11190 Sunrise Valley Drive
Suite 300
Reston, VA 20191
Main: 703 709 6500
www.wspgroup.com/usa

VIA ELECTRONIC MAIL

December 20, 2013

Karen Cahill
Project Manager
New York State Department of Environmental Conservation
Department of Environmental Remediation
615 Erie Boulevard West
Syracuse, New York 13204-2400

Re: Fire Water Reservoir Decommissioning
Emerson Power Transmission – Ithaca, New York
Order on Consent #A7-0125-87-09

Dear Karen:

On behalf of Emerson, WSP USA Corp. (WSP) is submitting this letter report summarizing the work activities involving the decommissioning of the fire water reservoir (FWR) at the Emerson Power Transmission (EPT) site in Ithaca, New York. Decommissioning activities commenced on October 21, 2013 and the work was substantively completed on November 15, 2013. Figure 1 illustrates the as-built conditions following completion of the decommissioning and Enclosure A contains a log of photographs depicting milestones in the project.

Prior to the decommissioning, the FWR had been covered with a high-density polyethylene liner which was anchored with sand bags. This liner was removed in three pieces, folded, and placed inside the main building for potential future use (photo 1). The following paragraphs summarize the major components of the decommissioning project.

Concrete Sampling and Characterization

The initial activity involved collecting chip samples from the top surface and underside of the concrete slab and interior sidewalls of the FWR for characterization purposes. The chip samples were obtained from the initial 1-2 inches of the concrete surface using a hammer drill with a pre-cleaned drill bit. Four chip samples were collected from the top surface of the slab; two from the slab above the north tank and two from the slab above the south tank. Following removal of the slab 6 concrete chip samples were collected of the underside of the slab.

Within the north tank, concrete chip samples were collected from the interior surface of the east, south, and west walls approximately 1 foot below the top of the wall. The north wall, which also serves as a foundation to the boiler house building, was not sampled as it was to remain in-place. The sample location on the west wall of the north tank is visible in photograph 7.

Within the south tank, one concrete chip sample was collected from each of the north, south, and east walls, at a distance of approximately 1 foot from the top of the wall. Along the west wall, four concrete chip samples were collected at approximately 1.5 feet, 3 feet, 4.5 feet, and 6 feet from the top of the wall. The sample locations along the west wall of the south tank are visible in photograph 8.

All chip samples were placed in laboratory-provided glass jars, sealed, packaged in an iced cooler with chain of custody, and shipped via overnight courier to Accutest of New England. The samples were analyzed for target compound list volatile organic compounds (TCL VOCs) using EPA Method 8260B, TCL semi-volatile organic compounds (SVOCs) using EPA Method 8270C, target analyte list metals (TAL metals) using EPA Method 6061/7000, pesticides and polychlorinated biphenyls (PCBs) using EPA Method 8081/8082 and reactivity, ignitability, and corrosivity using EPA Methods 7.3.4.2/7.3.3.2, 1030, and 9045, respectively. The underside slab samples were analyzed for TCL VOCs using EPA Method 8260B.

The analytical results for the concrete chip samples collected from the surface and underside of the slab are presented in Table 1 and the laboratory data reports are included as Enclosure B. For the 4 chip samples collected from the top surface (FWR-NE-LID, FWR-NW-LID, FWR-SE-LID, and FWR-SW-LID), no VOCs or PCBs were detected at concentrations of regulatory concern for characteristic hazardous waste determinations. Low levels of SVOS and metals were reported and no pesticides were detected in any sample. For the 6 underside chip samples (FWR-NT-BEAM, FWR-NT-SLAB, FWR-ST-BEAM, FWR-ST-SLAB, FWR-NT-SLAB1, and FWR-NT-SLAB2), trichloroethene (TCE) was detected in one of the 4 samples collected from the north tank at a concentration of 12.2 micrograms per kilogram (ug/kg).

The analytical results for concrete chip samples collected from the interior walls are presented in Table 2 and the laboratory data reports are included as Enclosure B. The interior chip samples collected one foot below the top of the wall showed no VOC detections. These include the samples obtained from the east, south and west walls of the north tank (FWR-NTEW-1.0, FWR-NTSW-1.0, and FWR-NTWW-1.0) and samples from the north, south, and east walls of the south tank (FWR-STEW-1.0, FWR-STNW-1.0, and FWR-STSW-1.0). Along the west wall of the south tank, no VOCs were detected in the samples collected 1.5 feet, 3 feet and 4.5 feet below the top (FWR-STWW-1.5, FWR-STWW-3.0, and FWR-STWW-4.5). The sample collected at 6 feet below the top of the west wall contained 121 ug/kg of TCE (FWR-STWW-6.0).

A review of the chip sampling results for the walls and underside of the concrete slab shows that the reported detection of TCE in one sample from the underside of the north slab was an anomaly. This determination is based on the fact that no VOCs were detected in the remaining 5 samples collected from the underside of the slab and none of the samples collected from 1 or 1.5 feet below the interior top of the walls contained VOCs. Based on these analytical results, all of the concrete removed during the decommissioning was managed as non-hazardous.

It was determined, based on the wall sampling results, that the west concrete wall could be removed to a depth of 4.5 feet, and managed as non-hazardous. The sampling data were provided to Waste Management for profiling and the concrete to be removed was accepted for disposal at the High Acres Landfill.

Catch Basin Sump Modifications

A storm sewer catch basin to the east of the FWR was modified to prevent water from entering the FWR in the future. The concrete catch basin is approximately 6-feet in length, 4 feet in width, and 4 feet in depth and is divided in half by a center wall (Figure 1). The western portion of the catch basin contained a pipe that fed to the FWR. The eastern portion has an inlet pipe that originates from nearby catch basins and roof drains and an outlet pipe that discharges to Outfall 001.

The western half of the catch basin was completely filled with concrete to the top of the dividing wall in order to seal it off from the FWR. The eastern half of the catch basin was filled with concrete to below the pipe inverts. The existing inlet and outlet pipes to the eastern portion of the catch basin were left unobstructed to allow continued through-flow to the outfall.

