1.421	17.55	3.281	17.941	1.006	575.361
10/25/2012 13:00	1.75	1.42	17.555	3.279	17.939	1.006	575.359
10/25/2012 13:00	2.001	1.421	17.555	3.28	17.94	1.006	575.36
10/25/2012 13:00	2.251	1.42	17.561	3.28	17.94	1.006	575.36
10/25/2012 13:00	2.5	1.42	17.562	3.28	17.94	1.006	575.36
10/25/2012 13:00	2.75	1.42	17.566	3.28	17.94	1.006	575.36
10/25/2012 13:00	3.001	1.42	17.565	3.28	17.94	1.006	575.36
10/25/2012 13:00	3.251	1.421	17.571	3.28	17.94	1.006	575.36
10/25/2012 13:00	3.5	1.42	17.571	3.279	17.939	1.006	575.359
10/25/2012 13:00	3.75	1.42	17.571	3.279	17.939	1.006	575.359
10/25/2012 13:00	4.001	1.42	17.574	3.279	17.939	1.006	575.359
10/25/2012 13:00	4.251	1.42	17.575	3.279	17.939	1.006	575.359
10/25/2012 13:00	4.5	1.42	17.578	3.279	17.939	1.006	575.359
10/25/2012 13:00	4.75	1.42	17.577	3.278	17.938	1.005	575.358
10/25/2012 13:00	5.001	1.42	17.58	3.28	17.94	1.006	575.36
10/25/2012 13:00	5.251	1.42	17.58	3.279	17.939	1.006	575.359
10/25/2012 13:00	5.5	1.42	17.581	3.279	17.939	1.006	575.359
10/25/2012 13:00	5.75	1.42	17.582	3.279	17.939	1.006	575.359
10/25/2012 13:00	6.001	1.42	17.583	3.278	17.938	1.005	575.358
10/25/2012 13:00	6.36	1.42	17.573	3.278	17.938	1.005	575.358
10/25/2012 13:00	6.72	1.42	17.569	3.279	17.939	1.006	575.359
10/25/2012 13:00	7.14	1.42	17.565	3.28	17.94	1.006	575.36
10/25/2012 13:00	7.56	1.42	17.56	3.279	17.939	1.006	575.359
10/25/2012 13:00	7.98	1.421	17.558	3.28	17.94	1.006	575.36
10/25/2012 13:00	8.46	1.421	17.556	3.28	17.94	1.006	575.36
10/25/2012 13:00	9	1.42	17.555	3.279	17.939	1.006	575.359
10/25/2012 13:00	9.48	1.42	17.552	3.279	17.939	1.006	575.359
10/25/2012 13:00	10.08	1.421	17.549	3.28	17.94	1.006	575.36
10/25/2012 13:00	10.68	1.42	17.543	3.28	17.94	1.006	575.36
10/25/2012 13:00	11.28	1.421	17.546	3.28	17.94	1.006	575.36
10/25/2012 13:00	11.94	1.421	17.545	3.28	17.94	1.006	575.36
10/25/2012 13:00	12.66	1.42	17.539	3.28	17.94	1.006	575.36
10/25/2012 13:00	13.44	1.421	17.539	3.281	17.941	1.006	575.361
10/25/2012 13:00	14.22	1.42	17.537	3.279	17.939	1.006	575.359
10/25/2012 13:00	15.06	1.421	17.537	3.28	17.94	1.006	575.36
10/25/2012 13:00	15.96	1.421	17.534	3.28	17.94	1.006	575.36

Appendix E-2

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/25/2012 13:00	16.92	1.421	17.534	3.281	17.941	1.006	575.361
10/25/2012 13:00	17.88	1.421	17.536	3.281	17.941	1.006	575.361
10/25/2012 13:00	18.96	1.421	17.533	3.281	17.941	1.006	575.361
10/25/2012 13:00	20.1	1.421	17.53	3.281	17.941	1.006	575.361
10/25/2012 13:00	21.3	1.421	17.529	3.281	17.941	1.006	575.361
10/25/2012 13:00	22.56	1.421	17.527	3.281	17.941	1.006	575.361
10/25/2012 13:00	23.88	1.421	17.529	3.281	17.941	1.006	575.361
10/25/2012 13:00	25.32	1.421	17.528	3.282	17.942	1.006	575.362
10/25/2012 13:00	26.82	1.421	17.525	3.282	17.942	1.006	575.362
10/25/2012 13:00	28.38	1.421	17.526	3.281	17.941	1.006	575.361
10/25/2012 13:00	30.06	1.421	17.523	3.281	17.941	1.006	575.361
10/25/2012 13:00	31.86	1.421	17.523	3.281	17.941	1.006	575.361
10/25/2012 13:00	33.72	1.421	17.524	3.282	17.942	1.006	575.362
10/25/2012 13:00	35.76	1.421	17.522	3.281	17.941	1.006	575.361
10/25/2012 13:00	37.86	1.421	17.521	3.282	17.942	1.006	575.362
10/25/2012 13:00	40.08	1.421	17.522	3.281	17.941	1.006	575.361
10/25/2012 13:00	42.48	1.421	17.52	3.282	17.942	1.006	575.362
10/25/2012 13:00	45	1.421	17.522	3.282	17.942	1.006	575.362
10/25/2012 13:00	47.64	1.421	17.519	3.282	17.942	1.006	575.362
10/25/2012 13:00	50.46	1.421	17.518	3.282	17.942	1.006	575.362
10/25/2012 13:00	53.46	1.421	17.515	3.281	17.941	1.006	575.361
10/25/2012 13:00	56.64	1.421	17.515	3.282	17.942	1.006	575.362
10/25/2012 13:01	60	1.421	17.514	3.282	17.942	1.006	575.362
10/25/2012 13:01	63.6	1.421	17.514	3.281	17.941	1.006	575.361
10/25/2012 13:01	67.2	1.421	17.515	3.282	17.942	1.006	575.362
10/25/2012 13:01	71.4	1.421	17.513	3.282	17.942	1.006	575.362
10/25/2012 13:01	75.6	1.421	17.509	3.281	17.941	1.006	575.361
10/25/2012 13:01	79.8	1.422	17.51	3.282	17.942	1.006	575.362
10/25/2012 13:01	84.6	1.421	17.511	3.281	17.941	1.006	575.361
10/25/2012 13:01	90	1.421	17.51	3.282	17.942	1.006	575.362
10/25/2012 13:01	94.8	1.422	17.507	3.282	17.942	1.006	575.362
10/25/2012 13:01	100.8	1.421	17.508	3.282	17.942	1.006	575.362
10/25/2012 13:01	106.8	1.422	17.507	3.282	17.942	1.006	575.362
10/25/2012 13:01	112.8	1.422	17.506	3.283	17.943	1.006	575.363
10/25/2012 13:01	119.4	1.421	17.506	3.282	17.942	1.006	575.362
10/25/2012 13:02	126.6	1.422	17.503	3.282	17.942	1.006	575.362
10/25/2012 13:02	134.4	1.421	17.504	3.282	17.942	1.006	575.362
10/25/2012 13:02	142.2	1.421	17.505	3.282	17.942	1.006	575.362
10/25/2012 13:02	150.6	1.422	17.5	3.282	17.942	1.006	575.362
10/25/2012 13:02	159.6	1.422	17.501	3.282	17.942	1.006	575.362
10/25/2012 13:02	169.2	1.422	17.5	3.282	17.942	1.006	575.362
10/25/2012 13:02	178.8	1.421	17.501	3.282	17.942	1.006	575.362
10/25/2012 13:03	189.6	1.422	17.498	3.283	17.943	1.006	575.363
10/25/2012 13:03	201	1.421	17.499	3.282	17.942	1.006	575.362
10/25/2012 13:03	213	1.422	17.499	3.283	17.943	1.006	575.363
10/25/2012 13:03	225.6	1.422	17.498	3.283	17.943	1.006	575.363
10/25/2012 13:03	238.8	1.422	17.499	3.283	17.943	1.006	575.363
10/25/2012 13:04	253.2	1.422	17.496	3.283	17.943	1.006	575.363

Appendix E-2

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/25/2012 13:04	268.2	1.422	17.496	3.283	17.943	1.006	575.363
10/25/2012 13:04	283.8	1.421	17.494	3.282	17.942	1.006	575.362
10/25/2012 13:05	300.6	1.422	17.497	3.283	17.943	1.006	575.363
10/25/2012 13:05	318.6	1.422	17.494	3.283	17.943	1.006	575.363
10/25/2012 13:05	337.2	1.422	17.495	3.283	17.943	1.006	575.363
10/25/2012 13:05	357.6	1.422	17.494	3.282	17.942	1.006	575.362
10/25/2012 13:06	378.6	1.422	17.494	3.284	17.944	1.006	575.364
10/25/2012 13:06	400.8	1.422	17.494	3.284	17.944	1.006	575.364
10/25/2012 13:07	424.8	1.422	17.492	3.283	17.943	1.006	575.363
10/25/2012 13:07	450	1.422	17.494	3.283	17.943	1.006	575.363
10/25/2012 13:07	476.4	1.422	17.493	3.283	17.943	1.006	575.363
10/25/2012 13:08	504.6	1.422	17.492	3.283	17.943	1.006	575.363
10/25/2012 13:08	534.6	1.422	17.494	3.283	17.943	1.006	575.363
10/25/2012 13:09	566.4	1.422	17.492	3.282	17.942	1.006	575.362
10/25/2012 13:10	600	1.422	17.492	3.283	17.943	1.006	575.363
10/25/2012 13:10	636	1.422	17.491	3.284	17.944	1.006	575.364
10/25/2012 13:11	672	1.422	17.492	3.284	17.944	1.006	575.364
10/25/2012 13:11	714	1.422	17.49	3.284	17.944	1.006	575.364
10/25/2012 13:12	756	1.422	17.492	3.283	17.943	1.006	575.363
10/25/2012 13:13	798	1.422	17.49	3.284	17.944	1.006	575.364
10/25/2012 13:14	846	1.423	17.489	3.285	17.945	1.006	575.365
10/25/2012 13:15	900	1.422	17.493	3.284	17.944	1.006	575.364
10/25/2012 13:15	948	1.423	17.49	3.285	17.945	1.006	575.365
10/25/2012 13:16	1008	1.422	17.488	3.284	17.944	1.006	575.364
10/25/2012 13:17	1068	1.422	17.49	3.284	17.944	1.006	575.364
10/25/2012 13:18	1128	1.423	17.49	3.285	17.945	1.006	575.365
10/25/2012 13:19	1188	1.423	17.489	3.285	17.945	1.006	575.365
10/25/2012 13:20	1248	1.422	17.493	3.284	17.944	1.006	575.364
10/25/2012 13:21	1308	1.423	17.49	3.285	17.945	1.006	575.365
10/25/2012 13:22	1368	1.423	17.493	3.285	17.945	1.006	575.365
10/25/2012 13:23	1428	1.423	17.491	3.285	17.945	1.006	575.365
10/25/2012 13:24	1488	1.423	17.49	3.285	17.945	1.006	575.365
10/25/2012 13:25	1548	1.423	17.493	3.285	17.945	1.006	575.365
10/25/2012 13:26	1608	1.422	17.489	3.284	17.944	1.006	575.364
10/25/2012 13:27	1668	1.423	17.489	3.286	17.946	1.006	575.366
10/25/2012 13:28	1728	1.423	17.489	3.286	17.946	1.006	575.366
10/25/2012 13:29	1788	1.423	17.493	3.286	17.946	1.006	575.366
10/25/2012 13:30	1848	1.423	17.49	3.285	17.945	1.006	575.365
10/25/2012 13:31	1908	1.423	17.491	3.286	17.946	1.006	575.366
10/25/2012 13:32	1968	1.423	17.491	3.286	17.946	1.006	575.366
10/25/2012 13:33	2028	1.423	17.493	3.287	17.947	1.006	575.367
10/25/2012 13:34	2088	1.423	17.487	3.286	17.946	1.006	575.366
10/25/2012 13:35	2148	1.424	17.49	3.287	17.947	1.006	575.367
10/25/2012 13:36	2208	1.424	17.491	3.287	17.947	1.006	575.367
10/25/2012 13:37	2268	1.424	17.488	3.287	17.947	1.006	575.367
10/25/2012 13:38	2328	1.424	17.489	3.287	17.947	1.006	575.367
10/25/2012 13:39	2388	1.424	17.488	3.287	17.947	1.006	575.367
10/25/2012 13:40	2448	1.424	17.489	3.287	17.947	1.006	575.367

Appendix E-2

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/25/2012 13:41	2508	1.424	17.49	3.287	17.947	1.006	575.367
10/25/2012 13:42	2568	1.424	17.489	3.288	17.948	1.006	575.368
10/25/2012 13:43	2628	1.424	17.489	3.288	17.948	1.006	575.368
10/25/2012 13:44	2688	1.424	17.491	3.288	17.948	1.006	575.368
10/25/2012 13:45	2748	1.424	17.487	3.288	17.948	1.006	575.368
10/25/2012 13:46	2808	1.424	17.49	3.288	17.948	1.006	575.368
10/25/2012 13:47	2868	1.424	17.49	3.289	17.949	1.006	575.369
10/25/2012 13:48	2928	1.424	17.492	3.288	17.948	1.006	575.368
10/25/2012 13:49	2988	1.424	17.489	3.288	17.948	1.006	575.368
10/25/2012 13:50	3048	1.424	17.491	3.288	17.948	1.006	575.368
10/25/2012 13:51	3108	1.425	17.49	3.289	17.949	1.006	575.369
10/25/2012 13:52	3168	1.425	17.491	3.289	17.949	1.006	575.369
10/25/2012 13:53	3228	1.425	17.488	3.289	17.949	1.006	575.369
10/25/2012 13:54	3288	1.425	17.49	3.289	17.949	1.006	575.369
10/25/2012 13:55	3348	1.425	17.49	3.29	17.95	1.006	575.37
10/25/2012 13:57	3468	1.424	17.496	3.289	17.949	1.006	575.369
10/25/2012 13:58	3528	1.425	17.491	3.29	17.95	1.006	575.37
10/25/2012 13:59	3588	1.425	17.492	3.29	17.95	1.006	575.37
10/25/2012 14:00	3648	1.424	17.491	3.289	17.949	1.006	575.369
10/25/2012 14:01	3708	1.425	17.491	3.291	17.951	1.006	575.371
10/25/2012 14:02	3768	1.425	17.492	3.291	17.951	1.006	575.371
10/25/2012 14:03	3828	1.425	17.489	3.291	17.951	1.006	575.371
10/25/2012 14:04	3888	1.425	17.489	3.29	17.95	1.006	575.37
10/25/2012 14:05	3948	1.425	17.489	3.29	17.95	1.006	575.37
10/25/2012 14:06	4008	1.425	17.491	3.291	17.951	1.006	575.371
10/25/2012 14:07	4068	1.425	17.493	3.291	17.951	1.006	575.371
10/25/2012 14:08	4128	1.426	17.492	3.292	17.952	1.006	575.372
10/25/2012 14:09	4188	1.425	17.489	3.29	17.95	1.006	575.37
10/25/2012 14:10	4248	1.426	17.489	3.292	17.952	1.006	575.372
10/25/2012 14:11	4308	1.425	17.49	3.291	17.951	1.006	575.371
10/25/2012 14:12	4368	1.426	17.492	3.292	17.952	1.006	575.372
10/25/2012 14:13	4428	1.426	17.49	3.292	17.952	1.006	575.372
10/25/2012 14:14	4488	1.426	17.49	3.292	17.952	1.006	575.372
10/25/2012 14:15	4548	1.426	17.491	3.293	17.953	1.006	575.373
10/25/2012 14:16	4608	1.426	17.49	3.292	17.952	1.006	575.372
10/25/2012 14:17	4668	1.426	17.491	3.292	17.952	1.006	575.372
10/25/2012 14:18	4728	1.426	17.489	3.292	17.952	1.006	575.372
10/25/2012 14:19	4788	1.426	17.491	3.293	17.953	1.006	575.373
10/25/2012 14:20	4848	1.426	17.492	3.293	17.953	1.006	575.373
10/25/2012 14:21	4908	1.426	17.491	3.293	17.953	1.006	575.373
10/25/2012 14:22	4968	1.426	17.488	3.293	17.953	1.006	575.373
10/25/2012 14:23	5028	1.426	17.493	3.294	17.954	1.006	575.374
10/25/2012 14:24	5088	1.426	17.488	3.293	17.953	1.006	575.373
10/25/2012 14:25	5148	1.426	17.49	3.293	17.953	1.006	575.373
10/25/2012 14:26	5208	1.427	17.489	3.294	17.954	1.006	575.374
10/25/2012 14:27	5268	1.426	17.49	3.293	17.953	1.006	575.373
10/25/2012 14:28	5328	1.426	17.488	3.293	17.953	1.006	575.373
10/25/2012 14:29	5388	1.427	17.487	3.294	17.954	1.006	575.374

Appendix E-2

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	Groundwater		
					H (ft)	H/H0	Elevation (ft AMSL)
10/25/2012 14:30	5448	1.427	17.489	3.294	17.954	1.006	575.374
10/25/2012 14:31	5508	1.427	17.49	3.294	17.954	1.006	575.374
10/25/2012 14:32	5568	1.427	17.489	3.294	17.954	1.006	575.374
10/25/2012 14:33	5628	1.427	17.488	3.295	17.955	1.006	575.375
10/25/2012 14:34	5688	1.427	17.488	3.294	17.954	1.006	575.374
10/25/2012 14:35	5748	1.427	17.491	3.295	17.955	1.006	575.375
10/25/2012 14:36	5808	1.427	17.49	3.294	17.954	1.006	575.374
10/25/2012 14:37	5868	1.427	17.49	3.294	17.954	1.006	575.374
10/25/2012 14:38	5928	1.427	17.49	3.295	17.955	1.006	575.375
10/25/2012 14:39	5988	1.427	17.489	3.295	17.955	1.006	575.375
10/25/2012 14:40	6048	1.427	17.491	3.295	17.955	1.006	575.375
10/25/2012 14:41	6108	1.427	17.49	3.295	17.955	1.006	575.375
10/25/2012 14:42	6168	1.427	17.488	3.295	17.955	1.006	575.375
10/25/2012 14:43	6228	1.427	17.489	3.295	17.955	1.006	575.375
10/25/2012 14:44	6288	1.427	17.489	3.295	17.955	1.006	575.375
10/25/2012 14:45	6348	1.427	17.492	3.295	17.955	1.006	575.375
10/25/2012 14:46	6408	1.427	17.488	3.296	17.956	1.007	575.376
10/25/2012 14:47	6468	1.427	17.488	3.295	17.955	1.006	575.375
10/25/2012 14:48	6528	1.428	17.491	3.296	17.956	1.007	575.376
10/25/2012 14:49	6588	1.427	17.489	3.295	17.955	1.006	575.375
10/25/2012 14:50	6648	1.427	17.489	3.296	17.956	1.007	575.376
10/25/2012 14:51	6708	1.427	17.489	3.295	17.955	1.006	575.375
10/25/2012 14:52	6768	1.428	17.49	3.296	17.956	1.007	575.376
10/25/2012 14:53	6828	1.427	17.489	3.295	17.955	1.006	575.375
10/25/2012 14:54	6888	1.428	17.492	3.296	17.956	1.007	575.376
10/25/2012 14:55	6948	1.427	17.49	3.296	17.956	1.007	575.376
10/25/2012 14:56	7008	1.427	17.489	3.296	17.956	1.007	575.376
10/25/2012 14:57	7068	1.427	17.489	3.295	17.955	1.006	575.375
10/25/2012 14:58	7128	1.428	17.49	3.296	17.956	1.007	575.376
10/25/2012 14:59	7188	1.428	17.489	3.297	17.957	1.007	575.377
10/25/2012 15:00	7248	1.427	17.489	3.296	17.956	1.007	575.376
10/25/2012 15:01	7308	1.428	17.489	3.296	17.956	1.007	575.376
10/25/2012 15:02	7368	1.427	17.492	3.296	17.956	1.007	575.376
10/25/2012 15:03	7428	1.427	17.489	3.296	17.956	1.007	575.376
10/25/2012 15:04	7488	1.427	17.491	3.296	17.956	1.007	575.376
10/25/2012 15:05	7548	1.427	17.489	3.296	17.956	1.007	575.376
10/25/2012 15:06	7608	1.428	17.492	3.296	17.956	1.007	575.376
10/25/2012 15:07	7668	1.427	17.491	3.296	17.956	1.007	575.376
10/25/2012 15:08	7728	1.427	17.491	3.296	17.956	1.007	575.376
10/25/2012 15:09	7788	1.428	17.488	3.296	17.956	1.007	575.376
10/25/2012 15:10	7848	1.427	17.489	3.296	17.956	1.007	575.376
10/25/2012 15:11	7908	1.427	17.492	3.295	17.955	1.006	575.375
10/25/2012 15:12	7968	1.427	17.49	3.296	17.956	1.007	575.376
10/25/2012 15:13	8028	1.427	17.49	3.296	17.956	1.007	575.376
10/25/2012 15:14	8088	1.427	17.491	3.296	17.956	1.007	575.376
10/25/2012 15:15	8148	1.427	17.489	3.296	17.956	1.007	575.376
10/25/2012 15:16	8208	1.428	17.488	3.296	17.956	1.007	575.376
10/25/2012 15:17	8268	1.428	17.489	3.296	17.956	1.007	575.376

Appendix E-2

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	Groundwater		
					H (ft)	H/H0	Elevation (ft AMSL)
10/25/2012 15:18	8328	1.427	17.488	3.296	17.956	1.007	575.376
10/25/2012 15:19	8388	1.427	17.49	3.296	17.956	1.007	575.376
10/25/2012 15:20	8448	1.428	17.491	3.296	17.956	1.007	575.376
10/25/2012 15:21	8508	1.427	17.489	3.296	17.956	1.007	575.376
10/25/2012 15:22	8568	1.428	17.487	3.297	17.957	1.007	575.377
10/25/2012 15:23	8628	1.428	17.491	3.297	17.957	1.007	575.377
10/25/2012 15:24	8688	1.428	17.49	3.296	17.956	1.007	575.376
10/25/2012 15:25	8748	1.428	17.49	3.296	17.956	1.007	575.376
10/25/2012 15:26	8808	1.427	17.489	3.296	17.956	1.007	575.376
10/25/2012 15:27	8868	1.428	17.492	3.297	17.957	1.007	575.377
10/25/2012 15:28	8928	1.428	17.488	3.297	17.957	1.007	575.377
10/25/2012 15:29	8988	1.427	17.491	3.296	17.956	1.007	575.376
10/25/2012 15:30	9048	1.427	17.49	3.296	17.956	1.007	575.376
10/25/2012 15:31	9108	1.427	17.492	3.295	17.955	1.006	575.375
10/25/2012 15:32	9168	1.428	17.489	3.297	17.957	1.007	575.377
10/25/2012 15:33	9228	1.428	17.489	3.296	17.956	1.007	575.376
10/25/2012 15:34	9288	1.428	17.491	3.297	17.957	1.007	575.377
10/25/2012 15:35	9348	1.427	17.489	3.295	17.955	1.006	575.375
10/25/2012 15:36	9408	1.428	17.489	3.296	17.956	1.007	575.376
10/25/2012 15:37	9468	1.427	17.489	3.295	17.955	1.006	575.375
10/25/2012 15:38	9528	1.427	17.489	3.296	17.956	1.007	575.376
10/25/2012 15:39	9588	1.428	17.489	3.296	17.956	1.007	575.376
10/25/2012 15:40	9648	1.427	17.488	3.296	17.956	1.007	575.376
10/25/2012 15:41	9708	1.428	17.491	3.297	17.957	1.007	575.377
10/25/2012 15:42	9768	1.428	17.489	3.296	17.956	1.007	575.376
10/25/2012 15:43	9828	1.428	17.489	3.296	17.956	1.007	575.376
10/25/2012 15:44	9888	1.428	17.489	3.296	17.956	1.007	575.376
10/25/2012 15:45	9948	1.428	17.491	3.296	17.956	1.007	575.376
10/25/2012 15:46	10008	1.428	17.489	3.296	17.956	1.007	575.376
10/25/2012 15:47	10068	1.427	17.489	3.295	17.955	1.006	575.375
10/25/2012 15:48	10128	1.428	17.488	3.296	17.956	1.007	575.376
10/25/2012 15:49	10188	1.428	17.489	3.297	17.957	1.007	575.377
10/25/2012 15:50	10248	1.427	17.488	3.296	17.956	1.007	575.376
10/25/2012 15:51	10308	1.428	17.491	3.297	17.957	1.007	575.377
10/25/2012 15:52	10368	1.427	17.49	3.296	17.956	1.007	575.376
10/25/2012 15:53	10428	1.427	17.489	3.296	17.956	1.007	575.376
10/25/2012 15:54	10488	1.428	17.49	3.296	17.956	1.007	575.376
10/25/2012 15:55	10548	1.428	17.489	3.296	17.956	1.007	575.376
10/25/2012 15:56	10608	1.427	17.492	3.296	17.956	1.007	575.376
10/25/2012 15:57	10668	1.427	17.49	3.296	17.956	1.007	575.376
10/25/2012 15:58	10728	1.428	17.49	3.296	17.956	1.007	575.376
10/25/2012 15:59	10788	1.427	17.492	3.296	17.956	1.007	575.376
10/25/2012 16:00	10848	1.428	17.488	3.297	17.957	1.007	575.377
10/25/2012 16:01	10908	1.427	17.491	3.296	17.956	1.007	575.376
10/25/2012 16:02	10968	1.427	17.489	3.295	17.955	1.006	575.375
10/25/2012 16:03	11028	1.428	17.49	3.296	17.956	1.007	575.376
10/25/2012 16:04	11088	1.428	17.491	3.296	17.956	1.007	575.376
10/25/2012 16:05	11148	1.428	17.488	3.297	17.957	1.007	575.377

Appendix E-2

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/25/2012 16:06	11208	1.427	17.49	3.296	17.956	1.007	575.376
10/25/2012 16:07	11268	1.428	17.49	3.296	17.956	1.007	575.376
10/25/2012 16:08	11328	1.428	17.492	3.296	17.956	1.007	575.376
10/25/2012 16:09	11388	1.427	17.489	3.296	17.956	1.007	575.376
10/25/2012 16:10	11448	1.428	17.492	3.297	17.957	1.007	575.377

a/ PSI = pounds per square inch; C = Celsius; ft = feet; H = measured height of water column in well; H0 = initial above mean sea level; TD = total depth; btoc = below top of casing; DTW0 = initial depth to water; D0 = initial depth to top of casing.

Appendix E-3

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
Step Test and Beginning of Recovery Test							
10/17/2012 16:45	0	2.247	16.539	5.188	11.328	1	573.778
10/17/2012 16:45	0.251	2.247	16.56	5.188	11.328	1	573.778
10/17/2012 16:45	0.501	2.247	16.57	5.188	11.328	1	573.778
10/17/2012 16:45	0.751	2.247	16.579	5.187	11.327	0.9998	573.777
10/17/2012 16:45	1.001	2.247	16.586	5.187	11.327	0.9998	573.777
10/17/2012 16:45	1.251	2.246	16.591	5.187	11.327	0.9998	573.777
10/17/2012 16:45	1.501	2.246	16.598	5.186	11.326	0.9996	573.776
10/17/2012 16:45	1.751	2.246	16.602	5.186	11.326	0.9996	573.776
10/17/2012 16:45	2.001	2.246	16.604	5.187	11.327	0.9998	573.777
10/17/2012 16:45	2.251	2.246	16.604	5.187	11.327	0.9998	573.777
10/17/2012 16:45	2.501	2.246	16.611	5.186	11.326	0.9996	573.776
10/17/2012 16:45	2.751	2.246	16.615	5.186	11.326	0.9996	573.776
10/17/2012 16:45	3.001	2.246	16.613	5.186	11.326	0.9996	573.776
10/17/2012 16:45	3.251	2.246	16.615	5.185	11.325	0.9994	573.775
10/17/2012 16:45	3.501	2.246	16.616	5.186	11.326	0.9996	573.776
10/17/2012 16:45	3.751	2.246	16.619	5.186	11.326	0.9996	573.776
10/17/2012 16:45	4.001	2.246	16.623	5.185	11.325	0.9994	573.775
10/17/2012 16:45	4.251	2.246	16.621	5.185	11.325	0.9994	573.775
10/17/2012 16:45	4.501	2.246	16.622	5.186	11.326	0.9996	573.776
10/17/2012 16:45	4.751	2.246	16.627	5.185	11.325	0.9994	573.775
10/17/2012 16:45	5.001	2.246	16.625	5.185	11.325	0.9994	573.775
10/17/2012 16:45	5.251	2.246	16.626	5.185	11.325	0.9994	573.775
10/17/2012 16:45	5.501	2.246	16.626	5.185	11.325	0.9994	573.775
10/17/2012 16:45	5.751	2.246	16.628	5.185	11.325	0.9994	573.775
10/17/2012 16:45	6.001	2.246	16.632	5.185	11.325	0.9994	573.775
10/17/2012 16:45	6.361	2.246	16.625	5.186	11.326	0.9996	573.776
10/17/2012 16:45	6.721	2.246	16.619	5.186	11.326	0.9996	573.776
10/17/2012 16:45	7.141	2.246	16.613	5.186	11.326	0.9996	573.776
10/17/2012 16:45	7.561	2.246	16.612	5.186	11.326	0.9996	573.776
10/17/2012 16:45	7.981	2.246	16.606	5.187	11.327	0.9998	573.777
10/17/2012 16:45	8.461	2.246	16.603	5.185	11.325	0.9994	573.775
10/17/2012 16:45	9.001	2.246	16.601	5.186	11.326	0.9996	573.776
10/17/2012 16:45	9.481	2.246	16.6	5.187	11.327	0.9998	573.777
10/17/2012 16:45	10.081	2.246	16.593	5.186	11.326	0.9996	573.776
10/17/2012 16:45	10.681	2.247	16.595	5.188	11.328	1	573.778
10/17/2012 16:45	11.281	2.246	16.59	5.187	11.327	0.9998	573.777
10/17/2012 16:45	11.941	2.247	16.59	5.187	11.327	0.9998	573.777
10/17/2012 16:45	12.66	2.246	16.583	5.187	11.327	0.9998	573.777
10/17/2012 16:45	13.44	2.246	16.582	5.187	11.327	0.9998	573.777
10/17/2012 16:45	14.221	2.247	16.585	5.187	11.327	0.9998	573.777
10/17/2012 16:45	15.061	2.246	16.581	5.187	11.327	0.9998	573.777
10/17/2012 16:45	15.961	2.247	16.584	5.187	11.327	0.9998	573.777
10/17/2012 16:45	16.92	2.247	16.581	5.188	11.328	1	573.778
10/17/2012 16:45	17.88	2.247	16.583	5.187	11.327	0.9998	573.777
10/17/2012 16:45	18.961	2.246	16.579	5.187	11.327	0.9998	573.777
10/17/2012 16:45	20.101	2.246	16.573	5.187	11.327	0.9998	573.777
10/17/2012 16:45	21.301	2.247	16.576	5.187	11.327	0.9998	573.777

Appendix E-3

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/17/2012 16:45	22.561	2.247	16.577	5.187	11.327	0.9998	573.777
10/17/2012 16:45	23.88	2.247	16.573	5.188	11.328	1	573.778
10/17/2012 16:45	25.321	2.247	16.574	5.188	11.328	1	573.778
10/17/2012 16:45	26.821	2.247	16.57	5.188	11.328	1	573.778
10/17/2012 16:45	28.38	2.247	16.573	5.188	11.328	1	573.778
10/17/2012 16:45	30.061	2.247	16.568	5.187	11.327	0.9998	573.777
10/17/2012 16:45	31.86	2.247	16.571	5.188	11.328	1	573.778
10/17/2012 16:45	33.721	2.247	16.571	5.188	11.328	1	573.778
10/17/2012 16:45	35.761	2.247	16.565	5.187	11.327	0.9998	573.777
10/17/2012 16:45	37.86	2.247	16.57	5.187	11.327	0.9998	573.777
10/17/2012 16:45	40.08	2.247	16.565	5.188	11.328	1	573.778
10/17/2012 16:45	42.481	2.247	16.564	5.188	11.328	1	573.778
10/17/2012 16:45	45	2.246	16.564	5.187	11.327	0.9998	573.777
10/17/2012 16:45	47.64	2.247	16.562	5.189	11.329	1.0002	573.779
10/17/2012 16:45	50.461	2.247	16.562	5.188	11.328	1	573.778
10/17/2012 16:45	53.461	2.247	16.562	5.188	11.328	1	573.778
10/17/2012 16:45	56.64	2.247	16.56	5.189	11.329	1.0002	573.779
10/17/2012 16:46	60	2.247	16.557	5.187	11.327	0.9998	573.777
10/17/2012 16:46	63.6	2.247	16.56	5.188	11.328	1	573.778
10/17/2012 16:46	67.2	2.247	16.556	5.189	11.329	1.0002	573.779
10/17/2012 16:46	71.4	2.247	16.556	5.188	11.328	1	573.778
10/17/2012 16:46	75.6	2.247	16.555	5.189	11.329	1.0002	573.779
10/17/2012 16:46	79.8	2.247	16.553	5.188	11.328	1	573.778
10/17/2012 16:46	84.6	2.247	16.555	5.188	11.328	1	573.778
10/17/2012 16:46	90	2.247	16.556	5.188	11.328	1	573.778
10/17/2012 16:46	94.8	2.247	16.553	5.188	11.328	1	573.778
10/17/2012 16:46	100.8	2.247	16.553	5.187	11.327	0.9998	573.777
10/17/2012 16:46	106.8	2.247	16.553	5.188	11.328	1	573.778
10/17/2012 16:46	112.8	2.247	16.55	5.188	11.328	1	573.778
10/17/2012 16:46	119.4	2.247	16.55	5.187	11.327	0.9998	573.777
10/17/2012 16:47	126.6	2.247	16.552	5.188	11.328	1	573.778
10/17/2012 16:47	134.4	2.247	16.549	5.188	11.328	1	573.778
10/17/2012 16:47	142.2	2.247	16.547	5.187	11.327	0.9998	573.777
10/17/2012 16:47	150.6	2.247	16.547	5.188	11.328	1	573.778
10/17/2012 16:47	159.6	2.247	16.548	5.188	11.328	1	573.778
10/17/2012 16:47	169.2	2.247	16.546	5.188	11.328	1	573.778
10/17/2012 16:47	178.8	2.247	16.549	5.187	11.327	0.9998	573.777
10/17/2012 16:48	189.6	2.247	16.546	5.188	11.328	1	573.778
10/17/2012 16:48	201	2.247	16.545	5.188	11.328	1	573.778
10/17/2012 16:48	213	2.247	16.546	5.188	11.328	1	573.778
10/17/2012 16:48	225.6	2.247	16.548	5.189	11.329	1.0002	573.779
10/17/2012 16:48	238.8	2.247	16.542	5.188	11.328	1	573.778
10/17/2012 16:49	253.2	2.247	16.543	5.187	11.327	0.9998	573.777
10/17/2012 16:49	268.2	2.247	16.542	5.188	11.328	1	573.778
10/17/2012 16:49	283.8	2.246	16.544	5.185	11.325	0.9994	573.775
10/17/2012 16:50	300.6	2.247	16.543	5.188	11.328	1	573.778
10/17/2012 16:50	318.6	2.247	16.542	5.187	11.327	0.9998	573.777
10/17/2012 16:50	337.2	2.247	16.543	5.187	11.327	0.9998	573.777

Appendix E-3

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/17/2012 16:50	357.6	2.247	16.539	5.188	11.328	1	573.778
10/17/2012 16:51	378.6	2.247	16.541	5.188	11.328	1	573.778
10/17/2012 16:51	400.8	2.246	16.54	5.187	11.327	0.9998	573.777
10/17/2012 16:52	424.8	2.247	16.541	5.187	11.327	0.9998	573.777
10/17/2012 16:52	450	2.246	16.538	5.187	11.327	0.9998	573.777
10/17/2012 16:52	476.4	2.246	16.536	5.187	11.327	0.9998	573.777
10/17/2012 16:53	504.6	2.246	16.536	5.186	11.326	0.9996	573.776
10/17/2012 16:53	534.6	2.247	16.54	5.188	11.328	1	573.778
10/17/2012 16:54	566.4	2.247	16.541	5.188	11.328	1	573.778
10/17/2012 16:55	600	2.247	16.538	5.187	11.327	0.9998	573.777
10/17/2012 16:55	636	2.247	16.541	5.187	11.327	0.9998	573.777
10/17/2012 16:56	672	2.25	16.532	5.194	11.334	1.0012	573.784
10/17/2012 16:56	714	2.25	16.536	5.194	11.334	1.0012	573.784
10/17/2012 16:57	756	2.249	16.538	5.194	11.334	1.0012	573.784
10/17/2012 16:58	798	2.249	16.537	5.193	11.333	1.001	573.783
10/17/2012 16:59	846	2.248	16.533	5.192	11.332	1.0008	573.782
10/17/2012 17:00	900.001	2.25	16.533	5.194	11.334	1.0012	573.784
10/17/2012 17:00	900.252	2.249	16.555	5.193	11.333	1.001	573.783
10/17/2012 17:00	900.502	2.249	16.568	5.193	11.333	1.001	573.783
10/17/2012 17:00	900.752	2.249	16.579	5.193	11.333	1.001	573.783
10/17/2012 17:00	901.002	2.249	16.585	5.192	11.332	1.0008	573.782
10/17/2012 17:00	901.252	2.249	16.592	5.193	11.333	1.001	573.783
10/17/2012 17:00	901.502	2.249	16.597	5.193	11.333	1.001	573.783
10/17/2012 17:00	901.752	2.249	16.596	5.192	11.332	1.0008	573.782
10/17/2012 17:00	902.002	2.249	16.602	5.192	11.332	1.0008	573.782
10/17/2012 17:00	902.252	2.249	16.608	5.193	11.333	1.001	573.783
10/17/2012 17:00	902.502	2.249	16.607	5.192	11.332	1.0008	573.782
10/17/2012 17:00	902.752	2.249	16.611	5.192	11.332	1.0008	573.782
10/17/2012 17:00	903.002	2.248	16.615	5.192	11.332	1.0008	573.782
10/17/2012 17:00	903.252	2.249	16.617	5.192	11.332	1.0008	573.782
10/17/2012 17:00	903.502	2.248	16.619	5.191	11.331	1.0006	573.781
10/17/2012 17:00	903.752	2.248	16.621	5.191	11.331	1.0006	573.781
10/17/2012 17:00	904.002	2.248	16.621	5.191	11.331	1.0006	573.781
10/17/2012 17:00	904.252	2.248	16.622	5.191	11.331	1.0006	573.781
10/17/2012 17:00	904.502	2.248	16.625	5.191	11.331	1.0006	573.781
10/17/2012 17:00	904.752	2.248	16.626	5.191	11.331	1.0006	573.781
10/17/2012 17:00	905.002	2.248	16.624	5.191	11.331	1.0006	573.781
10/17/2012 17:00	905.252	2.248	16.625	5.191	11.331	1.0006	573.781
10/17/2012 17:00	905.502	2.248	16.63	5.191	11.331	1.0006	573.781
10/17/2012 17:00	905.752	2.248	16.632	5.191	11.331	1.0006	573.781
10/17/2012 17:00	906.002	2.249	16.629	5.192	11.332	1.0008	573.782
10/17/2012 17:00	906.361	2.249	16.622	5.192	11.332	1.0008	573.782
10/17/2012 17:00	906.721	2.248	16.615	5.191	11.331	1.0006	573.781
10/17/2012 17:00	907.141	2.248	16.609	5.192	11.332	1.0008	573.782
10/17/2012 17:00	907.561	2.249	16.61	5.192	11.332	1.0008	573.782
10/17/2012 17:00	907.981	2.249	16.608	5.192	11.332	1.0008	573.782
10/17/2012 17:00	908.461	2.248	16.605	5.191	11.331	1.0006	573.781
10/17/2012 17:00	909.001	2.249	16.596	5.192	11.332	1.0008	573.782

Appendix E-3

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/17/2012 17:00	909.481	2.248	16.6	5.191	11.331	1.0006	573.781
10/17/2012 17:00	910.081	2.249	16.592	5.192	11.332	1.0008	573.782
10/17/2012 17:00	910.681	2.249	16.593	5.193	11.333	1.001	573.783
10/17/2012 17:00	911.281	2.249	16.591	5.193	11.333	1.001	573.783
10/17/2012 17:00	911.941	2.249	16.588	5.193	11.333	1.001	573.783
10/17/2012 17:00	912.661	2.249	16.589	5.193	11.333	1.001	573.783
10/17/2012 17:00	913.441	2.249	16.585	5.192	11.332	1.0008	573.782
10/17/2012 17:00	914.221	2.249	16.583	5.192	11.332	1.0008	573.782
10/17/2012 17:00	915.061	2.249	16.577	5.193	11.333	1.001	573.783
10/17/2012 17:00	915.961	2.249	16.58	5.193	11.333	1.001	573.783
10/17/2012 17:00	916.921	2.249	16.577	5.193	11.333	1.001	573.783
10/17/2012 17:00	917.881	2.249	16.58	5.193	11.333	1.001	573.783
10/17/2012 17:00	918.961	2.249	16.575	5.194	11.334	1.0012	573.784
10/17/2012 17:00	920.101	2.249	16.576	5.193	11.333	1.001	573.783
10/17/2012 17:00	921.301	2.249	16.577	5.193	11.333	1.001	573.783
10/17/2012 17:00	922.561	2.249	16.577	5.192	11.332	1.0008	573.782
10/17/2012 17:00	923.881	2.249	16.575	5.193	11.333	1.001	573.783
10/17/2012 17:00	925.321	2.249	16.571	5.194	11.334	1.0012	573.784
10/17/2012 17:00	926.821	2.249	16.571	5.193	11.333	1.001	573.783
10/17/2012 17:00	928.381	2.249	16.57	5.193	11.333	1.001	573.783
10/17/2012 17:00	930.061	2.249	16.567	5.194	11.334	1.0012	573.784
10/17/2012 17:00	931.861	2.25	16.567	5.194	11.334	1.0012	573.784
10/17/2012 17:00	933.721	2.249	16.564	5.193	11.333	1.001	573.783
10/17/2012 17:00	935.761	2.249	16.567	5.194	11.334	1.0012	573.784
10/17/2012 17:00	937.861	2.249	16.565	5.194	11.334	1.0012	573.784
10/17/2012 17:00	940.081	2.25	16.564	5.194	11.334	1.0012	573.784
10/17/2012 17:00	942.481	2.249	16.563	5.193	11.333	1.001	573.783
10/17/2012 17:00	945.001	2.249	16.564	5.194	11.334	1.0012	573.784
10/17/2012 17:00	947.641	2.249	16.561	5.193	11.333	1.001	573.783
10/17/2012 17:00	950.461	2.249	16.559	5.194	11.334	1.0012	573.784
10/17/2012 17:00	953.461	2.249	16.561	5.193	11.333	1.001	573.783
10/17/2012 17:00	956.641	2.249	16.557	5.194	11.334	1.0012	573.784
10/17/2012 17:01	960.001	2.249	16.557	5.193	11.333	1.001	573.783
10/17/2012 17:01	963.601	2.25	16.558	5.194	11.334	1.0012	573.784
10/17/2012 17:01	967.201	2.249	16.557	5.194	11.334	1.0012	573.784
10/17/2012 17:01	971.401	2.249	16.557	5.194	11.334	1.0012	573.784
10/17/2012 17:01	975.601	2.249	16.553	5.194	11.334	1.0012	573.784
10/17/2012 17:01	979.801	2.25	16.553	5.194	11.334	1.0012	573.784
10/17/2012 17:01	984.601	2.249	16.551	5.193	11.333	1.001	573.783
10/17/2012 17:01	990.001	2.249	16.553	5.194	11.334	1.0012	573.784
10/17/2012 17:01	994.801	2.25	16.551	5.194	11.334	1.0012	573.784
10/17/2012 17:01	1000.801	2.25	16.554	5.194	11.334	1.0012	573.784
10/17/2012 17:01	1006.801	2.25	16.551	5.195	11.335	1.0013	573.785
10/17/2012 17:01	1012.801	2.249	16.548	5.193	11.333	1.001	573.783
10/17/2012 17:01	1019.401	2.25	16.551	5.195	11.335	1.0013	573.785
10/17/2012 17:02	1026.601	2.249	16.548	5.194	11.334	1.0012	573.784
10/17/2012 17:02	1034.401	2.25	16.547	5.195	11.335	1.0013	573.785
10/17/2012 17:02	1042.201	2.25	16.55	5.194	11.334	1.0012	573.784

Appendix E-3

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/17/2012 17:02	1050.601	2.249	16.543	5.194	11.334	1.0012	573.784
10/17/2012 17:02	1059.601	2.249	16.544	5.193	11.333	1.001	573.783
10/17/2012 17:02	1069.201	2.249	16.545	5.193	11.333	1.001	573.783
10/17/2012 17:02	1078.801	2.25	16.546	5.194	11.334	1.0012	573.784
10/17/2012 17:03	1089.601	2.249	16.543	5.194	11.334	1.0012	573.784
10/17/2012 17:03	1101.001	2.25	16.545	5.195	11.335	1.0013	573.785
10/17/2012 17:03	1113.001	2.249	16.541	5.193	11.333	1.001	573.783
10/17/2012 17:03	1125.601	2.249	16.541	5.194	11.334	1.0012	573.784
10/17/2012 17:03	1138.801	2.249	16.541	5.194	11.334	1.0012	573.784
10/17/2012 17:04	1153.201	2.249	16.543	5.192	11.332	1.0008	573.782
10/17/2012 17:04	1168.201	2.249	16.543	5.193	11.333	1.001	573.783
10/17/2012 17:04	1183.801	2.25	16.539	5.195	11.335	1.0013	573.785
10/17/2012 17:05	1200.601	2.249	16.539	5.194	11.334	1.0012	573.784
10/17/2012 17:05	1218.601	2.25	16.536	5.195	11.335	1.0013	573.785
10/17/2012 17:05	1237.201	2.249	16.54	5.194	11.334	1.0012	573.784
10/17/2012 17:05	1257.601	2.25	16.54	5.194	11.334	1.0012	573.784
10/17/2012 17:06	1278.601	2.25	16.538	5.195	11.335	1.0013	573.785
10/17/2012 17:06	1300.801	2.25	16.536	5.196	11.336	1.0015	573.786
10/17/2012 17:07	1324.801	2.251	16.533	5.197	11.337	1.0017	573.787
10/17/2012 17:07	1350.001	2.251	16.538	5.197	11.337	1.0017	573.787
10/17/2012 17:07	1376.401	2.251	16.538	5.197	11.337	1.0017	573.787
10/17/2012 17:08	1404.601	2.25	16.539	5.196	11.336	1.0015	573.786
10/17/2012 17:08	1434.601	2.251	16.534	5.196	11.336	1.0015	573.786
10/17/2012 17:09	1466.401	2.25	16.533	5.195	11.335	1.0013	573.785
10/17/2012 17:10	1500.001	2.25	16.532	5.196	11.336	1.0015	573.786
10/17/2012 17:10	1536.001	2.25	16.532	5.196	11.336	1.0015	573.786
10/17/2012 17:11	1572.001	2.25	16.537	5.196	11.336	1.0015	573.786
10/17/2012 17:11	1614.001	2.25	16.531	5.196	11.336	1.0015	573.786
10/17/2012 17:12	1656.001	2.25	16.531	5.196	11.336	1.0015	573.786
10/17/2012 17:13	1698.001	2.25	16.533	5.195	11.335	1.0013	573.785
10/17/2012 17:14	1746.001	2.25	16.534	5.195	11.335	1.0013	573.785
10/17/2012 17:15	1800.001	2.25	16.534	5.195	11.335	1.0013	573.785
10/17/2012 17:15	1800.252	2.249	16.55	5.193	11.333	1.001	573.783
10/17/2012 17:15	1800.502	2.249	16.566	5.193	11.333	1.001	573.783
10/17/2012 17:15	1800.752	2.249	16.575	5.194	11.334	1.0012	573.784
10/17/2012 17:15	1801.002	2.249	16.58	5.192	11.332	1.0008	573.782
10/17/2012 17:15	1801.252	2.249	16.589	5.193	11.333	1.001	573.783
10/17/2012 17:15	1801.502	2.249	16.593	5.193	11.333	1.001	573.783
10/17/2012 17:15	1801.752	2.249	16.595	5.192	11.332	1.0008	573.782
10/17/2012 17:15	1802.002	2.249	16.599	5.193	11.333	1.001	573.783
10/17/2012 17:15	1802.252	2.249	16.605	5.192	11.332	1.0008	573.782
10/17/2012 17:15	1802.502	2.249	16.609	5.193	11.333	1.001	573.783
10/17/2012 17:15	1802.752	2.248	16.61	5.192	11.332	1.0008	573.782
10/17/2012 17:15	1803.002	2.249	16.613	5.192	11.332	1.0008	573.782
10/17/2012 17:15	1803.252	2.248	16.611	5.191	11.331	1.0006	573.781
10/17/2012 17:15	1803.502	2.249	16.614	5.192	11.332	1.0008	573.782
10/17/2012 17:15	1803.752	2.249	16.615	5.192	11.332	1.0008	573.782
10/17/2012 17:15	1804.002	2.248	16.619	5.191	11.331	1.0006	573.781

Appendix E-3

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/17/2012 17:15	1804.252	2.249	16.618	5.192	11.332	1.0008	573.782
10/17/2012 17:15	1804.502	2.249	16.621	5.192	11.332	1.0008	573.782
10/17/2012 17:15	1804.752	2.248	16.626	5.19	11.33	1.0004	573.78
10/17/2012 17:15	1805.002	2.248	16.622	5.192	11.332	1.0008	573.782
10/17/2012 17:15	1805.252	2.248	16.626	5.192	11.332	1.0008	573.782
10/17/2012 17:15	1805.502	2.248	16.622	5.191	11.331	1.0006	573.781
10/17/2012 17:15	1805.752	2.248	16.629	5.191	11.331	1.0006	573.781
10/17/2012 17:15	1806.002	2.248	16.627	5.191	11.331	1.0006	573.781
10/17/2012 17:15	1806.361	2.248	16.619	5.191	11.331	1.0006	573.781
10/17/2012 17:15	1806.721	2.249	16.614	5.192	11.332	1.0008	573.782
10/17/2012 17:15	1807.141	2.249	16.609	5.192	11.332	1.0008	573.782
10/17/2012 17:15	1807.561	2.249	16.607	5.192	11.332	1.0008	573.782
10/17/2012 17:15	1807.981	2.249	16.606	5.192	11.332	1.0008	573.782
10/17/2012 17:15	1808.461	2.248	16.598	5.191	11.331	1.0006	573.781
10/17/2012 17:15	1809.001	2.249	16.597	5.192	11.332	1.0008	573.782
10/17/2012 17:15	1809.481	2.248	16.598	5.192	11.332	1.0008	573.782
10/17/2012 17:15	1810.081	2.249	16.594	5.192	11.332	1.0008	573.782
10/17/2012 17:15	1810.681	2.249	16.591	5.193	11.333	1.001	573.783
10/17/2012 17:15	1811.281	2.249	16.588	5.193	11.333	1.001	573.783
10/17/2012 17:15	1811.941	2.249	16.585	5.193	11.333	1.001	573.783
10/17/2012 17:15	1812.661	2.249	16.585	5.193	11.333	1.001	573.783
10/17/2012 17:15	1813.441	2.249	16.583	5.193	11.333	1.001	573.783
10/17/2012 17:15	1814.221	2.249	16.583	5.194	11.334	1.0012	573.784
10/17/2012 17:15	1815.061	2.249	16.578	5.194	11.334	1.0012	573.784
10/17/2012 17:15	1815.961	2.249	16.578	5.192	11.332	1.0008	573.782
10/17/2012 17:15	1816.921	2.249	16.574	5.194	11.334	1.0012	573.784
10/17/2012 17:15	1817.881	2.249	16.578	5.192	11.332	1.0008	573.782
10/17/2012 17:15	1818.961	2.249	16.572	5.193	11.333	1.001	573.783
10/17/2012 17:15	1820.101	2.249	16.573	5.193	11.333	1.001	573.783
10/17/2012 17:15	1821.301	2.249	16.572	5.194	11.334	1.0012	573.784
10/17/2012 17:15	1822.561	2.249	16.573	5.193	11.333	1.001	573.783
10/17/2012 17:15	1823.881	2.249	16.574	5.193	11.333	1.001	573.783
10/17/2012 17:15	1825.321	2.249	16.567	5.194	11.334	1.0012	573.784
10/17/2012 17:15	1826.821	2.25	16.57	5.194	11.334	1.0012	573.784
10/17/2012 17:15	1828.381	2.25	16.564	5.194	11.334	1.0012	573.784
10/17/2012 17:15	1830.061	2.25	16.566	5.195	11.335	1.0013	573.785
10/17/2012 17:15	1831.861	2.249	16.563	5.193	11.333	1.001	573.783
10/17/2012 17:15	1833.721	2.25	16.566	5.195	11.335	1.0013	573.785
10/17/2012 17:15	1835.761	2.249	16.563	5.194	11.334	1.0012	573.784
10/17/2012 17:15	1837.861	2.25	16.561	5.195	11.335	1.0013	573.785
10/17/2012 17:15	1840.081	2.25	16.56	5.195	11.335	1.0013	573.785
10/17/2012 17:15	1842.481	2.249	16.56	5.193	11.333	1.001	573.783
10/17/2012 17:15	1845.001	2.249	16.557	5.194	11.334	1.0012	573.784
10/17/2012 17:15	1847.641	2.25	16.557	5.195	11.335	1.0013	573.785
10/17/2012 17:15	1850.461	2.25	16.558	5.195	11.335	1.0013	573.785
10/17/2012 17:15	1853.461	2.249	16.558	5.194	11.334	1.0012	573.784
10/17/2012 17:15	1856.641	2.25	16.556	5.194	11.334	1.0012	573.784
10/17/2012 17:16	1860.001	2.25	16.555	5.195	11.335	1.0013	573.785

Appendix E-3

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater
							Elevation (ft AMSL)
10/17/2012 17:16	1863.601	2.25	16.554	5.195	11.335	1.0013	573.785
10/17/2012 17:16	1867.201	2.25	16.557	5.194	11.334	1.0012	573.784
10/17/2012 17:16	1871.401	2.25	16.553	5.195	11.335	1.0013	573.785
10/17/2012 17:16	1875.601	2.249	16.554	5.194	11.334	1.0012	573.784
10/17/2012 17:16	1879.801	2.25	16.551	5.195	11.335	1.0013	573.785
10/17/2012 17:16	1884.601	2.25	16.55	5.195	11.335	1.0013	573.785
10/17/2012 17:16	1890.001	2.25	16.551	5.194	11.334	1.0012	573.784
10/17/2012 17:16	1894.801	2.25	16.545	5.195	11.335	1.0013	573.785
10/17/2012 17:16	1900.801	2.249	16.548	5.193	11.333	1.001	573.783
10/17/2012 17:16	1906.801	2.249	16.545	5.193	11.333	1.001	573.783
10/17/2012 17:16	1912.801	2.25	16.546	5.194	11.334	1.0012	573.784
10/17/2012 17:16	1919.401	2.249	16.544	5.193	11.333	1.001	573.783
10/17/2012 17:17	1926.601	2.25	16.546	5.194	11.334	1.0012	573.784
10/17/2012 17:17	1934.401	2.25	16.547	5.194	11.334	1.0012	573.784
10/17/2012 17:17	1942.201	2.25	16.545	5.194	11.334	1.0012	573.784
10/17/2012 17:17	1950.601	2.249	16.544	5.194	11.334	1.0012	573.784
10/17/2012 17:17	1959.601	2.25	16.543	5.195	11.335	1.0013	573.785
10/17/2012 17:17	1969.201	2.25	16.543	5.194	11.334	1.0012	573.784
10/17/2012 17:17	1978.801	2.25	16.541	5.195	11.335	1.0013	573.785
10/17/2012 17:18	1989.601	2.251	16.54	5.197	11.337	1.0017	573.787
10/17/2012 17:18	2001.001	2.25	16.542	5.195	11.335	1.0013	573.785
10/17/2012 17:18	2013.001	2.25	16.542	5.196	11.336	1.0015	573.786
10/17/2012 17:18	2025.601	2.25	16.541	5.195	11.335	1.0013	573.785
10/17/2012 17:18	2038.801	2.25	16.54	5.196	11.336	1.0015	573.786
10/17/2012 17:19	2053.201	2.25	16.54	5.195	11.335	1.0013	573.785
10/17/2012 17:19	2068.201	2.25	16.536	5.195	11.335	1.0013	573.785
10/17/2012 17:19	2083.801	2.25	16.54	5.195	11.335	1.0013	573.785
10/17/2012 17:20	2100.601	2.25	16.54	5.196	11.336	1.0015	573.786
10/17/2012 17:20	2118.601	2.25	16.538	5.194	11.334	1.0012	573.784
10/17/2012 17:20	2137.201	2.25	16.536	5.195	11.335	1.0013	573.785
10/17/2012 17:20	2157.601	2.25	16.538	5.195	11.335	1.0013	573.785
10/17/2012 17:21	2178.601	2.25	16.534	5.195	11.335	1.0013	573.785
10/17/2012 17:21	2200.801	2.25	16.534	5.194	11.334	1.0012	573.784
10/17/2012 17:22	2224.801	2.25	16.537	5.195	11.335	1.0013	573.785
10/17/2012 17:22	2250.001	2.25	16.538	5.195	11.335	1.0013	573.785
10/17/2012 17:22	2276.401	2.25	16.532	5.195	11.335	1.0013	573.785
10/17/2012 17:23	2304.601	2.25	16.535	5.195	11.335	1.0013	573.785
10/17/2012 17:23	2334.601	2.25	16.539	5.196	11.336	1.0015	573.786
10/17/2012 17:24	2366.401	2.25	16.531	5.195	11.335	1.0013	573.785
10/17/2012 17:25	2400.001	2.25	16.533	5.195	11.335	1.0013	573.785
10/17/2012 17:25	2436.001	2.25	16.535	5.195	11.335	1.0013	573.785
10/17/2012 17:26	2472.001	2.249	16.533	5.194	11.334	1.0012	573.784
10/17/2012 17:26	2514.001	2.249	16.531	5.194	11.334	1.0012	573.784
10/17/2012 17:27	2556.001	2.249	16.53	5.194	11.334	1.0012	573.784
10/17/2012 17:28	2598.001	2.25	16.531	5.194	11.334	1.0012	573.784
10/17/2012 17:29	2646.001	2.249	16.531	5.193	11.333	1.001	573.783
10/17/2012 17:30	2700.001	2.249	16.531	5.194	11.334	1.0012	573.784
10/17/2012 17:30	2700.252	2.249	16.552	5.194	11.334	1.0012	573.784

Appendix E-3

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater
							Elevation (ft AMSL)
10/17/2012 17:30	2700.502	2.249	16.566	5.192	11.332	1.0008	573.782
10/17/2012 17:30	2700.752	2.249	16.576	5.192	11.332	1.0008	573.782
10/17/2012 17:30	2701.002	2.249	16.579	5.193	11.333	1.001	573.783
10/17/2012 17:30	2701.252	2.248	16.587	5.191	11.331	1.0006	573.781
10/17/2012 17:30	2701.502	2.248	16.592	5.191	11.331	1.0006	573.781
10/17/2012 17:30	2701.752	2.248	16.592	5.191	11.331	1.0006	573.781
10/17/2012 17:30	2702.002	2.248	16.595	5.192	11.332	1.0008	573.782
10/17/2012 17:30	2702.252	2.248	16.601	5.19	11.33	1.0004	573.78
10/17/2012 17:30	2702.502	2.249	16.604	5.192	11.332	1.0008	573.782
10/17/2012 17:30	2702.752	2.248	16.606	5.191	11.331	1.0006	573.781
10/17/2012 17:30	2703.002	2.248	16.608	5.191	11.331	1.0006	573.781
10/17/2012 17:30	2703.252	2.249	16.613	5.192	11.332	1.0008	573.782
10/17/2012 17:30	2703.502	2.248	16.615	5.191	11.331	1.0006	573.781
10/17/2012 17:30	2703.752	2.248	16.614	5.192	11.332	1.0008	573.782
10/17/2012 17:30	2704.002	2.248	16.619	5.19	11.33	1.0004	573.78
10/17/2012 17:30	2704.252	2.248	16.62	5.19	11.33	1.0004	573.78
10/17/2012 17:30	2704.502	2.248	16.619	5.191	11.331	1.0006	573.781
10/17/2012 17:30	2704.752	2.248	16.62	5.191	11.331	1.0006	573.781
10/17/2012 17:30	2705.002	2.248	16.621	5.192	11.332	1.0008	573.782
10/17/2012 17:30	2705.252	2.248	16.624	5.191	11.331	1.0006	573.781
10/17/2012 17:30	2705.502	2.248	16.622	5.191	11.331	1.0006	573.781
10/17/2012 17:30	2705.752	2.248	16.623	5.192	11.332	1.0008	573.782
10/17/2012 17:30	2706.002	2.248	16.625	5.191	11.331	1.0006	573.781
10/17/2012 17:30	2706.361	2.248	16.615	5.191	11.331	1.0006	573.781
10/17/2012 17:30	2706.721	2.248	16.614	5.191	11.331	1.0006	573.781
10/17/2012 17:30	2707.141	2.248	16.607	5.191	11.331	1.0006	573.781
10/17/2012 17:30	2707.561	2.248	16.605	5.191	11.331	1.0006	573.781
10/17/2012 17:30	2707.981	2.249	16.601	5.192	11.332	1.0008	573.782
10/17/2012 17:30	2708.461	2.249	16.6	5.192	11.332	1.0008	573.782
10/17/2012 17:30	2709.001	2.249	16.593	5.192	11.332	1.0008	573.782
10/17/2012 17:30	2709.481	2.249	16.594	5.192	11.332	1.0008	573.782
10/17/2012 17:30	2710.081	2.249	16.589	5.192	11.332	1.0008	573.782
10/17/2012 17:30	2710.681	2.249	16.589	5.192	11.332	1.0008	573.782
10/17/2012 17:30	2711.281	2.249	16.588	5.192	11.332	1.0008	573.782
10/17/2012 17:30	2711.941	2.249	16.584	5.193	11.333	1.001	573.783
10/17/2012 17:30	2712.661	2.249	16.585	5.193	11.333	1.001	573.783
10/17/2012 17:30	2713.441	2.249	16.579	5.192	11.332	1.0008	573.782
10/17/2012 17:30	2714.221	2.249	16.577	5.192	11.332	1.0008	573.782
10/17/2012 17:30	2715.061	2.249	16.577	5.193	11.333	1.001	573.783
10/17/2012 17:30	2715.961	2.249	16.575	5.192	11.332	1.0008	573.782
10/17/2012 17:30	2716.921	2.249	16.573	5.193	11.333	1.001	573.783
10/17/2012 17:30	2717.881	2.249	16.573	5.192	11.332	1.0008	573.782
10/17/2012 17:30	2718.961	2.249	16.57	5.192	11.332	1.0008	573.782
10/17/2012 17:30	2720.101	2.249	16.569	5.193	11.333	1.001	573.783
10/17/2012 17:30	2721.301	2.249	16.571	5.193	11.333	1.001	573.783
10/17/2012 17:30	2722.561	2.249	16.566	5.193	11.333	1.001	573.783
10/17/2012 17:30	2723.881	2.249	16.569	5.193	11.333	1.001	573.783
10/17/2012 17:30	2725.321	2.249	16.569	5.193	11.333	1.001	573.783

Appendix E-3

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/17/2012 17:30	2726.821	2.249	16.568	5.192	11.332	1.0008	573.782
10/17/2012 17:30	2728.381	2.249	16.564	5.193	11.333	1.001	573.783
10/17/2012 17:30	2730.061	2.249	16.565	5.193	11.333	1.001	573.783
10/17/2012 17:30	2731.861	2.249	16.562	5.193	11.333	1.001	573.783
10/17/2012 17:30	2733.721	2.249	16.561	5.194	11.334	1.0012	573.784
10/17/2012 17:30	2735.761	2.249	16.561	5.194	11.334	1.0012	573.784
10/17/2012 17:30	2737.861	2.249	16.559	5.194	11.334	1.0012	573.784
10/17/2012 17:30	2740.081	2.25	16.56	5.194	11.334	1.0012	573.784
10/17/2012 17:30	2742.481	2.249	16.557	5.192	11.332	1.0008	573.782
10/17/2012 17:30	2745.001	2.249	16.559	5.194	11.334	1.0012	573.784
10/17/2012 17:30	2747.641	2.249	16.555	5.194	11.334	1.0012	573.784
10/17/2012 17:30	2750.461	2.25	16.556	5.194	11.334	1.0012	573.784
10/17/2012 17:30	2753.461	2.249	16.558	5.194	11.334	1.0012	573.784
10/17/2012 17:30	2756.641	2.249	16.555	5.194	11.334	1.0012	573.784
10/17/2012 17:31	2760.001	2.249	16.554	5.194	11.334	1.0012	573.784
10/17/2012 17:31	2763.601	2.249	16.552	5.193	11.333	1.001	573.783
10/17/2012 17:31	2767.201	2.249	16.552	5.194	11.334	1.0012	573.784
10/17/2012 17:31	2771.401	2.249	16.552	5.193	11.333	1.001	573.783
10/17/2012 17:31	2775.601	2.249	16.549	5.194	11.334	1.0012	573.784
10/17/2012 17:31	2779.801	2.249	16.55	5.193	11.333	1.001	573.783
10/17/2012 17:31	2784.601	2.249	16.55	5.193	11.333	1.001	573.783
10/17/2012 17:31	2790.001	2.249	16.546	5.193	11.333	1.001	573.783
10/17/2012 17:31	2794.801	2.249	16.55	5.194	11.334	1.0012	573.784
10/17/2012 17:31	2800.801	2.249	16.547	5.194	11.334	1.0012	573.784
10/17/2012 17:31	2806.801	2.249	16.549	5.194	11.334	1.0012	573.784
10/17/2012 17:31	2812.801	2.249	16.543	5.194	11.334	1.0012	573.784
10/17/2012 17:31	2819.401	2.249	16.544	5.194	11.334	1.0012	573.784
10/17/2012 17:32	2826.601	2.249	16.544	5.194	11.334	1.0012	573.784
10/17/2012 17:32	2834.401	2.249	16.544	5.194	11.334	1.0012	573.784
10/17/2012 17:32	2842.201	2.249	16.542	5.194	11.334	1.0012	573.784
10/17/2012 17:32	2850.601	2.25	16.544	5.194	11.334	1.0012	573.784
10/17/2012 17:32	2859.601	2.249	16.542	5.194	11.334	1.0012	573.784
10/17/2012 17:32	2869.201	2.249	16.544	5.194	11.334	1.0012	573.784
10/17/2012 17:32	2878.801	2.249	16.541	5.194	11.334	1.0012	573.784
10/17/2012 17:33	2889.601	2.25	16.543	5.195	11.335	1.0013	573.785
10/17/2012 17:33	2901.001	2.25	16.54	5.195	11.335	1.0013	573.785
10/17/2012 17:33	2913.001	2.25	16.538	5.194	11.334	1.0012	573.784
10/17/2012 17:33	2925.601	2.249	16.538	5.194	11.334	1.0012	573.784
10/17/2012 17:33	2938.801	2.25	16.539	5.194	11.334	1.0012	573.784
10/17/2012 17:34	2953.201	2.249	16.537	5.193	11.333	1.001	573.783
10/17/2012 17:34	2968.201	2.25	16.537	5.194	11.334	1.0012	573.784
10/17/2012 17:34	2983.801	2.249	16.54	5.192	11.332	1.0008	573.782
10/17/2012 17:35	3000.601	2.25	16.536	5.194	11.334	1.0012	573.784
10/17/2012 17:35	3018.601	2.249	16.537	5.193	11.333	1.001	573.783
10/17/2012 17:35	3037.201	2.249	16.535	5.194	11.334	1.0012	573.784
10/17/2012 17:35	3057.601	2.249	16.533	5.193	11.333	1.001	573.783
10/17/2012 17:36	3078.601	2.249	16.531	5.193	11.333	1.001	573.783
10/17/2012 17:36	3100.801	2.249	16.537	5.193	11.333	1.001	573.783

Appendix E-3

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/17/2012 17:37	3124.801	2.249	16.536	5.193	11.333	1.001	573.783
10/17/2012 17:37	3150.001	2.249	16.533	5.192	11.332	1.0008	573.782
10/17/2012 17:37	3176.401	2.249	16.534	5.194	11.334	1.0012	573.784
10/17/2012 17:38	3204.601	2.249	16.531	5.193	11.333	1.001	573.783
10/17/2012 17:38	3234.601	2.249	16.535	5.194	11.334	1.0012	573.784
10/17/2012 17:39	3266.401	2.249	16.535	5.194	11.334	1.0012	573.784
10/17/2012 17:40	3300.001	2.249	16.532	5.194	11.334	1.0012	573.784
10/17/2012 17:40	3336.001	2.249	16.532	5.193	11.333	1.001	573.783
10/17/2012 17:41	3372.001	2.249	16.534	5.193	11.333	1.001	573.783
10/17/2012 17:41	3414.001	2.249	16.531	5.193	11.333	1.001	573.783
10/17/2012 17:42	3456.001	2.249	16.531	5.193	11.333	1.001	573.783
10/17/2012 17:43	3498.001	2.249	16.53	5.193	11.333	1.001	573.783
10/17/2012 17:44	3546.001	2.249	16.536	5.194	11.334	1.0012	573.784
10/17/2012 17:45	3600.001	2.249	16.532	5.193	11.333	1.001	573.783
10/17/2012 17:45	3600.252	2.249	16.55	5.193	11.333	1.001	573.783
10/17/2012 17:45	3600.502	2.249	16.565	5.193	11.333	1.001	573.783
10/17/2012 17:45	3600.752	2.249	16.579	5.193	11.333	1.001	573.783
10/17/2012 17:45	3601.002	2.249	16.578	5.193	11.333	1.001	573.783
10/17/2012 17:45	3601.252	2.249	16.586	5.192	11.332	1.0008	573.782
10/17/2012 17:45	3601.502	2.249	16.593	5.192	11.332	1.0008	573.782
10/17/2012 17:45	3601.752	2.249	16.593	5.192	11.332	1.0008	573.782
10/17/2012 17:45	3602.002	2.248	16.597	5.191	11.331	1.0006	573.781
10/17/2012 17:45	3602.252	2.248	16.6	5.192	11.332	1.0008	573.782
10/17/2012 17:45	3602.502	2.248	16.609	5.192	11.332	1.0008	573.782
10/17/2012 17:45	3602.752	2.248	16.608	5.191	11.331	1.0006	573.781
10/17/2012 17:45	3603.002	2.248	16.609	5.191	11.331	1.0006	573.781
10/17/2012 17:45	3603.252	2.248	16.611	5.192	11.332	1.0008	573.782
10/17/2012 17:45	3603.502	2.248	16.614	5.191	11.331	1.0006	573.781
10/17/2012 17:45	3603.752	2.248	16.613	5.191	11.331	1.0006	573.781
10/17/2012 17:45	3604.002	2.248	16.618	5.19	11.33	1.0004	573.78
10/17/2012 17:45	3604.252	2.248	16.615	5.192	11.332	1.0008	573.782
10/17/2012 17:45	3604.502	2.248	16.619	5.191	11.331	1.0006	573.781
10/17/2012 17:45	3604.752	2.248	16.622	5.191	11.331	1.0006	573.781
10/17/2012 17:45	3605.002	2.248	16.624	5.191	11.331	1.0006	573.781
10/17/2012 17:45	3605.252	2.248	16.622	5.192	11.332	1.0008	573.782
10/17/2012 17:45	3605.502	2.248	16.626	5.19	11.33	1.0004	573.78
10/17/2012 17:45	3605.752	2.248	16.626	5.19	11.33	1.0004	573.78
10/17/2012 17:45	3606.002	2.248	16.624	5.19	11.33	1.0004	573.78
10/17/2012 17:45	3606.361	2.248	16.615	5.192	11.332	1.0008	573.782
10/17/2012 17:45	3606.721	2.248	16.612	5.191	11.331	1.0006	573.781
10/17/2012 17:45	3607.141	2.249	16.605	5.192	11.332	1.0008	573.782
10/17/2012 17:45	3607.561	2.248	16.604	5.191	11.331	1.0006	573.781
10/17/2012 17:45	3607.981	2.248	16.601	5.191	11.331	1.0006	573.781
10/17/2012 17:45	3608.461	2.248	16.598	5.192	11.332	1.0008	573.782
10/17/2012 17:45	3609.001	2.248	16.592	5.192	11.332	1.0008	573.782
10/17/2012 17:45	3609.481	2.248	16.591	5.191	11.331	1.0006	573.781
10/17/2012 17:45	3610.081	2.249	16.591	5.192	11.332	1.0008	573.782
10/17/2012 17:45	3610.681	2.249	16.589	5.193	11.333	1.001	573.783

Appendix E-3

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/17/2012 17:45	3611.281	2.249	16.585	5.192	11.332	1.0008	573.782
10/17/2012 17:45	3611.941	2.249	16.583	5.193	11.333	1.001	573.783
10/17/2012 17:45	3612.661	2.249	16.58	5.193	11.333	1.001	573.783
10/17/2012 17:45	3613.441	2.249	16.579	5.193	11.333	1.001	573.783
10/17/2012 17:45	3614.221	2.249	16.579	5.192	11.332	1.0008	573.782
10/17/2012 17:45	3615.061	2.249	16.579	5.192	11.332	1.0008	573.782
10/17/2012 17:45	3615.961	2.249	16.573	5.193	11.333	1.001	573.783
10/17/2012 17:45	3616.921	2.249	16.575	5.193	11.333	1.001	573.783
10/17/2012 17:45	3617.881	2.249	16.574	5.193	11.333	1.001	573.783
10/17/2012 17:45	3618.961	2.249	16.574	5.193	11.333	1.001	573.783
10/17/2012 17:45	3620.101	2.249	16.57	5.194	11.334	1.0012	573.784
10/17/2012 17:45	3621.301	2.249	16.568	5.193	11.333	1.001	573.783
10/17/2012 17:45	3622.561	2.249	16.568	5.193	11.333	1.001	573.783
10/17/2012 17:45	3623.881	2.249	16.568	5.193	11.333	1.001	573.783
10/17/2012 17:45	3625.321	2.249	16.564	5.193	11.333	1.001	573.783
10/17/2012 17:45	3626.821	2.249	16.566	5.193	11.333	1.001	573.783
10/17/2012 17:45	3628.381	2.249	16.564	5.192	11.332	1.0008	573.782
10/17/2012 17:45	3630.061	2.249	16.564	5.193	11.333	1.001	573.783
10/17/2012 17:45	3631.861	2.249	16.562	5.194	11.334	1.0012	573.784
10/17/2012 17:45	3633.721	2.249	16.564	5.194	11.334	1.0012	573.784
10/17/2012 17:45	3635.761	2.249	16.561	5.193	11.333	1.001	573.783
10/17/2012 17:45	3637.861	2.249	16.561	5.193	11.333	1.001	573.783
10/17/2012 17:45	3640.081	2.249	16.56	5.193	11.333	1.001	573.783
10/17/2012 17:45	3642.481	2.249	16.56	5.192	11.332	1.0008	573.782
10/17/2012 17:45	3645.001	2.249	16.556	5.193	11.333	1.001	573.783
10/17/2012 17:45	3647.641	2.249	16.558	5.194	11.334	1.0012	573.784
10/17/2012 17:45	3650.461	2.249	16.556	5.194	11.334	1.0012	573.784
10/17/2012 17:45	3653.461	2.249	16.554	5.193	11.333	1.001	573.783
10/17/2012 17:45	3656.641	2.249	16.553	5.194	11.334	1.0012	573.784
10/17/2012 17:46	3660.001	2.249	16.554	5.193	11.333	1.001	573.783
10/17/2012 17:46	3663.601	2.249	16.555	5.192	11.332	1.0008	573.782
10/17/2012 17:46	3667.201	2.249	16.551	5.193	11.333	1.001	573.783
10/17/2012 17:46	3671.401	2.249	16.548	5.192	11.332	1.0008	573.782
10/17/2012 17:46	3675.601	2.249	16.55	5.193	11.333	1.001	573.783
10/17/2012 17:46	3679.801	2.249	16.55	5.193	11.333	1.001	573.783
10/17/2012 17:46	3684.601	2.249	16.547	5.194	11.334	1.0012	573.784
10/17/2012 17:46	3690.001	2.249	16.547	5.193	11.333	1.001	573.783
10/17/2012 17:46	3694.801	2.25	16.546	5.194	11.334	1.0012	573.784
10/17/2012 17:46	3700.801	2.249	16.547	5.193	11.333	1.001	573.783
10/17/2012 17:46	3706.801	2.249	16.545	5.194	11.334	1.0012	573.784
10/17/2012 17:46	3712.801	2.249	16.548	5.194	11.334	1.0012	573.784
10/17/2012 17:46	3719.401	2.25	16.542	5.194	11.334	1.0012	573.784
10/17/2012 17:47	3726.601	2.249	16.543	5.193	11.333	1.001	573.783
10/17/2012 17:47	3734.401	2.249	16.543	5.194	11.334	1.0012	573.784
10/17/2012 17:47	3742.201	2.25	16.542	5.194	11.334	1.0012	573.784
10/17/2012 17:47	3750.601	2.249	16.543	5.194	11.334	1.0012	573.784
10/17/2012 17:47	3759.601	2.249	16.542	5.194	11.334	1.0012	573.784
10/17/2012 17:47	3769.201	2.249	16.541	5.194	11.334	1.0012	573.784

Appendix E-3

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/17/2012 17:47	3778.801	2.249	16.541	5.194	11.334	1.0012	573.784
10/17/2012 17:48	3789.601	2.249	16.537	5.193	11.333	1.001	573.783
10/17/2012 17:48	3801.001	2.249	16.537	5.193	11.333	1.001	573.783
10/17/2012 17:48	3813.001	2.249	16.539	5.193	11.333	1.001	573.783
10/17/2012 17:48	3825.601	2.25	16.538	5.194	11.334	1.0012	573.784
10/17/2012 17:48	3838.801	2.249	16.539	5.193	11.333	1.001	573.783
10/17/2012 17:49	3853.201	2.249	16.537	5.194	11.334	1.0012	573.784
10/17/2012 17:49	3868.201	2.249	16.537	5.193	11.333	1.001	573.783
10/17/2012 17:49	3883.801	2.249	16.538	5.193	11.333	1.001	573.783
10/17/2012 17:50	3900.601	2.249	16.536	5.194	11.334	1.0012	573.784
10/17/2012 17:50	3918.601	2.249	16.536	5.193	11.333	1.001	573.783
10/17/2012 17:50	3937.201	2.25	16.537	5.195	11.335	1.0013	573.785
10/17/2012 17:50	3957.601	2.25	16.536	5.194	11.334	1.0012	573.784
10/17/2012 17:51	3978.601	2.25	16.536	5.194	11.334	1.0012	573.784
10/17/2012 17:51	4000.801	2.25	16.533	5.195	11.335	1.0013	573.785
10/17/2012 17:52	4024.801	2.249	16.531	5.194	11.334	1.0012	573.784
10/17/2012 17:52	4050.001	2.249	16.533	5.194	11.334	1.0012	573.784
10/17/2012 17:52	4076.401	2.249	16.533	5.194	11.334	1.0012	573.784
10/17/2012 17:53	4104.601	2.25	16.533	5.195	11.335	1.0013	573.785
10/17/2012 17:53	4134.601	2.249	16.533	5.194	11.334	1.0012	573.784
10/17/2012 17:54	4166.401	2.249	16.533	5.192	11.332	1.0008	573.782
10/17/2012 17:55	4200.001	2.249	16.531	5.193	11.333	1.001	573.783
10/17/2012 17:55	4236.001	2.249	16.531	5.193	11.333	1.001	573.783
10/17/2012 17:56	4272.001	2.249	16.531	5.193	11.333	1.001	573.783
10/17/2012 17:56	4314.001	2.249	16.532	5.193	11.333	1.001	573.783
10/17/2012 17:57	4356.001	2.249	16.531	5.193	11.333	1.001	573.783
10/17/2012 17:58	4398.001	2.249	16.533	5.193	11.333	1.001	573.783
10/17/2012 17:59	4446.001	2.249	16.531	5.193	11.333	1.001	573.783
10/17/2012 18:00	4500.001	2.249	16.532	5.194	11.334	1.0012	573.784
10/17/2012 18:00	4500.252	2.248	16.553	5.191	11.331	1.0006	573.781
10/17/2012 18:00	4500.502	2.249	16.562	5.192	11.332	1.0008	573.782
10/17/2012 18:00	4500.752	2.248	16.572	5.191	11.331	1.0006	573.781
10/17/2012 18:00	4501.002	2.248	16.58	5.19	11.33	1.0004	573.78
10/17/2012 18:00	4501.252	2.248	16.581	5.191	11.331	1.0006	573.781
10/17/2012 18:00	4501.502	2.249	16.591	5.192	11.332	1.0008	573.782
10/17/2012 18:00	4501.752	2.248	16.592	5.191	11.331	1.0006	573.781
10/17/2012 18:00	4502.002	2.248	16.598	5.191	11.331	1.0006	573.781
10/17/2012 18:00	4502.252	2.248	16.603	5.191	11.331	1.0006	573.781
10/17/2012 18:00	4502.502	2.248	16.605	5.191	11.331	1.0006	573.781
10/17/2012 18:00	4502.752	2.248	16.607	5.191	11.331	1.0006	573.781
10/17/2012 18:00	4503.002	2.248	16.611	5.19	11.33	1.0004	573.78
10/17/2012 18:00	4503.252	2.248	16.609	5.191	11.331	1.0006	573.781
10/17/2012 18:00	4503.502	2.248	16.614	5.19	11.33	1.0004	573.78
10/17/2012 18:00	4503.752	2.248	16.612	5.19	11.33	1.0004	573.78
10/17/2012 18:00	4504.002	2.248	16.615	5.19	11.33	1.0004	573.78
10/17/2012 18:00	4504.252	2.248	16.615	5.19	11.33	1.0004	573.78
10/17/2012 18:00	4504.502	2.248	16.618	5.192	11.332	1.0008	573.782
10/17/2012 18:00	4504.752	2.248	16.618	5.191	11.331	1.0006	573.781

Appendix E-3

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/17/2012 18:00	4505.002	2.248	16.62	5.19	11.33	1.0004	573.78
10/17/2012 18:00	4505.252	2.248	16.623	5.19	11.33	1.0004	573.78
10/17/2012 18:00	4505.502	2.248	16.623	5.19	11.33	1.0004	573.78
10/17/2012 18:00	4505.752	2.248	16.624	5.19	11.33	1.0004	573.78
10/17/2012 18:00	4506.002	2.248	16.623	5.19	11.33	1.0004	573.78
10/17/2012 18:00	4506.361	2.248	16.617	5.191	11.331	1.0006	573.781
10/17/2012 18:00	4506.721	2.248	16.613	5.191	11.331	1.0006	573.781
10/17/2012 18:00	4507.141	2.248	16.607	5.191	11.331	1.0006	573.781
10/17/2012 18:00	4507.561	2.248	16.599	5.191	11.331	1.0006	573.781
10/17/2012 18:00	4507.981	2.248	16.598	5.19	11.33	1.0004	573.78
10/17/2012 18:00	4508.461	2.248	16.595	5.191	11.331	1.0006	573.781
10/17/2012 18:00	4509.001	2.248	16.592	5.19	11.33	1.0004	573.78
10/17/2012 18:00	4509.481	2.249	16.593	5.192	11.332	1.0008	573.782
10/17/2012 18:00	4510.081	2.248	16.59	5.192	11.332	1.0008	573.782
10/17/2012 18:00	4510.681	2.249	16.588	5.192	11.332	1.0008	573.782
10/17/2012 18:00	4511.281	2.248	16.585	5.192	11.332	1.0008	573.782
10/17/2012 18:00	4511.941	2.249	16.583	5.192	11.332	1.0008	573.782
10/17/2012 18:00	4512.661	2.248	16.579	5.192	11.332	1.0008	573.782
10/17/2012 18:00	4513.441	2.249	16.578	5.192	11.332	1.0008	573.782
10/17/2012 18:00	4514.221	2.249	16.575	5.192	11.332	1.0008	573.782
10/17/2012 18:00	4515.061	2.249	16.574	5.192	11.332	1.0008	573.782
10/17/2012 18:00	4515.961	2.249	16.576	5.192	11.332	1.0008	573.782
10/17/2012 18:00	4516.921	2.249	16.573	5.192	11.332	1.0008	573.782
10/17/2012 18:00	4517.881	2.248	16.576	5.191	11.331	1.0006	573.781
10/17/2012 18:00	4518.961	2.248	16.57	5.192	11.332	1.0008	573.782
10/17/2012 18:00	4520.101	2.249	16.566	5.192	11.332	1.0008	573.782
10/17/2012 18:00	4521.301	2.249	16.571	5.192	11.332	1.0008	573.782
10/17/2012 18:00	4522.561	2.249	16.567	5.193	11.333	1.001	573.783
10/17/2012 18:00	4523.881	2.249	16.566	5.193	11.333	1.001	573.783
10/17/2012 18:00	4525.321	2.249	16.567	5.192	11.332	1.0008	573.782
10/17/2012 18:00	4526.821	2.249	16.564	5.192	11.332	1.0008	573.782
10/17/2012 18:00	4528.381	2.249	16.563	5.193	11.333	1.001	573.783
10/17/2012 18:00	4530.061	2.249	16.564	5.192	11.332	1.0008	573.782
10/17/2012 18:00	4531.861	2.249	16.56	5.192	11.332	1.0008	573.782
10/17/2012 18:00	4533.721	2.249	16.56	5.194	11.334	1.0012	573.784
10/17/2012 18:00	4535.761	2.249	16.559	5.193	11.333	1.001	573.783
10/17/2012 18:00	4537.861	2.249	16.559	5.193	11.333	1.001	573.783
10/17/2012 18:00	4540.081	2.249	16.559	5.193	11.333	1.001	573.783
10/17/2012 18:00	4542.481	2.249	16.557	5.193	11.333	1.001	573.783
10/17/2012 18:00	4545.001	2.249	16.557	5.193	11.333	1.001	573.783
10/17/2012 18:00	4547.641	2.249	16.556	5.192	11.332	1.0008	573.782
10/17/2012 18:00	4550.461	2.249	16.554	5.193	11.333	1.001	573.783
10/17/2012 18:00	4553.461	2.249	16.555	5.193	11.333	1.001	573.783
10/17/2012 18:00	4556.641	2.249	16.555	5.192	11.332	1.0008	573.782
10/17/2012 18:01	4560.001	2.249	16.552	5.193	11.333	1.001	573.783
10/17/2012 18:01	4563.601	2.249	16.552	5.193	11.333	1.001	573.783
10/17/2012 18:01	4567.201	2.249	16.555	5.194	11.334	1.0012	573.784
10/17/2012 18:01	4571.401	2.249	16.55	5.193	11.333	1.001	573.783