Fire Water Reservoir Dewatering and Decommissioning

The north and south tanks of the FWR were dewatered using submersible electric pumps. Water was pumped through temporary hoses to a frac tank staged in the parking lot to the northwest of FWR. A total of approximately 40,600 gallons of water was pumped from the FWR between mid-day October 21 and mid-day October 23. Two electric submersible pumps were placed in the frac tank and plumbed with garden hoses to the existing groundwater treatment system. Water was pumped from the frac tank at a rate of between 5 and 10 gallons per minute (gpm) to the equalization tank of the IRM system where it combined with water extracted from the dual phase extraction wells. The flow from the frac tank was controlled by operating one or both pumps, and was dependent upon the performance of the treatment system. In general, two pumps were operated during the day shift while the treatment system was manned. One of the pumps was generally shut off during the off-hours. The water was fed to the treatment system and subsequently routed to Outfall 001. Water treatment occurred from October 21 through October 25. The existing extraction wells were operated in normal mode throughout this process.

A debris staging area was designated in the asphalt lot in front of dock 4 (near the south end of Building 34). The staging area was prepared by lining the asphalt with a sheet of polyethylene. Additional rolls of polyethylene were stored in the area for daily cover over the concrete debris. In addition, an acetylene torch was used to cut protruding rebar, when necessary.

Following dewatering, the top concrete slabs over the north and south tanks of the FWR were removed using an excavator equipped with a hydraulic hammer. The concrete debris was allowed to fall into the FWR and then removed using the bucket Enclosure to the excavator. Reinforcing bar present throughout the slab and connecting into the perimeter walls (photo 2) was cut using an acetylene torch. For the most part, reinforcing bar was left in the concrete for disposal. Reinforcing bar that protruded from the concrete debris was cut and managed with the concrete debris. Demolition of the top slab above the south tank was completed on October 23 (photo 3), and demolition of the slab above the north tank was completed on October 24. When the excavator had removed as much of the concrete debris as feasible working from the ground surface, a mini-excavator was lowered in the FWR to pick up the remaining concrete debris and place it within the reach of the excavator. The concrete debris was staged on plastic sheeting near loading dock 4, located at the far south end of the main building.

The ten temporary monitoring points (MP-1 through MP-10) were removed in conjunction with the removal of the concrete slab and debris removal from the FWR. Monitoring points that did not penetrate the bottom slab were pulled by hand while points that penetrated the bottom slab were removed using the mini-excavator. The monitoring point caps and steel casing were managed with the concrete debris.

The west wall of the FWR was removed to a depth of 4.5 feet below the top of the wall (photo 10). The center and the south walls of the FWR were removed and sloped from east to west to meet the depth of west. The east and north walls remained unchanged following removal of the slab. Removal of the walls of the FWR was completed on November 5 (photo13). Concrete debris was also staged at the dock 4 staging area which was lined using plastic sheeting and also covered daily with plastic sheeting.

All debris generated during decommissioning was managed as non-hazardous and disposed of at High Acres Landfill in Fairport, New York. A total approximately 241 tons of debris were shipped offsite on November 13 and November 14, 2013. Documentation is included as Enclosure C. Photo 16 depicts the final conditions at the dock 4 staging area following debris and polyethylene sheeting removal.

Pump and Pipe Decommissioning

An inspection of the reservoir suction pump located in the boiler room basement confirmed that it had been isolated from the fire suppression system and that the pump motor had been removed. A flange on the suction side of the pump was removed and a quick connect grout fitting was attached. Next, grout was pumped into the 12-inch steel suction line running back to the north tank of the FWR (photo 11). The line was confirmed fully grouted once grout material was observed at the FWR. Finally, the line at the FWR was plugged with bricks and mortar.

In addition to the suction line, the following penetrations in the FWR walls were sealed with bricks and mortar:

- 10-inch overflow to Outfall 001 at the southwest corner of the south tank
- 8-inch diameter penetration through the center wall (connecting the two tanks)
- 10-inch diameter penetration at the southeast corner of the south tank (this penetration was not illustrated in any of the record drawings)

An inspection revealed that the 12-inch condensate return line illustrated in the drawings had already been abandoned and removed.

Drain Hole Construction

A series of drain holes were drilled through the walls of the FWR to allow drainage of water that may collect in the future. In the south tank two holes were drilled through each of the south, east, and west walls at a height of approximately 5 feet above the base (total of 6 holes in the south tank). This depth was designed to allow hydraulic communication with the surrounding B-zone aquifer and represents an elevation that is approximately 2 to 3 feet below the seasonal high water table elevation.

In the north tank a total of three holes were drilled through the east wall at a height of approximately 8 feet above the base. This elevation is estimated to be slightly above the seasonal high water table elevation and would therefore allow any water that accumulates to continually drain out of the tank, yet prevent inflow during normal groundwater table elevations.

Core holes were drilled by subcontractor Nothnagle Drilling (photo 5). Drill holes were 3 inches in diameter and penetrated through the entire wall thickness. Wall penetration was generally confirmed visually by inspecting the core sample or by water loss during the coring operation. The thickness of the walls at points where holes were drilled ranged from 41 inches to 51 inches and the average was approximately 44 inches. No water was observed to drain from any of the holes following drilling.

Observation Well and Piezometer Installation

An observation well and a piezometer were installed in the southeast corner of the south tank of the FWR (photo 6). The observation well was constructed of 4-inch diameter, type 304 stainless steel with a

5-foot length of 0.10 slot stainless steel screen, which was set directly on the base of the FWR. A piezometer constructed of 1-inch diameter, type 304 stainless steel with a 5-foot length of 0.10 slot stainless steel well screen also was installed. The observation well and piezometer were placed directly on the base of the FWR, extended to the surface, and completed with separate lockable steel protective casings which were cast into a concrete pad near the surface (photos 14 and 15).

The wells are located approximately 8 feet away from the east wall and 1 to 2 feet away from the south wall of the south tank. The wells are also coincident with one of the core holes drilled in the south wall of the south tank.