Appendix E-3

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater
							Elevation (ft AMSL)
10/17/2012 18:01	4575.601	2.249	16.551	5.193	11.333	1.001	573.783
10/17/2012 18:01	4579.801	2.249	16.55	5.193	11.333	1.001	573.783
10/17/2012 18:01	4584.601	2.249	16.546	5.193	11.333	1.001	573.783
10/17/2012 18:01	4590.001	2.249	16.544	5.193	11.333	1.001	573.783
10/17/2012 18:01	4594.801	2.249	16.545	5.193	11.333	1.001	573.783
10/17/2012 18:01	4600.801	2.249	16.543	5.193	11.333	1.001	573.783
10/17/2012 18:01	4606.801	2.249	16.543	5.193	11.333	1.001	573.783
10/17/2012 18:01	4612.801	2.249	16.544	5.193	11.333	1.001	573.783
10/17/2012 18:01	4619.401	2.249	16.543	5.193	11.333	1.001	573.783
10/17/2012 18:02	4626.601	2.249	16.543	5.193	11.333	1.001	573.783
10/17/2012 18:02	4634.401	2.249	16.542	5.193	11.333	1.001	573.783
10/17/2012 18:02	4642.201	2.249	16.541	5.192	11.332	1.0008	573.782
10/17/2012 18:02	4650.601	2.249	16.543	5.193	11.333	1.001	573.783
10/17/2012 18:02	4659.601	2.249	16.539	5.193	11.333	1.001	573.783
10/17/2012 18:02	4669.201	2.249	16.54	5.193	11.333	1.001	573.783
10/17/2012 18:02	4678.801	2.249	16.54	5.193	11.333	1.001	573.783
10/17/2012 18:03	4689.601	2.255	16.539	5.207	11.347	1.0037	573.797
10/17/2012 18:03	4701.001	2.255	16.538	5.207	11.347	1.0037	573.797
10/17/2012 18:03	4713.001	2.25	16.539	5.196	11.336	1.0015	573.786
10/17/2012 18:03	4725.601	2.25	16.54	5.196	11.336	1.0015	573.786
10/17/2012 18:03	4738.801	2.25	16.54	5.195	11.335	1.0013	573.785
10/17/2012 18:04	4753.201	2.25	16.538	5.195	11.335	1.0013	573.785
10/17/2012 18:04	4768.201	2.25	16.536	5.195	11.335	1.0013	573.785
10/17/2012 18:04	4783.801	2.25	16.532	5.196	11.336	1.0015	573.786
10/17/2012 18:05	4800.601	2.25	16.536	5.195	11.335	1.0013	573.785
10/17/2012 18:05	4818.601	2.25	16.537	5.195	11.335	1.0013	573.785
10/17/2012 18:05	4837.201	2.251	16.533	5.196	11.336	1.0015	573.786
10/17/2012 18:05	4857.601	2.25	16.538	5.195	11.335	1.0013	573.785
10/17/2012 18:06	4878.601	2.25	16.535	5.195	11.335	1.0013	573.785
10/17/2012 18:06	4900.801	2.25	16.535	5.196	11.336	1.0015	573.786
10/17/2012 18:07	4924.801	2.25	16.535	5.195	11.335	1.0013	573.785
10/17/2012 18:07	4950.001	2.25	16.531	5.195	11.335	1.0013	573.785
10/17/2012 18:07	4976.401	2.25	16.531	5.196	11.336	1.0015	573.786
10/17/2012 18:08	5004.601	2.25	16.534	5.196	11.336	1.0015	573.786
10/17/2012 18:08	5034.601	2.25	16.535	5.196	11.336	1.0015	573.786
10/17/2012 18:09	5066.401	2.25	16.535	5.196	11.336	1.0015	573.786
10/17/2012 18:10	5100.001	2.25	16.54	5.195	11.335	1.0013	573.785
10/17/2012 18:10	5136.001	2.25	16.535	5.195	11.335	1.0013	573.785
10/17/2012 18:11	5172.001	2.25	16.534	5.195	11.335	1.0013	573.785
10/17/2012 18:11	5214.001	2.25	16.537	5.194	11.334	1.0012	573.784
10/17/2012 18:12	5256.001	2.25	16.534	5.196	11.336	1.0015	573.786
10/17/2012 18:13	5298.001	2.25	16.534	5.196	11.336	1.0015	573.786
10/17/2012 18:14	5346.001	2.25	16.533	5.194	11.334	1.0012	573.784
10/17/2012 18:15	5400.001	2.246	16.532	5.186	11.326	0.9996	573.776
10/17/2012 18:15	5448.001	2.246	16.535	5.185	11.325	0.9994	573.775
10/17/2012 18:16	5508.001	2.246	16.529	5.185	11.325	0.9994	573.775
10/17/2012 18:17	5568.001	2.246	16.533	5.185	11.325	0.9994	573.775
10/17/2012 18:18	5628.001	2.246	16.53	5.185	11.325	0.9994	573.775

Appendix E-3

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/17/2012 18:19	5694.001	2.245	16.529	5.185	11.325	0.9994	573.775
10/17/2012 18:21	5766.001	2.246	16.534	5.185	11.325	0.9994	573.775
10/17/2012 18:22	5844.001	2.246	16.53	5.185	11.325	0.9994	573.775
10/17/2012 18:23	5922.001	2.245	16.54	5.183	11.323	0.999	573.773
10/17/2012 18:25	6006.001	2.245	16.536	5.184	11.324	0.9992	573.774
10/17/2012 18:26	6096.001	2.246	16.533	5.185	11.325	0.9994	573.775
10/17/2012 18:28	6192.001	2.245	16.533	5.185	11.325	0.9994	573.775
10/17/2012 18:29	6288.001	2.246	16.532	5.186	11.326	0.9996	573.776
10/17/2012 18:31	6396.001	2.246	16.53	5.185	11.325	0.9994	573.775
10/17/2012 18:33	6510.001	2.245	16.53	5.183	11.323	0.999	573.773
10/17/2012 18:35	6630.001	2.246	16.528	5.185	11.325	0.9994	573.775
10/17/2012 18:37	6756.001	2.245	16.523	5.184	11.324	0.9992	573.774
10/17/2012 18:39	6888.001	2.245	16.527	5.183	11.323	0.999	573.773
10/17/2012 18:42	7032.001	2.245	16.528	5.184	11.324	0.9992	573.774
10/17/2012 18:44	7182.001	2.246	16.526	5.185	11.325	0.9994	573.775
10/17/2012 18:47	7338.001	2.245	16.525	5.184	11.324	0.9992	573.774
10/17/2012 18:50	7506.001	2.246	16.528	5.185	11.325	0.9994	573.775
10/17/2012 18:53	7686.001	2.245	16.525	5.183	11.323	0.999	573.773
10/17/2012 18:56	7872.001	2.245	16.531	5.183	11.323	0.999	573.773
10/17/2012 18:59	8076.001	2.245	16.526	5.184	11.324	0.9992	573.774
10/17/2012 19:03	8286.001	2.245	16.524	5.184	11.324	0.9992	573.774
10/17/2012 19:06	8508.001	2.245	16.524	5.184	11.324	0.9992	573.774
10/17/2012 19:10	8748.001	2.245	16.526	5.183	11.323	0.999	573.773
10/17/2012 19:15	9000.001	2.245	16.527	5.183	11.323	0.999	573.773
10/17/2012 19:19	9264.001	2.245	16.526	5.183	11.323	0.999	573.773
10/17/2012 19:24	9546.001	2.244	16.526	5.182	11.322	0.9988	573.772
10/17/2012 19:29	9846.001	2.245	16.524	5.183	11.323	0.999	573.773
10/17/2012 19:34	10164.001	2.244	16.527	5.181	11.321	0.9987	573.771
10/17/2012 19:40	10500.001	2.244	16.527	5.181	11.321	0.9987	573.771
10/17/2012 19:46	10860.001	2.244	16.528	5.181	11.321	0.9987	573.771
10/17/2012 19:52	11220.001	2.244	16.528	5.181	11.321	0.9987	573.771
10/17/2012 19:59	11640.001	2.244	16.525	5.181	11.321	0.9987	573.771
10/17/2012 20:06	12060.001	2.244	16.527	5.18	11.32	0.9985	573.77
10/17/2012 20:13	12480.001	2.243	16.524	5.18	11.32	0.9985	573.77
10/17/2012 20:21	12960.001	2.243	16.528	5.179	11.319	0.9983	573.769
10/17/2012 20:30	13500.001	2.243	16.527	5.179	11.319	0.9983	573.769
10/17/2012 20:38	13980.001	2.243	16.528	5.179	11.319	0.9983	573.769
10/17/2012 20:48	14580.001	2.242	16.526	5.178	11.318	0.9981	573.768
10/17/2012 20:58	15180.001	2.243	16.528	5.179	11.319	0.9983	573.769
10/17/2012 21:08	15780.001	2.243	16.526	5.18	11.32	0.9985	573.77
10/17/2012 21:19	16440.001	2.244	16.528	5.18	11.32	0.9985	573.77
10/17/2012 21:31	17160.001	2.244	16.526	5.181	11.321	0.9987	573.771
10/17/2012 21:44	17940.001	2.244	16.528	5.182	11.322	0.9988	573.772
10/17/2012 21:57	18720.001	2.244	16.525	5.181	11.321	0.9987	573.771
10/17/2012 22:11	19560.001	2.244	16.528	5.182	11.322	0.9988	573.772
10/17/2012 22:26	20460.001	2.245	16.526	5.183	11.323	0.999	573.773
10/17/2012 22:41	21360.001	2.245	16.526	5.183	11.323	0.999	573.773
10/17/2012 22:56	22260.001	2.245	16.529	5.184	11.324	0.9992	573.774

Appendix E-3

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation
							(ft AMSL)
10/17/2012 23:11	23160.001	2.245	16.53	5.184	11.324	0.9992	573.774
10/17/2012 23:26	24060.001	2.245	16.528	5.183	11.323	0.999	573.773
10/17/2012 23:41	24960.001	2.245	16.527	5.184	11.324	0.9992	573.774
10/17/2012 23:56	25860.001	2.245	16.529	5.184	11.324	0.9992	573.774
10/18/2012 0:11	26760.001	2.246	16.528	5.186	11.326	0.9996	573.776
10/18/2012 0:26	27660.001	2.245	16.526	5.185	11.325	0.9994	573.775
10/18/2012 0:41	28560.001	2.245	16.527	5.185	11.325	0.9994	573.775
10/18/2012 0:56	29460.001	2.245	16.527	5.184	11.324	0.9992	573.774
10/18/2012 1:11	30360.001	2.245	16.526	5.184	11.324	0.9992	573.774
10/18/2012 1:26	31260.001	2.245	16.53	5.183	11.323	0.999	573.773
10/18/2012 1:41	32160.001	2.245	16.529	5.183	11.323	0.999	573.773
10/18/2012 1:56	33060.001	2.244	16.528	5.181	11.321	0.9987	573.771
Recovery Test							
10/18/2012 10:19	0	2.235	16.549	5.16	11.33	0.9974	573.78
10/18/2012 10:34	900.001	2.238	16.523	5.168	11.338	0.9981	573.788
10/18/2012 10:49	1800.001	2.239	16.528	5.169	11.339	0.9982	573.789
10/18/2012 11:04	2700.001	2.239	16.53	5.17	11.34	0.9982	573.79
10/18/2012 11:19	3600.001	2.239	16.528	5.171	11.341	0.9983	573.791
10/18/2012 11:34	4500.001	2.239	16.53	5.17	11.34	0.9982	573.79
10/18/2012 11:49	5400.001	2.239	16.528	5.169	11.339	0.9982	573.789
10/18/2012 12:04	6300.001	2.239	16.531	5.169	11.339	0.9982	573.789
10/18/2012 12:19	7200.001	2.239	16.529	5.17	11.34	0.9982	573.79
10/18/2012 12:34	8100.001	2.24	16.531	5.172	11.342	0.9984	573.792
10/18/2012 12:49	9000.001	2.24	16.531	5.173	11.343	0.9985	573.793
10/18/2012 13:04	9900.001	2.241	16.53	5.174	11.344	0.9986	573.794
10/18/2012 13:19	10800.001	2.24	16.528	5.173	11.343	0.9985	573.793
10/18/2012 13:34	11700.001	2.241	16.531	5.174	11.344	0.9986	573.794
10/18/2012 13:49	12600.001	2.241	16.53	5.174	11.344	0.9986	573.794
10/18/2012 14:04	13500.001	2.241	16.53	5.174	11.344	0.9986	573.794
10/18/2012 14:19	14400.001	2.241	16.532	5.174	11.344	0.9986	573.794
10/18/2012 14:34	15300.001	2.241	16.531	5.174	11.344	0.9986	573.794
10/18/2012 14:49	16200.001	2.241	16.532	5.174	11.344	0.9986	573.794
10/18/2012 15:04	17100.001	2.241	16.536	5.174	11.344	0.9986	573.794
10/18/2012 15:19	18000.001	2.241	16.531	5.174	11.344	0.9986	573.794
10/18/2012 15:34	18900.001	2.241	16.534	5.174	11.344	0.9986	573.794
10/18/2012 15:49	19800.001	2.241	16.531	5.174	11.344	0.9986	573.794
10/18/2012 16:04	20700.001	2.241	16.533	5.174	11.344	0.9986	573.794
10/18/2012 16:19	21600.001	2.241	16.533	5.174	11.344	0.9986	573.794
10/18/2012 16:34	22500.001	2.241	16.53	5.174	11.344	0.9986	573.794
10/18/2012 16:49	23400.001	2.241	16.532	5.173	11.343	0.9985	573.793
10/18/2012 17:04	24300.001	2.241	16.532	5.173	11.343	0.9985	573.793
10/18/2012 17:19	25200.001	2.24	16.531	5.173	11.343	0.9985	573.793
10/18/2012 17:34	26100.001	2.24	16.532	5.173	11.343	0.9985	573.793
10/18/2012 17:49	27000.001	2.24	16.536	5.173	11.343	0.9985	573.793
10/18/2012 18:04	27900.001	2.24	16.533	5.172	11.342	0.9984	573.792
10/18/2012 18:19	28800.001	2.24	16.531	5.173	11.343	0.9985	573.793
10/18/2012 18:34	29700.001	2.24	16.535	5.172	11.342	0.9984	573.792
10/18/2012 18:49	30600.001	2.24	16.531	5.173	11.343	0.9985	573.793

Appendix E-3

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/18/2012 19:04	31500.001	2.24	16.534	5.172	11.342	0.9984	573.792
10/18/2012 19:19	32400.001	2.24	16.532	5.172	11.342	0.9984	573.792
10/18/2012 19:34	33300.001	2.24	16.532	5.172	11.342	0.9984	573.792
10/18/2012 19:49	34200.001	2.239	16.531	5.171	11.341	0.9983	573.791
10/18/2012 20:04	35100.001	2.24	16.533	5.171	11.341	0.9983	573.791
10/18/2012 20:19	36000.001	2.24	16.534	5.171	11.341	0.9983	573.791
10/18/2012 20:34	36900.001	2.24	16.532	5.172	11.342	0.9984	573.792
10/18/2012 20:49	37800.001	2.24	16.532	5.172	11.342	0.9984	573.792
10/18/2012 21:04	38700.001	2.24	16.532	5.172	11.342	0.9984	573.792
10/18/2012 21:19	39600.001	2.24	16.535	5.172	11.342	0.9984	573.792
10/18/2012 21:34	40500.001	2.24	16.534	5.173	11.343	0.9985	573.793
10/18/2012 21:49	41400.001	2.24	16.534	5.172	11.342	0.9984	573.792
10/18/2012 22:04	42300.001	2.24	16.535	5.173	11.343	0.9985	573.793
10/18/2012 22:19	43200.001	2.24	16.534	5.171	11.341	0.9983	573.791
10/18/2012 22:34	44100.001	2.24	16.533	5.172	11.342	0.9984	573.792
10/18/2012 22:49	45000.001	2.239	16.532	5.171	11.341	0.9983	573.791
10/18/2012 23:04	45900.001	2.24	16.537	5.171	11.341	0.9983	573.791
10/18/2012 23:19	46800.001	2.239	16.532	5.17	11.34	0.9982	573.79
10/18/2012 23:34	47700.001	2.239	16.533	5.17	11.34	0.9982	573.79
10/18/2012 23:49	48600.001	2.239	16.535	5.17	11.34	0.9982	573.79
10/19/2012 0:04	49500.001	2.239	16.534	5.169	11.339	0.9982	573.789
10/19/2012 0:19	50400.001	2.239	16.533	5.169	11.339	0.9982	573.789
10/19/2012 0:34	51300.001	2.238	16.534	5.169	11.339	0.9982	573.789
10/19/2012 0:49	52200.001	2.238	16.534	5.168	11.338	0.9981	573.788
10/19/2012 1:04	53100.001	2.238	16.534	5.168	11.338	0.9981	573.788
10/19/2012 1:19	54000.001	2.238	16.537	5.167	11.337	0.998	573.787
10/19/2012 1:34	54900.001	2.237	16.537	5.165	11.335	0.9978	573.785
10/19/2012 1:49	55800.001	2.237	16.535	5.165	11.335	0.9978	573.785
10/19/2012 2:04	56700.001	2.245	16.533	5.184	11.354	0.9995	573.804
10/19/2012 2:19	57600.001	2.409	16.497	5.563	11.733	1.0328	574.183
10/19/2012 2:34	58500.001	2.41	16.508	5.564	11.734	1.0329	574.184
10/19/2012 2:49	59400.001	2.409	16.514	5.562	11.732	1.0327	574.182
10/19/2012 3:04	60300.001	2.408	16.519	5.56	11.73	1.0326	574.18
10/19/2012 3:19	61200.001	2.409	16.522	5.562	11.732	1.0327	574.182
10/19/2012 3:34	62100.001	2.409	16.524	5.562	11.732	1.0327	574.182
10/19/2012 3:49	63000.001	2.411	16.524	5.566	11.736	1.0331	574.186
10/19/2012 4:04	63900.001	2.41	16.525	5.564	11.734	1.0329	574.184
10/19/2012 4:19	64800.001	2.408	16.53	5.56	11.73	1.0326	574.18
10/19/2012 4:34	65700.001	2.407	16.528	5.557	11.727	1.0323	574.177
10/19/2012 4:49	66600.001	2.404	16.529	5.55	11.72	1.0317	574.17
10/19/2012 5:04	67500.001	2.401	16.533	5.545	11.715	1.0313	574.165
10/19/2012 5:19	68400.001	2.397	16.532	5.535	11.705	1.0304	574.155
10/19/2012 5:34	69300.001	2.391	16.532	5.521	11.691	1.0291	574.141
10/19/2012 5:49	70200.001	2.388	16.538	5.513	11.683	1.0284	574.133
10/19/2012 6:04	71100.001	2.385	16.532	5.507	11.677	1.0279	574.127
10/19/2012 6:19	72000.001	2.383	16.534	5.502	11.672	1.0275	574.122
10/19/2012 6:34	72900.001	2.382	16.534	5.499	11.669	1.0272	574.119
10/19/2012 6:49	73800.001	2.379	16.538	5.493	11.663	1.0267	574.113

Appendix E-3

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/19/2012 7:04	74700.001	2.377	16.537	5.489	11.659	1.0263	574.109
10/19/2012 7:19	75600.001	2.376	16.539	5.486	11.656	1.0261	574.106
10/19/2012 7:34	76500.001	2.375	16.539	5.483	11.653	1.0258	574.103
10/19/2012 7:49	77400.001	2.373	16.538	5.48	11.65	1.0255	574.1
10/19/2012 8:04	78300.001	2.373	16.535	5.479	11.649	1.0254	574.099
10/19/2012 8:19	79200.001	2.372	16.537	5.476	11.646	1.0252	574.096
10/19/2012 8:34	80100.001	2.37	16.536	5.473	11.643	1.0249	574.093
10/19/2012 8:49	81000.001	2.37	16.537	5.472	11.642	1.0248	574.092
10/19/2012 9:04	81900.001	2.369	16.535	5.47	11.64	1.0246	574.09
10/19/2012 9:19	82800.001	2.374	16.536	5.482	11.652	1.0257	574.102
10/19/2012 9:34	83700.001	2.409	16.528	5.563	11.733	1.0328	574.183
10/19/2012 9:49	84600.001	2.41	16.529	5.564	11.734	1.0329	574.184
10/19/2012 10:04	85500.001	2.41	16.531	5.564	11.734	1.0329	574.184
10/19/2012 10:19	86400.001	2.41	16.531	5.565	11.735	1.033	574.185
10/19/2012 10:34	87300.001	2.409	16.531	5.562	11.732	1.0327	574.182
10/19/2012 10:49	88200.001	2.408	16.535	5.561	11.731	1.0327	574.181
10/19/2012 11:04	89100.001	2.406	16.534	5.555	11.725	1.0321	574.175
10/19/2012 11:19	90000.001	2.404	16.538	5.551	11.721	1.0318	574.171
10/19/2012 11:34	90900.001	2.402	16.539	5.546	11.716	1.0313	574.166
10/19/2012 11:49	91800.001	2.399	16.535	5.539	11.709	1.0307	574.159
10/19/2012 12:04	92700.001	2.395	16.541	5.53	11.7	1.0299	574.15
10/19/2012 12:19	93600.001	2.39	16.54	5.519	11.689	1.029	574.139
10/19/2012 12:34	94500.001	2.386	16.541	5.51	11.68	1.0282	574.13
10/19/2012 12:49	95400.001	2.383	16.542	5.502	11.672	1.0275	574.122
10/19/2012 13:04	96300.001	2.38	16.538	5.496	11.666	1.0269	574.116
10/19/2012 13:19	97200.001	2.377	16.54	5.488	11.658	1.0262	574.108
10/19/2012 13:34	98100.001	2.375	16.542	5.483	11.653	1.0258	574.103
10/19/2012 13:49	99000.001	2.373	16.541	5.479	11.649	1.0254	574.099
10/19/2012 14:04	99900.001	2.371	16.54	5.473	11.643	1.0249	574.093
10/19/2012 14:19	100800.001	2.37	16.537	5.473	11.643	1.0249	574.093
10/19/2012 14:34	101700.001	2.369	16.542	5.47	11.64	1.0246	574.09
10/19/2012 14:49	102600.001	2.368	16.538	5.468	11.638	1.0245	574.088
10/19/2012 15:04	103500.001	2.367	16.539	5.466	11.636	1.0243	574.086
10/19/2012 15:19	104400.001	2.367	16.542	5.465	11.635	1.0242	574.085
10/19/2012 15:34	105300.001	2.366	16.54	5.462	11.632	1.0239	574.082
10/19/2012 15:49	106200.001	2.364	16.54	5.459	11.629	1.0237	574.079
10/19/2012 16:04	107100.001	2.364	16.541	5.458	11.628	1.0236	574.078
10/19/2012 16:19	108000.001	2.363	16.539	5.456	11.626	1.0234	574.076
10/19/2012 16:34	108900.001	2.363	16.54	5.455	11.625	1.0233	574.075
10/19/2012 16:49	109800.001	2.362	16.538	5.454	11.624	1.0232	574.074
10/19/2012 17:04	110700.001	2.361	16.539	5.452	11.622	1.0231	574.072
10/19/2012 17:19	111600.001	2.36	16.539	5.45	11.62	1.0229	574.07
10/19/2012 17:34	112500.001	2.36	16.542	5.449	11.619	1.0228	574.069
10/19/2012 17:49	113400.001	2.36	16.542	5.449	11.619	1.0228	574.069
10/19/2012 18:04	114300.001	2.359	16.536	5.447	11.617	1.0226	574.067
10/19/2012 18:19	115200.001	2.359	16.537	5.447	11.617	1.0226	574.067
10/19/2012 18:34	116100.001	2.359	16.541	5.446	11.616	1.0225	574.066
10/19/2012 18:49	117000.001	2.358	16.541	5.445	11.615	1.0224	574.065

Appendix E-3

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/19/2012 19:04	117900.001	2.358	16.54	5.444	11.614	1.0224	574.064
10/19/2012 19:19	118800.001	2.358	16.541	5.445	11.615	1.0224	574.065
10/19/2012 19:34	119700.001	2.357	16.541	5.442	11.612	1.0222	574.062
10/19/2012 19:49	120600.001	2.357	16.541	5.443	11.613	1.0223	574.063
10/19/2012 20:04	121500.001	2.356	16.54	5.44	11.61	1.022	574.06
10/19/2012 20:19	122400.001	2.356	16.541	5.44	11.61	1.022	574.06
10/19/2012 20:34	123300.001	2.356	16.542	5.439	11.609	1.0219	574.059
10/19/2012 20:49	124200.001	2.355	16.541	5.438	11.608	1.0218	574.058
10/19/2012 21:04	125100.001	2.355	16.543	5.437	11.607	1.0217	574.057
10/19/2012 21:19	126000.001	2.354	16.541	5.436	11.606	1.0217	574.056
10/19/2012 21:34	126900.001	2.354	16.542	5.435	11.605	1.0216	574.055
10/19/2012 21:49	127800.001	2.353	16.542	5.433	11.603	1.0214	574.053
10/19/2012 22:04	128700.001	2.353	16.542	5.433	11.603	1.0214	574.053
10/19/2012 22:19	129600.001	2.353	16.544	5.433	11.603	1.0214	574.053
10/19/2012 22:34	130500.001	2.353	16.545	5.432	11.602	1.0213	574.052
10/19/2012 22:49	131400.001	2.352	16.543	5.43	11.6	1.0211	574.05
10/19/2012 23:04	132300.001	2.351	16.544	5.429	11.599	1.021	574.049
10/19/2012 23:19	133200.001	2.351	16.543	5.428	11.598	1.021	574.048
10/19/2012 23:34	134100.001	2.351	16.543	5.428	11.598	1.021	574.048
10/19/2012 23:49	135000.001	2.35	16.544	5.427	11.597	1.0209	574.047
10/20/2012 0:04	135900.001	2.349	16.544	5.424	11.594	1.0206	574.044
10/20/2012 0:19	136800.001	2.349	16.544	5.424	11.594	1.0206	574.044
10/20/2012 0:34	137700.001	2.348	16.542	5.421	11.591	1.0203	574.041
10/20/2012 0:49	138600.001	2.347	16.543	5.419	11.589	1.0202	574.039
10/20/2012 1:04	139500.001	2.347	16.544	5.418	11.588	1.0201	574.038
10/20/2012 1:19	140400.001	2.346	16.545	5.416	11.586	1.0199	574.036
10/20/2012 1:34	141300.001	2.345	16.544	5.415	11.585	1.0198	574.035
10/20/2012 1:49	142200.001	2.345	16.543	5.414	11.584	1.0197	574.034
10/20/2012 2:04	143100.001	2.344	16.545	5.412	11.582	1.0195	574.032
10/20/2012 2:19	144000.001	2.344	16.545	5.411	11.581	1.0195	574.031
10/20/2012 2:34	144900.001	2.342	16.545	5.408	11.578	1.0192	574.028
10/20/2012 2:49	145800.001	2.341	16.546	5.406	11.576	1.019	574.026
10/20/2012 3:04	146700.001	2.34	16.546	5.403	11.573	1.0188	574.023
10/20/2012 3:19	147600.001	2.34	16.547	5.402	11.572	1.0187	574.022
10/20/2012 3:34	148500.001	2.34	16.547	5.402	11.572	1.0187	574.022
10/20/2012 3:49	149400.001	2.339	16.544	5.4	11.57	1.0185	574.02
10/20/2012 4:04	150300.001	2.338	16.546	5.399	11.569	1.0184	574.019
10/20/2012 4:19	151200.001	2.337	16.545	5.397	11.567	1.0182	574.017
10/20/2012 4:34	152100.001	2.336	16.547	5.395	11.565	1.018	574.015
10/20/2012 4:49	153000.001	2.336	16.545	5.394	11.564	1.018	574.014
10/20/2012 5:04	153900.001	2.335	16.546	5.392	11.562	1.0178	574.012
10/20/2012 5:19	154800.001	2.337	16.546	5.395	11.565	1.018	574.015
10/20/2012 5:34	155700.001	2.336	16.543	5.395	11.565	1.018	574.015
10/20/2012 5:49	156600.001	2.336	16.546	5.393	11.563	1.0179	574.013
10/20/2012 6:04	157500.001	2.336	16.547	5.393	11.563	1.0179	574.013
10/20/2012 6:19	158400.001	2.335	16.545	5.392	11.562	1.0178	574.012
10/20/2012 6:34	159300.001	2.335	16.543	5.391	11.561	1.0177	574.011
10/20/2012 6:49	160200.001	2.334	16.546	5.39	11.56	1.0176	574.01

Appendix E-3

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/20/2012 7:04	161100.001	2.334	16.546	5.389	11.559	1.0175	574.009
10/20/2012 7:19	162000.001	2.334	16.547	5.389	11.559	1.0175	574.009
10/20/2012 7:34	162900.001	2.334	16.544	5.388	11.558	1.0174	574.008
10/20/2012 7:49	163800.001	2.333	16.545	5.387	11.557	1.0173	574.007
10/20/2012 8:04	164700.001	2.333	16.544	5.386	11.556	1.0173	574.006
10/20/2012 8:19	165600.001	2.334	16.544	5.388	11.558	1.0174	574.008
10/20/2012 8:34	166500.001	2.334	16.544	5.388	11.558	1.0174	574.008
10/20/2012 8:49	167400.001	2.334	16.545	5.389	11.559	1.0175	574.009
10/20/2012 9:04	168300.001	2.334	16.55	5.388	11.558	1.0174	574.008
10/20/2012 9:19	169200.001	2.334	16.552	5.389	11.559	1.0175	574.009
10/20/2012 9:34	170100.001	2.334	16.55	5.388	11.558	1.0174	574.008
10/20/2012 9:49	171000.001	2.334	16.553	5.388	11.558	1.0174	574.008
10/20/2012 10:04	171900.001	2.333	16.552	5.388	11.558	1.0174	574.008
10/20/2012 10:19	172800.001	2.333	16.553	5.386	11.556	1.0173	574.006
10/20/2012 10:34	173700.001	2.333	16.552	5.386	11.556	1.0173	574.006
10/20/2012 10:49	174600.001	2.332	16.552	5.386	11.556	1.0173	574.006
10/20/2012 11:04	175500.001	2.332	16.551	5.384	11.554	1.0171	574.004
10/20/2012 11:19	176400.001	2.332	16.553	5.384	11.554	1.0171	574.004
10/20/2012 11:34	177300.001	2.332	16.554	5.384	11.554	1.0171	574.004
10/20/2012 11:49	178200.001	2.332	16.554	5.384	11.554	1.0171	574.004
10/20/2012 12:04	179100.001	2.331	16.552	5.383	11.553	1.017	574.003
10/20/2012 12:19	180000.001	2.331	16.553	5.383	11.553	1.017	574.003
10/20/2012 12:34	180900.001	2.331	16.557	5.382	11.552	1.0169	574.002
10/20/2012 12:49	181800.001	2.331	16.557	5.382	11.552	1.0169	574.002
10/20/2012 13:04	182700.001	2.331	16.561	5.382	11.552	1.0169	574.002
10/20/2012 13:19	183600.001	2.331	16.561	5.382	11.552	1.0169	574.002
10/20/2012 13:34	184500.001	2.331	16.561	5.382	11.552	1.0169	574.002
10/20/2012 13:49	185400.001	2.331	16.564	5.383	11.553	1.017	574.003
10/20/2012 14:04	186300.001	2.331	16.561	5.383	11.553	1.017	574.003
10/20/2012 14:19	187200.001	2.331	16.562	5.382	11.552	1.0169	574.002
10/20/2012 14:34	188100.001	2.331	16.561	5.382	11.552	1.0169	574.002
10/20/2012 14:49	189000.001	2.33	16.565	5.38	11.55	1.0167	574
10/20/2012 15:04	189900.001	2.33	16.564	5.381	11.551	1.0168	574.001
10/20/2012 15:19	190800.001	2.33	16.564	5.38	11.55	1.0167	574
10/20/2012 15:34	191700.001	2.33	16.566	5.379	11.549	1.0166	573.999
10/20/2012 15:49	192600.001	2.33	16.563	5.379	11.549	1.0166	573.999
10/20/2012 16:04	193500.001	2.329	16.566	5.379	11.549	1.0166	573.999
10/20/2012 16:19	194400.001	2.329	16.565	5.377	11.547	1.0165	573.997
10/20/2012 16:34	195300.001	2.329	16.566	5.377	11.547	1.0165	573.997
10/20/2012 16:49	196200.001	2.329	16.567	5.377	11.547	1.0165	573.997
10/20/2012 17:04	197100.001	2.329	16.564	5.377	11.547	1.0165	573.997
10/20/2012 17:19	198000.001	2.328	16.564	5.376	11.546	1.0164	573.996
10/20/2012 17:34	198900.001	2.328	16.565	5.376	11.546	1.0164	573.996
10/20/2012 17:49	199800.001	2.328	16.563	5.375	11.545	1.0163	573.995
10/20/2012 18:04	200700.001	2.328	16.563	5.376	11.546	1.0164	573.996
10/20/2012 18:19	201600.001	2.328	16.563	5.375	11.545	1.0163	573.995
10/20/2012 18:34	202500.001	2.328	16.566	5.375	11.545	1.0163	573.995
10/20/2012 18:49	203400.001	2.327	16.564	5.374	11.544	1.0162	573.994

Appendix E-3

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/20/2012 19:04	204300.001	2.327	16.568	5.373	11.543	1.0161	573.993
10/20/2012 19:19	205200.001	2.327	16.567	5.374	11.544	1.0162	573.994
10/20/2012 19:34	206100.001	2.327	16.569	5.373	11.543	1.0161	573.993
10/20/2012 19:49	207000.001	2.327	16.571	5.373	11.543	1.0161	573.993
10/20/2012 20:04	207900.001	2.327	16.569	5.372	11.542	1.016	573.992
10/20/2012 20:19	208800.001	2.327	16.567	5.372	11.542	1.016	573.992
10/20/2012 20:34	209700.001	2.326	16.568	5.372	11.542	1.016	573.992
10/20/2012 20:49	210600.001	2.326	16.566	5.371	11.541	1.0159	573.991
10/20/2012 21:04	211500.001	2.326	16.564	5.37	11.54	1.0158	573.99
10/20/2012 21:19	212400.001	2.325	16.566	5.369	11.539	1.0158	573.989
10/20/2012 21:34	213300.001	2.325	16.566	5.369	11.539	1.0158	573.989
10/20/2012 21:49	214200.001	2.325	16.563	5.368	11.538	1.0157	573.988
10/20/2012 22:04	215100.001	2.325	16.566	5.369	11.539	1.0158	573.989
10/20/2012 22:19	216000.001	2.326	16.566	5.37	11.54	1.0158	573.99
10/20/2012 22:34	216900.001	2.326	16.566	5.371	11.541	1.0159	573.991
10/20/2012 22:49	217800.001	2.327	16.566	5.373	11.543	1.0161	573.993
10/20/2012 23:04	218700.001	2.327	16.566	5.373	11.543	1.0161	573.993
10/20/2012 23:19	219600.001	2.326	16.568	5.371	11.541	1.0159	573.991
10/20/2012 23:34	220500.001	2.326	16.567	5.371	11.541	1.0159	573.991
10/20/2012 23:49	221400.001	2.327	16.563	5.372	11.542	1.016	573.992
10/21/2012 0:04	222300.001	2.327	16.563	5.372	11.542	1.016	573.992
10/21/2012 0:19	223200.001	2.327	16.563	5.372	11.542	1.016	573.992
10/21/2012 0:34	224100.001	2.326	16.564	5.371	11.541	1.0159	573.991
10/21/2012 0:49	225000.001	2.326	16.561	5.371	11.541	1.0159	573.991
10/21/2012 1:04	225900.001	2.326	16.56	5.37	11.54	1.0158	573.99
10/21/2012 1:19	226800.001	2.326	16.565	5.371	11.541	1.0159	573.991
10/21/2012 1:34	227700.001	2.326	16.564	5.37	11.54	1.0158	573.99
10/21/2012 1:49	228600.001	2.326	16.563	5.37	11.54	1.0158	573.99
10/21/2012 2:04	229500.001	2.326	16.564	5.371	11.541	1.0159	573.991
10/21/2012 2:19	230400.001	2.325	16.567	5.369	11.539	1.0158	573.989
10/21/2012 2:34	231300.001	2.325	16.568	5.369	11.539	1.0158	573.989
10/21/2012 2:49	232200.001	2.325	16.565	5.369	11.539	1.0158	573.989
10/21/2012 3:04	233100.001	2.325	16.566	5.369	11.539	1.0158	573.989
10/21/2012 3:19	234000.001	2.325	16.562	5.367	11.537	1.0156	573.987
10/21/2012 3:34	234900.001	2.325	16.565	5.367	11.537	1.0156	573.987
10/21/2012 3:49	235800.001	2.325	16.566	5.368	11.538	1.0157	573.988
10/21/2012 4:04	236700.001	2.324	16.566	5.367	11.537	1.0156	573.987
10/21/2012 4:19	237600.001	2.325	16.565	5.368	11.538	1.0157	573.988
10/21/2012 4:34	238500.001	2.324	16.566	5.366	11.536	1.0155	573.986
10/21/2012 4:49	239400.001	2.324	16.563	5.366	11.536	1.0155	573.986
10/21/2012 5:04	240300.001	2.324	16.566	5.366	11.536	1.0155	573.986
10/21/2012 5:19	241200.001	2.324	16.568	5.365	11.535	1.0154	573.985
10/21/2012 5:34	242100.001	2.323	16.572	5.363	11.533	1.0152	573.983
10/21/2012 5:49	243000.001	2.323	16.572	5.365	11.535	1.0154	573.985
10/21/2012 6:04	243900.001	2.323	16.574	5.364	11.534	1.0153	573.984
10/21/2012 6:19	244800.001	2.323	16.573	5.363	11.533	1.0152	573.983
10/21/2012 6:34	245700.001	2.323	16.572	5.364	11.534	1.0153	573.984
10/21/2012 6:49	246600.001	2.322	16.575	5.362	11.532	1.0151	573.982

Appendix E-3

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater
							Elevation (ft AMSL)
10/21/2012 7:04	247500.001	2.323	16.572	5.364	11.534	1.0153	573.984
10/21/2012 7:19	248400.001	2.323	16.569	5.363	11.533	1.0152	573.983
10/21/2012 7:34	249300.001	2.323	16.574	5.363	11.533	1.0152	573.983
10/21/2012 7:49	250200.001	2.323	16.569	5.363	11.533	1.0152	573.983
10/21/2012 8:04	251100.001	2.323	16.573	5.363	11.533	1.0152	573.983
10/21/2012 8:19	252000.001	2.322	16.574	5.362	11.532	1.0151	573.982
10/21/2012 8:34	252900.001	2.322	16.571	5.363	11.533	1.0152	573.983
10/21/2012 8:49	253800.001	2.322	16.569	5.362	11.532	1.0151	573.982
10/21/2012 9:04	254700.001	2.321	16.571	5.359	11.529	1.0149	573.979
10/21/2012 9:19	255600.001	2.321	16.569	5.358	11.528	1.0148	573.978
10/21/2012 9:34	256500.001	2.32	16.568	5.358	11.528	1.0148	573.978
10/21/2012 9:49	257400.001	2.321	16.567	5.359	11.529	1.0149	573.979
10/21/2012 10:04	258300.001	2.321	16.566	5.359	11.529	1.0149	573.979
10/21/2012 10:19	259200.001	2.321	16.564	5.359	11.529	1.0149	573.979
10/21/2012 10:34	260100.001	2.321	16.564	5.359	11.529	1.0149	573.979
10/21/2012 10:49	261000.001	2.32	16.564	5.357	11.527	1.0147	573.977
10/21/2012 11:04	261900.001	2.32	16.566	5.357	11.527	1.0147	573.977
10/21/2012 11:19	262800.001	2.32	16.562	5.357	11.527	1.0147	573.977
10/21/2012 11:34	263700.001	2.32	16.563	5.356	11.526	1.0146	573.976
10/21/2012 11:49	264600.001	2.319	16.564	5.354	11.524	1.0144	573.974
10/21/2012 12:04	265500.001	2.318	16.561	5.353	11.523	1.0143	573.973
10/21/2012 12:19	266400.001	2.318	16.56	5.353	11.523	1.0143	573.973
10/21/2012 12:34	267300.001	2.318	16.563	5.352	11.522	1.0143	573.972
10/21/2012 12:49	268200.001	2.318	16.56	5.351	11.521	1.0142	573.971
10/21/2012 13:04	269100.001	2.317	16.559	5.35	11.52	1.0141	573.97
10/21/2012 13:19	270000.001	2.316	16.56	5.348	11.518	1.0139	573.968
10/21/2012 13:34	270900.001	2.316	16.556	5.347	11.517	1.0138	573.967
10/21/2012 13:49	271800.001	2.315	16.559	5.346	11.516	1.0137	573.966
10/21/2012 14:04	272700.001	2.315	16.556	5.346	11.516	1.0137	573.966
10/21/2012 14:19	273600.001	2.314	16.555	5.343	11.513	1.0135	573.963
10/21/2012 14:34	274500.001	2.314	16.555	5.343	11.513	1.0135	573.963
10/21/2012 14:49	275400.001	2.313	16.556	5.34	11.51	1.0132	573.96
10/21/2012 15:04	276300.001	2.313	16.556	5.34	11.51	1.0132	573.96
10/21/2012 15:19	277200.001	2.313	16.553	5.34	11.51	1.0132	573.96
10/21/2012 15:34	278100.001	2.312	16.555	5.339	11.509	1.0131	573.959
10/21/2012 15:49	279000.001	2.312	16.556	5.339	11.509	1.0131	573.959
10/21/2012 16:04	279900.001	2.312	16.556	5.338	11.508	1.013	573.958
10/21/2012 16:19	280800.001	2.311	16.556	5.336	11.506	1.0129	573.956
10/21/2012 16:34	281700.001	2.311	16.556	5.336	11.506	1.0129	573.956
10/21/2012 16:49	282600.001	2.311	16.555	5.335	11.505	1.0128	573.955
10/21/2012 17:04	283500.001	2.311	16.554	5.336	11.506	1.0129	573.956
10/21/2012 17:19	284400.001	2.31	16.555	5.333	11.503	1.0126	573.953
10/21/2012 17:34	285300.001	2.309	16.554	5.332	11.502	1.0125	573.952
10/21/2012 17:49	286200.001	2.309	16.556	5.331	11.501	1.0124	573.951
10/21/2012 18:04	287100.001	2.308	16.555	5.33	11.5	1.0123	573.95
10/21/2012 18:19	288000.001	2.308	16.556	5.328	11.498	1.0121	573.948
10/21/2012 18:34	288900.001	2.307	16.553	5.327	11.497	1.0121	573.947
10/21/2012 18:49	289800.001	2.306	16.558	5.325	11.495	1.0119	573.945

Appendix E-3

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/21/2012 19:04	290700.001	2.305	16.556	5.322	11.492	1.0116	573.942
10/21/2012 19:19	291600.001	2.304	16.553	5.32	11.49	1.0114	573.94
10/21/2012 19:34	292500.001	2.303	16.556	5.317	11.487	1.0112	573.937
10/21/2012 19:49	293400.001	2.302	16.555	5.316	11.486	1.0111	573.936
10/21/2012 20:04	294300.001	2.301	16.556	5.313	11.483	1.0108	573.933
41203.84713	295200.001	2.3	16.556	5.311	11.481	1.0107	573.931
41203.85755	296100.001	2.3	16.555	5.31	11.48	1.0106	573.93
41203.86796	297000.001	2.299	16.556	5.308	11.478	1.0104	573.928
41203.87838	297900.001	2.298	16.555	5.307	11.477	1.0103	573.927
41203.8888	298800.001	2.297	16.556	5.305	11.475	1.0101	573.925
41203.89921	299700.001	2.297	16.556	5.303	11.473	1.0099	573.923
41203.90963	300600.001	2.296	16.557	5.301	11.471	1.0098	573.921
41203.92005	301500.001	2.296	16.556	5.301	11.471	1.0098	573.921
41203.93046	302400.001	2.294	16.556	5.297	11.467	1.0094	573.917
41203.94088	303300.001	2.294	16.555	5.297	11.467	1.0094	573.917
41203.9513	304200.001	2.293	16.557	5.295	11.465	1.0092	573.915
41203.96171	305100.001	2.292	16.557	5.292	11.462	1.009	573.912
41203.97213	306000.001	2.291	16.557	5.291	11.461	1.0089	573.911
41203.98255	306900.001	2.29	16.557	5.288	11.458	1.0086	573.908
41203.99296	307800.001	2.289	16.557	5.286	11.456	1.0085	573.906
41204.00338	308700.001	2.289	16.556	5.285	11.455	1.0084	573.905
41204.0138	309600.001	2.289	16.556	5.284	11.454	1.0083	573.904
41204.02421	310500.001	2.288	16.556	5.283	11.453	1.0082	573.903
41204.03463	311400.001	2.288	16.555	5.282	11.452	1.0081	573.902
41204.04505	312300.001	2.287	16.554	5.282	11.452	1.0081	573.902
41204.05546	313200.001	2.286	16.555	5.279	11.449	1.0078	573.899
41204.06588	314100.001	2.286	16.556	5.279	11.449	1.0078	573.899
41204.0763	315000.001	2.286	16.557	5.278	11.448	1.0077	573.898
41204.08671	315900.001	2.286	16.556	5.278	11.448	1.0077	573.898
41204.09713	316800.001	2.285	16.555	5.275	11.445	1.0075	573.895
41204.10755	317700.001	2.284	16.555	5.274	11.444	1.0074	573.894
41204.11796	318600.001	2.283	16.56	5.272	11.442	1.0072	573.892
41204.12838	319500.001	2.283	16.558	5.272	11.442	1.0072	573.892
41204.1388	320400.001	2.282	16.556	5.27	11.44	1.007	573.89
41204.14921	321300.001	2.282	16.557	5.269	11.439	1.007	573.889
41204.15963	322200.001	2.282	16.558	5.268	11.438	1.0069	573.888
41204.17005	323100.001	2.281	16.558	5.267	11.437	1.0068	573.887
41204.18046	324000.001	2.281	16.557	5.267	11.437	1.0068	573.887
41204.19088	324900.001	2.281	16.555	5.267	11.437	1.0068	573.887
41204.2013	325800.001	2.281	16.555	5.267	11.437	1.0068	573.887
41204.21171	326700.001	2.28	16.557	5.265	11.435	1.0066	573.885
41204.22213	327600.001	2.28	16.556	5.264	11.434	1.0065	573.884
41204.23255	328500.001	2.279	16.559	5.263	11.433	1.0064	573.883
41204.24296	329400.001	2.279	16.556	5.262	11.432	1.0063	573.882
41204.25338	330300.001	2.278	16.557	5.26	11.43	1.0062	573.88
41204.2638	331200.001	2.277	16.555	5.258	11.428	1.006	573.878
41204.27421	332100.001	2.276	16.557	5.256	11.426	1.0058	573.876
41204.28463	333000.001	2.275	16.559	5.253	11.423	1.0055	573.873

Appendix E-3

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
41204.29505	333900.001	2.274	16.559	5.251	11.421	1.0054	573.871
41204.30546	334800.001	2.274	16.556	5.25	11.42	1.0053	573.87
41204.31588	335700.001	2.273	16.558	5.248	11.418	1.0051	573.868
41204.3263	336600.001	2.272	16.556	5.247	11.417	1.005	573.867
41204.33671	337500.001	2.272	16.562	5.246	11.416	1.0049	573.866
41204.34713	338400.001	2.271	16.556	5.243	11.413	1.0047	573.863
41204.35755	339300.001	2.27	16.558	5.242	11.412	1.0046	573.862
41204.36796	340200.001	2.27	16.556	5.241	11.411	1.0045	573.861
41204.37838	341100.001	2.269	16.556	5.239	11.409	1.0043	573.859
41204.3888	342000.001	2.269	16.558	5.238	11.408	1.0042	573.858
41204.39921	342900.001	2.268	16.56	5.236	11.406	1.004	573.856
41204.40963	343800.001	2.268	16.56	5.236	11.406	1.004	573.856
41204.42005	344700.001	2.267	16.556	5.235	11.405	1.004	573.855
41204.43046	345600.001	2.267	16.557	5.234	11.404	1.0039	573.854
41204.44088	346500.001	2.267	16.559	5.234	11.404	1.0039	573.854
41204.4513	347400.001	2.266	16.56	5.233	11.403	1.0038	573.853
41204.46171	348300.001	2.267	16.56	5.234	11.404	1.0039	573.854
41204.47213	349200.001	2.267	16.56	5.233	11.403	1.0038	573.853
41204.48255	350100.001	2.266	16.559	5.233	11.403	1.0038	573.853
41204.49296	351000.001	2.267	16.556	5.233	11.403	1.0038	573.853
41204.50338	351900.001	2.266	16.556	5.232	11.402	1.0037	573.852
41204.5138	352800.001	2.266	16.558	5.233	11.403	1.0038	573.853
41204.52421	353700.001	2.265	16.559	5.231	11.401	1.0036	573.851
41204.53463	354600.001	2.265	16.556	5.231	11.401	1.0036	573.851
41204.54505	355500.001	2.265	16.559	5.23	11.4	1.0035	573.85
41204.55546	356400.001	2.265	16.556	5.23	11.4	1.0035	573.85
41204.56588	357300.001	2.265	16.557	5.229	11.399	1.0034	573.849
41204.5763	358200.001	2.264	16.559	5.227	11.397	1.0033	573.847
41204.58671	359100.001	2.263	16.559	5.226	11.396	1.0032	573.846
41204.59713	360000.001	2.264	16.559	5.227	11.397	1.0033	573.847
41204.60755	360900.001	2.263	16.557	5.226	11.396	1.0032	573.846
41204.61796	361800.001	2.263	16.559	5.224	11.394	1.003	573.844
41204.62838	362700.001	2.263	16.56	5.225	11.395	1.0031	573.845
41204.6388	363600.001	2.262	16.562	5.223	11.393	1.0029	573.843
41204.64921	364500.001	2.262	16.556	5.222	11.392	1.0028	573.842
41204.65963	365400.001	2.261	16.557	5.221	11.391	1.0027	573.841
41204.67005	366300.001	2.261	16.558	5.222	11.392	1.0028	573.842
41204.68046	367200.001	2.26	16.558	5.219	11.389	1.0026	573.839
41204.69088	368100.001	2.261	16.556	5.22	11.39	1.0026	573.84
41204.7013	369000.001	2.26	16.557	5.219	11.389	1.0026	573.839
41204.71171	369900.001	2.26	16.558	5.218	11.388	1.0025	573.838
41204.72213	370800.001	2.26	16.56	5.217	11.387	1.0024	573.837
41204.73255	371700.001	2.259	16.559	5.217	11.387	1.0024	573.837
41204.74296	372600.001	2.259	16.557	5.216	11.386	1.0023	573.836
41204.75338	373500.001	2.259	16.556	5.215	11.385	1.0022	573.835
41204.7638	374400.001	2.258	16.56	5.214	11.384	1.0021	573.834
41204.77421	375300.001	2.258	16.557	5.214	11.384	1.0021	573.834
41204.78463	376200.001	2.258	16.559	5.213	11.383	1.002	573.833

Appendix E-3

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
41204.79505	377100.001	2.258	16.561	5.214	11.384	1.0021	573.834
41204.80546	378000.001	2.258	16.557	5.213	11.383	1.002	573.833
41204.81588	378900.001	2.258	16.557	5.213	11.383	1.002	573.833
41204.8263	379800.001	2.258	16.555	5.213	11.383	1.002	573.833
41204.83671	380700.001	2.258	16.557	5.213	11.383	1.002	573.833
41204.84713	381600.001	2.258	16.557	5.213	11.383	1.002	573.833
41204.85755	382500.001	2.258	16.557	5.214	11.384	1.0021	573.834
41204.86796	383400.001	2.258	16.557	5.213	11.383	1.002	573.833
41204.87838	384300.001	2.258	16.558	5.213	11.383	1.002	573.833
41204.8888	385200.001	2.257	16.559	5.212	11.382	1.0019	573.832
41204.89921	386100.001	2.258	16.558	5.213	11.383	1.002	573.833
41204.90963	387000.001	2.257	16.559	5.211	11.381	1.0018	573.831
41204.92005	387900.001	2.257	16.56	5.211	11.381	1.0018	573.831
41204.93046	388800.001	2.257	16.557	5.211	11.381	1.0018	573.831
41204.94088	389700.001	2.256	16.559	5.21	11.38	1.0018	573.83
41204.9513	390600.001	2.256	16.558	5.209	11.379	1.0017	573.829
41204.96171	391500.001	2.256	16.559	5.209	11.379	1.0017	573.829
41204.97213	392400.001	2.256	16.558	5.209	11.379	1.0017	573.829
41204.98255	393300.001	2.256	16.556	5.208	11.378	1.0016	573.828
41204.99296	394200.001	2.256	16.56	5.208	11.378	1.0016	573.828
41205.00338	395100.001	2.255	16.559	5.208	11.378	1.0016	573.828
41205.0138	396000.001	2.256	16.557	5.209	11.379	1.0017	573.829
41205.02421	396900.001	2.256	16.557	5.21	11.38	1.0018	573.83
41205.03463	397800.001	2.256	16.556	5.21	11.38	1.0018	573.83
41205.04505	398700.001	2.256	16.557	5.209	11.379	1.0017	573.829
41205.05546	399600.001	2.256	16.559	5.208	11.378	1.0016	573.828
41205.06588	400500.001	2.256	16.557	5.208	11.378	1.0016	573.828
41205.0763	401400.001	2.255	16.56	5.207	11.377	1.0015	573.827
41205.08671	402300.001	2.255	16.557	5.207	11.377	1.0015	573.827
41205.09713	403200.001	2.256	16.559	5.208	11.378	1.0016	573.828
41205.10755	404100.001	2.255	16.558	5.207	11.377	1.0015	573.827
41205.11796	405000.001	2.255	16.557	5.206	11.376	1.0014	573.826
41205.12838	405900.001	2.254	16.56	5.205	11.375	1.0013	573.825
41205.1388	406800.001	2.254	16.563	5.204	11.374	1.0012	573.824
41205.14921	407700.001	2.254	16.558	5.204	11.374	1.0012	573.824
41205.15963	408600.001	2.253	16.557	5.203	11.373	1.0011	573.823
41205.17005	409500.001	2.253	16.561	5.203	11.373	1.0011	573.823
41205.18046	410400.001	2.253	16.558	5.202	11.372	1.0011	573.822
41205.19088	411300.001	2.253	16.558	5.202	11.372	1.0011	573.822
41205.2013	412200.001	2.253	16.558	5.202	11.372	1.0011	573.822
41205.21171	413100.001	2.253	16.558	5.201	11.371	1.001	573.821
41205.22213	414000.001	2.252	16.561	5.2	11.37	1.0009	573.82
41205.23255	414900.001	2.252	16.562	5.2	11.37	1.0009	573.82
41205.24296	415800.001	2.252	16.559	5.199	11.369	1.0008	573.819
41205.25338	416700.001	2.251	16.56	5.198	11.368	1.0007	573.818
41205.2638	417600.001	2.251	16.558	5.198	11.368	1.0007	573.818
41205.27421	418500.001	2.251	16.559	5.197	11.367	1.0006	573.817
41205.28463	419400.001	2.251	16.56	5.197	11.367	1.0006	573.817

Appendix E-3

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
41205.29505	420300.001	2.25	16.56	5.196	11.366	1.0005	573.816
41205.30546	421200.001	2.25	16.56	5.195	11.365	1.0004	573.815
41205.31588	422100.001	2.25	16.559	5.196	11.366	1.0005	573.816
41205.3263	423000.001	2.25	16.561	5.195	11.365	1.0004	573.815
41205.33671	423900.001	2.25	16.561	5.194	11.364	1.0004	573.814
41205.34713	424800.001	2.25	16.559	5.195	11.365	1.0004	573.815
41205.35755	425700.001	2.25	16.56	5.194	11.364	1.0004	573.814
41205.36796	426600.001	2.25	16.559	5.195	11.365	1.0004	573.815
41205.37838	427500.001	2.249	16.561	5.194	11.364	1.0004	573.814
41205.3888	428400.001	2.249	16.56	5.192	11.362	1.0002	573.812
41205.39921	429300.001	2.249	16.56	5.193	11.363	1.0003	573.813
41205.40963	430200.001	2.249	16.558	5.193	11.363	1.0003	573.813
41205.42005	431100.001	2.249	16.561	5.192	11.362	1.0002	573.812
41205.43046	432000.001	2.249	16.556	5.193	11.363	1.0003	573.813
41205.44088	432900.001	2.249	16.56	5.192	11.362	1.0002	573.812
41205.4513	433800.001	2.248	16.557	5.191	11.361	1.0001	573.811
41205.46171	434700.001	2.248	16.559	5.191	11.361	1.0001	573.811
41205.47213	435600.001	2.248	16.559	5.19	11.36	1	573.81
41205.48255	436500.001	2.248	16.56	5.19	11.36	1	573.81
41205.49296	437400.001	2.248	16.559	5.19	11.36	1	573.81
41205.50338	438300.001	2.248	16.556	5.19	11.36	1	573.81
41205.5138	439200.001	2.29	16.558	5.288	11.458	1.0086	573.908
41205.52421	440100.001	2.388	16.532	5.515	11.685	1.0286	574.135
41205.53463	441000.001	2.389	16.541	5.516	11.686	1.0287	574.136
41205.54505	441900.001	2.386	16.543	5.51	11.68	1.0282	574.13
41205.55546	442800.001	2.385	16.551	5.506	11.676	1.0278	574.126
41205.56588	443700.001	2.382	16.551	5.499	11.669	1.0272	574.119
41205.5763	444600.001	2.378	16.553	5.492	11.662	1.0266	574.112
41205.58671	445500.001	2.39	16.55	5.519	11.689	1.029	574.139
41205.59713	446400.001	2.402	16.549	5.546	11.716	1.0313	574.166
41205.60755	447300.001	2.407	16.548	5.557	11.727	1.0323	574.177
41205.61796	448200.001	2.407	16.546	5.558	11.728	1.0324	574.178
41205.62838	449100.001	2.407	16.551	5.558	11.728	1.0324	574.178
41205.6388	450000.001	2.409	16.553	5.562	11.732	1.0327	574.182
41205.64921	450900.001	2.41	16.554	5.564	11.734	1.0329	574.184
41205.65963	451800.001	2.41	16.551	5.564	11.734	1.0329	574.184
41205.67005	452700.001	2.409	16.555	5.563	11.733	1.0328	574.183
41205.68046	453600.001	2.41	16.555	5.565	11.735	1.033	574.185
41205.69088	454500.001	2.41	16.554	5.565	11.735	1.033	574.185
41205.7013	455400.001	2.41	16.557	5.564	11.734	1.0329	574.184
41205.71171	456300.001	2.41	16.557	5.564	11.734	1.0329	574.184
41205.72213	457200.001	2.41	16.555	5.565	11.735	1.033	574.185
41205.73255	458100.001	2.411	16.556	5.566	11.736	1.0331	574.186
41205.74296	459000.001	2.41	16.557	5.565	11.735	1.033	574.185
41205.75338	459900.001	2.411	16.558	5.566	11.736	1.0331	574.186
41205.7638	460800.001	2.41	16.555	5.566	11.736	1.0331	574.186
41205.77421	461700.001	2.409	16.558	5.561	11.731	1.0327	574.181
41205.78463	462600.001	2.408	16.559	5.56	11.73	1.0326	574.18

Appendix E-3

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
41205.79505	463500.001	2.407	16.554	5.558	11.728	1.0324	574.178
41205.80546	464400.001	2.406	16.558	5.555	11.725	1.0321	574.175
41205.81588	465300.001	2.405	16.56	5.554	11.724	1.032	574.174
41205.8263	466200.001	2.404	16.555	5.551	11.721	1.0318	574.171
41205.83671	467100.001	2.403	16.558	5.548	11.718	1.0315	574.168
41205.84713	468000.001	2.4	16.558	5.543	11.713	1.0311	574.163
41205.85755	468900.001	2.398	16.558	5.536	11.706	1.0305	574.156
41205.86796	469800.001	2.395	16.558	5.53	11.7	1.0299	574.15
41205.87838	470700.001	2.391	16.561	5.521	11.691	1.0291	574.141
41205.8888	471600.001	2.389	16.562	5.516	11.686	1.0287	574.136
41205.89921	472500.001	2.386	16.56	5.51	11.68	1.0282	574.13
41205.90963	473400.001	2.383	16.562	5.502	11.672	1.0275	574.122
41205.92005	474300.001	2.381	16.56	5.497	11.667	1.027	574.117
41205.93046	475200.001	2.378	16.56	5.491	11.661	1.0265	574.111
41205.94088	476100.001	2.376	16.562	5.486	11.656	1.0261	574.106
41205.9513	477000.001	2.375	16.561	5.483	11.653	1.0258	574.103
41205.96171	477900.001	2.373	16.562	5.48	11.65	1.0255	574.1
41205.97213	478800.001	2.373	16.56	5.48	11.65	1.0255	574.1
41205.98255	479700.001	2.372	16.561	5.477	11.647	1.0253	574.097
41205.99296	480600.001	2.372	16.562	5.476	11.646	1.0252	574.096
41206.00338	481500.001	2.37	16.563	5.473	11.643	1.0249	574.093
41206.0138	482400.001	2.37	16.56	5.472	11.642	1.0248	574.092
41206.02421	483300.001	2.369	16.564	5.471	11.641	1.0247	574.091
41206.03463	484200.001	2.369	16.558	5.469	11.639	1.0246	574.089
41206.04505	485100.001	2.368	16.561	5.467	11.637	1.0244	574.087
41206.05546	486000.001	2.367	16.559	5.466	11.636	1.0243	574.086
41206.06588	486900.001	2.367	16.562	5.465	11.635	1.0242	574.085
41206.0763	487800.001	2.366	16.559	5.462	11.632	1.0239	574.082
41206.08671	488700.001	2.365	16.557	5.461	11.631	1.0239	574.081
41206.09713	489600.001	2.364	16.558	5.459	11.629	1.0237	574.079
41206.10755	490500.001	2.364	16.563	5.459	11.629	1.0237	574.079
41206.11796	491400.001	2.364	16.561	5.457	11.627	1.0235	574.077
41206.12838	492300.001	2.363	16.563	5.456	11.626	1.0234	574.076
41206.1388	493200.001	2.363	16.562	5.456	11.626	1.0234	574.076
41206.14921	494100.001	2.362	16.564	5.454	11.624	1.0232	574.074
41206.15963	495000.001	2.363	16.563	5.455	11.625	1.0233	574.075
41206.17005	495900.001	2.362	16.562	5.453	11.623	1.0232	574.073
41206.18046	496800.001	2.361	16.562	5.451	11.621	1.023	574.071
41206.19088	497700.001	2.362	16.562	5.453	11.623	1.0232	574.073
41206.2013	498600.001	2.361	16.561	5.451	11.621	1.023	574.071
41206.21171	499500.001	2.362	16.564	5.453	11.623	1.0232	574.073
41206.22213	500400.001	2.362	16.56	5.453	11.623	1.0232	574.073
41206.23255	501300.001	2.362	16.562	5.454	11.624	1.0232	574.074
41206.24296	502200.001	2.362	16.56	5.454	11.624	1.0232	574.074
41206.25338	503100.001	2.362	16.559	5.454	11.624	1.0232	574.074
41206.2638	504000.001	2.362	16.562	5.453	11.623	1.0232	574.073
41206.27421	504900.001	2.361	16.562	5.452	11.622	1.0231	574.072
41206.28463	505800.001	2.361	16.559	5.452	11.622	1.0231	574.072

Appendix E-3

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
41206.29505	506700.001	2.361	16.56	5.451	11.621	1.023	574.071
41206.30546	507600.001	2.36	16.564	5.45	11.62	1.0229	574.07
41206.31588	508500.001	2.361	16.564	5.451	11.621	1.023	574.071
41206.3263	509400.001	2.36	16.561	5.45	11.62	1.0229	574.07
41206.33671	510300.001	2.36	16.563	5.45	11.62	1.0229	574.07
41206.34713	511200.001	2.36	16.561	5.449	11.619	1.0228	574.069
41206.35755	512100.001	2.36	16.563	5.449	11.619	1.0228	574.069
41206.36796	513000.001	2.36	16.562	5.448	11.618	1.0227	574.068
41206.37838	513900.001	2.359	16.56	5.448	11.618	1.0227	574.068
41206.3888	514800.001	2.359	16.561	5.448	11.618	1.0227	574.068
41206.39921	515700.001	2.359	16.562	5.448	11.618	1.0227	574.068
41206.40963	516600.001	2.359	16.566	5.447	11.617	1.0226	574.067
41206.42005	517500.001	2.359	16.564	5.447	11.617	1.0226	574.067
41206.43046	518400.001	2.359	16.566	5.446	11.616	1.0225	574.066
41206.44088	519300.001	2.359	16.563	5.446	11.616	1.0225	574.066
41206.4513	520200.001	2.359	16.564	5.446	11.616	1.0225	574.066
41206.46171	521100.001	2.358	16.562	5.446	11.616	1.0225	574.066
41206.47213	522000.001	2.358	16.561	5.446	11.616	1.0225	574.066
41206.48255	522900.001	2.359	16.563	5.447	11.617	1.0226	574.067
41206.49296	523800.001	2.359	16.565	5.447	11.617	1.0226	574.067
41206.50338	524700.001	2.359	16.562	5.447	11.617	1.0226	574.067
41206.5138	525600.001	2.36	16.563	5.448	11.618	1.0227	574.068
41206.52421	526500.001	2.36	16.563	5.449	11.619	1.0228	574.069
41206.53463	527400.001	2.36	16.564	5.448	11.618	1.0227	574.068
41206.54505	528300.001	2.36	16.564	5.448	11.618	1.0227	574.068
41206.55546	529200.001	2.359	16.56	5.448	11.618	1.0227	574.068
41206.56588	530100.001	2.36	16.563	5.448	11.618	1.0227	574.068
41206.5763	531000.001	2.359	16.563	5.448	11.618	1.0227	574.068
41206.58671	531900.001	2.359	16.563	5.447	11.617	1.0226	574.067
41206.59713	532800.001	2.359	16.561	5.447	11.617	1.0226	574.067
41206.60755	533700.001	2.359	16.564	5.447	11.617	1.0226	574.067
41206.61796	534600.001	2.358	16.566	5.445	11.615	1.0224	574.065
41206.62838	535500.001	2.358	16.564	5.445	11.615	1.0224	574.065
41206.6388	536400.001	2.358	16.564	5.444	11.614	1.0224	574.064
41206.64921	537300.001	2.358	16.563	5.444	11.614	1.0224	574.064
41206.65963	538200.001	2.358	16.564	5.445	11.615	1.0224	574.065
41206.67005	539100.001	2.358	16.566	5.444	11.614	1.0224	574.064
41206.68046	540000.001	2.357	16.566	5.443	11.613	1.0223	574.063
41206.69088	540900.001	2.357	16.564	5.443	11.613	1.0223	574.063
41206.7013	541800.001	2.357	16.562	5.442	11.612	1.0222	574.062
41206.71171	542700.001	2.356	16.567	5.441	11.611	1.0221	574.061
41206.72213	543600.001	2.357	16.567	5.441	11.611	1.0221	574.061
41206.73255	544500.001	2.356	16.571	5.44	11.61	1.022	574.06
41206.74296	545400.001	2.356	16.572	5.439	11.609	1.0219	574.059
41206.75338	546300.001	2.356	16.572	5.439	11.609	1.0219	574.059
41206.7638	547200.001	2.355	16.571	5.438	11.608	1.0218	574.058
41206.77421	548100.001	2.356	16.575	5.439	11.609	1.0219	574.059
41206.78463	549000.001	2.356	16.575	5.439	11.609	1.0219	574.059

Appendix E-3

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
41206.79505	549900.001	2.355	16.574	5.438	11.608	1.0218	574.058
41206.80546	550800.001	2.355	16.577	5.438	11.608	1.0218	574.058
41206.81588	551700.001	2.355	16.579	5.437	11.607	1.0217	574.057
41206.8263	552600.001	2.355	16.577	5.437	11.607	1.0217	574.057
41206.83671	553500.001	2.355	16.579	5.437	11.607	1.0217	574.057
41206.84713	554400.001	2.354	16.58	5.436	11.606	1.0217	574.056
41206.85755	555300.001	2.354	16.582	5.436	11.606	1.0217	574.056
41206.86796	556200.001	2.354	16.579	5.436	11.606	1.0217	574.056
41206.87838	557100.001	2.354	16.578	5.435	11.605	1.0216	574.055
41206.8888	558000.001	2.353	16.579	5.434	11.604	1.0215	574.054
41206.89921	558900.001	2.353	16.583	5.434	11.604	1.0215	574.054
41206.90963	559800.001	2.353	16.58	5.433	11.603	1.0214	574.053
41206.92005	560700.001	2.353	16.58	5.432	11.602	1.0213	574.052
41206.93046	561600.001	2.353	16.582	5.433	11.603	1.0214	574.053
41206.94088	562500.001	2.353	16.583	5.433	11.603	1.0214	574.053
41206.9513	563400.001	2.353	16.58	5.432	11.602	1.0213	574.052
41206.96171	564300.001	2.353	16.585	5.433	11.603	1.0214	574.053
41206.97213	565200.001	2.352	16.581	5.432	11.602	1.0213	574.052
41206.98255	566100.001	2.352	16.582	5.432	11.602	1.0213	574.052
41206.99296	567000.001	2.352	16.582	5.432	11.602	1.0213	574.052
41207.00338	567900.001	2.353	16.58	5.432	11.602	1.0213	574.052
41207.0138	568800.001	2.353	16.584	5.432	11.602	1.0213	574.052
41207.02421	569700.001	2.352	16.588	5.431	11.601	1.0212	574.051
41207.03463	570600.001	2.352	16.585	5.43	11.6	1.0211	574.05
41207.04505	571500.001	2.352	16.583	5.431	11.601	1.0212	574.051
41207.05546	572400.001	2.352	16.582	5.431	11.601	1.0212	574.051
41207.06588	573300.001	2.352	16.588	5.431	11.601	1.0212	574.051
41207.0763	574200.001	2.352	16.585	5.43	11.6	1.0211	574.05
41207.08671	575100.001	2.352	16.589	5.43	11.6	1.0211	574.05
41207.09713	576000.001	2.352	16.584	5.43	11.6	1.0211	574.05
41207.10755	576900.001	2.352	16.585	5.43	11.6	1.0211	574.05
41207.11796	577800.001	2.352	16.585	5.43	11.6	1.0211	574.05
41207.12838	578700.001	2.352	16.583	5.43	11.6	1.0211	574.05
41207.1388	579600.001	2.351	16.582	5.429	11.599	1.021	574.049
41207.14921	580500.001	2.352	16.587	5.43	11.6	1.0211	574.05
41207.15963	581400.001	2.351	16.586	5.428	11.598	1.021	574.048
41207.17005	582300.001	2.351	16.585	5.428	11.598	1.021	574.048
41207.18046	583200.001	2.351	16.583	5.428	11.598	1.021	574.048
41207.19088	584100.001	2.35	16.585	5.427	11.597	1.0209	574.047
41207.2013	585000.001	2.35	16.581	5.427	11.597	1.0209	574.047
41207.21171	585900.001	2.35	16.581	5.427	11.597	1.0209	574.047
41207.22213	586800.001	2.35	16.583	5.426	11.596	1.0208	574.046
41207.23255	587700.001	2.349	16.586	5.424	11.594	1.0206	574.044
41207.24296	588600.001	2.349	16.588	5.424	11.594	1.0206	574.044
41207.25338	589500.001	2.349	16.583	5.425	11.595	1.0207	574.045
41207.2638	590400.001	2.349	16.585	5.424	11.594	1.0206	574.044
41207.27421	591300.001	2.348	16.588	5.422	11.592	1.0204	574.042
41207.28463	592200.001	2.348	16.59	5.422	11.592	1.0204	574.042

Appendix E-3

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
41207.29505	593100.001	2.348	16.59	5.422	11.592	1.0204	574.042
41207.30546	594000.001	2.348	16.59	5.422	11.592	1.0204	574.042
41207.31588	594900.001	2.348	16.592	5.421	11.591	1.0203	574.041
41207.3263	595800.001	2.348	16.593	5.421	11.591	1.0203	574.041
41207.33671	596700.001	2.348	16.591	5.42	11.59	1.0202	574.04
41207.34713	597600.001	2.347	16.589	5.42	11.59	1.0202	574.04
41207.35755	598500.001	2.348	16.588	5.421	11.591	1.0203	574.041
41207.36796	599400.001	2.347	16.591	5.42	11.59	1.0202	574.04
41207.37838	600300.001	2.347	16.592	5.42	11.59	1.0202	574.04
41207.3888	601200.001	2.347	16.593	5.42	11.59	1.0202	574.04
41207.39921	602100.001	2.347	16.589	5.419	11.589	1.0202	574.039
41207.40963	603000.001	2.347	16.588	5.42	11.59	1.0202	574.04
41207.42005	603900.001	2.347	16.588	5.419	11.589	1.0202	574.039
41207.43046	604800.001	2.347	16.588	5.419	11.589	1.0202	574.039
41207.44088	605700.001	2.347	16.591	5.418	11.588	1.0201	574.038
41207.4513	606600.001	2.347	16.592	5.419	11.589	1.0202	574.039
41207.46171	607500.001	2.347	16.594	5.418	11.588	1.0201	574.038
41207.47213	608400.001	2.346	16.596	5.416	11.586	1.0199	574.036
41207.48255	609300.001	2.347	16.588	5.42	11.59	1.0202	574.04
41207.49296	610200.001	2.348	16.586	5.421	11.591	1.0203	574.041
<u>Constant Rate Test</u>							
41207.54167	0	2.348	16.579	5.421	11.591	1.0203	574.041
41207.54167	0.251	2.348	16.604	5.422	11.592	1.0204	574.042
41207.54167	0.5	2.348	16.613	5.42	11.59	1.0202	574.04
41207.54167	0.75	2.348	16.622	5.421	11.591	1.0203	574.041
41207.54168	1.001	2.348	16.629	5.421	11.591	1.0203	574.041
41207.54168	1.251	2.347	16.633	5.42	11.59	1.0202	574.04
41207.54168	1.5	2.347	16.639	5.42	11.59	1.0202	574.04
41207.54168	1.75	2.347	16.643	5.419	11.589	1.0202	574.039
41207.54169	2.001	2.347	16.65	5.419	11.589	1.0202	574.039
41207.54169	2.251	2.347	16.651	5.42	11.59	1.0202	574.04
41207.54169	2.5	2.347	16.653	5.42	11.59	1.0202	574.04
41207.54169	2.75	2.347	16.655	5.42	11.59	1.0202	574.04
41207.5417	3.001	2.347	16.657	5.42	11.59	1.0202	574.04
41207.5417	3.251	2.347	16.661	5.419	11.589	1.0202	574.039
41207.5417	3.5	2.347	16.661	5.419	11.589	1.0202	574.039
41207.5417	3.75	2.348	16.662	5.421	11.591	1.0203	574.041
41207.54171	4.001	2.347	16.665	5.419	11.589	1.0202	574.039
41207.54171	4.251	2.347	16.666	5.419	11.589	1.0202	574.039
41207.54171	4.5	2.347	16.668	5.419	11.589	1.0202	574.039
41207.54171	4.75	2.347	16.668	5.419	11.589	1.0202	574.039
41207.54172	5.001	2.347	16.668	5.419	11.589	1.0202	574.039
41207.54172	5.251	2.347	16.671	5.42	11.59	1.0202	574.04
41207.54172	5.5	2.347	16.673	5.419	11.589	1.0202	574.039
41207.54172	5.75	2.347	16.672	5.419	11.589	1.0202	574.039
41207.54174	6.001	2.347	16.673	5.419	11.589	1.0202	574.039
41207.54174	6.36	2.347	16.667	5.419	11.589	1.0202	574.039
41207.54174	6.72	2.347	16.66	5.42	11.59	1.0202	574.04

Appendix E-3

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
41207.54175	7.14	2.347	16.655	5.42	11.59	1.0202	574.04
41207.54175	7.56	2.347	16.65	5.42	11.59	1.0202	574.04
41207.54176	7.98	2.347	16.649	5.42	11.59	1.0202	574.04
41207.54176	8.46	2.347	16.641	5.42	11.59	1.0202	574.04
41207.54177	9	2.348	16.639	5.42	11.59	1.0202	574.04
41207.54177	9.48	2.348	16.642	5.421	11.591	1.0203	574.041
41207.54178	10.08	2.347	16.638	5.42	11.59	1.0202	574.04
41207.54178	10.68	2.347	16.637	5.42	11.59	1.0202	574.04
41207.54179	11.28	2.348	16.633	5.42	11.59	1.0202	574.04
41207.54181	11.94	2.347	16.631	5.42	11.59	1.0202	574.04
41207.54181	12.66	2.348	16.629	5.421	11.591	1.0203	574.041
41207.54182	13.44	2.347	16.627	5.42	11.59	1.0202	574.04
41207.54183	14.22	2.348	16.626	5.421	11.591	1.0203	574.041
41207.54184	15.06	2.347	16.628	5.42	11.59	1.0202	574.04
41207.54185	15.96	2.348	16.627	5.421	11.591	1.0203	574.041
41207.54185	16.92	2.348	16.622	5.421	11.591	1.0203	574.041
41207.54186	17.88	2.348	16.624	5.421	11.591	1.0203	574.041
41207.54189	18.96	2.348	16.625	5.421	11.591	1.0203	574.041
41207.5419	20.1	2.348	16.62	5.422	11.592	1.0204	574.042
41207.54191	21.3	2.348	16.62	5.422	11.592	1.0204	574.042
41207.54192	22.56	2.348	16.614	5.422	11.592	1.0204	574.042
41207.54193	23.88	2.348	16.616	5.422	11.592	1.0204	574.042
41207.54196	25.32	2.348	16.615	5.422	11.592	1.0204	574.042
41207.54197	26.82	2.348	16.615	5.421	11.591	1.0203	574.041
41207.54199	28.38	2.348	16.614	5.422	11.592	1.0204	574.042
41207.54201	30.06	2.348	16.614	5.422	11.592	1.0204	574.042
41207.54203	31.86	2.348	16.613	5.422	11.592	1.0204	574.042
41207.54205	33.72	2.348	16.613	5.422	11.592	1.0204	574.042
41207.54207	35.76	2.348	16.61	5.422	11.592	1.0204	574.042
41207.54209	37.86	2.348	16.609	5.422	11.592	1.0204	574.042
41207.54213	40.08	2.348	16.609	5.421	11.591	1.0203	574.041
41207.54215	42.48	2.348	16.609	5.422	11.592	1.0204	574.042
41207.54219	45	2.348	16.606	5.422	11.592	1.0204	574.042
41207.54221	47.64	2.348	16.607	5.422	11.592	1.0204	574.042
41207.54225	50.46	2.348	16.603	5.422	11.592	1.0204	574.042
41207.54228	53.46	2.348	16.606	5.422	11.592	1.0204	574.042
41207.54231	56.64	2.348	16.602	5.422	11.592	1.0204	574.042
41207.54236	60	2.349	16.604	5.423	11.593	1.0205	574.043
41207.5424	63.6	2.348	16.604	5.422	11.592	1.0204	574.042
41207.54244	67.2	2.348	16.604	5.422	11.592	1.0204	574.042
41207.54249	71.4	2.348	16.601	5.422	11.592	1.0204	574.042
41207.54253	75.6	2.348	16.601	5.422	11.592	1.0204	574.042
41207.54258	79.8	2.348	16.601	5.422	11.592	1.0204	574.042
41207.54264	84.6	2.348	16.598	5.422	11.592	1.0204	574.042
41207.54271	90	2.348	16.595	5.422	11.592	1.0204	574.042
41207.54275	94.8	2.349	16.597	5.423	11.593	1.0205	574.043
41207.54282	100.8	2.348	16.597	5.422	11.592	1.0204	574.042
41207.54289	106.8	2.348	16.595	5.421	11.591	1.0203	574.041

Appendix E-3

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
41207.54296	112.8	2.348	16.596	5.422	11.592	1.0204	574.042
41207.54304	119.4	2.348	16.595	5.422	11.592	1.0204	574.042
41207.54313	126.6	2.348	16.593	5.423	11.593	1.0205	574.043
41207.54322	134.4	2.348	16.591	5.422	11.592	1.0204	574.042
41207.54331	142.2	2.348	16.594	5.422	11.592	1.0204	574.042
41207.5434	150.6	2.349	16.591	5.423	11.593	1.0205	574.043
41207.54351	159.6	2.348	16.591	5.422	11.592	1.0204	574.042
41207.54362	169.2	2.349	16.592	5.423	11.593	1.0205	574.043
41207.54373	178.8	2.349	16.59	5.423	11.593	1.0205	574.043
41207.54385	189.6	2.348	16.591	5.422	11.592	1.0204	574.042
41207.54399	201	2.348	16.59	5.422	11.592	1.0204	574.042
41207.54413	213	2.348	16.59	5.422	11.592	1.0204	574.042
41207.54427	225.6	2.348	16.585	5.422	11.592	1.0204	574.042
41207.54442	238.8	2.348	16.587	5.421	11.591	1.0203	574.041
41207.54459	253.2	2.348	16.582	5.422	11.592	1.0204	574.042
41207.54477	268.2	2.349	16.586	5.423	11.593	1.0205	574.043
41207.54494	283.8	2.348	16.586	5.422	11.592	1.0204	574.042
41207.54514	300.6	2.349	16.583	5.423	11.593	1.0205	574.043
41207.54535	318.6	2.349	16.588	5.423	11.593	1.0205	574.043
41207.54557	337.2	2.348	16.583	5.422	11.592	1.0204	574.042
41207.5458	357.6	2.348	16.583	5.423	11.593	1.0205	574.043
41207.54604	378.6	2.348	16.584	5.422	11.592	1.0204	574.042
41207.5463	400.8	2.348	16.589	5.422	11.592	1.0204	574.042
41207.54657	424.8	2.349	16.587	5.423	11.593	1.0205	574.043
41207.54688	450	2.348	16.583	5.422	11.592	1.0204	574.042
41207.54718	476.4	2.348	16.584	5.422	11.592	1.0204	574.042
41207.5475	504.6	2.348	16.585	5.422	11.592	1.0204	574.042
41207.54785	534.6	2.348	16.584	5.422	11.592	1.0204	574.042
41207.54822	566.4	2.348	16.586	5.422	11.592	1.0204	574.042
41207.54861	600	2.348	16.582	5.422	11.592	1.0204	574.042
41207.54903	636	2.348	16.585	5.421	11.591	1.0203	574.041
41207.54944	672	2.348	16.58	5.422	11.592	1.0204	574.042
41207.54993	714	2.348	16.586	5.422	11.592	1.0204	574.042
41207.55042	756	2.348	16.582	5.422	11.592	1.0204	574.042
41207.5509	798	2.349	16.586	5.423	11.593	1.0205	574.043
41207.55146	846	2.348	16.584	5.422	11.592	1.0204	574.042
41207.55208	900	2.348	16.583	5.422	11.592	1.0204	574.042
41207.55264	948	2.348	16.58	5.421	11.591	1.0203	574.041
41207.55333	1008	2.348	16.585	5.422	11.592	1.0204	574.042
41207.55403	1068	2.348	16.585	5.422	11.592	1.0204	574.042
41207.55472	1128	2.348	16.581	5.422	11.592	1.0204	574.042
41207.55542	1188	2.348	16.585	5.422	11.592	1.0204	574.042
41207.55611	1248	2.348	16.581	5.421	11.591	1.0203	574.041
41207.55681	1308	2.348	16.581	5.422	11.592	1.0204	574.042
41207.5575	1368	2.348	16.58	5.421	11.591	1.0203	574.041
41207.55819	1428	2.348	16.584	5.422	11.592	1.0204	574.042
41207.55889	1488	2.348	16.582	5.422	11.592	1.0204	574.042
41207.55958	1548	2.348	16.585	5.422	11.592	1.0204	574.042

Appendix E-3

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
41207.56028	1608	2.348	16.582	5.422	11.592	1.0204	574.042
41207.56097	1668	2.348	16.582	5.421	11.591	1.0203	574.041
41207.56167	1728	2.348	16.585	5.422	11.592	1.0204	574.042
41207.56236	1788	2.348	16.586	5.422	11.592	1.0204	574.042
41207.56306	1848	2.348	16.585	5.421	11.591	1.0203	574.041
41207.56375	1908	2.348	16.583	5.421	11.591	1.0203	574.041
41207.56444	1968	2.348	16.585	5.422	11.592	1.0204	574.042
41207.56514	2028	2.348	16.585	5.422	11.592	1.0204	574.042
41207.56583	2088	2.348	16.586	5.422	11.592	1.0204	574.042
41207.56653	2148	2.348	16.582	5.421	11.591	1.0203	574.041
41207.56722	2208	2.348	16.587	5.422	11.592	1.0204	574.042
41207.56792	2268	2.348	16.586	5.421	11.591	1.0203	574.041
41207.56861	2328	2.348	16.587	5.422	11.592	1.0204	574.042
41207.56931	2388	2.348	16.59	5.421	11.591	1.0203	574.041
41207.57	2448	2.348	16.589	5.422	11.592	1.0204	574.042
41207.57069	2508	2.348	16.588	5.421	11.591	1.0203	574.041
41207.57139	2568	2.348	16.589	5.422	11.592	1.0204	574.042
41207.57208	2628	2.348	16.592	5.422	11.592	1.0204	574.042
41207.57347	2748	2.348	16.588	5.421	11.591	1.0203	574.041
41207.57417	2808	2.348	16.59	5.421	11.591	1.0203	574.041
41207.57486	2868	2.348	16.59	5.422	11.592	1.0204	574.042
41207.57556	2928	2.348	16.59	5.421	11.591	1.0203	574.041
41207.57625	2988	2.348	16.591	5.421	11.591	1.0203	574.041
41207.57694	3048	2.348	16.591	5.421	11.591	1.0203	574.041
41207.57764	3108	2.348	16.589	5.42	11.59	1.0202	574.04
41207.57833	3168	2.348	16.586	5.421	11.591	1.0203	574.041
41207.57903	3228	2.348	16.591	5.421	11.591	1.0203	574.041
41207.57972	3288	2.348	16.591	5.422	11.592	1.0204	574.042
41207.58042	3348	2.348	16.589	5.422	11.592	1.0204	574.042
41207.58111	3408	2.348	16.587	5.421	11.591	1.0203	574.041
41207.58181	3468	2.348	16.587	5.421	11.591	1.0203	574.041
41207.5825	3528	2.348	16.593	5.422	11.592	1.0204	574.042
41207.58319	3588	2.348	16.59	5.422	11.592	1.0204	574.042
41207.58389	3648	2.348	16.592	5.422	11.592	1.0204	574.042
41207.58458	3708	2.348	16.59	5.422	11.592	1.0204	574.042
41207.58528	3768	2.348	16.589	5.422	11.592	1.0204	574.042
41207.58597	3828	2.348	16.59	5.421	11.591	1.0203	574.041
41207.58667	3888	2.348	16.588	5.42	11.59	1.0202	574.04
41207.58736	3948	2.348	16.588	5.422	11.592	1.0204	574.042
41207.58806	4008	2.348	16.59	5.421	11.591	1.0203	574.041
41207.58875	4068	2.348	16.589	5.422	11.592	1.0204	574.042
41207.58944	4128	2.348	16.591	5.421	11.591	1.0203	574.041
41207.59014	4188	2.348	16.593	5.421	11.591	1.0203	574.041
41207.59083	4248	2.348	16.591	5.421	11.591	1.0203	574.041
41207.59153	4308	2.348	16.593	5.421	11.591	1.0203	574.041
41207.59222	4368	2.348	16.589	5.422	11.592	1.0204	574.042
41207.59292	4428	2.348	16.593	5.422	11.592	1.0204	574.042
41207.59361	4488	2.348	16.588	5.422	11.592	1.0204	574.042