Backfilling

The FWR tanks were backfilled using 2-inch crusher-run stone supplied by RMS Gravel, Inc., located in Dryden, New York. The crushed stone backfill was placed and compacted in 1 foot lifts to the top of the reduced walls. Approximately 2,190 tons of crushed stone was placed in the tanks. The final grade of the crushed stone was sloped toward the west to promote drainage of precipitation. Backfilling was completed on November 13, 2013 (photo 15).

Restoration

All restoration activities were performed on November 15, the last day of site work. A 10-ounce separation fabric was placed over the footprint of the FWR, and extended into disturbed areas to the west (photo 18 and 19). A layer of coarse riprap (8- to 12-inch maximum size) was then placed on top of the fabric to stabilize the surface, prevent erosion due to runoff, and prevent vehicular traffic from entering the FWR footprint (photo 19 and 20).

As discussed in the LNAPL report dated October 10, 2013, monitoring of existing wells to the west and south of the FWR will continue. In addition the well installed in the southeast corner of the south tank will be included in the monitoring program.

Sincerely yours,

Kevin D. Sullivan, PE
Senior Project Director

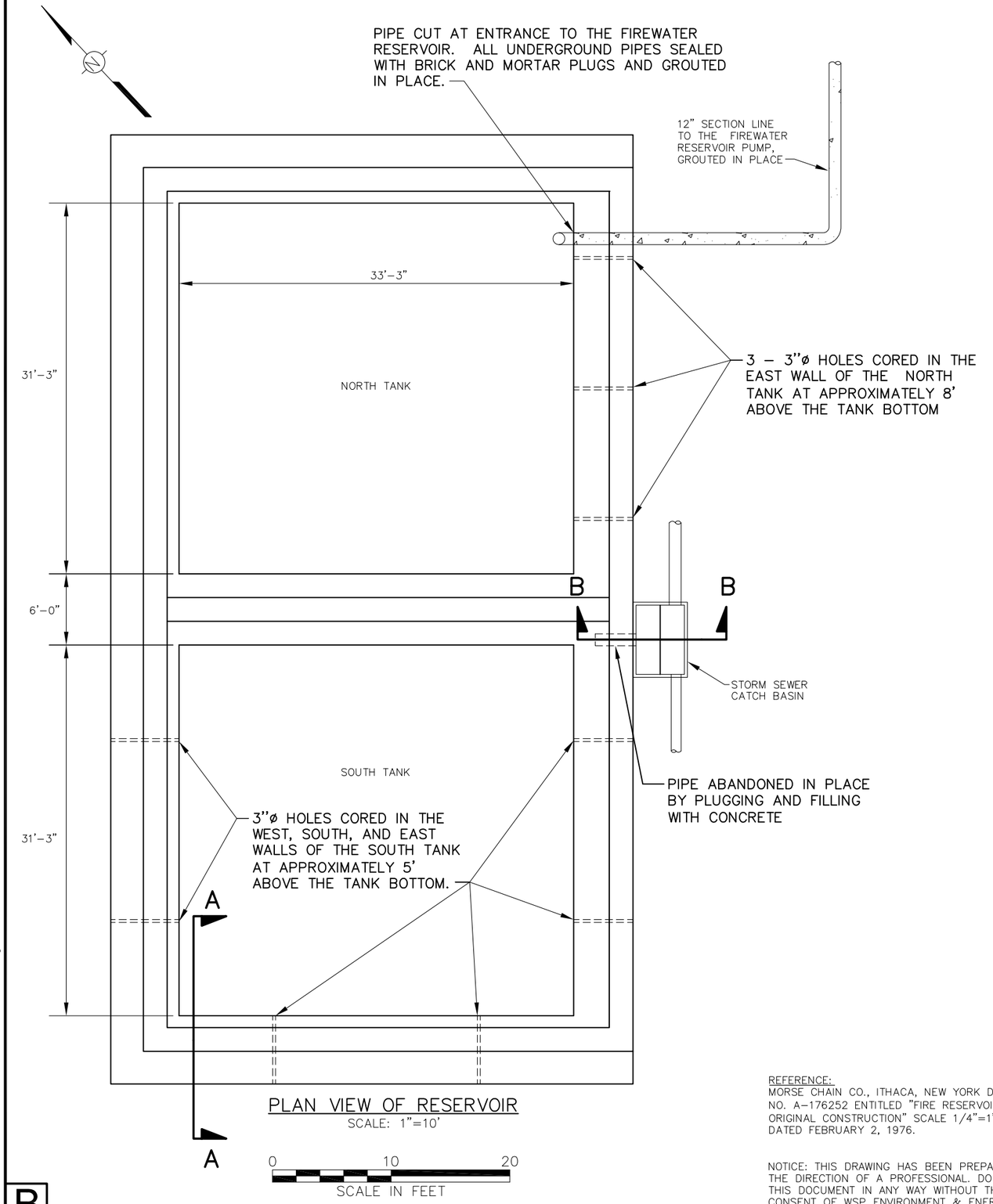
James P. Bulman
Executive Vice President

JPB:rlo
k:\emerson\ithaca_ithaca_080074\task_08_fire water reservoir\decommissioning\letter.hw75510.2013-12-20

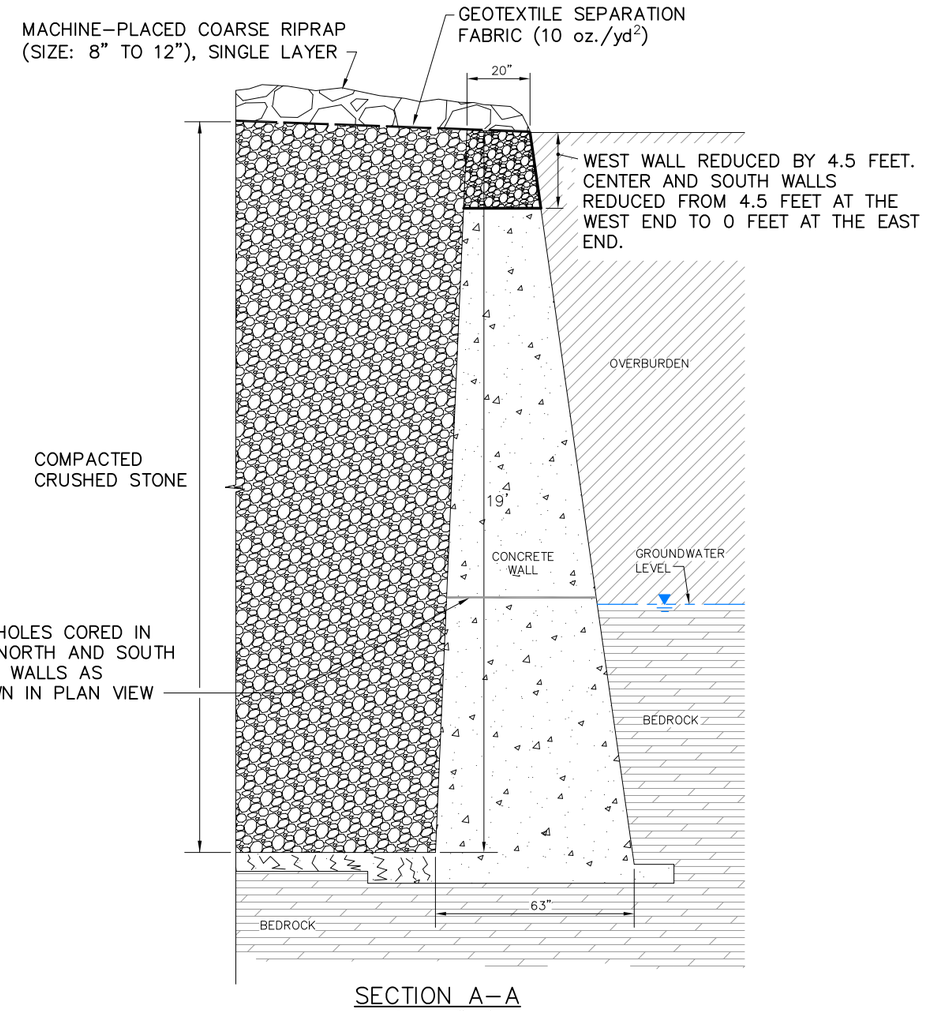
Enclosures

cc\encl: Derek Chase, Emerson

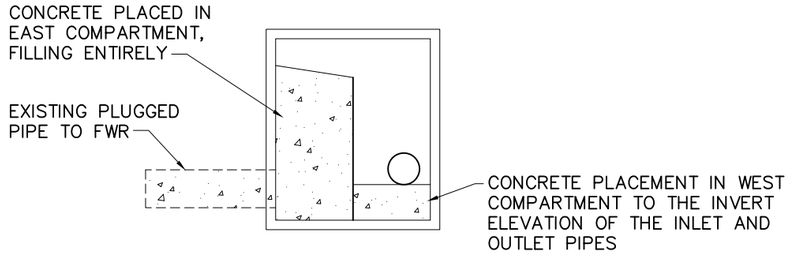
Figure



PLAN VIEW OF RESERVOIR
SCALE: 1"=10'



SECTION A–A
SCALE: 1"=4'



SECTION B–B
SCALE: 1"=4'

0 4 8
SCALE IN FEET

REFERENCE:
MORSE CHAIN CO., ITHACA, NEW YORK DRAWING NO. A–176252 ENTITLED "FIRE RESERVOIR–ORIGINAL CONSTRUCTION" SCALE 1/4"=1'–0", DATED FEBRUARY 2, 1976.

Drawn By: EGC
Checked: KJS 11/25/2013
Approved:
DWG Name: 00004507-108

EMERSON POWER TRANSMISSION
ITHACA, NEW YORK
PREPARED FOR
EMERSON
ST. LOUIS, MISSOURI

FIGURE 1
FIREWATER RESERVOIR DECOMMISSIONING

WSP
WSP USA Corp.
11190 Sunrise Valley Drive, Suite 300
Reston, Virginia 20191
(703) 709-6500
www.wspenvironmental.com/usa

B

Tables

Table 1

Concrete Slab Waste Characterization Samples
Fire Water Reservoir Decommissioning
Emerson Power Transmission
Ithaca, New York