Appendix E-3

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
41207.59431	4548	2.348	16.59	5.422	11.592	1.0204	574.042
41207.595	4608	2.348	16.592	5.422	11.592	1.0204	574.042
41207.59569	4668	2.348	16.589	5.421	11.591	1.0203	574.041
41207.59639	4728	2.348	16.593	5.422	11.592	1.0204	574.042
41207.59708	4788	2.348	16.591	5.421	11.591	1.0203	574.041
41207.59778	4848	2.348	16.592	5.421	11.591	1.0203	574.041
41207.59847	4908	2.348	16.592	5.421	11.591	1.0203	574.041
41207.59917	4968	2.348	16.587	5.421	11.591	1.0203	574.041
41207.59986	5028	2.357	16.59	5.441	11.611	1.0221	574.061
41207.60056	5088	2.356	16.591	5.441	11.611	1.0221	574.061
41207.60125	5148	2.356	16.589	5.441	11.611	1.0221	574.061
41207.60194	5208	2.357	16.587	5.441	11.611	1.0221	574.061
41207.60264	5268	2.356	16.588	5.441	11.611	1.0221	574.061
41207.60333	5328	2.356	16.587	5.441	11.611	1.0221	574.061
41207.60403	5388	2.357	16.588	5.441	11.611	1.0221	574.061
41207.60472	5448	2.357	16.59	5.442	11.612	1.0222	574.062
41207.60542	5508	2.356	16.59	5.441	11.611	1.0221	574.061
41207.60611	5568	2.357	16.589	5.442	11.612	1.0222	574.062
41207.60681	5628	2.357	16.587	5.441	11.611	1.0221	574.061
41207.6075	5688	2.356	16.59	5.441	11.611	1.0221	574.061
41207.60819	5748	2.356	16.586	5.441	11.611	1.0221	574.061
41207.60889	5808	2.356	16.588	5.441	11.611	1.0221	574.061
41207.60958	5868	2.356	16.589	5.441	11.611	1.0221	574.061
41207.61028	5928	2.356	16.586	5.441	11.611	1.0221	574.061
41207.61097	5988	2.357	16.583	5.441	11.611	1.0221	574.061
41207.61167	6048	2.356	16.585	5.44	11.61	1.022	574.06
41207.61236	6108	2.356	16.586	5.44	11.61	1.022	574.06
41207.61306	6168	2.356	16.585	5.44	11.61	1.022	574.06
41207.61375	6228	2.356	16.584	5.439	11.609	1.0219	574.059
41207.61444	6288	2.356	16.586	5.439	11.609	1.0219	574.059
41207.61514	6348	2.355	16.587	5.438	11.608	1.0218	574.058
41207.61583	6408	2.355	16.583	5.437	11.607	1.0217	574.057
41207.61653	6468	2.355	16.586	5.437	11.607	1.0217	574.057
41207.61722	6528	2.355	16.581	5.437	11.607	1.0217	574.057
41207.61792	6588	2.355	16.584	5.437	11.607	1.0217	574.057
41207.61861	6648	2.355	16.586	5.437	11.607	1.0217	574.057
41207.61931	6708	2.355	16.583	5.437	11.607	1.0217	574.057
41207.62	6768	2.354	16.585	5.436	11.606	1.0217	574.056
41207.62069	6828	2.354	16.587	5.436	11.606	1.0217	574.056
41207.62139	6888	2.354	16.588	5.436	11.606	1.0217	574.056
41207.62208	6948	2.354	16.586	5.436	11.606	1.0217	574.056
41207.62278	7008	2.354	16.587	5.435	11.605	1.0216	574.055
41207.62347	7068	2.354	16.587	5.435	11.605	1.0216	574.055
41207.62417	7128	2.354	16.585	5.434	11.604	1.0215	574.054
41207.62486	7188	2.354	16.586	5.434	11.604	1.0215	574.054
41207.62556	7248	2.354	16.585	5.435	11.605	1.0216	574.055
41207.62625	7308	2.353	16.585	5.434	11.604	1.0215	574.054
41207.62694	7368	2.354	16.585	5.435	11.605	1.0216	574.055

Appendix E-3

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
41207.62764	7428	2.353	16.586	5.434	11.604	1.0215	574.054
41207.62833	7488	2.354	16.586	5.434	11.604	1.0215	574.054
41207.62903	7548	2.354	16.583	5.434	11.604	1.0215	574.054
41207.62972	7608	2.353	16.587	5.434	11.604	1.0215	574.054
41207.63042	7668	2.353	16.586	5.434	11.604	1.0215	574.054
41207.63111	7728	2.354	16.584	5.434	11.604	1.0215	574.054
41207.63181	7788	2.353	16.583	5.433	11.603	1.0214	574.053
41207.6325	7848	2.354	16.585	5.434	11.604	1.0215	574.054
41207.63319	7908	2.353	16.585	5.434	11.604	1.0215	574.054
41207.63389	7968	2.353	16.585	5.433	11.603	1.0214	574.053
41207.63458	8028	2.353	16.587	5.434	11.604	1.0215	574.054
41207.63528	8088	2.353	16.585	5.434	11.604	1.0215	574.054
41207.63597	8148	2.353	16.583	5.433	11.603	1.0214	574.053
41207.63667	8208	2.353	16.582	5.434	11.604	1.0215	574.054
41207.63736	8268	2.353	16.584	5.434	11.604	1.0215	574.054
41207.63806	8328	2.353	16.581	5.433	11.603	1.0214	574.053
41207.63875	8388	2.353	16.582	5.433	11.603	1.0214	574.053
41207.63944	8448	2.353	16.583	5.433	11.603	1.0214	574.053
41207.64014	8508	2.353	16.585	5.433	11.603	1.0214	574.053
41207.64083	8568	2.353	16.581	5.433	11.603	1.0214	574.053
41207.64153	8628	2.353	16.581	5.432	11.602	1.0213	574.052
41207.64222	8688	2.353	16.58	5.433	11.603	1.0214	574.053
41207.64292	8748	2.353	16.581	5.433	11.603	1.0214	574.053
41207.64361	8808	2.353	16.583	5.433	11.603	1.0214	574.053
41207.64431	8868	2.353	16.582	5.432	11.602	1.0213	574.052
41207.645	8928	2.353	16.582	5.433	11.603	1.0214	574.053
41207.64569	8988	2.353	16.58	5.433	11.603	1.0214	574.053
41207.64639	9048	2.353	16.578	5.433	11.603	1.0214	574.053
41207.64708	9108	2.353	16.582	5.433	11.603	1.0214	574.053
41207.64778	9168	2.353	16.583	5.433	11.603	1.0214	574.053
41207.64847	9228	2.353	16.58	5.434	11.604	1.0215	574.054
41207.64917	9288	2.353	16.581	5.432	11.602	1.0213	574.052
41207.64986	9348	2.353	16.58	5.433	11.603	1.0214	574.053
41207.65056	9408	2.353	16.58	5.433	11.603	1.0214	574.053
41207.65125	9468	2.353	16.582	5.433	11.603	1.0214	574.053
41207.65194	9528	2.353	16.579	5.433	11.603	1.0214	574.053
41207.65264	9588	2.353	16.581	5.433	11.603	1.0214	574.053
41207.65333	9648	2.353	16.584	5.433	11.603	1.0214	574.053
41207.65403	9708	2.353	16.58	5.432	11.602	1.0213	574.052
41207.65472	9768	2.353	16.581	5.433	11.603	1.0214	574.053
41207.65542	9828	2.353	16.58	5.433	11.603	1.0214	574.053
41207.65611	9888	2.353	16.577	5.433	11.603	1.0214	574.053
41207.65681	9948	2.353	16.581	5.433	11.603	1.0214	574.053
41207.6575	10008	2.353	16.581	5.433	11.603	1.0214	574.053
41207.65819	10068	2.353	16.577	5.433	11.603	1.0214	574.053
41207.65889	10128	2.353	16.578	5.433	11.603	1.0214	574.053
41207.65958	10188	2.353	16.582	5.432	11.602	1.0213	574.052
41207.66028	10248	2.353	16.58	5.433	11.603	1.0214	574.053

Appendix E-3

**MW-26B Transducer Data
Emerson Power Transmission
Ithaca, New York (a)**

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
41207.66097	10308	2.353	16.583	5.433	11.603	1.0214	574.053
41207.66167	10368	2.353	16.581	5.433	11.603	1.0214	574.053
41207.66236	10428	2.353	16.579	5.433	11.603	1.0214	574.053
41207.66306	10488	2.353	16.582	5.432	11.602	1.0213	574.052
41207.66375	10548	2.353	16.583	5.432	11.602	1.0213	574.052
41207.66444	10608	2.353	16.584	5.433	11.603	1.0214	574.053
41207.66514	10668	2.353	16.585	5.432	11.602	1.0213	574.052
41207.66583	10728	2.353	16.585	5.433	11.603	1.0214	574.053
41207.66653	10788	2.353	16.581	5.432	11.602	1.0213	574.052
41207.66722	10848	2.353	16.583	5.433	11.603	1.0214	574.053
41207.66792	10908	2.353	16.582	5.432	11.602	1.0213	574.052
41207.66861	10968	2.353	16.583	5.432	11.602	1.0213	574.052
41207.66931	11028	2.352	16.584	5.431	11.601	1.0212	574.051

a/ PSI = pounds per square inch; C = Celsius; ft = feet; H = measured height of water column in well; H0 = initial height of water column above mean sea level; TD = total depth; btoc = below top of casing; DTW0 = initial depth to water; D0 = initial depth to water = top of casing.

Appendix E-4

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
Step Test and Beginning of Recovery Test							
10/17/2012 16:45	0	1.558	17.019	3.598	7.928	1	564.508
10/17/2012 16:46	60	1.557	17.013	3.596	7.926	0.999	564.506
10/17/2012 16:47	120	1.557	17.01	3.596	7.926	0.999	564.506
10/17/2012 16:48	180	1.557	17.009	3.596	7.926	0.999	564.506
10/17/2012 16:49	240	1.557	17.007	3.595	7.925	0.999	564.505
10/17/2012 16:50	300	1.557	17.007	3.596	7.926	0.999	564.506
10/17/2012 16:51	360	1.557	17.007	3.595	7.925	0.999	564.505
10/17/2012 16:52	420	1.557	17.006	3.596	7.926	0.999	564.506
10/17/2012 16:53	480	1.557	17.008	3.595	7.925	0.999	564.505
10/17/2012 16:54	540	1.557	17.004	3.595	7.925	0.999	564.505
10/17/2012 16:55	600	1.557	17.004	3.595	7.925	0.999	564.505
10/17/2012 16:56	660	1.557	17.003	3.596	7.926	0.999	564.506
10/17/2012 16:57	720	1.557	17.007	3.595	7.925	0.999	564.505
10/17/2012 16:58	780	1.557	17.005	3.595	7.925	0.999	564.505
10/17/2012 16:59	840	1.557	17.007	3.594	7.924	0.999	564.504
10/17/2012 17:00	900	1.557	17.005	3.594	7.924	0.999	564.504
10/17/2012 17:01	960.001	1.557	17.005	3.595	7.925	0.999	564.505
10/17/2012 17:02	1020.001	1.557	17.005	3.595	7.925	0.999	564.505
10/17/2012 17:03	1080.001	1.556	17.002	3.594	7.924	0.999	564.504
10/17/2012 17:04	1140.001	1.556	17.005	3.594	7.924	0.999	564.504
10/17/2012 17:05	1200.001	1.557	17.004	3.594	7.924	0.999	564.504
10/17/2012 17:06	1260.001	1.557	17.004	3.594	7.924	0.999	564.504
10/17/2012 17:07	1320.001	1.557	17.006	3.594	7.924	0.999	564.504
10/17/2012 17:08	1380.001	1.557	17.005	3.595	7.925	0.999	564.505
10/17/2012 17:09	1440.001	1.557	17.002	3.595	7.925	0.999	564.505
10/17/2012 17:10	1500.001	1.557	17.002	3.595	7.925	0.999	564.505
10/17/2012 17:11	1560.001	1.556	17.003	3.594	7.924	0.999	564.504
10/17/2012 17:12	1620.001	1.557	17.005	3.595	7.925	0.999	564.505
10/17/2012 17:13	1680.001	1.556	17.003	3.593	7.923	0.999	564.503
10/17/2012 17:14	1740.001	1.556	17.003	3.594	7.924	0.999	564.504
10/17/2012 17:15	1800	1.556	17.004	3.594	7.924	0.999	564.504
10/17/2012 17:16	1860.001	1.556	17.006	3.593	7.923	0.999	564.503
10/17/2012 17:17	1920.001	1.556	17.005	3.593	7.923	0.999	564.503
10/17/2012 17:18	1980.001	1.557	17.005	3.594	7.924	0.999	564.504
10/17/2012 17:19	2040.001	1.556	17.007	3.594	7.924	0.999	564.504
10/17/2012 17:20	2100.001	1.556	17.003	3.594	7.924	0.999	564.504
10/17/2012 17:21	2160.001	1.556	17.006	3.593	7.923	0.999	564.503
10/17/2012 17:22	2220.001	1.557	17.002	3.594	7.924	0.999	564.504
10/17/2012 17:23	2280.001	1.556	17.007	3.592	7.922	0.998	564.502
10/17/2012 17:24	2340.001	1.556	17.004	3.594	7.924	0.999	564.504
10/17/2012 17:25	2400.001	1.556	17.007	3.593	7.923	0.999	564.503
10/17/2012 17:26	2460.001	1.556	17.004	3.593	7.923	0.999	564.503
10/17/2012 17:27	2520.001	1.556	17.005	3.592	7.922	0.998	564.502

Appendix E-4

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/17/2012 17:28	2580.001	1.556	17.004	3.593	7.923	0.999	564.503
10/17/2012 17:29	2640.001	1.556	17.003	3.592	7.922	0.998	564.502
10/17/2012 17:30	2700	1.556	17.004	3.592	7.922	0.998	564.502
10/17/2012 17:31	2760.001	1.556	17.003	3.592	7.922	0.998	564.502
10/17/2012 17:32	2820.001	1.556	17.006	3.592	7.922	0.998	564.502
10/17/2012 17:33	2880.001	1.555	17.003	3.592	7.922	0.998	564.502
10/17/2012 17:34	2940.001	1.556	17.003	3.592	7.922	0.998	564.502
10/17/2012 17:35	3000.001	1.556	17.002	3.592	7.922	0.998	564.502
10/17/2012 17:36	3060.001	1.555	17.005	3.592	7.922	0.998	564.502
10/17/2012 17:37	3120.001	1.555	17.006	3.592	7.922	0.998	564.502
10/17/2012 17:38	3180.001	1.555	17.007	3.591	7.921	0.998	564.501
10/17/2012 17:39	3240.001	1.555	17.006	3.592	7.922	0.998	564.502
10/17/2012 17:40	3300.001	1.555	17.004	3.591	7.921	0.998	564.501
10/17/2012 17:41	3360.001	1.555	17.005	3.591	7.921	0.998	564.501
10/17/2012 17:42	3420.001	1.555	17.002	3.591	7.921	0.998	564.501
10/17/2012 17:43	3480.001	1.555	17.003	3.591	7.921	0.998	564.501
10/17/2012 17:44	3540.001	1.555	17	3.591	7.921	0.998	564.501
10/17/2012 17:45	3600	1.555	17.005	3.591	7.921	0.998	564.501
10/17/2012 17:46	3660.001	1.555	17.002	3.591	7.921	0.998	564.501
10/17/2012 17:47	3720.001	1.555	17.004	3.591	7.921	0.998	564.501
10/17/2012 17:48	3780.001	1.555	17.006	3.591	7.921	0.998	564.501
10/17/2012 17:49	3840.001	1.555	17.004	3.59	7.92	0.998	564.5
10/17/2012 17:50	3900.001	1.555	17.005	3.59	7.92	0.998	564.5
10/17/2012 17:51	3960.001	1.555	17.005	3.59	7.92	0.998	564.5
10/17/2012 17:52	4020.001	1.555	17.005	3.59	7.92	0.998	564.5
10/17/2012 17:53	4080.001	1.555	17.004	3.591	7.921	0.998	564.501
10/17/2012 17:54	4140.001	1.555	17.005	3.591	7.921	0.998	564.501
10/17/2012 17:55	4200.001	1.555	17.003	3.59	7.92	0.998	564.5
10/17/2012 17:56	4260.001	1.555	17	3.59	7.92	0.998	564.5
10/17/2012 17:57	4320.001	1.555	17.005	3.59	7.92	0.998	564.5
10/17/2012 17:58	4380.001	1.555	17.004	3.59	7.92	0.998	564.5
10/17/2012 17:59	4440.001	1.555	17.005	3.59	7.92	0.998	564.5
10/17/2012 18:00	4500	1.555	17.004	3.589	7.919	0.997	564.499
10/17/2012 18:15	5400.001	1.554	17.004	3.589	7.919	0.997	564.499
10/17/2012 18:30	6300.001	1.554	17.004	3.589	7.919	0.997	564.499
10/17/2012 18:45	7200.001	1.553	17.004	3.586	7.916	0.997	564.496
10/17/2012 19:00	8100.001	1.552	17.003	3.583	7.913	0.996	564.493
10/17/2012 19:15	9000.001	1.551	17.004	3.582	7.912	0.996	564.492
10/17/2012 19:30	9900.001	1.55	17.006	3.579	7.909	0.995	564.489
10/17/2012 19:45	10800.001	1.549	17.003	3.577	7.907	0.994	564.487
10/17/2012 20:00	11700.001	1.549	17.002	3.576	7.906	0.994	564.486
10/17/2012 20:15	12600.001	1.547	16.998	3.573	7.903	0.993	564.483
10/17/2012 20:30	13500.001	1.547	16.999	3.572	7.902	0.993	564.482
10/17/2012 20:45	14400.001	1.546	17.002	3.571	7.901	0.992	564.481
10/17/2012 21:00	15300.001	1.545	17.001	3.567	7.897	0.991	564.477
10/17/2012 21:15	16200.001	1.544	17.002	3.566	7.896	0.991	564.476
10/17/2012 21:30	17100.001	1.544	17.002	3.566	7.896	0.991	564.476
10/17/2012 21:45	18000.001	1.543	17.003	3.563	7.893	0.99	564.473

Appendix E-4

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	Groundwater		
					H (ft)	H/H0	Elevation (ft AMSL)
10/17/2012 22:00	18900.001	1.542	17.001	3.561	7.891	0.99	564.471
10/17/2012 22:15	19800.001	1.541	17.004	3.559	7.889	0.989	564.469
10/17/2012 22:30	20700.001	1.541	17.006	3.558	7.888	0.989	564.468
10/17/2012 22:45	21600.001	1.54	17.004	3.556	7.886	0.988	564.466
10/17/2012 23:00	22500.001	1.539	17.006	3.554	7.884	0.988	564.464
10/17/2012 23:15	23400.001	1.539	17.004	3.553	7.883	0.987	564.463
10/17/2012 23:30	24300.001	1.538	17.006	3.551	7.881	0.987	564.461
10/17/2012 23:45	25200.001	1.537	17.006	3.549	7.879	0.986	564.459
10/18/2012 0:00	26100.001	1.536	17.007	3.548	7.878	0.986	564.458
10/18/2012 0:15	27000.001	1.536	17.009	3.548	7.878	0.986	564.458
10/18/2012 0:30	27900.001	1.537	17.007	3.548	7.878	0.986	564.458
10/18/2012 0:45	28800.001	1.536	17.011	3.547	7.877	0.986	564.457
10/18/2012 1:00	29700.001	1.536	17.016	3.547	7.877	0.986	564.457
10/18/2012 1:15	30600.001	1.536	17.014	3.546	7.876	0.986	564.456
10/18/2012 1:30	31500.001	1.535	17.016	3.544	7.874	0.985	564.454
10/18/2012 1:45	32400.001	1.534	17.018	3.542	7.872	0.984	564.452
10/18/2012 2:00	33300.001	1.534	17.011	3.541	7.871	0.984	564.451
<u>Recovery Test</u>							
10/18/2012 10:09	0	1.496	16.991	3.454	7.794	0.982	564.374
10/18/2012 10:24	900	1.491	16.984	3.442	7.782	0.98	564.362
10/18/2012 10:39	1800	1.491	16.988	3.442	7.782	0.98	564.362
10/18/2012 10:54	2700	1.49	16.991	3.441	7.781	0.98	564.361
10/18/2012 11:09	3600	1.49	16.994	3.44	7.78	0.98	564.36
10/18/2012 11:24	4500	1.49	16.994	3.441	7.781	0.98	564.361
10/18/2012 11:39	5400	1.49	16.999	3.44	7.78	0.98	564.36
10/18/2012 11:54	6300	1.49	16.998	3.44	7.78	0.98	564.36
10/18/2012 12:09	7200	1.489	16.996	3.438	7.778	0.98	564.358
10/18/2012 12:24	8100	1.489	16.998	3.438	7.778	0.98	564.358
10/18/2012 12:39	9000	1.489	16.999	3.437	7.777	0.979	564.357
10/18/2012 12:54	9900	1.488	17.002	3.437	7.777	0.979	564.357
10/18/2012 13:09	10800	1.488	16.999	3.436	7.776	0.979	564.356
10/18/2012 13:24	11700	1.488	17	3.435	7.775	0.979	564.355
10/18/2012 13:39	12600	1.487	17	3.434	7.774	0.979	564.354
10/18/2012 13:54	13500	1.487	17	3.434	7.774	0.979	564.354
10/18/2012 14:09	14400	1.487	16.999	3.434	7.774	0.979	564.354
10/18/2012 14:24	15300	1.487	16.997	3.433	7.773	0.979	564.353
10/18/2012 14:39	16200	1.486	16.996	3.432	7.772	0.979	564.352
10/18/2012 14:54	17100	1.486	16.996	3.431	7.771	0.979	564.351
10/18/2012 15:09	18000	1.486	16.998	3.43	7.77	0.979	564.35
10/18/2012 15:24	18900	1.485	16.997	3.429	7.769	0.978	564.349
10/18/2012 15:39	19800	1.484	16.995	3.427	7.767	0.978	564.347
10/18/2012 15:54	20700	1.484	16.997	3.426	7.766	0.978	564.346
10/18/2012 16:09	21600	1.483	16.996	3.423	7.763	0.978	564.343
10/18/2012 16:24	22500	1.482	16.996	3.422	7.762	0.978	564.342
10/18/2012 16:39	23400	1.482	16.994	3.422	7.762	0.978	564.342
10/18/2012 16:54	24300	1.481	16.996	3.419	7.759	0.977	564.339
10/18/2012 17:09	25200	1.481	16.994	3.419	7.759	0.977	564.339
10/18/2012 17:24	26100	1.48	16.996	3.417	7.757	0.977	564.337

Appendix E-4

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/18/2012 17:39	27000	1.479	16.995	3.416	7.756	0.977	564.336
10/18/2012 17:54	27900	1.478	16.994	3.413	7.753	0.976	564.333
10/18/2012 18:09	28800	1.477	16.994	3.411	7.751	0.976	564.331
10/18/2012 18:24	29700	1.477	16.993	3.41	7.75	0.976	564.33
10/18/2012 18:39	30600	1.477	16.991	3.409	7.749	0.976	564.329
10/18/2012 18:54	31500	1.476	16.993	3.408	7.748	0.976	564.328
10/18/2012 19:09	32400	1.475	16.996	3.407	7.747	0.976	564.327
10/18/2012 19:24	33300	1.475	16.994	3.406	7.746	0.976	564.326
10/18/2012 19:39	34200	1.475	16.991	3.405	7.745	0.975	564.325
10/18/2012 19:54	35100	1.474	16.991	3.404	7.744	0.975	564.324
10/18/2012 20:09	36000	1.474	16.994	3.403	7.743	0.975	564.323
10/18/2012 20:24	36900	1.473	16.993	3.402	7.742	0.975	564.322
10/18/2012 20:39	37800	1.473	16.991	3.401	7.741	0.975	564.321
10/18/2012 20:54	38700	1.473	16.992	3.4	7.74	0.975	564.32
10/18/2012 21:09	39600	1.472	16.992	3.399	7.739	0.975	564.319
10/18/2012 21:24	40500	1.471	16.99	3.397	7.737	0.974	564.317
10/18/2012 21:39	41400	1.471	16.993	3.396	7.736	0.974	564.316
10/18/2012 21:54	42300	1.471	16.987	3.397	7.737	0.974	564.317
10/18/2012 22:09	43200	1.47	16.988	3.394	7.734	0.974	564.314
10/18/2012 22:24	44100	1.47	16.989	3.394	7.734	0.974	564.314
10/18/2012 22:39	45000	1.469	16.987	3.392	7.732	0.974	564.312
10/18/2012 22:54	45900	1.469	16.987	3.391	7.731	0.974	564.311
10/18/2012 23:09	46800	1.468	16.989	3.39	7.73	0.974	564.31
10/18/2012 23:24	47700	1.468	16.987	3.389	7.729	0.973	564.309
10/18/2012 23:39	48600	1.467	16.988	3.388	7.728	0.973	564.308
10/18/2012 23:54	49500	1.467	16.989	3.387	7.727	0.973	564.307
10/19/2012 0:09	50400	1.466	16.99	3.386	7.726	0.973	564.306
10/19/2012 0:24	51300	1.466	16.988	3.385	7.725	0.973	564.305
10/19/2012 0:39	52200	1.465	16.985	3.383	7.723	0.973	564.303
10/19/2012 0:54	53100	1.465	16.987	3.382	7.722	0.973	564.302
10/19/2012 1:09	54000	1.628	16.979	3.758	8.098	1.02	564.678
10/19/2012 1:24	54900	1.876	16.981	4.332	8.672	1.092	565.252
10/19/2012 1:39	55800	1.974	16.978	4.557	8.897	1.121	565.477
10/19/2012 1:54	56700	2.031	16.983	4.689	9.029	1.137	565.609
10/19/2012 2:09	57600	2.06	16.989	4.756	9.096	1.146	565.676
10/19/2012 2:24	58500	2.078	16.988	4.798	9.138	1.151	565.718
10/19/2012 2:39	59400	2.092	16.974	4.83	9.17	1.155	565.75
10/19/2012 2:54	60300	2.102	16.979	4.854	9.194	1.158	565.774
10/19/2012 3:09	61200	2.111	16.982	4.874	9.214	1.16	565.794
10/19/2012 3:24	62100	2.122	16.983	4.899	9.239	1.164	565.819
10/19/2012 3:39	63000	2.449	16.983	5.655	9.995	1.259	566.575
10/19/2012 3:54	63900	2.792	16.982	6.446	10.786	1.358	567.366
10/19/2012 4:09	64800	2.837	16.984	6.55	10.89	1.372	567.47
10/19/2012 4:24	65700	2.847	16.985	6.573	10.913	1.374	567.493
10/19/2012 4:39	66600	2.842	16.979	6.562	10.902	1.373	567.482
10/19/2012 4:54	67500	2.848	16.975	6.575	10.915	1.375	567.495
10/19/2012 5:09	68400	2.831	16.969	6.536	10.876	1.37	567.456
10/19/2012 5:24	69300	2.817	16.971	6.505	10.845	1.366	567.425

Appendix E-4

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	Groundwater		
					H (ft)	H/H0	Elevation (ft AMSL)
10/19/2012 5:39	70200	2.795	16.965	6.454	10.794	1.359	567.374
10/19/2012 5:54	71100	2.774	16.973	6.405	10.745	1.353	567.325
10/19/2012 6:09	72000	2.754	16.965	6.359	10.699	1.347	567.279
10/19/2012 6:24	72900	2.743	16.962	6.334	10.674	1.344	567.254
10/19/2012 6:39	73800	2.735	16.963	6.315	10.655	1.342	567.235
10/19/2012 6:54	74700	2.733	16.959	6.31	10.65	1.341	567.23
10/19/2012 7:09	75600	2.736	16.956	6.316	10.656	1.342	567.236
10/19/2012 7:24	76500	2.736	16.962	6.318	10.658	1.342	567.238
10/19/2012 7:39	77400	2.733	16.961	6.311	10.651	1.341	567.231
10/19/2012 7:54	78300	2.73	16.959	6.304	10.644	1.341	567.224
10/19/2012 8:09	79200	2.725	16.962	6.292	10.632	1.339	567.212
10/19/2012 8:24	80100	2.721	16.959	6.282	10.622	1.338	567.202
10/19/2012 8:39	81000	2.72	16.954	6.281	10.621	1.338	567.201
10/19/2012 8:54	81900	2.717	16.954	6.273	10.613	1.337	567.193
10/19/2012 9:09	82800	2.712	16.955	6.262	10.602	1.335	567.182
10/19/2012 9:24	83700	2.706	16.952	6.249	10.589	1.334	567.169
10/19/2012 9:39	84600	2.711	16.952	6.259	10.599	1.335	567.179
10/19/2012 9:54	85500	2.782	16.954	6.424	10.764	1.356	567.344
10/19/2012 10:09	86400	2.852	16.953	6.586	10.926	1.376	567.506
10/19/2012 10:24	87300	2.869	16.951	6.624	10.964	1.381	567.544
10/19/2012 10:39	88200	2.852	16.952	6.585	10.925	1.376	567.505
10/19/2012 10:54	89100	2.837	16.955	6.55	10.89	1.372	567.47
10/19/2012 11:09	90000	2.817	16.954	6.505	10.845	1.366	567.425
10/19/2012 11:24	90900	2.791	16.955	6.443	10.783	1.358	567.363
10/19/2012 11:39	91800	2.766	16.954	6.387	10.727	1.351	567.307
10/19/2012 11:54	92700	2.741	16.957	6.329	10.669	1.344	567.249
10/19/2012 12:09	93600	2.732	16.955	6.307	10.647	1.341	567.227
10/19/2012 12:24	94500	2.724	16.952	6.289	10.629	1.339	567.209
10/19/2012 12:39	95400	2.721	16.952	6.283	10.623	1.338	567.203
10/19/2012 12:54	96300	2.717	16.95	6.273	10.613	1.337	567.193
10/19/2012 13:09	97200	2.714	16.951	6.266	10.606	1.336	567.186
10/19/2012 13:24	98100	2.702	16.95	6.24	10.58	1.332	567.16
10/19/2012 13:39	99000	2.699	16.948	6.231	10.571	1.331	567.151
10/19/2012 13:54	99900	2.696	16.949	6.226	10.566	1.331	567.146
10/19/2012 14:09	100800	2.697	16.946	6.228	10.568	1.331	567.148
10/19/2012 14:24	101700	2.697	16.949	6.228	10.568	1.331	567.148
10/19/2012 14:39	102600	2.697	16.95	6.228	10.568	1.331	567.148
10/19/2012 14:54	103500	2.692	16.945	6.216	10.556	1.329	567.136
10/19/2012 15:09	104400	2.689	16.949	6.208	10.548	1.328	567.128
10/19/2012 15:24	105300	2.688	16.948	6.207	10.547	1.328	567.127
10/19/2012 15:39	106200	2.685	16.946	6.2	10.54	1.327	567.12
10/19/2012 15:54	107100	2.681	16.948	6.19	10.53	1.326	567.11
10/19/2012 16:09	108000	2.676	16.947	6.178	10.518	1.325	567.098
10/19/2012 16:24	108900	2.688	16.946	6.206	10.546	1.328	567.126
10/19/2012 16:39	109800	2.689	16.946	6.21	10.55	1.329	567.13
10/19/2012 16:54	110700	2.686	16.95	6.203	10.543	1.328	567.123
10/19/2012 17:09	111600	2.682	16.946	6.192	10.532	1.326	567.112
10/19/2012 17:24	112500	2.678	16.945	6.183	10.523	1.325	567.103

Appendix E-4

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/19/2012 17:39	113400	2.674	16.946	6.175	10.515	1.324	567.095
10/19/2012 17:54	114300	2.672	16.943	6.169	10.509	1.324	567.089
10/19/2012 18:09	115200	2.675	16.943	6.178	10.518	1.325	567.098
10/19/2012 18:24	116100	2.679	16.945	6.186	10.526	1.326	567.106
10/19/2012 18:39	117000	2.68	16.941	6.189	10.529	1.326	567.109
10/19/2012 18:54	117900	2.678	16.942	6.184	10.524	1.325	567.104
10/19/2012 19:09	118800	2.675	16.943	6.176	10.516	1.324	567.096
10/19/2012 19:24	119700	2.672	16.943	6.171	10.511	1.324	567.091
10/19/2012 19:39	120600	2.67	16.943	6.164	10.504	1.323	567.084
10/19/2012 19:54	121500	2.669	16.943	6.162	10.502	1.323	567.082
10/19/2012 20:09	122400	2.671	16.944	6.168	10.508	1.323	567.088
10/19/2012 20:24	123300	2.672	16.944	6.17	10.51	1.324	567.09
10/19/2012 20:39	124200	2.671	16.939	6.168	10.508	1.323	567.088
10/19/2012 20:54	125100	2.67	16.942	6.164	10.504	1.323	567.084
10/19/2012 21:09	126000	2.668	16.939	6.16	10.5	1.322	567.08
10/19/2012 21:24	126900	2.667	16.94	6.157	10.497	1.322	567.077
10/19/2012 21:39	127800	2.665	16.939	6.154	10.494	1.322	567.074
10/19/2012 21:54	128700	2.664	16.937	6.152	10.492	1.321	567.072
10/19/2012 22:09	129600	2.662	16.939	6.146	10.486	1.321	567.066
10/19/2012 22:24	130500	2.659	16.938	6.14	10.48	1.32	567.06
10/19/2012 22:39	131400	2.656	16.939	6.134	10.474	1.319	567.054
10/19/2012 22:54	132300	2.653	16.937	6.125	10.465	1.318	567.045
10/19/2012 23:09	133200	2.649	16.935	6.117	10.457	1.317	567.037
10/19/2012 23:24	134100	2.646	16.936	6.109	10.449	1.316	567.029
10/19/2012 23:39	135000	2.642	16.935	6.101	10.441	1.315	567.021
10/19/2012 23:54	135900	2.641	16.941	6.098	10.438	1.315	567.018
10/20/2012 0:09	136800	2.638	16.939	6.09	10.43	1.314	567.01
10/20/2012 0:24	137700	2.635	16.936	6.085	10.425	1.313	567.005
10/20/2012 0:39	138600	2.633	16.937	6.08	10.42	1.312	567
10/20/2012 0:54	139500	2.629	16.936	6.069	10.409	1.311	566.989
10/20/2012 1:09	140400	2.623	16.939	6.057	10.397	1.309	566.977
10/20/2012 1:24	141300	2.617	16.937	6.043	10.383	1.308	566.963
10/20/2012 1:39	142200	2.61	16.934	6.025	10.365	1.305	566.945
10/20/2012 1:54	143100	2.604	16.935	6.012	10.352	1.304	566.932
10/20/2012 2:09	144000	2.583	16.936	5.964	10.304	1.298	566.884
10/20/2012 2:24	144900	2.575	16.935	5.945	10.285	1.295	566.865
10/20/2012 2:39	145800	2.563	16.935	5.919	10.259	1.292	566.839
10/20/2012 2:54	146700	2.553	16.933	5.895	10.235	1.289	566.815
10/20/2012 3:09	147600	2.543	16.934	5.873	10.213	1.286	566.793
10/20/2012 3:24	148500	2.53	16.934	5.842	10.182	1.282	566.762
10/20/2012 3:39	149400	2.519	16.932	5.817	10.157	1.279	566.737
10/20/2012 3:54	150300	2.511	16.934	5.799	10.139	1.277	566.719
10/20/2012 4:09	151200	2.501	16.931	5.774	10.114	1.274	566.694
10/20/2012 4:24	152100	2.491	16.932	5.752	10.092	1.271	566.672
10/20/2012 4:39	153000	2.482	16.932	5.731	10.071	1.268	566.651
10/20/2012 4:54	153900	2.471	16.931	5.705	10.045	1.265	566.625
10/20/2012 5:09	154800	2.46	16.932	5.679	10.019	1.262	566.599
10/20/2012 5:24	155700	2.445	16.933	5.645	9.985	1.258	566.565

Appendix E-4

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/20/2012 5:39	156600	2.429	16.932	5.607	9.947	1.253	566.527
10/20/2012 5:54	157500	2.415	16.931	5.577	9.917	1.249	566.497
10/20/2012 6:09	158400	2.401	16.931	5.544	9.884	1.245	566.464
10/20/2012 6:24	159300	2.387	16.932	5.512	9.852	1.241	566.432
10/20/2012 6:39	160200	2.377	16.931	5.489	9.829	1.238	566.409
10/20/2012 6:54	161100	2.366	16.932	5.464	9.804	1.235	566.384
10/20/2012 7:09	162000	2.358	16.93	5.445	9.785	1.232	566.365
10/20/2012 7:24	162900	2.354	16.93	5.435	9.775	1.231	566.355
10/20/2012 7:39	163800	2.349	16.93	5.423	9.763	1.23	566.343
10/20/2012 7:54	164700	2.349	16.931	5.423	9.763	1.23	566.343
10/20/2012 8:09	165600	2.35	16.929	5.427	9.767	1.23	566.347
10/20/2012 8:24	166500	2.346	16.929	5.416	9.756	1.229	566.336
10/20/2012 8:39	167400	2.347	16.928	5.42	9.76	1.229	566.34
10/20/2012 8:54	168300	2.347	16.929	5.42	9.76	1.229	566.34
10/20/2012 9:09	169200	2.345	16.928	5.414	9.754	1.228	566.334
10/20/2012 9:24	170100	2.345	16.927	5.414	9.754	1.228	566.334
10/20/2012 9:39	171000	2.343	16.928	5.41	9.75	1.228	566.33
10/20/2012 9:54	171900	2.343	16.927	5.409	9.749	1.228	566.329
10/20/2012 10:09	172800	2.341	16.929	5.406	9.746	1.227	566.326
10/20/2012 10:24	173700	2.342	16.926	5.407	9.747	1.228	566.327
10/20/2012 10:39	174600	2.343	16.927	5.41	9.75	1.228	566.33
10/20/2012 10:54	175500	2.345	16.924	5.414	9.754	1.228	566.334
10/20/2012 11:09	176400	2.341	16.925	5.406	9.746	1.227	566.326
10/20/2012 11:24	177300	2.341	16.925	5.404	9.744	1.227	566.324
10/20/2012 11:39	178200	2.34	16.925	5.404	9.744	1.227	566.324
10/20/2012 11:54	179100	2.341	16.926	5.405	9.745	1.227	566.325
10/20/2012 12:09	180000	2.34	16.923	5.403	9.743	1.227	566.323
10/20/2012 12:24	180900	2.341	16.922	5.405	9.745	1.227	566.325
10/20/2012 12:39	181800	2.34	16.924	5.404	9.744	1.227	566.324
10/20/2012 12:54	182700	2.34	16.925	5.404	9.744	1.227	566.324
10/20/2012 13:09	183600	2.34	16.926	5.404	9.744	1.227	566.324
10/20/2012 13:24	184500	2.339	16.923	5.402	9.742	1.227	566.322
10/20/2012 13:39	185400	2.339	16.92	5.4	9.74	1.227	566.32
10/20/2012 13:54	186300	2.339	16.923	5.4	9.74	1.227	566.32
10/20/2012 14:09	187200	2.339	16.922	5.402	9.742	1.227	566.322
10/20/2012 14:24	188100	2.34	16.919	5.402	9.742	1.227	566.322
10/20/2012 14:39	189000	2.34	16.923	5.403	9.743	1.227	566.323
10/20/2012 14:54	189900	2.34	16.923	5.402	9.742	1.227	566.322
10/20/2012 15:09	190800	2.34	16.921	5.403	9.743	1.227	566.323
10/20/2012 15:24	191700	2.34	16.92	5.404	9.744	1.227	566.324
10/20/2012 15:39	192600	2.34	16.919	5.403	9.743	1.227	566.323
10/20/2012 15:54	193500	2.34	16.919	5.402	9.742	1.227	566.322
10/20/2012 16:09	194400	2.34	16.918	5.402	9.742	1.227	566.322
10/20/2012 16:24	195300	2.339	16.918	5.401	9.741	1.227	566.321
10/20/2012 16:39	196200	2.339	16.92	5.4	9.74	1.227	566.32
10/20/2012 16:54	197100	2.337	16.92	5.396	9.736	1.226	566.316
10/20/2012 17:09	198000	2.334	16.919	5.389	9.729	1.225	566.309
10/20/2012 17:24	198900	2.331	16.918	5.383	9.723	1.225	566.303