Sample ID:	FWR-NE-LID-102113	FWR-NW-LID-102113	FWR-SE-LID-102113	FWR-SW-LID-102113	FWR-NT-BEAM-103113	FWR-NT-SLAB-103113	FWR-ST-BEAM-103113	FWR-ST-SLAB-103113	FWR-NT-SLAB1-111213	FWR-NT-SLAB2-111213
Date Sampled:	**10/21/2013**	**10/21/2013**	**10/21/2013**	**10/21/2013**	**10/31/2013**	**10/31/2013**	**10/31/2013**	**10/31/2013**	**11/12/2013**	**11/12/2013**
Matrix:	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**
VOCs (mg/kg)										
Acetone	ND (0.010)	ND (0.012)	ND (0.57)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.012)	ND (0.012)	ND (0.54)	ND (0.51)
Benzene	ND (0.00051)	ND (0.00058)	ND (0.028)	0.001	0.00067	0.00087	0.0011	0.0012	ND (0.027)	ND (0.026)
Bromodichloromethane	ND (0.0020)	ND (0.0023)	ND (0.11)	ND (0.0022)	ND (0.0022)	ND (0.0023)	ND (0.0023)	ND (0.0023)	ND (0.11)	ND (0.10)
Bromoform	ND (0.0020)	ND (0.0023)	ND (0.11)	ND (0.0022)	ND (0.0022)	ND (0.0023)	ND (0.0023)	ND (0.0023)	ND (0.11)	ND (0.10)
Bromomethane	ND (0.0020)	ND (0.0023)	ND (0.11)	ND (0.0022)	ND (0.0022)	ND (0.0023)	ND (0.0023)	ND (0.0023)	ND (0.11)	ND (0.10)
2-Butanone (MEK)	ND (0.0051)	ND (0.0058)	ND (0.28)	ND (0.0054)	ND (0.0055)	ND (0.0057)	ND (0.0058)	ND (0.0058)	ND (0.27)	ND (0.26)
Carbon disulfide	ND (0.0051)	ND (0.0058)	ND (0.28)	ND (0.0054)	ND (0.0055)	ND (0.0057)	ND (0.0058)	ND (0.0058)	ND (0.27)	ND (0.26)
Carbon tetrachloride	ND (0.0020)	ND (0.0023)	ND (0.11)	ND (0.0022)	ND (0.0022)	ND (0.0023)	ND (0.0023)	ND (0.0023)	ND (0.11)	ND (0.10)
Chlorobenzene	ND (0.0020)	ND (0.0023)	ND (0.11)	ND (0.0022)	ND (0.0022)	ND (0.0023)	ND (0.0023)	ND (0.0023)	ND (0.11)	ND (0.10)
Chloroethane	ND (0.0051)	ND (0.0058)	ND (0.28)	ND (0.0054)	ND (0.0055)	ND (0.0057)	ND (0.0058)	ND (0.0058)	ND (0.27)	ND (0.26)
Chloroform	ND (0.0020)	ND (0.0023)	ND (0.11)	ND (0.0022)	ND (0.0022)	ND (0.0023)	ND (0.0023)	ND (0.0023)	ND (0.11)	ND (0.10)
Chloromethane	ND (0.0051)	ND (0.0058)	ND (0.28)	ND (0.0054)	ND (0.0055)	ND (0.0057)	ND (0.0058)	ND (0.0058)	ND (0.27)	ND (0.26)
Dibromochloromethane	ND (0.0020)	ND (0.0023)	ND (0.11)	ND (0.0022)	ND (0.0022)	ND (0.0023)	ND (0.0023)	ND (0.0023)	ND (0.11)	ND (0.10)
1,1-Dichloroethane	ND (0.0020)	ND (0.0023)	ND (0.11)	ND (0.0022)	ND (0.0022)	ND (0.0023)	ND (0.0023)	ND (0.0023)	ND (0.11)	ND (0.10)
1,2-Dichloroethane	ND (0.0020)	ND (0.0023)	ND (0.11)	ND (0.0022)	ND (0.0022)	ND (0.0023)	ND (0.0023)	ND (0.0023)	ND (0.11)	ND (0.10)
1,1-Dichloroethene	ND (0.0020)	ND (0.0023)	ND (0.11)	ND (0.0022)	ND (0.0022)	ND (0.0023)	ND (0.0023)	ND (0.0023)	ND (0.11)	ND (0.10)
cis-1,2-Dichloroethene	ND (0.0020)	ND (0.0023)	ND (0.11)	ND (0.0022)	ND (0.0022)	ND (0.0023)	ND (0.0023)	ND (0.0023)	ND (0.11)	ND (0.10)
trans-1,2-Dichloroethene	ND (0.0020)	ND (0.0023)	ND (0.11)	ND (0.0022)	ND (0.0022)	ND (0.0023)	ND (0.0023)	ND (0.0023)	ND (0.11)	ND (0.10)
1,2-Dichloropropane	ND (0.0020)	ND (0.0023)	ND (0.11)	ND (0.0022)	ND (0.0022)	ND (0.0023)	ND (0.0023)	ND (0.0023)	ND (0.11)	ND (0.10)
cis-1,3-Dichloropropene	ND (0.0020)	ND (0.0023)	ND (0.11)	ND (0.0022)	ND (0.0022)	ND (0.0023)	ND (0.0023)	ND (0.0023)	ND (0.11)	ND (0.10)
trans-1,3-Dichloropropene	ND (0.0020)	ND (0.0023)	ND (0.11)	ND (0.0022)	ND (0.0022)	ND (0.0023)	ND (0.0023)	ND (0.0023)	ND (0.11)	ND (0.10)
Ethylbenzene	ND (0.0020)	ND (0.0023)	ND (0.11)	ND (0.0022)	ND (0.0022)	ND (0.0023)	ND (0.0023)	ND (0.0023)	ND (0.11)	ND (0.10)
2-Hexanone	ND (0.0051)	ND (0.0058)	ND (0.28)	ND (0.0054)	ND (0.0055)	ND (0.0057)	ND (0.0058)	ND (0.0058)	ND (0.27)	ND (0.26)
4-Methyl-2-pentanone (MIBK)	ND (0.0051)	ND (0.0058)	ND (0.28)	ND (0.0054)	ND (0.0055)	ND (0.0057)	ND (0.0058)	ND (0.0058)	ND (0.27)	ND (0.26)
Methylene chloride	ND (0.0020)	ND (0.0023)	ND (0.11)	ND (0.0022)	0.006	0.0034	0.0024	ND (0.0023)	ND (0.11)	ND (0.10)
Styrene	ND (0.0051)	ND (0.0058)	ND (0.28)	ND (0.0054)	ND (0.0055)	ND (0.0057)	ND (0.0058)	ND (0.0058)	ND (0.27)	ND (0.26)
1,1,2,2-Tetrachloroethane	ND (0.0020)	ND (0.0023)	ND (0.11)	ND (0.0022)	ND (0.0022)	ND (0.0023)	ND (0.0023)	ND (0.0023)	ND (0.11)	ND (0.10)
Tetrachloroethene	ND (0.0020)	ND (0.0023)	ND (0.11)	ND (0.0022)	ND (0.0022)	ND (0.0023)	ND (0.0023)	ND (0.0023)	ND (0.11)	ND (0.10)
Toluene	ND (0.0051)	ND (0.0058)	ND (0.28)	ND (0.0054)	ND (0.0055)	ND (0.0057)	ND (0.0058)	ND (0.0058)	ND (0.27)	ND (0.26)
1,1,1-Trichloroethane	ND (0.0020)	ND (0.0023)	ND (0.11)	ND (0.0022)	ND (0.0022)	ND (0.0023)	ND (0.0023)	ND (0.0023)	ND (0.11)	ND (0.10)
1,1,2-Trichloroethane	ND (0.0020)	ND (0.0023)	ND (0.11)	ND (0.0022)	ND (0.0022)	ND (0.0023)	ND (0.0023)	ND (0.0023)	ND (0.11)	ND (0.10)
Trichloroethene	ND (0.0020)	ND (0.0023)	ND (0.11)	ND (0.0022)	0.0122	ND (0.0023)	ND (0.0023)	ND (0.0023)	ND (0.11)	ND (0.10)
Vinyl chloride	ND (0.0020)	ND (0.0023)	ND (0.11)	ND (0.0022)	ND (0.0022)	ND (0.0023)	ND (0.0023)	ND (0.0023)	ND (0.11)	ND (0.10)
Xylene (total)	ND (0.0020)	ND (0.0023)	ND (0.11)	0.0036	ND (0.0022)	0.003	0.0037	0.0044	ND (0.11)	ND (0.10)

Table 1

Concrete Slab Waste Characterization Samples
Fire Water Reservoir Decommissioning
Emerson Power Transmission
Ithaca, New York

Sample ID:	FWR-NE-LID-102113	FWR-NW-LID-102113	FWR-SE-LID-102113	FWR-SW-LID-102113	FWR-NT-BEAM-103113	FWR-NT-SLAB-103113	FWR-ST-BEAM-103113	FWR-ST-SLAB-103113	FWR-NT-SLAB1-111213	FWR-NT-SLAB2-111213
Date Sampled:	**10/21/2013**	**10/21/2013**	**10/21/2013**	**10/21/2013**	**10/31/2013**	**10/31/2013**	**10/31/2013**	**10/31/2013**	**11/12/2013**	**11/12/2013**
Matrix:	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**
SVOCs (mg/kg)										
2-Chlorophenol	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	NA	NA	NA	NA	NA	NA
4-Chloro-3-methyl phenol	ND (0.51)	ND (0.52)	ND (0.51)	ND (0.53)	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ND (0.51)	ND (0.52)	ND (0.51)	ND (0.53)	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ND (0.51)	ND (0.52)	ND (0.51)	ND (0.53)	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.1)	NA	NA	NA	NA	NA	NA
4,6-Dinitro-o-cresol	ND (0.51)	ND (0.52)	ND (0.51)	ND (0.53)	NA	NA	NA	NA	NA	NA
2-Methylphenol	ND (0.51)	ND (0.52)	ND (0.51)	ND (0.53)	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ND (0.51)	ND (0.52)	ND (0.51)	ND (0.53)	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ND (0.51)	ND (0.52)	ND (0.51)	ND (0.53)	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.1)	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ND (0.51)	ND (0.52)	ND (0.51)	ND (0.53)	NA	NA	NA	NA	NA	NA
Phenol	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ND (0.51)	ND (0.52)	ND (0.51)	ND (0.53)	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ND (0.51)	ND (0.52)	ND (0.51)	ND (0.53)	NA	NA	NA	NA	NA	NA
Acenaphthene	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.11)	NA	NA	NA	NA	NA	NA
Acenaphthylene	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.11)	NA	NA	NA	NA	NA	NA
Anthracene	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.11)	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ND (0.10)	0.106	0.185	0.121	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ND (0.10)	0.106	0.178	0.116	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ND (0.10)	0.128	0.333	0.207	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ND (0.10)	ND (0.10)	0.165	ND (0.11)	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ND (0.10)	ND (0.10)	0.19	0.116	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ND (0.51)	ND (0.52)	ND (0.51)	ND (0.53)	NA	NA	NA	NA	NA	NA
Carbazole	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.11)	NA	NA	NA	NA	NA	NA
Chrysene	ND (0.10)	0.109	0.47	0.362	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	NA	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ND (0.51)	ND (0.52)	ND (0.51)	ND (0.53)	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ND (0.51)	ND (0.52)	ND (0.51)	ND (0.53)	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.11)	NA	NA	NA	NA	NA	NA
Dibenzofuran	ND (0.10)	ND (0.10)	0.102	ND (0.11)	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	NA	NA	NA	NA	NA	NA

Table 1

Concrete Slab Waste Characterization Samples
Fire Water Reservoir Decommissioning
Emerson Power Transmission
Ithaca, New York