Appendix E-4

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/20/2012 17:39	199800	2.328	16.919	5.376	9.716	1.224	566.296
10/20/2012 17:54	200700	2.326	16.92	5.37	9.71	1.223	566.29
10/20/2012 18:09	201600	2.325	16.917	5.368	9.708	1.223	566.288
10/20/2012 18:24	202500	2.325	16.917	5.368	9.708	1.223	566.288
10/20/2012 18:39	203400	2.324	16.917	5.366	9.706	1.222	566.286
10/20/2012 18:54	204300	2.323	16.917	5.364	9.704	1.222	566.284
10/20/2012 19:09	205200	2.323	16.916	5.363	9.703	1.222	566.283
10/20/2012 19:24	206100	2.322	16.917	5.361	9.701	1.222	566.281
10/20/2012 19:39	207000	2.32	16.917	5.356	9.696	1.221	566.276
10/20/2012 19:54	207900	2.318	16.917	5.353	9.693	1.221	566.273
10/20/2012 20:09	208800	2.316	16.918	5.349	9.689	1.22	566.269
10/20/2012 20:24	209700	2.314	16.918	5.343	9.683	1.22	566.263
10/20/2012 20:39	210600	2.312	16.917	5.338	9.678	1.219	566.258
10/20/2012 20:54	211500	2.31	16.914	5.334	9.674	1.218	566.254
10/20/2012 21:09	212400	2.308	16.916	5.33	9.67	1.218	566.25
10/20/2012 21:24	213300	2.306	16.916	5.324	9.664	1.217	566.244
10/20/2012 21:39	214200	2.304	16.915	5.32	9.66	1.217	566.24
10/20/2012 21:54	215100	2.302	16.914	5.316	9.656	1.216	566.236
10/20/2012 22:09	216000	2.301	16.912	5.313	9.653	1.216	566.233
10/20/2012 22:24	216900	2.3	16.912	5.311	9.651	1.215	566.231
10/20/2012 22:39	217800	2.299	16.912	5.308	9.648	1.215	566.228
10/20/2012 22:54	218700	2.297	16.914	5.305	9.645	1.215	566.225
10/20/2012 23:09	219600	2.297	16.912	5.303	9.643	1.214	566.223
10/20/2012 23:24	220500	2.296	16.912	5.302	9.642	1.214	566.222
10/20/2012 23:39	221400	2.294	16.91	5.297	9.637	1.214	566.217
10/20/2012 23:54	222300	2.293	16.911	5.295	9.635	1.213	566.215
10/21/2012 0:09	223200	2.291	16.911	5.29	9.63	1.213	566.21
10/21/2012 0:24	224100	2.288	16.911	5.283	9.623	1.212	566.203
10/21/2012 0:39	225000	2.285	16.909	5.276	9.616	1.211	566.196
10/21/2012 0:54	225900	2.282	16.911	5.268	9.608	1.21	566.188
10/21/2012 1:09	226800	2.279	16.912	5.262	9.602	1.209	566.182
10/21/2012 1:24	227700	2.275	16.911	5.254	9.594	1.208	566.174
10/21/2012 1:39	228600	2.271	16.909	5.245	9.585	1.207	566.165
10/21/2012 1:54	229500	2.267	16.909	5.234	9.574	1.206	566.154
10/21/2012 2:09	230400	2.263	16.909	5.225	9.565	1.205	566.145
10/21/2012 2:24	231300	2.258	16.908	5.214	9.554	1.203	566.134
10/21/2012 2:39	232200	2.254	16.907	5.205	9.545	1.202	566.125
10/21/2012 2:54	233100	2.25	16.906	5.195	9.535	1.201	566.115
10/21/2012 3:09	234000	2.244	16.906	5.181	9.521	1.199	566.101
10/21/2012 3:24	234900	2.238	16.907	5.168	9.508	1.197	566.088
10/21/2012 3:39	235800	2.231	16.905	5.152	9.492	1.195	566.072
10/21/2012 3:54	236700	2.224	16.907	5.136	9.476	1.193	566.056
10/21/2012 4:09	237600	2.218	16.909	5.121	9.461	1.192	566.041
10/21/2012 4:24	238500	2.211	16.904	5.105	9.445	1.19	566.025
10/21/2012 4:39	239400	2.204	16.905	5.089	9.429	1.188	566.009
10/21/2012 4:54	240300	2.196	16.905	5.07	9.41	1.185	565.99
10/21/2012 5:09	241200	2.189	16.905	5.055	9.395	1.183	565.975
10/21/2012 5:24	242100	2.183	16.905	5.04	9.38	1.181	565.96

Appendix E-4

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/21/2012 5:39	243000	2.177	16.907	5.028	9.368	1.18	565.948
10/21/2012 5:54	243900	2.171	16.901	5.012	9.352	1.178	565.932
10/21/2012 6:09	244800	2.165	16.904	4.998	9.338	1.176	565.918
10/21/2012 6:24	245700	2.16	16.904	4.986	9.326	1.175	565.906
10/21/2012 6:39	246600	2.154	16.905	4.973	9.313	1.173	565.893
10/21/2012 6:54	247500	2.148	16.902	4.96	9.3	1.171	565.88
10/21/2012 7:09	248400	2.144	16.9	4.95	9.29	1.17	565.87
10/21/2012 7:24	249300	2.14	16.903	4.94	9.28	1.169	565.86
10/21/2012 7:39	250200	2.134	16.9	4.928	9.268	1.167	565.848
10/21/2012 7:54	251100	2.13	16.899	4.919	9.259	1.166	565.839
10/21/2012 8:09	252000	2.126	16.902	4.909	9.249	1.165	565.829
10/21/2012 8:24	252900	2.122	16.899	4.901	9.241	1.164	565.821
10/21/2012 8:39	253800	2.119	16.898	4.892	9.232	1.163	565.812
10/21/2012 8:54	254700	2.115	16.899	4.884	9.224	1.162	565.804
10/21/2012 9:09	255600	2.112	16.898	4.877	9.217	1.161	565.797
10/21/2012 9:24	256500	2.11	16.897	4.871	9.211	1.16	565.791
10/21/2012 9:39	257400	2.107	16.898	4.865	9.205	1.159	565.785
10/21/2012 9:54	258300	2.105	16.897	4.859	9.199	1.159	565.779
10/21/2012 10:09	259200	2.102	16.896	4.854	9.194	1.158	565.774
10/21/2012 10:24	260100	2.1	16.897	4.849	9.189	1.157	565.769
10/21/2012 10:39	261000	2.099	16.897	4.847	9.187	1.157	565.767
10/21/2012 10:54	261900	2.097	16.893	4.843	9.183	1.157	565.763
10/21/2012 11:09	262800	2.096	16.894	4.84	9.18	1.156	565.76
10/21/2012 11:24	263700	2.094	16.895	4.835	9.175	1.156	565.755
10/21/2012 11:39	264600	2.093	16.895	4.832	9.172	1.155	565.752
10/21/2012 11:54	265500	2.091	16.894	4.828	9.168	1.155	565.748
10/21/2012 12:09	266400	2.09	16.893	4.826	9.166	1.154	565.746
10/21/2012 12:24	267300	2.087	16.892	4.82	9.16	1.154	565.74
10/21/2012 12:39	268200	2.087	16.895	4.819	9.159	1.154	565.739
10/21/2012 12:54	269100	2.086	16.892	4.816	9.156	1.153	565.736
10/21/2012 13:09	270000	2.085	16.892	4.815	9.155	1.153	565.735
10/21/2012 13:24	270900	2.084	16.892	4.812	9.152	1.153	565.732
10/21/2012 13:39	271800	2.083	16.893	4.809	9.149	1.152	565.729
10/21/2012 13:54	272700	2.081	16.893	4.805	9.145	1.152	565.725
10/21/2012 14:09	273600	2.08	16.892	4.803	9.143	1.152	565.723
10/21/2012 14:24	274500	2.079	16.893	4.8	9.14	1.151	565.72
10/21/2012 14:39	275400	2.078	16.892	4.798	9.138	1.151	565.718
10/21/2012 14:54	276300	2.077	16.888	4.797	9.137	1.151	565.717
10/21/2012 15:09	277200	2.077	16.89	4.797	9.137	1.151	565.717
10/21/2012 15:24	278100	2.079	16.89	4.8	9.14	1.151	565.72
10/21/2012 15:39	279000	2.08	16.888	4.802	9.142	1.151	565.722
10/21/2012 15:54	279900	2.081	16.886	4.805	9.145	1.152	565.725
10/21/2012 16:09	280800	2.081	16.888	4.806	9.146	1.152	565.726
10/21/2012 16:24	281700	2.081	16.889	4.805	9.145	1.152	565.725
10/21/2012 16:39	282600	2.081	16.89	4.804	9.144	1.152	565.724
10/21/2012 16:54	283500	2.081	16.889	4.805	9.145	1.152	565.725
10/21/2012 17:09	284400	2.08	16.892	4.803	9.143	1.152	565.723
10/21/2012 17:24	285300	2.078	16.889	4.799	9.139	1.151	565.719

Appendix E-4

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	Groundwater		
					H (ft)	H/H0	Elevation (ft AMSL)
10/21/2012 17:39	286200	2.077	16.889	4.795	9.135	1.151	565.715
10/21/2012 17:54	287100	2.075	16.889	4.791	9.131	1.15	565.711
10/21/2012 18:09	288000	2.073	16.89	4.786	9.126	1.149	565.706
10/21/2012 18:24	288900	2.07	16.885	4.78	9.12	1.149	565.7
10/21/2012 18:39	289800	2.067	16.886	4.773	9.113	1.148	565.693
10/21/2012 18:54	290700	2.065	16.888	4.767	9.107	1.147	565.687
10/21/2012 19:09	291600	2.062	16.885	4.761	9.101	1.146	565.681
10/21/2012 19:24	292500	2.059	16.884	4.754	9.094	1.145	565.674
10/21/2012 19:39	293400	2.056	16.883	4.747	9.087	1.144	565.667
10/21/2012 19:54	294300	2.053	16.883	4.741	9.081	1.144	565.661
10/21/2012 20:09	295200	2.051	16.886	4.735	9.075	1.143	565.655
10/21/2012 20:24	296100	2.048	16.881	4.73	9.07	1.142	565.65
10/21/2012 20:39	297000	2.046	16.882	4.724	9.064	1.142	565.644
10/21/2012 20:54	297900	2.045	16.881	4.721	9.061	1.141	565.641
10/21/2012 21:09	298800	2.044	16.881	4.719	9.059	1.141	565.639
10/21/2012 21:24	299700	2.042	16.883	4.715	9.055	1.14	565.635
10/21/2012 21:39	300600	2.04	16.879	4.71	9.05	1.14	565.63
10/21/2012 21:54	301500	2.038	16.88	4.706	9.046	1.139	565.626
10/21/2012 22:09	302400	2.036	16.88	4.702	9.042	1.139	565.622
10/21/2012 22:24	303300	2.034	16.879	4.697	9.037	1.138	565.617
10/21/2012 22:39	304200	2.032	16.879	4.691	9.031	1.137	565.611
10/21/2012 22:54	305100	2.03	16.878	4.687	9.027	1.137	565.607
10/21/2012 23:09	306000	2.028	16.876	4.683	9.023	1.136	565.603
10/21/2012 23:24	306900	2.027	16.877	4.681	9.021	1.136	565.601
10/21/2012 23:39	307800	2.025	16.877	4.676	9.016	1.136	565.596
10/21/2012 23:54	308700	2.024	16.875	4.673	9.013	1.135	565.593
10/22/2012 0:09	309600	2.022	16.877	4.669	9.009	1.135	565.589
10/22/2012 0:24	310500	2.021	16.875	4.666	9.006	1.134	565.586
10/22/2012 0:39	311400	2.019	16.875	4.663	9.003	1.134	565.583
10/22/2012 0:54	312300	2.017	16.876	4.658	8.998	1.133	565.578
10/22/2012 1:09	313200	2.016	16.874	4.654	8.994	1.133	565.574
10/22/2012 1:24	314100	2.013	16.873	4.649	8.989	1.132	565.569
10/22/2012 1:39	315000	2.012	16.872	4.645	8.985	1.132	565.565
10/22/2012 1:54	315900	2.01	16.871	4.641	8.981	1.131	565.561
10/22/2012 2:09	316800	2.008	16.874	4.636	8.976	1.13	565.556
10/22/2012 2:24	317700	2.007	16.872	4.634	8.974	1.13	565.554
10/22/2012 2:39	318600	2.005	16.872	4.63	8.97	1.13	565.55
10/22/2012 2:54	319500	2.003	16.871	4.624	8.964	1.129	565.544
10/22/2012 3:09	320400	2.002	16.87	4.622	8.962	1.129	565.542
10/22/2012 3:24	321300	2.001	16.872	4.62	8.96	1.128	565.54
10/22/2012 3:39	322200	2.001	16.872	4.62	8.96	1.128	565.54
10/22/2012 3:54	323100	2	16.87	4.618	8.958	1.128	565.538
10/22/2012 4:09	324000	2	16.869	4.618	8.958	1.128	565.538
10/22/2012 4:24	324900	2.001	16.87	4.619	8.959	1.128	565.539
10/22/2012 4:39	325800	2	16.868	4.618	8.958	1.128	565.538
10/22/2012 4:54	326700	2	16.873	4.617	8.957	1.128	565.537
10/22/2012 5:09	327600	1.999	16.867	4.616	8.956	1.128	565.536
10/22/2012 5:24	328500	1.998	16.872	4.614	8.954	1.128	565.534

Appendix E-4

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/22/2012 5:39	329400	1.997	16.869	4.612	8.952	1.127	565.532
10/22/2012 5:54	330300	1.996	16.869	4.609	8.949	1.127	565.529
10/22/2012 6:09	331200	1.995	16.869	4.607	8.947	1.127	565.527
10/22/2012 6:24	332100	1.995	16.869	4.606	8.946	1.127	565.526
10/22/2012 6:39	333000	1.994	16.868	4.604	8.944	1.126	565.524
10/22/2012 6:54	333900	1.993	16.87	4.602	8.942	1.126	565.522
10/22/2012 7:09	334800	1.994	16.867	4.605	8.945	1.127	565.525
10/22/2012 7:24	335700	2	16.865	4.617	8.957	1.128	565.537
10/22/2012 7:39	336600	2.007	16.866	4.634	8.974	1.13	565.554
10/22/2012 7:54	337500	2.015	16.871	4.653	8.993	1.133	565.573
10/22/2012 8:09	338400	2.022	16.87	4.67	9.01	1.135	565.59
10/22/2012 8:24	339300	2.029	16.869	4.685	9.025	1.137	565.605
10/22/2012 8:39	340200	2.035	16.871	4.698	9.038	1.138	565.618
10/22/2012 8:54	341100	2.04	16.871	4.711	9.051	1.14	565.631
10/22/2012 9:09	342000	2.045	16.866	4.722	9.062	1.141	565.642
10/22/2012 9:24	342900	2.049	16.867	4.732	9.072	1.143	565.652
10/22/2012 9:39	343800	2.053	16.873	4.741	9.081	1.144	565.661
10/22/2012 9:54	344700	2.056	16.867	4.748	9.088	1.145	565.668
10/22/2012 10:09	345600	2.059	16.872	4.754	9.094	1.145	565.674
10/22/2012 10:24	346500	2.062	16.876	4.76	9.1	1.146	565.68
10/22/2012 10:39	347400	2.063	16.869	4.764	9.104	1.147	565.684
10/22/2012 10:54	348300	2.066	16.872	4.77	9.11	1.147	565.69
10/22/2012 11:09	349200	2.068	16.869	4.776	9.116	1.148	565.696
10/22/2012 11:24	350100	2.072	16.87	4.784	9.124	1.149	565.704
10/22/2012 11:39	351000	2.075	16.864	4.791	9.131	1.15	565.711
10/22/2012 11:54	351900	2.077	16.866	4.796	9.136	1.151	565.716
10/22/2012 12:09	352800	2.079	16.867	4.801	9.141	1.151	565.721
10/22/2012 12:24	353700	2.082	16.869	4.807	9.147	1.152	565.727
10/22/2012 12:39	354600	2.084	16.873	4.812	9.152	1.153	565.732
10/22/2012 12:54	355500	2.086	16.872	4.818	9.158	1.153	565.738
10/22/2012 13:09	356400	2.089	16.874	4.823	9.163	1.154	565.743
10/22/2012 13:24	357300	2.091	16.879	4.827	9.167	1.155	565.747
10/22/2012 13:39	358200	2.092	16.874	4.831	9.171	1.155	565.751
10/22/2012 13:54	359100	2.094	16.872	4.835	9.175	1.156	565.755
10/22/2012 14:09	360000	2.096	16.876	4.84	9.18	1.156	565.76
10/22/2012 14:24	360900	2.098	16.873	4.844	9.184	1.157	565.764
10/22/2012 14:39	361800	2.099	16.872	4.846	9.186	1.157	565.766
10/22/2012 14:54	362700	2.1	16.874	4.849	9.189	1.157	565.769
10/22/2012 15:09	363600	2.101	16.876	4.851	9.191	1.158	565.771
10/22/2012 15:24	364500	2.101	16.876	4.852	9.192	1.158	565.772
10/22/2012 15:39	365400	2.102	16.873	4.855	9.195	1.158	565.775
10/22/2012 15:54	366300	2.103	16.867	4.856	9.196	1.158	565.776
10/22/2012 16:09	367200	2.105	16.869	4.861	9.201	1.159	565.781
10/22/2012 16:24	368100	2.107	16.866	4.864	9.204	1.159	565.784
10/22/2012 16:39	369000	2.108	16.864	4.867	9.207	1.16	565.787
10/22/2012 16:54	369900	2.109	16.862	4.87	9.21	1.16	565.79
10/22/2012 17:09	370800	2.11	16.872	4.871	9.211	1.16	565.791
10/22/2012 17:24	371700	2.11	16.868	4.872	9.212	1.16	565.792

Appendix E-4

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/22/2012 17:39	372600	2.109	16.865	4.871	9.211	1.16	565.791
10/22/2012 17:54	373500	2.109	16.862	4.869	9.209	1.16	565.789
10/22/2012 18:09	374400	2.108	16.864	4.867	9.207	1.16	565.787
10/22/2012 18:24	375300	2.107	16.868	4.865	9.205	1.159	565.785
10/22/2012 18:39	376200	2.106	16.867	4.862	9.202	1.159	565.782
10/22/2012 18:54	377100	2.105	16.866	4.86	9.2	1.159	565.78
10/22/2012 19:09	378000	2.104	16.867	4.857	9.197	1.158	565.777
10/22/2012 19:24	378900	2.102	16.865	4.853	9.193	1.158	565.773
10/22/2012 19:39	379800	2.1	16.862	4.85	9.19	1.157	565.77
10/22/2012 19:54	380700	2.098	16.861	4.845	9.185	1.157	565.765
10/22/2012 20:09	381600	2.096	16.86	4.84	9.18	1.156	565.76
10/22/2012 20:24	382500	2.095	16.861	4.837	9.177	1.156	565.757
10/22/2012 20:39	383400	2.093	16.86	4.832	9.172	1.155	565.752
10/22/2012 20:54	384300	2.091	16.859	4.829	9.169	1.155	565.749
10/22/2012 21:09	385200	2.09	16.858	4.825	9.165	1.154	565.745
10/22/2012 21:24	386100	2.088	16.856	4.821	9.161	1.154	565.741
10/22/2012 21:39	387000	2.086	16.853	4.817	9.157	1.153	565.737
10/22/2012 21:54	387900	2.084	16.857	4.813	9.153	1.153	565.733
10/22/2012 22:09	388800	2.083	16.859	4.809	9.149	1.152	565.729
10/22/2012 22:24	389700	2.081	16.859	4.804	9.144	1.152	565.724
10/22/2012 22:39	390600	2.078	16.858	4.798	9.138	1.151	565.718
10/22/2012 22:54	391500	2.075	16.857	4.792	9.132	1.15	565.712
10/22/2012 23:09	392400	2.073	16.853	4.787	9.127	1.149	565.707
10/22/2012 23:24	393300	2.071	16.856	4.781	9.121	1.149	565.701
10/22/2012 23:39	394200	2.068	16.857	4.775	9.115	1.148	565.695
10/22/2012 23:54	395100	2.066	16.854	4.77	9.11	1.147	565.69
10/23/2012 0:09	396000	2.063	16.853	4.763	9.103	1.146	565.683
10/23/2012 0:24	396900	2.06	16.852	4.757	9.097	1.146	565.677
10/23/2012 0:39	397800	2.057	16.854	4.75	9.09	1.145	565.67
10/23/2012 0:54	398700	2.054	16.85	4.742	9.082	1.144	565.662
10/23/2012 1:09	399600	2.051	16.85	4.736	9.076	1.143	565.656
10/23/2012 1:24	400500	2.047	16.85	4.726	9.066	1.142	565.646
10/23/2012 1:39	401400	2.043	16.851	4.717	9.057	1.141	565.637
10/23/2012 1:54	402300	2.039	16.849	4.709	9.049	1.14	565.629
10/23/2012 2:09	403200	2.035	16.85	4.699	9.039	1.138	565.619
10/23/2012 2:24	404100	2.031	16.849	4.689	9.029	1.137	565.609
10/23/2012 2:39	405000	2.026	16.848	4.679	9.019	1.136	565.599
10/23/2012 2:54	405900	2.022	16.849	4.668	9.008	1.135	565.588
10/23/2012 3:09	406800	2.016	16.849	4.655	8.995	1.133	565.575
10/23/2012 3:24	407700	2.011	16.849	4.643	8.983	1.131	565.563
10/23/2012 3:39	408600	2.005	16.847	4.63	8.97	1.13	565.55
10/23/2012 3:54	409500	1.999	16.848	4.616	8.956	1.128	565.536
10/23/2012 4:09	410400	1.994	16.846	4.605	8.945	1.127	565.525
10/23/2012 4:24	411300	1.989	16.849	4.593	8.933	1.125	565.513
10/23/2012 4:39	412200	1.983	16.845	4.579	8.919	1.123	565.499
10/23/2012 4:54	413100	1.978	16.845	4.567	8.907	1.122	565.487
10/23/2012 5:09	414000	1.973	16.848	4.556	8.896	1.12	565.476
10/23/2012 5:24	414900	1.968	16.846	4.544	8.884	1.119	565.464

Appendix E-4

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/23/2012 5:39	415800	1.963	16.847	4.533	8.873	1.118	565.453
10/23/2012 5:54	416700	1.958	16.846	4.521	8.861	1.116	565.441
10/23/2012 6:09	417600	1.953	16.843	4.509	8.849	1.114	565.429
10/23/2012 6:24	418500	1.947	16.846	4.496	8.836	1.113	565.416
10/23/2012 6:39	419400	1.943	16.847	4.485	8.825	1.111	565.405
10/23/2012 6:54	420300	1.937	16.847	4.473	8.813	1.11	565.393
10/23/2012 7:09	421200	1.933	16.844	4.463	8.803	1.109	565.383
10/23/2012 7:24	422100	1.928	16.842	4.451	8.791	1.107	565.371
10/23/2012 7:39	423000	1.923	16.842	4.44	8.78	1.106	565.36
10/23/2012 7:54	423900	1.919	16.843	4.431	8.771	1.105	565.351
10/23/2012 8:09	424800	1.914	16.84	4.42	8.76	1.103	565.34
10/23/2012 8:24	425700	1.91	16.844	4.41	8.75	1.102	565.33
10/23/2012 8:39	426600	1.905	16.842	4.399	8.739	1.101	565.319
10/23/2012 8:54	427500	1.901	16.841	4.389	8.729	1.099	565.309
10/23/2012 9:09	428400	1.897	16.84	4.381	8.721	1.098	565.301
10/23/2012 9:24	429300	1.893	16.841	4.371	8.711	1.097	565.291
10/23/2012 9:39	430200	1.888	16.841	4.36	8.7	1.096	565.28
10/23/2012 9:54	431100	1.884	16.842	4.351	8.691	1.095	565.271
10/23/2012 10:09	432000	1.88	16.842	4.34	8.68	1.093	565.26
10/23/2012 10:24	432900	1.876	16.838	4.332	8.672	1.092	565.252
10/23/2012 10:39	433800	1.872	16.839	4.322	8.662	1.091	565.242
10/23/2012 10:54	434700	1.868	16.837	4.313	8.653	1.09	565.233
10/23/2012 11:09	435600	1.863	16.837	4.302	8.642	1.088	565.222
10/23/2012 11:24	436500	1.859	16.835	4.293	8.633	1.087	565.213
10/23/2012 11:39	437400	1.855	16.836	4.284	8.624	1.086	565.204
10/23/2012 11:54	438300	1.851	16.835	4.274	8.614	1.085	565.194
10/23/2012 12:09	439200	1.847	16.836	4.264	8.604	1.084	565.184
10/23/2012 12:24	440100	1.843	16.834	4.255	8.595	1.082	565.175
10/23/2012 12:39	441000	1.839	16.834	4.246	8.586	1.081	565.166
10/23/2012 12:54	441900	1.835	16.833	4.237	8.577	1.08	565.157
10/23/2012 13:09	442800	1.831	16.832	4.227	8.567	1.079	565.147
10/23/2012 13:24	443700	1.827	16.832	4.219	8.559	1.078	565.139
10/23/2012 13:39	444600	1.823	16.832	4.21	8.55	1.077	565.13
10/23/2012 13:54	445500	1.82	16.832	4.202	8.542	1.076	565.122
10/23/2012 14:09	446400	1.816	16.835	4.192	8.532	1.075	565.112
10/23/2012 14:24	447300	1.822	16.832	4.207	8.547	1.076	565.127
10/23/2012 14:39	448200	1.826	16.83	4.217	8.557	1.078	565.137
10/23/2012 14:54	449100	1.887	16.832	4.357	8.697	1.095	565.277
10/23/2012 15:09	450000	2.544	16.822	5.874	10.214	1.286	566.794
10/23/2012 15:24	450900	2.845	16.823	6.568	10.908	1.374	567.488
10/23/2012 15:39	451800	2.878	16.833	6.646	10.986	1.384	567.566
10/23/2012 15:54	452700	2.9	16.831	6.697	11.037	1.39	567.617
10/23/2012 16:09	453600	2.925	16.827	6.755	11.095	1.397	567.675
10/23/2012 16:24	454500	2.886	16.83	6.664	11.004	1.386	567.584
10/23/2012 16:39	455400	2.903	16.833	6.703	11.043	1.391	567.623
10/23/2012 16:54	456300	2.933	16.832	6.771	11.111	1.399	567.691
10/23/2012 17:09	457200	2.89	16.83	6.673	11.013	1.387	567.593
10/23/2012 17:24	458100	2.89	16.832	6.673	11.013	1.387	567.593

Appendix E-4

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/23/2012 17:39	459000	2.923	16.829	6.75	11.09	1.397	567.67
10/23/2012 17:54	459900	2.923	16.829	6.748	11.088	1.396	567.668
10/23/2012 18:09	460800	2.921	16.827	6.745	11.085	1.396	567.665
10/23/2012 18:24	461700	2.922	16.829	6.746	11.086	1.396	567.666
10/23/2012 18:39	462600	2.889	16.83	6.671	11.011	1.387	567.591
10/23/2012 18:54	463500	2.86	16.83	6.603	10.943	1.378	567.523
10/23/2012 19:09	464400	2.834	16.827	6.544	10.884	1.371	567.464
10/23/2012 19:24	465300	2.811	16.827	6.49	10.83	1.364	567.41
10/23/2012 19:39	466200	2.787	16.826	6.434	10.774	1.357	567.354
10/23/2012 19:54	467100	2.769	16.827	6.394	10.734	1.352	567.314
10/23/2012 20:09	468000	2.746	16.824	6.34	10.68	1.345	567.26
10/23/2012 20:24	468900	2.739	16.824	6.324	10.664	1.343	567.244
10/23/2012 20:39	469800	2.732	16.821	6.307	10.647	1.341	567.227
10/23/2012 20:54	470700	2.711	16.825	6.259	10.599	1.335	567.179
10/23/2012 21:09	471600	2.692	16.821	6.216	10.556	1.329	567.136
10/23/2012 21:24	472500	2.685	16.822	6.2	10.54	1.327	567.12
10/23/2012 21:39	473400	2.699	16.821	6.231	10.571	1.331	567.151
10/23/2012 21:54	474300	2.724	16.823	6.289	10.629	1.339	567.209
10/23/2012 22:09	475200	2.715	16.821	6.268	10.608	1.336	567.188
10/23/2012 22:24	476100	2.704	16.819	6.243	10.583	1.333	567.163
10/23/2012 22:39	477000	2.694	16.821	6.221	10.561	1.33	567.141
10/23/2012 22:54	477900	2.691	16.818	6.214	10.554	1.329	567.134
10/23/2012 23:09	478800	2.688	16.821	6.206	10.546	1.328	567.126
10/23/2012 23:24	479700	2.684	16.82	6.197	10.537	1.327	567.117
10/23/2012 23:39	480600	2.681	16.817	6.19	10.53	1.326	567.11
10/23/2012 23:54	481500	2.675	16.818	6.177	10.517	1.325	567.097
10/24/2012 0:09	482400	2.673	16.816	6.171	10.511	1.324	567.091
10/24/2012 0:24	483300	2.671	16.82	6.167	10.507	1.323	567.087
10/24/2012 0:39	484200	2.669	16.815	6.162	10.502	1.323	567.082
10/24/2012 0:54	485100	2.671	16.816	6.168	10.508	1.323	567.088
10/24/2012 1:09	486000	2.672	16.819	6.169	10.509	1.324	567.089
10/24/2012 1:24	486900	2.686	16.818	6.203	10.543	1.328	567.123
10/24/2012 1:39	487800	2.691	16.814	6.214	10.554	1.329	567.134
10/24/2012 1:54	488700	2.691	16.813	6.215	10.555	1.329	567.135
10/24/2012 2:09	489600	2.69	16.812	6.212	10.552	1.329	567.132
10/24/2012 2:24	490500	2.688	16.812	6.206	10.546	1.328	567.126
10/24/2012 2:39	491400	2.684	16.811	6.197	10.537	1.327	567.117
10/24/2012 2:54	492300	2.68	16.81	6.187	10.527	1.326	567.107
10/24/2012 3:09	493200	2.674	16.812	6.175	10.515	1.324	567.095
10/24/2012 3:24	494100	2.67	16.814	6.164	10.504	1.323	567.084
10/24/2012 3:39	495000	2.666	16.812	6.156	10.496	1.322	567.076
10/24/2012 3:54	495900	2.661	16.811	6.144	10.484	1.32	567.064
10/24/2012 4:09	496800	2.658	16.814	6.137	10.477	1.32	567.057
10/24/2012 4:24	497700	2.659	16.809	6.139	10.479	1.32	567.059
10/24/2012 4:39	498600	2.658	16.807	6.138	10.478	1.32	567.058
10/24/2012 4:54	499500	2.655	16.811	6.13	10.47	1.319	567.05
10/24/2012 5:09	500400	2.653	16.807	6.126	10.466	1.318	567.046
10/24/2012 5:24	501300	2.65	16.806	6.12	10.46	1.317	567.04

Appendix E-4

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/24/2012 5:39	502200	2.647	16.809	6.113	10.453	1.316	567.033
10/24/2012 5:54	503100	2.646	16.807	6.109	10.449	1.316	567.029
10/24/2012 6:09	504000	2.649	16.809	6.117	10.457	1.317	567.037
10/24/2012 6:24	504900	2.651	16.806	6.122	10.462	1.318	567.042
10/24/2012 6:39	505800	2.654	16.806	6.128	10.468	1.318	567.048
10/24/2012 6:54	506700	2.654	16.805	6.127	10.467	1.318	567.047
10/24/2012 7:09	507600	2.655	16.807	6.129	10.469	1.319	567.049
10/24/2012 7:24	508500	2.655	16.806	6.13	10.47	1.319	567.05
10/24/2012 7:39	509400	2.656	16.805	6.132	10.472	1.319	567.052
10/24/2012 7:54	510300	2.657	16.807	6.134	10.474	1.319	567.054
10/24/2012 8:09	511200	2.649	16.806	6.117	10.457	1.317	567.037
10/24/2012 8:24	512100	2.641	16.807	6.097	10.437	1.314	567.017
10/24/2012 8:39	513000	2.634	16.805	6.082	10.422	1.313	567.002
10/24/2012 8:54	513900	2.627	16.806	6.067	10.407	1.311	566.987
10/24/2012 9:09	514800	2.626	16.806	6.063	10.403	1.31	566.983
10/24/2012 9:24	515700	2.623	16.802	6.057	10.397	1.309	566.977
10/24/2012 9:39	516600	2.623	16.805	6.056	10.396	1.309	566.976
10/24/2012 9:54	517500	2.627	16.802	6.066	10.406	1.311	566.986
10/24/2012 10:09	518400	2.63	16.805	6.073	10.413	1.311	566.993
10/24/2012 10:24	519300	2.624	16.801	6.058	10.398	1.31	566.978
10/24/2012 10:39	520200	2.618	16.804	6.045	10.385	1.308	566.965
10/24/2012 10:54	521100	2.614	16.802	6.035	10.375	1.307	566.955
10/24/2012 11:09	522000	2.593	16.802	5.988	10.328	1.301	566.908
10/24/2012 11:24	522900	2.584	16.801	5.966	10.306	1.298	566.886
10/24/2012 11:39	523800	2.58	16.803	5.958	10.298	1.297	566.878
10/24/2012 11:54	524700	2.577	16.803	5.951	10.291	1.296	566.871
10/24/2012 12:09	525600	2.574	16.8	5.944	10.284	1.295	566.864
10/24/2012 12:24	526500	2.576	16.8	5.949	10.289	1.296	566.869
10/24/2012 12:39	527400	2.579	16.801	5.954	10.294	1.296	566.874
10/24/2012 12:54	528300	2.583	16.798	5.963	10.303	1.298	566.883
10/24/2012 13:09	529200	2.586	16.798	5.97	10.31	1.298	566.89
10/24/2012 13:24	530100	2.59	16.798	5.98	10.32	1.3	566.9
10/24/2012 13:39	531000	2.596	16.801	5.994	10.334	1.302	566.914
10/24/2012 13:54	531900	2.6	16.794	6.003	10.343	1.303	566.923
10/24/2012 14:09	532800	2.602	16.795	6.008	10.348	1.303	566.928
10/24/2012 14:24	533700	2.604	16.799	6.012	10.352	1.304	566.932
10/24/2012 14:39	534600	2.608	16.797	6.021	10.361	1.305	566.941
10/24/2012 14:54	535500	2.611	16.797	6.029	10.369	1.306	566.949
10/24/2012 15:09	536400	2.615	16.795	6.037	10.377	1.307	566.957
10/24/2012 15:24	537300	2.617	16.795	6.042	10.382	1.308	566.962
10/24/2012 15:39	538200	2.619	16.799	6.046	10.386	1.308	566.966
10/24/2012 15:54	539100	2.618	16.793	6.045	10.385	1.308	566.965
10/24/2012 16:09	540000	2.618	16.794	6.044	10.384	1.308	566.964
10/24/2012 16:24	540900	2.616	16.794	6.04	10.38	1.307	566.96
10/24/2012 16:39	541800	2.614	16.795	6.036	10.376	1.307	566.956
10/24/2012 16:54	542700	2.61	16.794	6.027	10.367	1.306	566.947
10/24/2012 17:09	543600	2.606	16.794	6.018	10.358	1.305	566.938
10/24/2012 17:24	544500	2.603	16.791	6.009	10.349	1.303	566.929

Appendix E-4

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/24/2012 17:39	545400	2.594	16.792	5.99	10.33	1.301	566.91
10/24/2012 17:54	546300	2.592	16.793	5.985	10.325	1.3	566.905
10/24/2012 18:09	547200	2.593	16.791	5.987	10.327	1.301	566.907
10/24/2012 18:24	548100	2.592	16.789	5.984	10.324	1.3	566.904
10/24/2012 18:39	549000	2.591	16.788	5.982	10.322	1.3	566.902
10/24/2012 18:54	549900	2.589	16.793	5.979	10.319	1.3	566.899
10/24/2012 19:09	550800	2.589	16.79	5.979	10.319	1.3	566.899
10/24/2012 19:24	551700	2.587	16.792	5.974	10.314	1.299	566.894
10/24/2012 19:39	552600	2.584	16.791	5.966	10.306	1.298	566.886
10/24/2012 19:54	553500	2.58	16.789	5.958	10.298	1.297	566.878
10/24/2012 20:09	554400	2.575	16.789	5.946	10.286	1.295	566.866
10/24/2012 20:24	555300	2.57	16.79	5.933	10.273	1.294	566.853
10/24/2012 20:39	556200	2.569	16.787	5.933	10.273	1.294	566.853
10/24/2012 20:54	557100	2.569	16.789	5.932	10.272	1.294	566.852
10/24/2012 21:09	558000	2.566	16.788	5.925	10.265	1.293	566.845
10/24/2012 21:24	558900	2.563	16.788	5.919	10.259	1.292	566.839
10/24/2012 21:39	559800	2.562	16.789	5.916	10.256	1.292	566.836
10/24/2012 21:54	560700	2.558	16.79	5.906	10.246	1.29	566.826
10/24/2012 22:09	561600	2.552	16.787	5.894	10.234	1.289	566.814
10/24/2012 22:24	562500	2.549	16.787	5.885	10.225	1.288	566.805
10/24/2012 22:39	563400	2.545	16.787	5.877	10.217	1.287	566.797
10/24/2012 22:54	564300	2.542	16.786	5.87	10.21	1.286	566.79
10/24/2012 23:09	565200	2.538	16.786	5.859	10.199	1.285	566.779
10/24/2012 23:24	566100	2.534	16.786	5.851	10.191	1.284	566.771
10/24/2012 23:39	567000	2.529	16.783	5.838	10.178	1.282	566.758
10/24/2012 23:54	567900	2.524	16.784	5.827	10.167	1.28	566.747
10/25/2012 0:09	568800	2.52	16.785	5.819	10.159	1.279	566.739
10/25/2012 0:24	569700	2.519	16.78	5.816	10.156	1.279	566.736
10/25/2012 0:39	570600	2.521	16.783	5.82	10.16	1.28	566.74
10/25/2012 0:54	571500	2.526	16.784	5.832	10.172	1.281	566.752
10/25/2012 1:09	572400	2.53	16.782	5.842	10.182	1.282	566.762
10/25/2012 1:24	573300	2.532	16.782	5.846	10.186	1.283	566.766
10/25/2012 1:39	574200	2.531	16.782	5.845	10.185	1.283	566.765
10/25/2012 1:54	575100	2.529	16.785	5.839	10.179	1.282	566.759
10/25/2012 2:09	576000	2.526	16.782	5.833	10.173	1.281	566.753
10/25/2012 2:24	576900	2.522	16.782	5.824	10.164	1.28	566.744
10/25/2012 2:39	577800	2.518	16.78	5.813	10.153	1.279	566.733
10/25/2012 2:54	578700	2.514	16.78	5.804	10.144	1.278	566.724
10/25/2012 3:09	579600	2.508	16.784	5.791	10.131	1.276	566.711
10/25/2012 3:24	580500	2.505	16.781	5.783	10.123	1.275	566.703
10/25/2012 3:39	581400	2.501	16.781	5.776	10.116	1.274	566.696
10/25/2012 3:54	582300	2.497	16.781	5.765	10.105	1.273	566.685
10/25/2012 4:09	583200	2.49	16.781	5.749	10.089	1.271	566.669
10/25/2012 4:24	584100	2.482	16.778	5.731	10.071	1.268	566.651
10/25/2012 4:39	585000	2.476	16.779	5.716	10.056	1.266	566.636
10/25/2012 4:54	585900	2.47	16.778	5.702	10.042	1.265	566.622
10/25/2012 5:09	586800	2.464	16.778	5.69	10.03	1.263	566.61
10/25/2012 5:24	587700	2.46	16.778	5.68	10.02	1.262	566.6

Appendix E-4

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/25/2012 5:39	588600	2.455	16.777	5.67	10.01	1.261	566.59
10/25/2012 5:54	589500	2.452	16.778	5.662	10.002	1.26	566.582
10/25/2012 6:09	590400	2.451	16.78	5.659	9.999	1.259	566.579
10/25/2012 6:24	591300	2.448	16.779	5.652	9.992	1.258	566.572
10/25/2012 6:39	592200	2.451	16.777	5.659	9.999	1.259	566.579
10/25/2012 6:54	593100	2.453	16.777	5.665	10.005	1.26	566.585
10/25/2012 7:09	594000	2.446	16.777	5.648	9.988	1.258	566.568
10/25/2012 7:24	594900	2.439	16.775	5.633	9.973	1.256	566.553
10/25/2012 7:39	595800	2.434	16.778	5.62	9.96	1.254	566.54
10/25/2012 7:54	596700	2.428	16.776	5.606	9.946	1.253	566.526
10/25/2012 8:09	597600	2.422	16.773	5.591	9.931	1.251	566.511
10/25/2012 8:24	598500	2.416	16.773	5.579	9.919	1.249	566.499
10/25/2012 8:39	599400	2.413	16.774	5.571	9.911	1.248	566.491
10/25/2012 8:54	600300	2.409	16.774	5.563	9.903	1.247	566.483
10/25/2012 9:09	601200	2.405	16.776	5.553	9.893	1.246	566.473
10/25/2012 9:24	602100	2.401	16.776	5.545	9.885	1.245	566.465
10/25/2012 9:39	603000	2.398	16.774	5.537	9.877	1.244	566.457
10/25/2012 9:54	603900	2.397	16.774	5.534	9.874	1.244	566.454
10/25/2012 10:09	604800	2.394	16.773	5.527	9.867	1.243	566.447
10/25/2012 10:24	605700	2.391	16.772	5.522	9.862	1.242	566.442
10/25/2012 10:39	606600	2.387	16.776	5.512	9.852	1.241	566.432
10/25/2012 10:54	607500	2.386	16.775	5.509	9.849	1.24	566.429
10/25/2012 11:09	608400	2.384	16.772	5.504	9.844	1.24	566.424
10/25/2012 11:24	609300	2.381	16.771	5.497	9.837	1.239	566.417
10/25/2012 11:39	610200	2.368	16.774	5.467	9.807	1.235	566.387
10/25/2012 11:54	611100	2.368	16.773	5.468	9.808	1.235	566.388
10/25/2012 12:09	612000	2.369	16.773	5.469	9.809	1.235	566.389
Constant Rate Test							
10/25/2012 13:00	0	2.373	16.764	5.479	9.849	1.24	566.429
10/25/2012 13:00	0.25	2.372	16.788	5.477	9.847	1.24	566.427
10/25/2012 13:00	0.5	2.372	16.802	5.477	9.847	1.24	566.427
10/25/2012 13:00	0.75	2.372	16.812	5.478	9.848	1.24	566.428
10/25/2012 13:00	1	2.372	16.819	5.477	9.847	1.24	566.427
10/25/2012 13:00	1.25	2.372	16.822	5.477	9.847	1.24	566.427
10/25/2012 13:00	1.5	2.372	16.829	5.477	9.847	1.24	566.427
10/25/2012 13:00	1.75	2.372	16.832	5.477	9.847	1.24	566.427
10/25/2012 13:00	2	2.372	16.839	5.477	9.847	1.24	566.427
10/25/2012 13:00	2.25	2.372	16.84	5.476	9.846	1.24	566.426
10/25/2012 13:00	2.5	2.372	16.842	5.477	9.847	1.24	566.427
10/25/2012 13:00	2.75	2.372	16.842	5.477	9.847	1.24	566.427
10/25/2012 13:00	3	2.372	16.846	5.476	9.846	1.24	566.426
10/25/2012 13:00	3.25	2.372	16.849	5.476	9.846	1.24	566.426
10/25/2012 13:00	3.5	2.372	16.851	5.476	9.846	1.24	566.426
10/25/2012 13:00	3.75	2.372	16.855	5.476	9.846	1.24	566.426
10/25/2012 13:00	4	2.372	16.852	5.476	9.846	1.24	566.426
10/25/2012 13:00	4.25	2.372	16.854	5.477	9.847	1.24	566.427
10/25/2012 13:00	4.5	2.372	16.852	5.476	9.846	1.24	566.426
10/25/2012 13:00	4.75	2.372	16.853	5.477	9.847	1.24	566.427