Sample ID:	FWR-NE-LID-102113	FWR-NW-LID-102113	FWR-SE-LID-102113	FWR-SW-LID-102113	FWR-NT-BEAM-103113	FWR-NT-SLAB-103113	FWR-ST-BEAM-103113	FWR-ST-SLAB-103113	FWR-NT-SLAB1-111213	FWR-NT-SLAB2-111213
Date Sampled:	**10/21/2013**	**10/21/2013**	**10/21/2013**	**10/21/2013**	**10/31/2013**	**10/31/2013**	**10/31/2013**	**10/31/2013**	**11/12/2013**	**11/12/2013**
Matrix:	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**
SVOCs (mg/kg)										
bis(2-Ethylhexyl)phthalate	ND (0.26)	ND (0.26)	0.97	0.962	NA	NA	NA	NA	NA	NA
Fluoranthene	ND (0.10)	0.25	0.622	0.422	NA	NA	NA	NA	NA	NA
Fluorene	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.11)	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ND (0.51)	ND (0.52)	ND (0.51)	ND (0.53)	NA	NA	NA	NA	NA	NA
Hexachloroethane	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ND (0.10)	ND (0.10)	0.18	0.118	NA	NA	NA	NA	NA	NA
Isophorone	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ND (0.10)	ND (0.10)	0.417	ND (0.11)	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ND (0.51)	ND (0.52)	ND (0.51)	ND (0.53)	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ND (0.51)	ND (0.52)	ND (0.51)	ND (0.53)	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ND (0.51)	ND (0.52)	ND (0.51)	ND (0.53)	NA	NA	NA	NA	NA	NA
Naphthalene	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.11)	NA	NA	NA	NA	NA	NA
Nitrobenzene	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	NA	NA	NA	NA	NA	NA
Phenanthrene	ND (0.10)	0.206	0.462	0.291	NA	NA	NA	NA	NA	NA
Pyrene	ND (0.10)	0.2	0.421	0.293	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	NA	NA	NA	NA	NA	NA
Pesticides (mg/kg)										
Aldrin	ND (0.0051)	ND (0.0051)	ND (0.0051)	ND (0.0052)	NA	NA	NA	NA	NA	NA
alpha-BHC	ND (0.0051)	ND (0.0051)	ND (0.0051)	ND (0.0052)	NA	NA	NA	NA	NA	NA
beta-BHC	ND (0.0051)	ND (0.0051)	ND (0.0051)	ND (0.0052)	NA	NA	NA	NA	NA	NA
delta-BHC	ND (0.0051)	ND (0.0051)	ND (0.0051)	ND (0.0052)	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	ND (0.0051)	ND (0.0051)	ND (0.0051)	ND (0.0052)	NA	NA	NA	NA	NA	NA
alpha-Chlordane	ND (0.0051)	ND (0.0051)	ND (0.0051)	ND (0.0052)	NA	NA	NA	NA	NA	NA
gamma-Chlordane	ND (0.0051)	ND (0.0051)	ND (0.0051)	ND (0.0052)	NA	NA	NA	NA	NA	NA
Dieldrin	ND (0.0051)	ND (0.0051)	ND (0.0051)	ND (0.0052)	NA	NA	NA	NA	NA	NA
4,4'-DDD	ND (0.0051)	ND (0.0051)	ND (0.0051)	ND (0.0052)	NA	NA	NA	NA	NA	NA
4,4'-DDE	ND (0.0051)	ND (0.0051)	ND (0.0051)	ND (0.0052)	NA	NA	NA	NA	NA	NA
4,4'-DDT	ND (0.0051)	ND (0.0051)	ND (0.0051)	ND (0.0052)	NA	NA	NA	NA	NA	NA
Endrin	ND (0.0051)	ND (0.0051)	ND (0.0051)	ND (0.0052)	NA	NA	NA	NA	NA	NA
Endosulfan sulfate	ND (0.0051)	ND (0.0051)	ND (0.0051)	ND (0.0052)	NA	NA	NA	NA	NA	NA
Endrin aldehyde	ND (0.0051)	ND (0.0051)	ND (0.0051)	ND (0.0052)	NA	NA	NA	NA	NA	NA
Endosulfan-I	ND (0.0051)	ND (0.0051)	ND (0.0051)	ND (0.0052)	NA	NA	NA	NA	NA	NA
Endosulfan-II	ND (0.0051)	ND (0.0051)	ND (0.0051)	ND (0.0052)	NA	NA	NA	NA	NA	NA
Heptachlor	ND (0.0051)	ND (0.0051)	ND (0.0051)	ND (0.0052)	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	ND (0.0051)	ND (0.0051)	ND (0.0051)	ND (0.0052)	NA	NA	NA	NA	NA	NA
Methoxychlor	ND (0.0051)	ND (0.0051)	ND (0.0051)	ND (0.0052)	NA	NA	NA	NA	NA	NA
Endrin ketone	ND (0.0051)	ND (0.0051)	ND (0.0051)	ND (0.0052)	NA	NA	NA	NA	NA	NA
Toxaphene	ND (0.051)	ND (0.051)	ND (0.051)	ND (0.052)	NA	NA	NA	NA	NA	NA

Table 1

Concrete Slab Waste Characterization Samples
Fire Water Reservoir Decommissioning
Emerson Power Transmission
Ithaca, New York

Sample ID:	FWR-NE-LID-102113	FWR-NW-LID-102113	FWR-SE-LID-102113	FWR-SW-LID-102113	FWR-NT-BEAM-103113	FWR-NT-SLAB-103113	FWR-ST-BEAM-103113	FWR-ST-SLAB-103113	FWR-NT-SLAB1-111213	FWR-NT-SLAB2-111213
Date Sampled:	**10/21/2013**	**10/21/2013**	**10/21/2013**	**10/21/2013**	**10/31/2013**	**10/31/2013**	**10/31/2013**	**10/31/2013**	**11/12/2013**	**11/12/2013**
Matrix:	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**
PCBs (mg/kg)										
Aroclor 1016	ND (0.025)	ND (0.025)	ND (0.026)	ND (0.026)	NA	NA	NA	NA	NA	NA
Aroclor 1221	ND (0.025)	ND (0.025)	ND (0.026)	ND (0.026)	NA	NA	NA	NA	NA	NA
Aroclor 1232	ND (0.025)	ND (0.025)	ND (0.026)	ND (0.026)	NA	NA	NA	NA	NA	NA
Aroclor 1242	ND (0.025)	ND (0.025)	ND (0.026)	ND (0.026)	NA	NA	NA	NA	NA	NA
Aroclor 1248	ND (0.025)	ND (0.025)	ND (0.026)	ND (0.026)	NA	NA	NA	NA	NA	NA
Aroclor 1254	ND (0.025)	ND (0.025)	9.95	0.336	NA	NA	NA	NA	NA	NA
Aroclor 1260	ND (0.025)	ND (0.025)	ND (0.026)	ND (0.026)	NA	NA	NA	NA	NA	NA
Metals (mg/kg)										
Aluminum	8550	9240	7230	6830	NA	NA	NA	NA	NA	NA
Antimony	<0.91	<0.92	<0.91	<0.92	NA	NA	NA	NA	NA	NA
Arsenic	3.6	3.5	3.6	3.9	NA	NA	NA	NA	NA	NA
Barium	101	60.8	152	148	NA	NA	NA	NA	NA	NA
Beryllium	<0.36	<0.37	<0.36	<0.37	NA	NA	NA	NA	NA	NA
Cadmium	<0.36	<0.37	<0.36	0.72	NA	NA	NA	NA	NA	NA
Calcium	144000	139000	160000	146000	NA	NA	NA	NA	NA	NA
Chromium	13.1	14.3	9.4	12.2	NA	NA	NA	NA	NA	NA
Cobalt	5	5	4.9	8.7	NA	NA	NA	NA	NA	NA
Copper	13.4	18.7	18.2	29.9	NA	NA	NA	NA	NA	NA
Iron	11300	12100	9000	9650	NA	NA	NA	NA	NA	NA
Lead	6.9	10.1	12.7	36.4	NA	NA	NA	NA	NA	NA
Magnesium	7690	12000	10300	18200	NA	NA	NA	NA	NA	NA
Manganese	417	316	457	395	NA	NA	NA	NA	NA	NA
Mercury	<0.033	<0.033	<0.034	0.033	NA	NA	NA	NA	NA	NA
Nickel	10.1	10.7	10	12.9	NA	NA	NA	NA	NA	NA
Potassium	1520	1440	1070	1470	NA	NA	NA	NA	NA	NA
Selenium	<0.91	<0.92	<0.91	<0.92	NA	NA	NA	NA	NA	NA
Silver	<0.45	<0.46	<0.46	<0.46	NA	NA	NA	NA	NA	NA
Sodium	935	864	<460	<460	NA	NA	NA	NA	NA	NA
Thallium	<0.91	<0.92	<0.91	<0.92	NA	NA	NA	NA	NA	NA
Vanadium	10.7	11.3	13.2	12.6	NA	NA	NA	NA	NA	NA
Zinc	37.6	34.2	31.3	55.3	NA	NA	NA	NA	NA	NA
General Chemistry										
Corrosivity as pH	12.3	12.3	12.2	11.7	NA	NA	NA	NA	NA	NA
Cyanide Reactivity (mg/kg)	<1.5	<1.6	<1.6	<1.6	NA	NA	NA	NA	NA	NA
Ignitability (Flashpoint) (Deg F)	>230	>230	>230	>230	NA	NA	NA	NA	NA	NA
Solids, Percent	95.1	94.2	94.6	94.9	NA	NA	NA	NA	NA	NA
Sulfide Reactivity (mg/kg)	<53	<53	<53	<53	NA	NA	NA	NA	NA	NA