Appendix E-4

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/25/2012 13:00	5	2.372	16.858	5.476	9.846	1.24	566.426
10/25/2012 13:00	5.25	2.372	16.859	5.476	9.846	1.24	566.426
10/25/2012 13:00	5.5	2.372	16.861	5.476	9.846	1.24	566.426
10/25/2012 13:00	5.75	2.372	16.86	5.476	9.846	1.24	566.426
10/25/2012 13:00	6	2.372	16.863	5.477	9.847	1.24	566.427
10/25/2012 13:00	6.36	2.371	16.851	5.475	9.845	1.24	566.425
10/25/2012 13:00	6.72	2.372	16.849	5.476	9.846	1.24	566.426
10/25/2012 13:00	7.14	2.371	16.842	5.476	9.846	1.24	566.426
10/25/2012 13:00	7.56	2.371	16.839	5.475	9.845	1.24	566.425
10/25/2012 13:00	7.98	2.372	16.836	5.476	9.846	1.24	566.426
10/25/2012 13:00	8.46	2.372	16.832	5.477	9.847	1.24	566.427
10/25/2012 13:00	9	2.372	16.829	5.476	9.846	1.24	566.426
10/25/2012 13:00	9.48	2.372	16.828	5.476	9.846	1.24	566.426
10/25/2012 13:00	10.08	2.371	16.823	5.475	9.845	1.24	566.425
10/25/2012 13:00	10.68	2.372	16.821	5.476	9.846	1.24	566.426
10/25/2012 13:00	11.28	2.371	16.822	5.476	9.846	1.24	566.426
10/25/2012 13:00	11.94	2.371	16.819	5.475	9.845	1.24	566.425
10/25/2012 13:00	12.66	2.372	16.818	5.476	9.846	1.24	566.426
10/25/2012 13:00	13.44	2.372	16.815	5.476	9.846	1.24	566.426
10/25/2012 13:00	14.22	2.371	16.814	5.476	9.846	1.24	566.426
10/25/2012 13:00	15.06	2.372	16.812	5.477	9.847	1.24	566.427
10/25/2012 13:00	15.96	2.372	16.807	5.477	9.847	1.24	566.427
10/25/2012 13:00	16.92	2.372	16.809	5.477	9.847	1.24	566.427
10/25/2012 13:00	17.88	2.372	16.811	5.476	9.846	1.24	566.426
10/25/2012 13:00	18.96	2.372	16.809	5.477	9.847	1.24	566.427
10/25/2012 13:00	20.1	2.372	16.807	5.476	9.846	1.24	566.426
10/25/2012 13:00	21.3	2.372	16.807	5.476	9.846	1.24	566.426
10/25/2012 13:00	22.56	2.372	16.805	5.476	9.846	1.24	566.426
10/25/2012 13:00	23.88	2.372	16.804	5.477	9.847	1.24	566.427
10/25/2012 13:00	25.32	2.372	16.803	5.476	9.846	1.24	566.426
10/25/2012 13:00	26.82	2.372	16.803	5.477	9.847	1.24	566.427
10/25/2012 13:00	28.38	2.372	16.802	5.477	9.847	1.24	566.427
10/25/2012 13:00	30.06	2.372	16.802	5.476	9.846	1.24	566.426
10/25/2012 13:00	31.86	2.372	16.802	5.477	9.847	1.24	566.427
10/25/2012 13:00	33.72	2.372	16.8	5.477	9.847	1.24	566.427
10/25/2012 13:00	35.76	2.372	16.8	5.477	9.847	1.24	566.427
10/25/2012 13:00	37.86	2.372	16.796	5.477	9.847	1.24	566.427
10/25/2012 13:00	40.08	2.372	16.799	5.476	9.846	1.24	566.426
10/25/2012 13:00	42.48	2.372	16.796	5.477	9.847	1.24	566.427
10/25/2012 13:00	45	2.372	16.794	5.477	9.847	1.24	566.427
10/25/2012 13:00	47.64	2.372	16.796	5.477	9.847	1.24	566.427
10/25/2012 13:00	50.46	2.372	16.794	5.477	9.847	1.24	566.427
10/25/2012 13:00	53.46	2.372	16.794	5.476	9.846	1.24	566.426
10/25/2012 13:00	56.64	2.372	16.792	5.477	9.847	1.24	566.427
10/25/2012 13:01	60	2.372	16.793	5.477	9.847	1.24	566.427
10/25/2012 13:01	63.6	2.372	16.791	5.478	9.848	1.24	566.428
10/25/2012 13:01	67.2	2.372	16.789	5.478	9.848	1.24	566.428
10/25/2012 13:01	71.4	2.372	16.79	5.478	9.848	1.24	566.428

Appendix E-4

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/25/2012 13:01	75.6	2.372	16.787	5.478	9.848	1.24	566.428
10/25/2012 13:01	79.8	2.373	16.789	5.479	9.849	1.24	566.429
10/25/2012 13:01	84.6	2.372	16.789	5.478	9.848	1.24	566.428
10/25/2012 13:01	90	2.372	16.786	5.477	9.847	1.24	566.427
10/25/2012 13:01	94.8	2.372	16.787	5.477	9.847	1.24	566.427
10/25/2012 13:01	100.8	2.373	16.784	5.479	9.849	1.24	566.429
10/25/2012 13:01	106.8	2.372	16.784	5.477	9.847	1.24	566.427
10/25/2012 13:01	112.8	2.372	16.783	5.477	9.847	1.24	566.427
10/25/2012 13:01	119.4	2.373	16.781	5.478	9.848	1.24	566.428
10/25/2012 13:02	126.6	2.373	16.78	5.478	9.848	1.24	566.428
10/25/2012 13:02	134.4	2.373	16.781	5.479	9.849	1.24	566.429
10/25/2012 13:02	142.2	2.373	16.775	5.48	9.85	1.241	566.43
10/25/2012 13:02	150.6	2.373	16.778	5.479	9.849	1.24	566.429
10/25/2012 13:02	159.6	2.373	16.778	5.479	9.849	1.24	566.429
10/25/2012 13:02	169.2	2.373	16.779	5.479	9.849	1.24	566.429
10/25/2012 13:02	178.8	2.373	16.779	5.479	9.849	1.24	566.429
10/25/2012 13:03	189.6	2.373	16.776	5.48	9.85	1.241	566.43
10/25/2012 13:03	201	2.373	16.772	5.48	9.85	1.241	566.43
10/25/2012 13:03	213	2.373	16.776	5.479	9.849	1.24	566.429
10/25/2012 13:03	225.6	2.373	16.774	5.479	9.849	1.24	566.429
10/25/2012 13:03	238.8	2.373	16.776	5.48	9.85	1.241	566.43
10/25/2012 13:04	253.2	2.373	16.773	5.48	9.85	1.241	566.43
10/25/2012 13:04	268.2	2.373	16.771	5.48	9.85	1.241	566.43
10/25/2012 13:04	283.8	2.374	16.773	5.481	9.851	1.241	566.431
10/25/2012 13:05	300.6	2.374	16.772	5.481	9.851	1.241	566.431
10/25/2012 13:05	318.6	2.374	16.772	5.481	9.851	1.241	566.431
10/25/2012 13:05	337.2	2.374	16.772	5.481	9.851	1.241	566.431
10/25/2012 13:05	357.6	2.374	16.77	5.481	9.851	1.241	566.431
10/25/2012 13:06	378.6	2.374	16.771	5.481	9.851	1.241	566.431
10/25/2012 13:06	400.8	2.374	16.771	5.482	9.852	1.241	566.432
10/25/2012 13:07	424.8	2.374	16.773	5.483	9.853	1.241	566.433
10/25/2012 13:07	450	2.374	16.771	5.482	9.852	1.241	566.432
10/25/2012 13:07	476.4	2.375	16.77	5.484	9.854	1.241	566.434
10/25/2012 13:08	504.6	2.375	16.771	5.483	9.853	1.241	566.433
10/25/2012 13:08	534.6	2.375	16.768	5.484	9.854	1.241	566.434
10/25/2012 13:09	566.4	2.375	16.77	5.484	9.854	1.241	566.434
10/25/2012 13:10	600	2.375	16.766	5.484	9.854	1.241	566.434
10/25/2012 13:10	636	2.375	16.767	5.484	9.854	1.241	566.434
10/25/2012 13:11	672	2.375	16.769	5.485	9.855	1.241	566.435
10/25/2012 13:11	714	2.376	16.768	5.485	9.855	1.241	566.435
10/25/2012 13:12	756	2.376	16.768	5.486	9.856	1.241	566.436
10/25/2012 13:13	798	2.376	16.767	5.485	9.855	1.241	566.435
10/25/2012 13:14	846	2.376	16.769	5.487	9.857	1.241	566.437
10/25/2012 13:15	900	2.377	16.767	5.487	9.857	1.241	566.437
10/25/2012 13:15	948	2.377	16.768	5.488	9.858	1.242	566.438
10/25/2012 13:16	1008	2.377	16.767	5.488	9.858	1.242	566.438
10/25/2012 13:17	1068	2.377	16.769	5.488	9.858	1.242	566.438
10/25/2012 13:18	1128	2.377	16.768	5.488	9.858	1.242	566.438

Appendix E-4

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/25/2012 13:19	1188	2.377	16.768	5.488	9.858	1.242	566.438
10/25/2012 13:20	1248	2.377	16.769	5.489	9.859	1.242	566.439
10/25/2012 13:21	1308	2.378	16.769	5.49	9.86	1.242	566.44
10/25/2012 13:22	1368	2.378	16.768	5.49	9.86	1.242	566.44
10/25/2012 13:23	1428	2.377	16.768	5.489	9.859	1.242	566.439
10/25/2012 13:24	1488	2.377	16.767	5.489	9.859	1.242	566.439
10/25/2012 13:25	1548	2.377	16.766	5.489	9.859	1.242	566.439
10/25/2012 13:26	1608	2.377	16.767	5.488	9.858	1.242	566.438
10/25/2012 13:27	1668	2.377	16.769	5.489	9.859	1.242	566.439
10/25/2012 13:28	1728	2.377	16.771	5.488	9.858	1.242	566.438
10/25/2012 13:29	1788	2.377	16.77	5.488	9.858	1.242	566.438
10/25/2012 13:30	1848	2.377	16.767	5.488	9.858	1.242	566.438
10/25/2012 13:31	1908	2.377	16.769	5.488	9.858	1.242	566.438
10/25/2012 13:32	1968	2.377	16.768	5.487	9.857	1.241	566.437
10/25/2012 13:33	2028	2.377	16.77	5.487	9.857	1.241	566.437
10/25/2012 13:34	2088	2.377	16.771	5.488	9.858	1.242	566.438
10/25/2012 13:35	2148	2.377	16.77	5.487	9.857	1.241	566.437
10/25/2012 13:36	2208	2.377	16.767	5.488	9.858	1.242	566.438
10/25/2012 13:37	2268	2.376	16.767	5.487	9.857	1.241	566.437
10/25/2012 13:38	2328	2.376	16.767	5.487	9.857	1.241	566.437
10/25/2012 13:39	2388	2.376	16.769	5.486	9.856	1.241	566.436
10/25/2012 13:40	2448	2.376	16.77	5.486	9.856	1.241	566.436
10/25/2012 13:41	2508	2.376	16.767	5.485	9.855	1.241	566.435
10/25/2012 13:42	2568	2.376	16.769	5.485	9.855	1.241	566.435
10/25/2012 13:43	2628	2.376	16.771	5.485	9.855	1.241	566.435
10/25/2012 13:44	2688	2.375	16.769	5.485	9.855	1.241	566.435
10/25/2012 13:45	2748	2.375	16.767	5.484	9.854	1.241	566.434
10/25/2012 13:46	2808	2.375	16.769	5.484	9.854	1.241	566.434
10/25/2012 13:47	2868	2.375	16.768	5.483	9.853	1.241	566.433
10/25/2012 13:48	2928	2.375	16.769	5.484	9.854	1.241	566.434
10/25/2012 13:49	2988	2.375	16.767	5.483	9.853	1.241	566.433
10/25/2012 13:50	3048	2.375	16.768	5.484	9.854	1.241	566.434
10/25/2012 13:51	3108	2.374	16.768	5.482	9.852	1.241	566.432
10/25/2012 13:52	3168	2.374	16.766	5.482	9.852	1.241	566.432
10/25/2012 13:53	3228	2.374	16.766	5.482	9.852	1.241	566.432
10/25/2012 13:54	3288.231	2.37	16.771	5.473	9.843	1.24	566.423
10/25/2012 13:55	3347.999	2.37	16.775	5.471	9.841	1.239	566.421
10/25/2012 13:56	3408	2.372	16.773	5.478	9.848	1.24	566.428
10/25/2012 13:57	3468	2.372	16.772	5.478	9.848	1.24	566.428
10/25/2012 13:58	3528	2.372	16.771	5.478	9.848	1.24	566.428
10/25/2012 13:59	3588	2.372	16.77	5.477	9.847	1.24	566.427
10/25/2012 14:00	3648	2.372	16.77	5.476	9.846	1.24	566.426
10/25/2012 14:01	3708	2.371	16.77	5.475	9.845	1.24	566.425
10/25/2012 14:02	3768	2.371	16.769	5.475	9.845	1.24	566.425
10/25/2012 14:03	3828	2.371	16.769	5.476	9.846	1.24	566.426
10/25/2012 14:04	3888	2.371	16.77	5.474	9.844	1.24	566.424
10/25/2012 14:05	3948	2.371	16.769	5.475	9.845	1.24	566.425
10/25/2012 14:06	4008	2.371	16.77	5.474	9.844	1.24	566.424

Appendix E-4

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/25/2012 14:07	4068	2.371	16.77	5.474	9.844	1.24	566.424
10/25/2012 14:08	4128	2.371	16.771	5.473	9.843	1.24	566.423
10/25/2012 14:09	4188	2.371	16.769	5.474	9.844	1.24	566.424
10/25/2012 14:10	4248	2.37	16.77	5.472	9.842	1.24	566.422
10/25/2012 14:11	4308	2.371	16.769	5.474	9.844	1.24	566.424
10/25/2012 14:12	4368	2.37	16.769	5.472	9.842	1.24	566.422
10/25/2012 14:13	4428	2.37	16.77	5.472	9.842	1.24	566.422
10/25/2012 14:14	4488	2.37	16.769	5.472	9.842	1.24	566.422
10/25/2012 14:15	4548	2.369	16.768	5.471	9.841	1.239	566.421
10/25/2012 14:16	4608	2.37	16.769	5.471	9.841	1.239	566.421
10/25/2012 14:17	4668	2.369	16.769	5.471	9.841	1.239	566.421
10/25/2012 14:18	4728	2.37	16.77	5.472	9.842	1.24	566.422
10/25/2012 14:19	4788	2.37	16.771	5.471	9.841	1.239	566.421
10/25/2012 14:20	4848	2.369	16.77	5.471	9.841	1.239	566.421
10/25/2012 14:21	4908	2.37	16.77	5.472	9.842	1.24	566.422
10/25/2012 14:22	4968	2.37	16.767	5.471	9.841	1.239	566.421
10/25/2012 14:23	5028	2.37	16.769	5.471	9.841	1.239	566.421
10/25/2012 14:24	5088	2.37	16.77	5.471	9.841	1.239	566.421
10/25/2012 14:25	5148	2.37	16.77	5.472	9.842	1.24	566.422
10/25/2012 14:26	5208	2.37	16.77	5.472	9.842	1.24	566.422
10/25/2012 14:27	5268	2.37	16.77	5.471	9.841	1.239	566.421
10/25/2012 14:28	5328	2.37	16.77	5.472	9.842	1.24	566.422
10/25/2012 14:29	5388	2.37	16.769	5.472	9.842	1.24	566.422
10/25/2012 14:30	5448	2.37	16.768	5.471	9.841	1.239	566.421
10/25/2012 14:31	5508	2.37	16.768	5.471	9.841	1.239	566.421
10/25/2012 14:32	5568	2.37	16.768	5.471	9.841	1.239	566.421
10/25/2012 14:33	5628	2.37	16.768	5.472	9.842	1.24	566.422
10/25/2012 14:34	5688	2.369	16.77	5.471	9.841	1.239	566.421
10/25/2012 14:35	5748	2.369	16.771	5.471	9.841	1.239	566.421
10/25/2012 14:36	5808	2.37	16.772	5.471	9.841	1.239	566.421
10/25/2012 14:37	5868	2.37	16.77	5.471	9.841	1.239	566.421
10/25/2012 14:38	5928	2.369	16.766	5.47	9.84	1.239	566.42
10/25/2012 14:39	5988	2.37	16.77	5.471	9.841	1.239	566.421
10/25/2012 14:40	6048	2.369	16.77	5.471	9.841	1.239	566.421
10/25/2012 14:41	6108	2.369	16.767	5.47	9.84	1.239	566.42
10/25/2012 14:42	6168	2.369	16.77	5.471	9.841	1.239	566.421
10/25/2012 14:43	6228	2.369	16.771	5.471	9.841	1.239	566.421
10/25/2012 14:44	6288	2.369	16.771	5.47	9.84	1.239	566.42
10/25/2012 14:45	6348	2.369	16.768	5.469	9.839	1.239	566.419
10/25/2012 14:46	6408	2.369	16.773	5.47	9.84	1.239	566.42
10/25/2012 14:47	6468	2.369	16.77	5.47	9.84	1.239	566.42
10/25/2012 14:48	6528	2.369	16.768	5.469	9.839	1.239	566.419
10/25/2012 14:49	6588	2.368	16.772	5.468	9.838	1.239	566.418
10/25/2012 14:50	6648	2.368	16.771	5.469	9.839	1.239	566.419
10/25/2012 14:51	6708	2.368	16.77	5.468	9.838	1.239	566.418
10/25/2012 14:52	6768	2.368	16.77	5.468	9.838	1.239	566.418
10/25/2012 14:53	6828	2.368	16.769	5.468	9.838	1.239	566.418
10/25/2012 14:54	6888	2.368	16.772	5.468	9.838	1.239	566.418

Appendix E-4

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/25/2012 14:55	6948	2.368	16.77	5.467	9.837	1.239	566.417
10/25/2012 14:56	7008	2.367	16.768	5.466	9.836	1.239	566.416
10/25/2012 14:57	7068	2.368	16.771	5.467	9.837	1.239	566.417
10/25/2012 14:58	7128	2.367	16.771	5.466	9.836	1.239	566.416
10/25/2012 14:59	7188	2.367	16.77	5.465	9.835	1.239	566.415
10/25/2012 15:00	7248	2.367	16.769	5.465	9.835	1.239	566.415
10/25/2012 15:01	7308	2.367	16.77	5.465	9.835	1.239	566.415
10/25/2012 15:02	7368	2.366	16.768	5.464	9.834	1.239	566.414
10/25/2012 15:03	7428	2.366	16.769	5.463	9.833	1.238	566.413
10/25/2012 15:04	7488	2.366	16.771	5.462	9.832	1.238	566.412
10/25/2012 15:05	7548	2.366	16.77	5.462	9.832	1.238	566.412
10/25/2012 15:06	7608	2.366	16.769	5.463	9.833	1.238	566.413
10/25/2012 15:07	7668	2.365	16.77	5.462	9.832	1.238	566.412
10/25/2012 15:08	7728	2.365	16.769	5.461	9.831	1.238	566.411
10/25/2012 15:09	7788	2.365	16.767	5.462	9.832	1.238	566.412
10/25/2012 15:10	7848	2.365	16.774	5.461	9.831	1.238	566.411
10/25/2012 15:11	7908	2.365	16.768	5.461	9.831	1.238	566.411
10/25/2012 15:12	7968	2.365	16.768	5.46	9.83	1.238	566.41
10/25/2012 15:13	8028	2.365	16.77	5.46	9.83	1.238	566.41
10/25/2012 15:14	8088	2.364	16.771	5.458	9.828	1.238	566.408
10/25/2012 15:15	8148	2.364	16.771	5.459	9.829	1.238	566.409
10/25/2012 15:16	8208	2.364	16.767	5.458	9.828	1.238	566.408
10/25/2012 15:17	8268	2.364	16.771	5.458	9.828	1.238	566.408
10/25/2012 15:18	8328	2.364	16.768	5.458	9.828	1.238	566.408
10/25/2012 15:19	8388	2.363	16.77	5.456	9.826	1.238	566.406
10/25/2012 15:20	8448	2.363	16.77	5.456	9.826	1.238	566.406
10/25/2012 15:21	8508	2.363	16.77	5.456	9.826	1.238	566.406
10/25/2012 15:22	8568	2.363	16.771	5.455	9.825	1.237	566.405
10/25/2012 15:23	8628	2.363	16.768	5.455	9.825	1.237	566.405
10/25/2012 15:24	8688	2.362	16.769	5.455	9.825	1.237	566.405
10/25/2012 15:25	8748	2.362	16.77	5.454	9.824	1.237	566.404
10/25/2012 15:26	8808	2.362	16.77	5.454	9.824	1.237	566.404
10/25/2012 15:27	8868	2.362	16.771	5.453	9.823	1.237	566.403
10/25/2012 15:28	8928	2.362	16.769	5.453	9.823	1.237	566.403
10/25/2012 15:29	8988	2.361	16.771	5.452	9.822	1.237	566.402
10/25/2012 15:30	9048	2.361	16.771	5.451	9.821	1.237	566.401
10/25/2012 15:31	9108	2.361	16.771	5.451	9.821	1.237	566.401
10/25/2012 15:32	9168	2.36	16.77	5.45	9.82	1.237	566.4
10/25/2012 15:33	9228	2.36	16.769	5.45	9.82	1.237	566.4
10/25/2012 15:34	9288	2.36	16.767	5.45	9.82	1.237	566.4
10/25/2012 15:35	9348	2.36	16.769	5.449	9.819	1.237	566.399
10/25/2012 15:36	9408	2.359	16.769	5.448	9.818	1.237	566.398
10/25/2012 15:37	9468	2.359	16.771	5.447	9.817	1.236	566.397
10/25/2012 15:38	9528	2.359	16.767	5.446	9.816	1.236	566.396
10/25/2012 15:39	9588	2.359	16.771	5.447	9.817	1.236	566.397
10/25/2012 15:40	9648	2.359	16.77	5.447	9.817	1.236	566.397
10/25/2012 15:41	9708	2.359	16.77	5.446	9.816	1.236	566.396
10/25/2012 15:42	9768	2.359	16.769	5.446	9.816	1.236	566.396

Appendix E-4

MW-26B Transducer Data Emerson Power Transmission Ithaca, New York (a)

Date and Time	Seconds	Pressure (PSI)	Temperature (C)	Depth (ft)	H (ft)	H/H0	Groundwater Elevation (ft AMSL)
10/25/2012 15:43	9828	2.358	16.771	5.445	9.815	1.236	566.395
10/25/2012 15:44	9888	2.358	16.769	5.445	9.815	1.236	566.395
10/25/2012 15:45	9948	2.359	16.769	5.446	9.816	1.236	566.396
10/25/2012 15:46	10008	2.359	16.768	5.446	9.816	1.236	566.396
10/25/2012 15:47	10068	2.359	16.768	5.447	9.817	1.236	566.397
10/25/2012 15:48	10128	2.359	16.768	5.447	9.817	1.236	566.397
10/25/2012 15:49	10188	2.359	16.77	5.447	9.817	1.236	566.397
10/25/2012 15:50	10248	2.359	16.771	5.447	9.817	1.236	566.397
10/25/2012 15:51	10308	2.359	16.771	5.446	9.816	1.236	566.396
10/25/2012 15:52	10368	2.359	16.769	5.447	9.817	1.236	566.397
10/25/2012 15:53	10428	2.359	16.766	5.447	9.817	1.236	566.397
10/25/2012 15:54	10488	2.359	16.77	5.446	9.816	1.236	566.396
10/25/2012 15:55	10548	2.359	16.77	5.446	9.816	1.236	566.396
10/25/2012 15:56	10608	2.359	16.767	5.447	9.817	1.236	566.397
10/25/2012 15:57	10668	2.359	16.769	5.447	9.817	1.236	566.397
10/25/2012 15:58	10728	2.359	16.771	5.447	9.817	1.236	566.397
10/25/2012 15:59	10788	2.359	16.769	5.446	9.816	1.236	566.396
10/25/2012 16:00	10848	2.359	16.769	5.446	9.816	1.236	566.396
10/25/2012 16:01	10908	2.359	16.768	5.446	9.816	1.236	566.396
10/25/2012 16:02	10968	2.358	16.77	5.445	9.815	1.236	566.395
10/25/2012 16:03	11028	2.359	16.769	5.446	9.816	1.236	566.396
10/25/2012 16:04	11088	2.358	16.77	5.445	9.815	1.236	566.395
10/25/2012 16:05	11148	2.359	16.769	5.446	9.816	1.236	566.396
10/25/2012 16:06	11208	2.358	16.769	5.445	9.815	1.236	566.395
10/25/2012 16:07	11267.999	2.358	16.772	5.445	9.815	1.236	566.395

a/ PSI = pounds per square inch; C = Celsius; ft = feet; H = measured height of water column in well; H0 = initial height of water column above mean sea level; TD = total depth; btoc = below top of casing; DTW0 = initial depth to water; D0 = initial depth to water; TOC = top of casing.

Appendix F – Hazardous and Non- Hazardous Waste Disposal Certificates and Waste Manifests

**WSP/Emerson Power Transmission
Ithaca, NY
RSI Project No. 21229
Hazardous Concrete / Debris in Drums
Transported to Spring Grove Disposal Facility in Cincinnati, OH**

Date	Load No.	Ticket #	Total Drums	
9/10/12	1	005617874	13	

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD002228625	2. Page 1 of 1	3. Emergency Response Phone (800)483-3718	4. Manifest Tracking Number 005617874 FLE		
5. Generator's Name and Mailing Address Emerson Power Transmission 620 S. Aurora Street Ithaca, NY 14860 Generator's Phone: (620)331-1200			Generator's Site Address (if different than mailing address) SAME				
6. Transporter 1 Company Name Clean Harbors Environmental Services Inc			U.S. EPA ID Number MAD039322250				
7. Transporter 2 Company Name <i>Frank's Vacuum Truck Service Inc</i>			U.S. EPA ID Number <i>NYD980792814</i>				
8. Designated Facility Name and Site Address Spring Grove Resource Recovery Inc 4879 Spring Grove Avenue Cincinnati, OH 45232 Facility's Phone: (513)681-8738			U.S. EPA ID Number OHD000816629				
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes
			No.	Type			
	1. RQ NAS077, HAZARDOUS WASTE, SOLID, N.O.S., (TRICHLOROETHENE), 9, PG III, (F001)		13	DM	9000	P	F001 L
	2.						
	3.						
4.							
14. Special Handling Instructions and Additional Information 1. CH584444 ERG#171 13X 55							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name <i>As authorized agent of Emerson: Scott Petersen</i>			Signature <i>[Signature]</i>		Month Day Year 17 10 12		
16. International Shipment: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name <i>Walt Skidmore</i>			Signature <i>[Signature]</i>		Month Day Year 9 10 12		
Transporter 2 Printed/Typed Name <i>LARRY KROMER</i>			Signature <i>[Signature]</i>		Month Day Year 09 11 12		
18. Discrepancy							
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection							
Manifest Reference Number							
18b. Alternate Facility (or Generator) U.S. EPA ID Number							
Facility's Phone							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H141		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name <i>Nick...</i>			Signature <i>[Signature]</i>		Month Day Year 09 11 12		



Land Disposal Restriction
Notification Form

Page : 1 of 1

Printed Date : Sep 06, 2012

ENVIRONMENTAL SERVICES
MANIFEST INFORMATION

Generator : Emerson Power Transmission

Address: 620 S. Aurora Street
Ithaca, NY 14850

EPA ID #: NYD002228625

Manifest Tracking Info.

005617874FLE

Sales Order No: 724599948

LINE ITEM INFORMATION

Line Item:	Page No:	Profile No:	Treatability Group:	LDR Disposal Category
1.	1	CH584444	NON-WASTEWATER	4 (Meets LDR Standards)

EPA Waste Code

F001

EPA Waste SubCategory

NONE

LDR Chemical Data

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

Certification

Applies to
Manifest Line
Items

I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR part 268 subpart D. I believe that the information I submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

1.

Waste analysis data, where available, is attached.

Signature :

Print Name

Authorized Agent of Emerson: Scott Peterson

Title :

Associate Engineer

Date :

9/10/12

MMAINT - Manifest Master View**Search Fields**

Manifest Number: 005617874FLE Load Number: ☒ Primary 1 - 005617874
 Sales Order/Task ID: 724599948 Document Number: ☐ Secondary

Manifest Details [Edit](#) [Reset Manifest](#)

Status	Sales Order/Task ID	Sales Order Type	Sales Order Creation User	Manifest Number	Manifest Count	Load Number	Shipment Number	Shipment Job Date	Manifest Date Gen
PR	724599948	TDP	EMBREC1	005617874FLE	1			9/10/2012 8:00:00 AM	9/14/2012

Generator Details

Company Code: EM0394 Company Name: Emerson Power Transmission EPA ID: NYD00228625 State EPA ID: SCOTT PETERSON Signature Date: 9/10/2012
 Addr Type: Generator Addr Address: 620 S. Aurora Street City: Ithaca State: NY Zip: 14850 Route No:
 Job Addr: 620 S. Aurora Street City: Ithaca State: NY Zip: 14850

Manifested Company Details

Manifested Company: SG Company Name: Spring Grove Resource Recovery Inc EPA ID: OHD000816629 Manifest Signature: NICOLE ERDY Signature Date: 9/13/2012 10:49:24 AM

Manifest Lines [Add Manifest Line](#) [Modify Profile/Edit Waste Codes](#) [Edit Compliance](#) [Reassign/Add I](#)

Line No	Profile	DOT Name / TDG	Cntnr No	Cntnr Type	Unit Quantity	UOM
1	CH584444 RQ NA3077, HAZARDOUS WASTE, SOLID, N.O.S. (TRICHLOROETHENE) , 9, PG III, (F001)		13	DM	9000	P

Tracking Number	Disp Line	Orig Qty	UOM Code	Weight	Pre Code	Process Code	Process Status	Customer Number	PCB Type	Out of Service
28347415	1	55	GALS	599	CBPR	CBPR	YES			
28347416	1	55	GALS	599	CBPR	CBPR	YES			
28347417	1	55	GALS	628.3	CBPR	CBPR	YES			
28347418	1	55	GALS	659.5	CBPR	CBPR	YES			
28347419	1	55	GALS	659.5	CBPR	CBPR	YES			
28347420	1	55	GALS	501	CBPR	CBPR	YES			
28347421	1	55	GALS	628.3	CBPR	CBPR	YES			
28347422	1	55	GALS	628.3	CBPR	CBPR	YES			
28347423	1	55	GALS	628.3	CBPR	CBPR	YES			
28347424	1	55	GALS	640	CBPR	CBPR	YES			
28347425	1	55	GALS	640	CBPR	CBPR	YES			
28347426	1	55	GALS	640	CBPR	CBPR	YES			
28347427	1	55	GALS	640	CBPR	CBPR	YES			

Manifest Transporters

Transporter	EPA ID	Driver Signature	Signature Date	Fleet Number
TR	MAD039322250	WALT ST PIERRE	9/10/2012 12:00:00 AM	
FRA506	NYD982792814	Larry Cramer	9/11/2012 12:00:00 AM	

Manifest Tracking History

Hub	Vendor	Trailer Number	Tracking Activity Type	Next Destination	User	Activity Date	
SY	FRA506	FRANKS139B	CR		CHMIELD1	09/10/2012 03:55:50 PM	09
SY	FRA506	FRANKS139B	MOVE	SY	LAPINGS1	09/11/2012 03:30:20 PM	09
SY	FRA506	FRANKS139B	SHP	SG	LAPINGS1	09/11/2012 03:30:54 PM	09
SG	FRA506	FRANKS139B	PR		ERDYN1	09/13/2012 10:49:29 AM	09
SG	FRA506	FRANKS139B	MVPR		ERDYN1	09/13/2012 10:49:29 AM	09

+ Containers**- Annual Reporting**

Line Number	Handling Code	Form Code	Orig Code	System Type	Source Code	Point of Measure
1		W002			G44	

+ Oil Companies

WSP/Emerson Power Transmission
Ithaca, NY
RSI Project No. 21229
Non Hazardous Concrete Floor & Debris
Transported to WM High Acres Landfill in Fairport, NY

Date	Load No.	Ticket #	Truck #	Gross	Tare	Net	Tons	Tons per Day
6/11/12	1	887053	140	82,840	35,980	46,860	23.43	
6/11/12	2	887136	149	103,920	39,480	64,440	32.22	
6/11/12	3	887055	152	94,840	35,820	59,020	29.51	
6/11/12	4	887052	155	87,920	36,560	51,360	25.68	
6/11/12	5	887134	155	86,140	36,240	49,900	24.95	
6/11/12	6	887153	152	102,880	35,360	67,520	33.76	
6/11/12	7	887152	140	91,140	35,660	55,480	27.74	197.29
6/12/12	8	887266	149	107,460	39,740	67,720	33.86	
6/12/12	9	887256	140	110,040	36,420	73,620	36.81	
6/12/12	10	887404	140	102,240	36,080	66,160	33.08	
6/12/12	11	887414	149	102,020	39,640	62,380	31.19	134.94
6/13/12	12	887519	149	107,160	39,740	67,420	33.71	33.71
6/14/12	13	887681	140	49,480	36,540	12,940	6.47	6.47

Total Tons

372.41



High Acres LF
425 Perinton Pkwy
Fairport, NY, 14450
Ph: (585) 223-6132

Original
Ticket# 887681

Customer Name REMEDIATIONSERVICESINC-109215 Carrier mix brothers
Ticket Date 06/14/2012 Vehicle# 140
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0006104
State Waste Code Gen EPA ID
Manifest EM2012-13 Grid CELL 10
Destination
PO 1) 21229 2) 21229 3) 21229
Profile 109215NY (CONCRETE FLOOR AND DEBRIS)
Generator 190-EMERSONPOWERTRANSMISSION Emerson Power Transmission

Volume

	Time	Scale	Operator	Inbound	Gross	
In	06/14/2012 07:12:48	A_Scale_1	JFRUTCHE		Tare	49480 lb
Out	06/14/2012 07:33:31	B_Scale_2	JFRUTCHE		Net	36540 lb
					Tons	12940 lb
						6.47

Comments

Product	LD%	Qty	UDM	Rate	Fee	Amount	Origin
1 Special Misc-Tons-	100	6.47	Tons				TOM
2 FUEL-Fuel Surcharg	100		%				TOM
3 EVF-P-Standard Env	100		%				TOM

Driver's Signature

Total Ticket Total Fees



140

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 620-331-1200	4. Waste Tracking Number EM2012-13
5. Generator's Name and Mailing Address Emerson Power Transmission 703-709-8500 620 South Aurora Street Ithaca, NY 14850 USA		Generator's Site Address (if different than mailing address)			
Generator's Phone:					
6. Transporter 1 Company Name MIX BROTHERS, INC.		U.S. EPA ID Number			
7. Transporter 2 Company Name		U.S. EPA ID Number			
8. Designated Facility Name and Site Address High Acres Landfill 585-223-8132 425 Perinton Pkwy Fairport, NY 14450		U.S. EPA ID Number			
Facility's Phone:					
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1. Non DOT Regulated - Concrete floor and Debris		1	TT	Est. 7	T
2.					
3. Landfill Scale Ticket #					
4.					
13. Special Handling Instructions and Additional Information APPROVAL # 109215NY					
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.					
Generator's/Offoror's Printed/Typed Name <i>Authorized agent of Emerson: Scott Peterson</i>		Signature <i>[Signature]</i>		Month 6	Day 13
15. International Shipments ☐ Import to U.S. ☐ Export from U.S.		Port of entry/exit:		Year 12	
Transporter Signature (for exports only):		Date leaving U.S.:			
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name John Robinson		Signature <i>[Signature]</i>		Month 6	Day 13
Transporter 2 Printed/Typed Name		Signature		Year 12	
				Month	Day
17. Discrepancy					
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection					
Manifest Reference Number:					
17b. Alternate Facility (or Generator)				U.S. EPA ID Number	
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator)				Month	Day
				Year	
18. Designated Facility Owner or Operator. Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name Johnne Frutcher		Signature <i>[Signature]</i>		Month 6	Day 14
				Year 12	



High Acres LF
425 Perinton Pkwy
Fairport, NY, 14450
Ph: (585) 223-6132

Original
Ticket# 887519

Customer Name REMEDIATIONSERVICESINC-109215 Carrier mix brothers
Ticket Date 06/13/2012 Vehicle# 149
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0006104
State Waste Code Gen EPA ID
Manifest EM2012-12 Grid CELL 10
Destination
PO 1) 21229 2) 21229 3) 21229
Profile 109215NY (CONCRETE FLOOR AND DEBRIS)
Generator 190-EMERSONPOWERTRANSMISSION Emerson Power Transmission

Volume

	Time	Scale	Operator	Inbound	Gross	
In	06/13/2012 09:46:32	A_Scale_1	JFRUTCHE		Tare	107160 lb
Out	06/13/2012 10:13:30	B_Scale_2	JFRUTCHE		Net	39740 lb
					Tons	67420 lb
						33.71

Comments

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 Special Misc-Tons-	100	33.71	Tons				TOM
2 FUEL-Fuel Surcharg	100		%				TOM
3 EVF-P-Standard Env	100		%				TOM

Driver's Signature

Total Fees
Total Ticket



149

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator ID Number

2. Page 1 of 1

3. Emergency Response Phone

4. Waste Tracking Number

620-331-1200

EM2012- 12

5. Generator's Name and Mailing Address

Emerson Power Transmission

703-709-8500 620 South Aurora Street

Generator's Site Address (if different than mailing address)

Generator's Phone:

Ithaca, NY 14850 USA

6. Transporter 1 Company Name

MIX BROTHERS, INC.

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

High Acres Landfill

585-223-8132 425 Perinton Pkwy

U.S. EPA ID Number

Facility's Phone:

Fairport, NY 14450

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit WL/Vol.

No.

Type

Quantity

WL/Vol.

1. **Non DOT Regulated - Concrete floor and Debris**

1

TT

EST
32

T

2.
3. **Landfill Scale ticket #**
4.

13. Special Handling Instructions and Additional Information

APPROVAL # 109215NY

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Officer's Printed/Typed Name

Signature

Month Day Year

As authorized agent of Emerson: Scott Petersen

[Signature]

6 13 12

15. International Shipments

☐ Import to U.S.

☐ Export from U.S.

Port of entry/exit:

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

John Robinson

[Signature]

6 13 12

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

☐ Quantity

☐ Type

☐ Residue

☐ Partial Rejection

☐ Full Rejection

Manifest Reference Number:

U.S. EPA ID Number

17b. Alternate Facility (or Generator)

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

Jane Frutney

[Signature]

6 13 12

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY



High Acres LF
425 Perinton Pkwy
Fairport, NY, 14450
Ph: (585) 223-6132

Original
Ticket# 887414

Customer Name REMEDIATIONSERVICESINC-109215 Carrier mix brothers
Ticket Date 06/12/2012 Vehicle# 149
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0006104
State Waste Code Gen EPA ID
Manifest *EM2012-11 Grid CELL 10
Destination
PO 1) 21229 2) 21229 3) 21229
Profile 109215NY (CONCRETE FLOOR AND DEBRIS)
Generator 190-EMERSONPOWERTRANSMISSION Emerson Power Transmission

Volume

	Time	Scale	Operator	Inbound	Gross	102020 lb*
In	06/12/2012 13:45:00	A_Scale_1	maloney		Tare	39640 lb
Out	06/12/2012 14:11:41	B_Scale_2	MALONEY		Net	62380 lb
			* Manual Weight		Tons	31.19

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Special Misc-Tons-	100	31.19	Tons				TOM
2	FUEL-Fuel Surcharg	100		%				TOM
3	EVF-P-Standard Env	100		%				TOM

Total Fees

Total Ticket

Driver's Signature

John

NON-HAZARDOUS
WASTE MANIFEST

1. Generator ID Number

2. Page 1 of

1

3. Emergency Response Phone

620-331-1200

4. Waste Tracking Number

EM2012- 11

5. Generator's Name and Mailing Address

Emerson Power Transmission

Generator's Site Address (if different than mailing address)

703-709-6500

620 South Aurora Street

Generator's Phone:

Ithaca, NY 14850 USA

6. Transporter 1 Company Name

MIX BROTHERS, INC.

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

High Acres Landfill

U.S. EPA ID Number

585-223-6132

425 Perinton Pkwy

Facility's Phone:

Fairport, NY 14450

9. Waste Shipping Name and Description

10. Containers

No.

Type

11. Total
Quantity12. Unit
Wt./Vol.

1. Non DOT Regulated - Concrete floor and Debris

1

TT

32

T

2.

3. Landfill Scale Ticket #

4.

13. Special Handling Instructions and Additional Information

APPROVAL # 109215NY

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offoror's Printed/Typed Name

Signature

Month Day Year

As authorized agent of Emerson: Scott Petersen



6 12 12

15. International Shipments

☐ Import to U.S.☐ Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

John ROBINSON

John Rob

6 12 12

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

☐ Quantity☐ Type☐ Residue☐ Partial Rejection☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

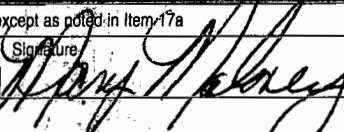
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year



06 12 12



High Acres LF
425 Perinton Pkwy
Fairport, NY, 14450
Ph: (585) 223-6132

Original
Ticket# 887404

Customer Name REMEDIATIONSERVICESINC-109215 Carrier mix brothers
Ticket Date 06/12/2012 Vehicle# 140
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0006104
State Waste Code Gen EPA ID
Manifest EM2012-10 Grid CELL 10
Destination
PO 1) 21229 2) 21229 3) 21229
Profile 109215NY (CONCRETE FLOOR AND DEBRIS)
Generator 190-EMERSONPOWERTRANSMISSION Emerson Power Transmission

	Time	Scale	Operator	Inbound	Gross	102240 lb*
In	06/12/2012 13:16:32	A_Scale_1	mmaloney		Tare	36080 lb
Out	06/12/2012 13:43:54	B_Scale_2	MMALONEY		Net	66160 lb
			* Manual Weight		Tons	33.08

Comments

Product	LDX	Qty	UOM	Rate	Fee	Amount	Origin
1 Special Misc-Tons-	100	33.08	Tons				TOM
2 FUEL-Fuel Surcharg	100		%				TOM
3 EVF-P-Standard Env	100		%				TOM

Driver's Signature  Total Ticket Total Fees

MIX, 40

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 820-331-1200	4. Waste Tracking Number EM2012-10	
5. Generator's Name and Mailing Address Emerson Power Transmission 703-709-8500 620 South Aurora Street Ithaca, NY 14850 USA		Generator's Site Address (if different than mailing address)				
Generator's Phone:						
6. Transporter 1 Company Name MIX BROTHERS, INC.		truck # 140			U.S. EPA ID Number	
7. Transporter 2 Company Name					U.S. EPA ID Number	
8. Designated Facility Name and Site Address High Acres Landfill 585-223-6132 425 Perinton Pkwy Fairport, NY 14450					U.S. EPA ID Number	
Facility's Phone:						
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
		No.	Type			
1. Non DOT Regulated - Concrete floor and Debris		1	TT	30	T	
2.						
3. Land Fill Scale ticket #						
4.						
13. Special Handling Instructions and Additional Information APPROVAL # 109215NY						
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.						
Generator's/Offor's Printed/Typed Name As authorized agent of Emerson: Scott Petersen		Signature <i>[Signature]</i>		Month 6	Day 12	Year 12
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
16. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name Earl C Butts Sr		Signature <i>[Signature]</i>		Month 6	Day 12	Year 12
Transporter 2 Printed/Typed Name		Signature		Month	Day	Year
17. Discrepancy						
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection						
Manifest Reference Number: _____						
17b. Alternate Facility (or Generator) U.S. EPA ID Number						
Facility's Phone: _____						
17c. Signature of Alternate Facility (or Generator) Month Day Year						
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a						
Printed/Typed Name		Signature <i>[Signature]</i>		Month 06	Day 12	Year 10



High Acres LF
425 Perinton Pkwy
Fairport, NY, 14450
Ph: (585) 223-6132

Original
Ticket# 887266

Customer Name REMEDIATIONSERVICESINC-109215 Carrier mix brothers
Ticket Date 06/12/2012 Vehicle# 149
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0006104
State Waste Code Gen EPA ID
Manifest EM2012-08 Grid CELL 10
Destination
PO 1) 21229 2) 21229 3) 21229
Profile 109215NY (CONCRETE FLOOR AND DEBRIS)
Generator 190-EMERSONPOWERTRANSMISSION Emerson Power Transmission

Volume

	Time	Scale	Operator	Inbound	Gross	107460 lb
In	06/12/2012 07:30:37	A_Scale_1	MMALONEY		Tare	39740 lb
Out	06/12/2012 08:02:18	B_Scale_2	MMALONEY		Net	67720 lb
					Tons	33.86

Comments

	Product	LDX	Qty	UOM	Rate	Fee	Amount	Origin
1	Special Misc-Tons-	100	33.86	Tons				TOM
2	FUEL-Fuel Surcharg	100		%				TOM
3	EVF-P-Standard Env	100		%				TOM

Total Fees

Total Ticket

Driver's Signature 

149

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 820-331-1200	4. Waste Tracking Number EM2012-08	
5. Generator's Name and Mailing Address Emerson Power Transmission 703-709-8500 620 South Aurora Street				Generator's Site Address (if different than mailing address)		
Generator's Phone: Ithaca, NY 14850 USA						
6. Transporter 1 Company Name MIX BROTHERS, INC.				U.S. EPA ID Number		
7. Transporter 2 Company Name				U.S. EPA ID Number		
8. Designated Facility Name and Site Address High Acres Landfill 585-223-6132 425 Perinton Pkwy				U.S. EPA ID Number		
Facility's Phone: Fairport, NY 14450						
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
		No.	Type			
1. Non DOT Regulated - Concrete floor and Debris		1	TT	EST. 32	T	
2.						
3. Landfill Scale Ticket #						
4.						
13. Special Handling Instructions and Additional Information APPROVAL # 109215NY						
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.						
Generator's/Offor's Printed/Typed Name As authorized agent of Emerson: Scott Petersen				Signature <i>[Signature]</i>		
				Month Day Year 6 11 12		
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:						
16. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name John Robinson				Signature <i>[Signature]</i>		Month Day Year 6 11 12
Transporter 2 Printed/Typed Name				Signature		Month Day Year
17. Discrepancy						
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection						
Manifest Reference Number:						
17b. Alternate Facility (or Generator)				U.S. EPA ID Number		
Facility's Phone:						
17c. Signature of Alternate Facility (or Generator)				Month Day Year		
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a						
Printed/Typed Name May Maloney				Signature <i>[Signature]</i>		Month Day Year 6 12 12

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY



**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone

4. Waste Tracking Number

620-331-1200

EM2015-09

5. Generator's Name and Mailing Address

Emerson Power Transmission

703-709-8500 620 South Aurora Street

Generator's Phone:

Ithaca, NY 14850 USA

Generator's Site Address (If different than mailing address)

6. Transporter 1 Company Name

MIX BROTHERS, INC.

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

High Acres Landfill

585-223-6132

425 Perinton Pkwy

U.S. EPA ID Number

Facility's Phone:

Fairport, NY 14450

9. Waste Shipping Name and Description

10. Containers

11. Total
Quantity

12. Unit
Wt./Vol.

No.

Type

1. **Non DOT Regulated - Concrete floor and Debris**

1

TT

EST
30

2.

3. **Landfill Scale Ticket #**

4.

13. Special Handling Instructions and Additional Information

APPROVAL # 109215NY

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offor's Printed/Typed Name

Signature

Month Day Year

As authorized agent of Emerson: Scott Petersen

[Signature]

6 11 12

15. International Shipments

☐ Import to U.S.

☐ Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Leo Fawcett - Earl C Butts

[Signature]

6 11 12

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

☐ Quantity

☐ Type

☐ Residue

☐ Partial Rejection

☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a

Printed/Typed Name

Signature

Month Day Year

Sabrina Karamello

[Signature]

6 11 12



High Acres LF
425 Perinton Pkwy
Fairport, NY, 14450
Ph: (585) 223-6132

Original
Ticket# 887153

Customer Name REMEDIATIONSERVICESINC-109215 Carrier mix brothers
Ticket Date 06/11/2012 Vehicle# 152
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0006104
State Waste Code Gen EPA ID
Manifest EM2012-06 Grid CELL 10
Destination
PO 1) 21229 2) 21229 3) 21229
Profile 109215NY (CONCRETE FLOOR AND DEBRIS)
Generator 190-EMERSONPOWERTRANSMISSION Emerson Power Transmission

Volume

	Time	Scale	Operator	Inbound	Gross	
In	06/11/2012 12:17:30	A_Scale_1	smarvin		Tare	102880 lb
Out	06/11/2012 12:41:40	B_Scale_2	MMALONEY		Net	35360 lb
					Tons	67520 lb
						33.76

Comments

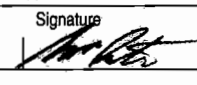
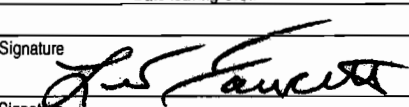
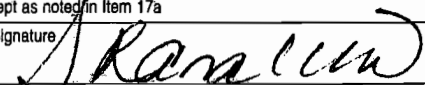
	Product	LDX	Qty	UOM	Rate	Fee	Amount	Origin
1	Special Misc-Tons-	100	33.76	Tons				TOM
2	FUEL-Fuel Surcharg	100		%				TOM
3	EVF-P-Standard Env	100		%				TOM

Total Fees

Total Ticket

Driver's Signature

152

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 820-331-1200	4. Waste Tracking Number EM2012- 06
5. Generator's Name and Mailing Address Emerson Power Transmission 703-709-6500 620 South Aurora Street			Generator's Site Address (if different than mailing address)		
Generator's Phone: Ithaca, NY 14850 USA					
6. Transporter 1 Company Name MIX BROTHERS, INC.				U.S. EPA ID Number	
7. Transporter 2 Company Name				U.S. EPA ID Number	
8. Designated Facility Name and Site Address High Acres Landfill 595-223-6132 425 Perinton Pkwy				U.S. EPA ID Number	
Facility's Phone: Fairport, NY 14450					
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity EST. 30	12. Unit Wt./Vol. T
		No.	Type		
1. Non DOT Regulated - Concrete floor and Debris		1	TT		
2.					
3. Landfill Scale Ticket #					
4.					
13. Special Handling Instructions and Additional Information APPROVAL # 109215NY					
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.					
Generator's/Offeror's Printed/Typed Name As authorized agent of Emerson: Scott Petersen			Signature 		Month Day Year 6 11 12
15. International Shipments ☐ Import to U.S. ☐ Export from U.S.		Port of entry/exit: Date leaving U.S.:			
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Leo Faucett			Signature 		Month Day Year 6 11 12
Transporter 2 Printed/Typed Name			Signature		Month Day Year
17. Discrepancy					
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection					
17b. Alternate Facility (or Generator)				Manifest Reference Number: U.S. EPA ID Number	
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator)				Month Day Year	
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name Sabrin Ranalette			Signature 		Month Day Year 6 11 12



High Acres LF
425 Perinton Pkwy
Fairport, NY, 14450
Ph: (585) 223-6132

Original
Ticket# 887152

Customer Name REMEDIATIONSERVICESINC-109215 Carrier mix brothers
Ticket Date 06/11/2012 Vehicle# 140 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0006104
State Waste Code Gen EPA ID
Manifest EM2012-07 Grid CELL 10
Destination
PO 1) 21229 2) 21229 3) 21229
Profile 109215NY (CONCRETE FLOOR AND DEBRIS)
Generator 190-EMERSONPOWERTRANSMISSION Emerson Power Transmission

	Time	Scale	Operator	Inbound	Gross	91140 lb
In	06/11/2012 12:17:02	A_Scale_1	smarvin		Tare	35660 lb
Out	06/11/2012 12:38:37	B_Scale_2	MMALONEY		Net	55480 lb
					Tons	27.74

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Special Misc-Tons-	100	27.74	Tons				TOM
2	FUEL-Fuel Surcharg	100		%				TOM
3	EVF-P-Standard Env	100		%				TOM

Driver's Signature

Total Ticket Total Fees

140

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 620-331-1200	4. Waste Tracking Number EM2012-07	
5. Generator's Name and Mailing Address Emerson Power Transmission 703-709-6500 620 South Aurora Street Ithaca, NY 14850 USA			Generator's Site Address (if different than mailing address)			
Generator's Phone:						
6. Transporter 1 Company Name MIX BROTHERS, INC.			U.S. EPA ID Number 140			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address High Acres Landfill 685-223-6132 425 Perinton Pkwy Fairport, NY 14450			U.S. EPA ID Number			
Facility's Phone:						
GENERATOR	9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
			No.	Type		
	1. Non DOT Regulated - Concrete floor and Debris		1	TT	201 28	T
	2.					
	3. Landfill Scale Ticket #					
4.						
13. Special Handling Instructions and Additional Information APPROVAL # 109215NY						
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.						
Generator's/Offeror's Printed/Typed Name As authorized agent of Emerson - Scott Petersen			Signature <i>[Signature]</i>		Month 6	Day 11
15. International Shipments ☐ Import to U.S. ☐ Export from U.S.			Port of entry/exit:		Year 12	
Transporter Signature (for exports only):			Date leaving U.S.:			
TRANSPORTER	16. Transporter Acknowledgment of Receipt of Materials					
	Transporter 1 Printed/Typed Name Eric B...			Signature <i>[Signature]</i>		Month 6
	Transporter 2 Printed/Typed Name			Signature		Day 11
					Year 12	
DESIGNATED FACILITY	17. Discrepancy					
	17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection					
	Manifest Reference Number:					
	17b. Alternate Facility (or Generator)			U.S. EPA ID Number		
	Facility's Phone:					
17c. Signature of Alternate Facility (or Generator)					Month 6	
					Day 11	
					Year 12	
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a						
Printed/Typed Name Sabrina R...			Signature <i>[Signature]</i>		Month 6	
					Day 11	
					Year 12	



High Acres LF
425 Perinton Pkwy
Fairport, NY, 14450
Ph: (585) 223-6132

Original
Ticket# 887136

Customer Name REMEDIATIONSERVICESINC-109215 Carrier mix brothers
Ticket Date 06/11/2012 Vehicle# 149
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0006104
State Waste Code Gen EPA ID
Manifest EM2012-02 Grid CELL 10
Destination
PO 1) 21229 2) 21229 3) 21229
Profile 109215NY (CONCRETE FLOOR AND DEBRIS)
Generator 190-EMERSONPOWERTRANSMISSION Emerson Power Transmission

Volume

	Time	Scale	Operator	Inbound	Gross	103920 lb
In	06/11/2012 11:52:51	A_Scale_1	smarvin		Tare	39480 lb
Out	06/11/2012 12:16:36	B_Scale_2	MMALONEY		Net	64440 lb
					Tons	32.22

Comments

	Product	LDX	Qty	UOM	Rate	Fee	Amount	Origin
1	Special Misc-Tons-	100	32.22	Tons				TOM
2	FUEL-Fuel Surcharg	100		%				TOM
3	EVF-P-Standard Env	100		%				TOM

Total Fees
Total Ticket

Driver's Signature

149

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 620-331-1200	4. Waste Tracking Number EM2012-02	
5. Generator's Name and Mailing Address Emerson Power Transmission 703-709-6500 620 South Aurora Street			Generator's Site Address (if different than mailing address)			
Generator's Phone: Ithaca, NY 14850 USA						
6. Transporter 1 Company Name MIX BROTHERS, INC.			U.S. EPA ID Number			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address High Acres Landfill 585-223-6132 425 Perinton Pkwy			U.S. EPA ID Number			
Facility's Phone: Fairport, NY 14450						
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
		No.	Type			
1. Non DOT Regulated - Concrete floor and Debris		1	TT	32	T	
2.						
3. Landfill Scale Ticket #						
4.						
13. Special Handling Instructions and Additional Information APPROVAL # 109215NY						
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.						
Generator's/Offor's Printed/Typed Name As authorized agent of Emerson: Scott Peterson			Signature <i>[Signature]</i>		Month 6	Day 9
					Year 12	
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:						
16. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name John ROBINSON			Signature <i>[Signature]</i>		Month	Day
					Year	
Transporter 2 Printed/Typed Name			Signature		Month	Day
					Year	
17. Discrepancy						
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection						
Manifest Reference Number:						
17b. Alternate Facility (or Generator)			U.S. EPA ID Number			
Facility's Phone:						
17c. Signature of Alternate Facility (or Generator)					Month	Day
					Year	
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 7a						
Printed/Typed Name Sabrina Karamella			Signature <i>[Signature]</i>		Month 6	Day 11
					Year 12	



High Acres LF
425 Perinton Pkwy
Fairport, NY, 14450
Ph: (585) 223-6132

Original
Ticket# 887134

Customer Name REMEDIATIONSERVICESINC-109215 Carrier mix brothers
Ticket Date 06/11/2012 Vehicle# 155 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0006104
State Waste Code Gen EPA ID
Manifest EM2012-05 Grid CELL 10
Destination
PO 1) 21229 2) 21229 3) 21229
Profile 109215NY (CONCRETE FLOOR AND DEBRIS)
Generator 190-EMERSONPOWERTRANSMISSION Emerson Power Transmission

	Time	Scale	Operator	Inbound	Gross	86140 lb
In	06/11/2012 11:51:46	A_Scale_1	smarvin		Tare	36240 lb
Out	06/11/2012 12:13:37	B_Scale_2	MMALONEY		Net	49900 lb
					Tons	24.95

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Special Misc-Tons-	100	24.95	Tons				TOM
2	FUEL-Fuel Surcharg	100		%				TOM
3	EVF-P-Standard Env	100		%				TOM

Total Fees

Total Ticket

Driver's Signature *[Signature]*

155

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 820-831-1200	4. Waste Tracking Number EM2012-05
5. Generator's Name and Mailing Address Emerson Power Transmission 703-709-6500 620 South Aurora Street Ithaca, NY 14850 USA					
Generator's Site Address (if different than mailing address)					
Generator's Phone:					
6. Transporter 1 Company Name MIX BROTHERS, INC.					U.S. EPA ID Number
7. Transporter 2 Company Name					U.S. EPA ID Number
8. Designated Facility Name and Site Address High Acres Landfill 425 Perinton Pkwy 585-223-0132 Fairport, NY 14450					U.S. EPA ID Number
Facility's Phone:					
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1. Non DOT Regulated - Concrete floor and Debris		1	TT	28	T
2.					
3. Landfill Scale Ticket #					
4.					
13. Special Handling Instructions and Additional Information APPROVAL # 109215NY					
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.					
Generator's/Offoror's Printed/Typed Name As authorized agent of Emerson: Scott Petersen		Signature <i>[Signature]</i>		Month 6	Day 11
15. International Shipments ☐ Import to U.S. ☐ Export from U.S.		Port of entry/exit:		Year 12	
Transporter Signature (for exports only):		Date leaving U.S.:			
16. Transporter's Acknowledgment of Receipt of Materials		Signature <i>[Signature]</i>		Month 6	Day 11
Transporter 1 Printed/Typed Name Mike Temple		Signature		Year 12	
Transporter 2 Printed/Typed Name		Signature		Month	Day
17. Discrepancy				Year	
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection		Manifest Reference Number:			
17b. Alternate Facility (or Generator)		U.S. EPA ID Number			
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator)				Month	Day
				Year	
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a					
Printed/Typed Name Sabrina Kanallan		Signature <i>[Signature]</i>		Month 6	Day 11
				Year 12	



High Acres LF
425 Perinton Pkwy
Fairport, NY, 14450
Ph: (585) 223-6132

Original
Ticket# 887052

Customer Name REMEDIATIONSERVICESINC-109215 Carrier mix brothers
Ticket Date 06/11/2012 Vehicle# 155
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0006104
State Waste Code Gen EPA ID
Manifest EM2012-04 Grid CELL 10
Destination
PO 1) 21229 2) 21229 3) 21229
Profile 109215NY (CONCRETE FLOOR AND DEBRIS)
Generator 190-EMERSONPOWERTRANSMISSION Emerson Power Transmission

Volume

	Time	Scale	Operator	Inbound	Gross	
In	06/11/2012 07:13:05	A_Scale_1	SMARVIN		Tare	87920 lb
Out	06/11/2012 07:33:36	B_Scale_2	MMALONEY		Net	36560 lb
					Tons	51360 lb
						25.68

Comments

	Product	LDX	Qty	UOM	Rate	Fee	Amount	Origin
1	Special Misc-Tons-	100	25.68	Tons				TOM
2	FUEL-Fuel Surcharg	100		%				TOM
3	EVF-P-Standard Env	100		%				TOM

Total Fees
Total Ticket

Driver's Signature

Mix 155

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 620-331-1200	4. Waste Tracking Number EM2012-04
5. Generator's Name and Mailing Address Emerson Power Transmission 703-709-6500 620 South Aurora Street		Generator's Site Address (If different than mailing address)		
Generator's Phone: Ithaca, NY 14850 USA				
6. Transporter 1 Company Name MIX BROTHERS, INC.			U.S. EPA ID Number	
7. Transporter 2 Company Name			U.S. EPA ID Number	
8. Designated Facility Name and Site Address High Acres Landfill 586-223-6132 425 Perinton Pkwy			U.S. EPA ID Number	
Facility's Phone: Fairport, NY 14450				
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity
		No.	Type	
1. Non DOT Regulated - Concrete floor and Debris		1	TT	28
2.				
3. Landfill Scale Ticket #				
4.				
13. Special Handling Instructions and Additional Information APPROVAL # 109215NY				
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.				
Generator's/Offeror's Printed/Typed Name As authorized agent of Emerson: Scott Peterson			Signature <i>[Signature]</i>	Month Day Year 6 9 12
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:				
16. Transporter Acknowledgment of Receipt of Materials				
Transporter 1 Printed/Typed Name Mike Temple (O. Mix)			Signature <i>[Signature]</i>	Month Day Year 6 9 12
Transporter 2 Printed/Typed Name			Signature	Month Day Year
17. Discrepancy				
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection				
Manifest Reference Number:				
17b. Alternate Facility (or Generator)			U.S. EPA ID Number	
Facility's Phone:				
17c. Signature of Alternate Facility (or Generator)			Month Day Year	
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a				
Printed/Typed Name Abbrina Kanallio			Signature <i>[Signature]</i>	Month Day Year 6 11 12



High Acres LF
425 Perinton Pkwy
Fairport, NY, 14450
Ph: (585) 223-6132

Original
Ticket# 887053

Customer Name REMEDIATIONSERVICESINC-109215 Carrier mix brothers
Ticket Date 06/11/2012 Vehicle# 140
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0006104
State Waste Code Gen EPA ID
Manifest EM2012-01 Grid CELL 10
Destination
PO 1) 21229 2) 21229 3) 21229
Profile 109215NY (CONCRETE FLOOR AND DEBRIS)
Generator 190-EMERSONPOWERTRANSMISSION Emerson Power Transmission

Volume

	Time	Scale	Operator	Inbound	Gross	
In	06/11/2012 07:15:01	A_Scale_1	SMARVIN		Tare	82840 lb
Out	06/11/2012 07:41:54	B_Scale_2	MMALONEY		Net	35980 lb
					Tons	46860 lb
						23.43

Comments

Product	LDX	Qty	UDM	Rate	Fee	Amount	Origin
1 Special Misc-Tons-	100	23.43	Tons				TOM
2 FUEL-Fuel Surcharg	100		%				TOM
3 EVF-P-Standard Env	100		%				TOM

Total Fees

Total Ticket

Driver's Signature

Paul Bell #140

140

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 620-331-1200	4. Waste Tracking Number EM2012-01	
5. Generator's Name and Mailing Address Emerson Power Transmission 703-709-6500 620 South Aurora Street Ithaca, NY 14850 USA						
Generator's Site Address (if different than mailing address)						
Generator's Phone:						
6. Transporter 1 Company Name MIX BROTHERS, INC.					U.S. EPA ID Number	
7. Transporter 2 Company Name					U.S. EPA ID Number	
8. Designated Facility Name and Site Address High Acres Landfill 585-223-6132 425 Perinton Pkwy Fairport, NY 14450					U.S. EPA ID Number	
Facility's Phone:						
9. Waste Shipping Name and Description			10. Containers		11. Total Quantity	12. Unit Wt./Vol.
			No.	Type		
1. Non DOT Regulated - Concrete floor and Debris			1	TT	28	T
2.						
3. Landfill Scale Ticket #						
4.						
13. Special Handling Instructions and Additional Information APPROVAL # 109215NY						
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.						
Generator's/Offoror's Printed/Typed Name <i>As authorized agent of Emerson: Scott Petersen</i>			Signature <i>[Signature]</i>		Month 6	Day 9
					Year 12	
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:						
16. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name <i>Earl C Butts Sr.</i>			Signature <i>[Signature]</i>		Month 6	Day 9
					Year 12	
Transporter 2 Printed/Typed Name			Signature		Month	Day
					Year	
17. Discrepancy						
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection						
Manifest Reference Number:						
17b. Alternate Facility (or Generator) U.S. EPA ID Number						
Facility's Phone:						
17c. Signature of Alternate Facility (or Generator) Month Day Year						
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a						
Printed/Typed Name <i>Sabrina Karamallou</i>			Signature <i>[Signature]</i>		Month 6	Day 11
					Year 12	



High Acres LF
425 Perinton Pkwy
Fairport, NY, 14450
Ph: (585) 223-6132

Original
Ticket# 887055

Customer Name REMEDIATIONSERVICESINC-109215 Carrier mix brothers
Ticket Date 06/11/2012 Vehicle# 152
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0006104
State Waste Code Gen EPA ID
Manifest EM2012-03 Grid CELL 10
Destination
PO 1) 21229 2) 21229 3) 21229
Profile 109215NY (CONCRETE FLOOR AND DEBRIS)
Generator 190-EMERSONPOWERTRANSMISSION Emerson Power Transmission

Volume

	Time	Scale	Operator	Inbound	Gross	
In	06/11/2012 07:16:30	A_Scale_1	SMARVIN		Tare	94840 lb
Out	06/11/2012 07:45:21	B_Scale_2	MMALONEY		Net	35820 lb
					Tons	59020 lb
						29.51

Comments

	Product	LDX	Qty	UOM	Rate	Fee	Amount	Origin
1	Special Misc-Tons-	100	29.51	Tons				TOM
2	FUEL-Fuel Surcharg	100		%				TOM
3	EVF-P-Standard Env	100		%				TOM

Total Fees

Total Ticket

Driver's Signature

Mix 152

GENERATOR	NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 620-331-1200	4. Waste Tracking Number EM2012-03	
	5. Generator's Name and Mailing Address Emerson Power Transmission 703-709-8500 620 South Aurora Street Ithaca, NY 14850 USA			Generator's Site Address (if different than mailing address)			
	6. Transporter 1 Company Name MIX BROTHERS, INC.			U.S. EPA ID Number			
	7. Transporter 2 Company Name			U.S. EPA ID Number			
	8. Designated Facility Name and Site Address High Acres Landfill 685-223-6132 425 Perinton Pkwy Fairport, NY 14450			U.S. EPA ID Number			
	9. Waste Shipping Name and Description			10. Containers		11. Total Quantity	12. Unit Wt./Vol.
				No.	Type		
	1. Non DOT Regulated - Concrete floor and Debris			1	TT	30	T
	2.						
	3. Landfill Scale Ticket #						
4.							
TRANSPORTER	13. Special Handling Instructions and Additional Information APPROVAL # 109215NY						
	14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.						
	Generator's/Offor's Printed/Typed Name As authorized agent of Emerson: Scott Peterson				Signature <i>[Signature]</i>		Month Day Year 6 9 12
	15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
	16. Transporter Acknowledgment of Receipt of Materials						
	Transporter 1 Printed/Typed Name Leo FauceTT				Signature <i>[Signature]</i>		Month Day Year 6 9 12
	Transporter 2 Printed/Typed Name				Signature		Month Day Year
	17. Discrepancy						
	17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection						
	DESIGNATED FACILITY	Manifest Reference Number:					
17b. Alternate Facility (or Generator)				U.S. EPA ID Number			
Facility's Phone:							
17c. Signature of Alternate Facility (or Generator)						Month Day Year	
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a							
Printed/Typed Name Sabrina Ranallo				Signature <i>[Signature]</i>		Month Day Year 6 11 12	

WSP/Emerson Power Transmission
Ithaca, NY
RSI Project No. 21229
Non Hazardous Contaminated Soil in Roll Off Containers
Transported to WM High Acres Landfill in Fairport, NY

Date	Load No.	Ticket #	Truck #	Tons
6/28/12	1	889765	418	17.31
6/28/12	2	887136	149	12.82
Total Tons				30.13

WASTE MANAGEMENT
 MANAGEMENT OF NY
 s Landfill
 anton Pkwy
 rt, NY 14450-9104

Account Number: 300-0006111-2277-1
 Invoice Date: 07/01/2012
 Invoice Number: 0051417-2277-6
 Due Date: Due Upon Receipt
 WM ezPay Account ID: 00011-04100-03008

Date	Ticket	Description	Quantity	U/M	Rate	Amount
06/28/12	889765	Vehicle#:418 Po#:21229 Special waste misc Fuel surcharge - landfill Standard environmental fee - percent (landfill) Profile # 109275ny Generator emerson power transmission Manifest# 001 Ticket Total	17.31	TON		
06/28/12	889766	Vehicle#:rtl-7 Po#:21229 Special waste misc Fuel surcharge - landfill Standard environmental fee - percent (landfill) Profile # 109275ny Generator emerson power transmission Manifest# 002 Ticket Total	12.82	TON		
Total charges for service location						
Total Current Charges			30.13 tons			

NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <u>NYD0002228625</u>		Manifest Document No. <u>001</u>		2. Page 1 of 1	
3. Generator's Name and Mailing Address <u>Emerson Power Transmission Facility</u> <u>620 S. Aurora Street</u> <u>Ithaca, NY 14850</u>							
4. Generator's Phone () <u>315-655-3900</u>							
5. Transporter 1 Company Name <u>HazMat Environmental Group, Inc.</u>		6. US EPA ID Number <u>NYD980769947</u>		A. State Transporter's ID			
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone <u>716-827-7200</u>			
9. Designated Facility Name and Site Address <u>WM of New York - High Acres Landfill</u> <u>425 Perinton Pkwy - Fairport, NY 14450</u>		10. US EPA ID Number		C. State Transporter's ID			
				D. Transporter 2 Phone			
				E. State Facility's ID			
				F. Facility's Phone <u>585-223-6132</u>			
11. WASTE DESCRIPTION				12. Containers		13. Total Quantity	
				No. Type		Unit	
a. <u>Non-Hazardous Solidified Trench Sediments</u>				<u>01</u> <u>Roll off</u>		<u>EST. 14</u>	
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above <u>Waste Management Profile Approval Number 109275NY</u> <u>Expires: 12/01/2012</u>				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
On behalf of <u>Emerson Power Transmission</u>						Date	
Printed/Typed Name <u>Scott Petersen, As authorized agent for Emerson</u>				Signature <u>[Signature]</u>		Month Day Year <u>6 28 12</u>	
17. Transporter 1 Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name <u>Kenn Massard</u>				Signature <u>[Signature]</u>		Month Day Year <u>6 28 12</u>	
18. Transporter 2 Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name						Date	
Signature						Month Day Year	

NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <u>NYD002228625</u>		Manifest Document No. <u>002</u>		2. Page 1 of 1	
3. Generator's Name and Mailing Address <u>Emerson Power Transmission Facility</u> <u>620 B. Aurora Street</u> <u>Ithaca, NY 14850</u>		4. Generator's Phone () <u>315-655-3900</u> <u>(607) 761-1036</u>					
5. Transporter 1 Company Name <u>HazMat Environmental Group, Inc.</u>		6. US EPA ID Number <u>NYD990769947</u>		A. State Transporter's ID			
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone <u>716-827-7200</u>			
9. Designated Facility Name and Site Address <u>WM of New York - High Acres Landfill</u> <u>425 Perinton Pkwy - Fairport, NY 14450</u>		10. US EPA ID Number		C. State Transporter's ID			
				D. Transporter 2 Phone			
				E. State Facility's ID			
				F. Facility's Phone <u>585-223-6132</u>			
11. WASTE DESCRIPTION				12. Containers		13. Total Quantity	
				No.	Type		
a. <u>Non-Hazardous Solidified Trench Sediments</u>				<u>01</u>	<u>Roll off</u>	<u>EST 12</u>	<u>Tons</u>
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above <u>Waste Management Profile Approval Number 109275NY</u> <u>Expires: 12/01/2012</u>				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information <u>P/M - SB1303</u>							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
On behalf of <u>Emerson Power Transmission</u>						Date	
Printed/Typed Name <u>Scott Peterson, Assistant Agent of Emerson</u>				Signature <u>[Signature]</u>		Month Day Year <u>6 12 12</u>	
17. Transporter 1 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name <u>TONY CABIN</u>				Signature <u>[Signature]</u>		Month Day Year <u>06 29 12</u>	
18. Transporter 2 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
						Date	
Printed/Typed Name				Signature		Month Day Year	



PICK UP

DELIVERY

NAME HIGHPOWER POWER TRANSMISSION

STREET 620 SOUTH ARIORA

CITY ITHACA **STATE** NY **ZIP CODE** 14850

CONTACT NAME **PHONE**

SCHEDULED TIME

NAME HIGH ACRES LANDFILL

STREET 425 PERINTON HWY

CITY FAIRPORT **STATE** NY **ZIP CODE** 14450

CONTACT NAME **PHONE**

ADDITIONAL INFORMATION / EQUIPMENT DAMAGE
 If damaged at pickup site, did you send in Equipment Damage Report (EDR) via Qualcomm? Y N Explain damage below.

Pursuant to 6NYCRR 372.2 (b) (2) (iii) HazMat certifies that it is Authorized to deliver this shipment of manifested waste to the TSDF listed on this Bill of Lading. Shipment valuation limits apply from HazMat Rules Publication 101, Item 848.

ADDITIONAL INFORMATION / EQUIPMENT DAMAGE
 If damaged at delivery site, did you send in Equipment Damage Report (EDR) via Qualcomm? Y N Explain damage below.

PURCHASE ORDER NO. 21229-0514

WORK ORDER NUMBER

MANIFEST NUMBER

H.M. NUMBER 327894

LOAD NUMBER

TRACTOR 418

TRAILER UNKNOWN

ROLL OFF BOX 1023

DRIVER NUMBER MAGGARD

DRIVER'S NAME MAGGARD, KEVIN

EQUIPMENT

MATERIAL DESCRIPTION/MANIFEST NUMBER

QUANTITY

Product unloading station and/or tank approved by:

EQUIPMENT TYPE

UNIT# DROPPED

UNIT# PICKED UP

CONDITION REPORT

CONSIGNEE'S SIGNATURE

Compressor used YES NO

In-Transit Heat used: YES NO

Analysis/C of A: YES NO

PICK UP

DELIVERY

PICK UP DATE 6-22-12

DRIVER DAY #1 DATE

ARRIVAL TIME 8:00 AM PM RELEASE TIME AM PM

ARRIVAL TIME AM PM RELEASE TIME AM PM

DAY #2 DATE

DAY #2 DATE ARRIVAL TIME AM PM RELEASE TIME AM PM

ARRIVAL TIME AM PM RELEASE TIME AM PM

DAY #3 DATE ARRIVAL TIME AM PM RELEASE TIME AM PM

TRAILER EMPTY UPON ARRIVAL ☐ YES
 (if not, explain below—)

TRAILER CLEAN AND EMPTY UPON DEPARTURE ☐ YES ☐ NO
 (if not, explain below—)

DIP MEASUREMENT (Tankers Only) INCHES

COMMENTS: (EXPLAIN ALL DELAYS)

COMMENTS: (Explain all delays or discrepancies)

HAZMAT MATERIALS USED (ex. overpacks, etc.): ☐ YES ☐ NO

IF YES EXPLAIN:

I, THE UNDERSIGNED, CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND COMPLETE.

IF YES EXPLAIN:

I, THE UNDERSIGNED, CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND COMPLETE.

SHIPPER'S SIGNATURE

Date

CONSIGNEE'S SIGNATURE

Date

HazMat

ENVIRONMENTAL GROUP, INC
60 Commerce Drive, Buffalo, NY 14216
www.hazmatinc.com

FAX (716) 827-7217
(716) 827-7200



DATE

532002

NYDEC #9A-278
EPA ID# NYD980769947

PICK UP

DELIVERY

SHIPPER	NAME	ELDERSON POWER TRANSMISSION			CONSIGNEE	NAME	HIGH ACTUS LANDFILL		
	STREET	410 SOUTH AUBURN				STREET	415 PERINTON PKWY		
	CITY	STATE	ZIP CODE	CITY		STATE	ZIP CODE		
	CONTACT NAME	PHONE		CONTACT NAME		PHONE			
	SCHEDULED TIME								

ADDITIONAL INFORMATION / EQUIPMENT DAMAGE

If damaged at pickup site, did you send in Equipment Damage Report (EDR) via Qualcomm? ☒ Y ☐ N Explain damage below.

Pursuant to 6NYCRR 372.2 (b) (2) (iii) HazMat certifies that it is Authorized to deliver this shipment of manifested waste to the TSDF listed on this Bill of Lading. Shipment valuation limits apply from HazMat Rules Publication 101, Item 848.

ADDITIONAL INFORMATION / EQUIPMENT DAMAGE

If damaged at delivery site, did you send in Equipment Damage Report (EDR) via Qualcomm? ☒ Y ☐ N Explain damage below.

PURCHASE ORDER NO.

WORK ORDER NUMBER

MANIFEST NUMBER

H.M. NUMBER

LOAD NUMBER

TRACTOR

TRAILER

ROLL OFF BOX

DRIVER NUMBER

DRIVER'S NAME

EQUIPMENT

MATERIAL DESCRIPTION/MANIFEST NUMBER

QUANTITY

Product unloading station and/or tank approved by:

EQUIPMENT TYPE

UNIT# DROPPED

UNIT# PICKED UP

CONDITION REPORT

NONHAZ / NON REG

SOLID DEBRIS

25000

PIU - SB1303

CONSIGNEE'S SIGNATURE

Compressor used YES ☐ NO ☐

In-Transit Heat used: YES ☐ NO ☐

Analysis/C of A: YES ☐ NO ☐

PICK UP

DELIVERY

PICK UP DATE

ARRIVAL TIME

DAY #2 DATE

ARRIVAL TIME

TRAILER EMPTY UPON ARRIVAL ☐ YES

DIP MEASUREMENT (Tankers Only) _____ INCHES

COMMENTS: (EXPLAIN ALL DELAYS)

HAZMAT MATERIALS USED (ex. overpacks, etc.): ☐ YES ☐ NO

IF YES EXPLAIN:

I, THE UNDERSIGNED, CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND COMPLETE.

SHIPPER'S SIGNATURE

Date

DRIVER

DAY #1 DATE

ARRIVAL TIME

RELEASE TIME

DAY #2 DATE

ARRIVAL TIME

RELEASE TIME

DAY #3 DATE

ARRIVAL TIME

RELEASE TIME

TRAILER CLEAN AND EMPTY UPON DEPARTURE ☐ YES ☐ NO

(If not, explain below—)

COMMENTS: (Explain all delays or discrepancies)

IF YES EXPLAIN:

I, THE UNDERSIGNED, CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND COMPLETE.

CONSIGNEE'S SIGNATURE

Date

HAZMAT BILL OF LADING GENERATOR COPY

Site Address: 620 South Aurora Street
Ithaca, NY 14850

SC PPW 3/3/2011

WORK ORDER NO. 724546694

DOCUMENT NO. 450568

STRAIGHT BILL OF LADING

TRANSPORTER 1 Clean Harbor Environmental Services Inc VEHICLE ID # _____
EPA ID # MAD039322250 TRANS. 1 PHONE (781) 792-5000
TRANSPORTER 2 _____ VEHICLE ID # _____
EPA ID # _____ TRANS. 2 PHONE _____

DESIGNATED FACILITY <u>Spring Grove Resource Recovery Inc</u>			SHIPPER <u>Emerson Power Transmission</u>		
FACILITY EPA ID # <u>OH0000816629</u>			SHIPPER EPA ID # <u>NYD002228625</u>		
ADDRESS <u>4879 Spring Grove Avenue</u>			ADDRESS <u>c/o WSP Environmental & Energy 5 Sullivan Street</u>		
CITY <u>Cincinnati</u>		STATE <u>OH</u>	ZIP <u>45232</u>	CITY <u>Cazenovia</u>	
		STATE <u>NY</u>	ZIP <u>13035</u>		
CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS	TOTAL QUANTITY	UNIT WT/VOL
<u>7X45</u>	<u>DM</u>		<u>ANON D.O.T. REGULATED, (SOIL/MOTOR OIL/WOOD DEBRIS/WATER)</u>	<u>4,000</u>	<u>P</u>
			<u>B NON-RCRA HAZARDOUS WASTE SOLIDS, (ONLY WOOD DEBRIS)</u>		
			<u>U2CP 9-10-12</u>		
			C.		
			D.		
			E.		
			F.		
			G.		
			H.		
SPECIAL HANDLING INSTRUCTIONS EMERGENCY PHONE #: (800) 488-3718 GENERATOR: Emerson Power Transmission					
<u>A.CH576606 B.CH576608</u>					

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

SHIPPER	PRINT	SIGN	DATE
TRANSPORTER 1	PRINT	SIGN	DATE
TRANSPORTER 2	PRINT	SIGN	DATE
RECEIVED BY	PRINT	SIGN	DATE

4

Site Address : 620 South Aurora Street
Ithaca, NY 14850

SC PPW 3/3/2011

WORK ORDER NO. 724546670

DOCUMENT NO.

450571

STRAIGHT BILL OF LADING

TRANSPORTER 1 Clean Harbors Environmental Services Inc VEHICLE ID # _____

EPA ID # MAD039322250 TRANS. 1 PHONE (781) 792-5000

TRANSPORTER 2 _____ VEHICLE ID # _____

EPA ID # _____ TRANS. 2 PHONE _____

DESIGNATED FACILITY <u>Spring Grove Resource Recovery Inc</u>			SHIPPER <u>Emerson Power Transmission</u>		
FACILITY EPA ID # <u>OH0000816629</u>			SHIPPER EPA ID # <u>NY0002228625</u>		
ADDRESS <u>4519 Spring Grove Avenue</u>			ADDRESS <u>c/o Wep Environmental & Energy 5 Sullivan Street</u>		
CITY <u>Cincinnati</u>		STATE <u>OH</u>	ZIP <u>45232</u>	CITY <u>Cazenovia</u>	
STATE <u>OH</u>		ZIP <u>45232</u>		STATE <u>NY</u>	
ZIP <u>45232</u>		CITY <u>Cazenovia</u>		ZIP <u>13035</u>	
CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS	TOTAL QUANTITY	UNIT WT/VOL
<u>7X55</u>	<u>DM</u>		<u>ANON DOT REGULATED MATERIAL, (DRILLING FLUIDS & DECONT. WATER)</u>	<u>2,300</u>	<u>P</u>
<u>7X55</u>	<u>DM</u>		<u>BNON D.O.T. REGULATED, (WATER/OIL/SOLIDS/DEBRIS)</u>	<u>4,000</u>	<u>P</u>
<u>4X7070</u>	<u>TP</u>		<u>CNON D.O.T. REGULATED, (GROUNDWATER/OIL MIXTURE)</u>	<u>6,500</u>	<u>P</u>
			D.		
			E.		
			F.		
			G.		
			H.		
SPECIAL HANDLING INSTRUCTIONS EMERGENCY PHONE #: (800) 498-3718 GENERATOR: Emerson Power Transmission					
A.CH500300 B.CH576617 C.CH576623					

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

SHIPPER	PRINT	SIGN	DATE
TRANSPORTER 1	PRINT	SIGN	DATE
TRANSPORTER 2	PRINT	SIGN	DATE
RECEIVED BY	PRINT	SIGN	DATE

4

NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 001		2. Page 1 of 1	
3. Generator's Name and Mailing Address Emerson Power Transmission Facility 620 S. Aurora Street Ithaca, NY 14850							
4. Generator's Phone () (607) 761-1436							
5. Transporter 1 Company Name HazMat Environmental Group, Inc.		6. US EPA ID Number NY 0980769947		A. State Transporter's ID NY 10084PB			
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone 716-827-7200			
				C. State Transporter's ID			
				D. Transporter 2 Phone			
9. Designated Facility Name and Site Address WM of New York - High Acres Landfill 425 Perinton Pkwy - Fairport, NY 14450		10. US EPA ID Number		E. State Facility's ID			
				F. Facility's Phone 585-223-6132			
11. WASTE DESCRIPTION				12. Containers		13. Total Quantity	
				No. Type		Unit Wt./Vol.	
a. Non-Hazardous Concrete & Floor Debris				01 Roll off		12 Tons	
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above Waste Management Profile Approval Number 109215NY Expires: 7/1/2013				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
On behalf of Emerson Power Transmission							
Printed/Typed Name Daniel Liwicki				Signature <i>Daniel Liwicki</i>		Date Month Day Year 1 10 7 11 3	
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature <i>Kevin Maggard</i>		Date Month Day Year 1 6 7 13	
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Date Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name				Signature		Date Month Day Year	

NON-HAZARDOUS WASTE

TRANSPORTER

FACILITY

Mat

[illegible]

● 中国书画函授大学肇庆分校

[illegible]

[illegible]

7-24-1967	7-25-1967	7-26-1967	7-27-1967	7-28-1967

[illegible]

EQUIPMENT	MAKE	MODEL	YEAR	UNIT IDENT. NUMBER	QUANTITY	Project, placing station and/or tank approved by:
EQUIPMENT TYPE						PROJECT NO. _____
W/TH DROPPED						Contractor used: YES _____ NO _____
W/TH PICKED UP						Pl. Signet Meter used: YES _____ NO _____
CHECKER REPORT						Approved by A: YES _____ NO _____

DATE	DELIVER
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PICK UP DATE		DAY #1 DATE	
ARRIVAL TIME	RELEASE TIME	ARRIVAL TIME	RELEASE TIME
DAY #2 DATE		DAY #2 DATE	
ARRIVAL TIME	RELEASE TIME	ARRIVAL TIME	RELEASE TIME
TRAILER EMPTY UPON ARRIVAL ☐ YES ☐ NO		TRAILER CLEAN AND EMPTY UPON DEPARTURE ☐ YES ☐ NO	
IF MEASUREMENT IS NOT 6'0" ☐ YES ☐ NO		IF MEASUREMENT IS NOT 6'0" ☐ YES ☐ NO	
COMMENTS (EXPLAIN ALL DELAYS)		COMMENTS (EXPLAIN ALL DELAYS)	
IF YES EXPLAIN		IF YES EXPLAIN	
I THE UNDERSIGNED CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND COMPLETE		I THE UNDERSIGNED CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND COMPLETE	
SIGNATURE OF DRIVER		SIGNATURE OF DRIVER	

THE HISTORY OF THE UNITED STATES

WSP

11190 Sunrise Valley Drive
Suite 300
Reston, VA 20191
Tel: +1 703 709 6500
Fax: +1 703 709 8505
www.wspgroup.com/usa