Table 2

Concrete Wall Waste Characterization Samples
Fire Water Reservoir Decommissioning
Emerson Power Transmission
Ithaca, New York

Sample ID:	FWR-NTEW-1.0-102813	FWR-NTSW-1.0-102813	FWR-NTWW-1.0-102813	FWR-STEW-1.0-102813	FWR-STNW-1.0-102813	FWR-STSW-1.0-102813	FWR-STWW-1.5-102813	FWR-STWW-3.0-102813	FWR-STWW-4.5-102813	FWR-STWW-6.0-102813
Date Sampled:	**10/28/2013**	**10/28/2013**	**10/28/2013**	**10/28/2013**	**10/28/2013**	**10/28/2013**	**10/28/2013**	**10/28/2013**	**10/28/2013**	**10/28/2013**
Matrix:	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**
VOCs (mg/kg)										
Acetone	ND (0.59)	ND (0.52)	ND (0.58)	ND (0.55)	ND (0.56)	ND (0.60)	ND (0.51)	ND (0.59)	ND (0.59)	ND (0.57)
Benzene	ND (0.029)	ND (0.026)	ND (0.029)	ND (0.028)	ND (0.028)	ND (0.030)	ND (0.026)	ND (0.029)	ND (0.029)	ND (0.028)
Bromodichloromethane	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.12)	ND (0.11)
Bromoform	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.12)	ND (0.11)
Bromomethane	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.12)	ND (0.11)
2-Butanone (MEK)	ND (0.29)	ND (0.26)	ND (0.29)	ND (0.28)	ND (0.28)	ND (0.30)	ND (0.26)	ND (0.29)	ND (0.29)	ND (0.28)
Carbon disulfide	ND (0.29)	ND (0.26)	ND (0.29)	ND (0.28)	ND (0.28)	ND (0.30)	ND (0.26)	ND (0.29)	ND (0.29)	ND (0.28)
Carbon tetrachloride	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.12)	ND (0.11)
Chlorobenzene	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.12)	ND (0.11)
Chloroethane	ND (0.29)	ND (0.26)	ND (0.29)	ND (0.28)	ND (0.28)	ND (0.30)	ND (0.26)	ND (0.29)	ND (0.29)	ND (0.28)
Chloroform	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.12)	ND (0.11)
Chloromethane	ND (0.29)	ND (0.26)	ND (0.29)	ND (0.28)	ND (0.28)	ND (0.30)	ND (0.26)	ND (0.29)	ND (0.29)	ND (0.28)
Dibromochloromethane	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.12)	ND (0.11)
1,1-Dichloroethane	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.12)	ND (0.11)
1,2-Dichloroethane	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.12)	ND (0.11)
1,1-Dichloroethene	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.12)	ND (0.11)
cis-1,2-Dichloroethene	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.12)	ND (0.11)
trans-1,2-Dichloroethene	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.12)	ND (0.11)
1,2-Dichloropropane	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.12)	ND (0.11)
cis-1,3-Dichloropropene	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.12)	ND (0.11)
trans-1,3-Dichloropropene	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.12)	ND (0.11)
Ethylbenzene	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.12)	ND (0.11)
2-Hexanone	ND (0.29)	ND (0.26)	ND (0.29)	ND (0.28)	ND (0.28)	ND (0.30)	ND (0.26)	ND (0.29)	ND (0.29)	ND (0.28)
4-Methyl-2-pentanone (MIBK)	ND (0.29)	ND (0.26)	ND (0.29)	ND (0.28)	ND (0.28)	ND (0.30)	ND (0.26)	ND (0.29)	ND (0.29)	ND (0.28)
Methylene chloride	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.12)	ND (0.11)
Styrene	ND (0.29)	ND (0.26)	ND (0.29)	ND (0.28)	ND (0.28)	ND (0.30)	ND (0.26)	ND (0.29)	ND (0.29)	ND (0.28)
1,1,2,2-Tetrachloroethane	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.12)	ND (0.11)
Tetrachloroethene	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.12)	ND (0.11)
Toluene	ND (0.29)	ND (0.26)	ND (0.29)	ND (0.28)	ND (0.28)	ND (0.30)	ND (0.26)	ND (0.29)	ND (0.29)	ND (0.28)
1,1,1-Trichloroethane	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.12)	ND (0.11)
1,1,2-Trichloroethane	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.12)	ND (0.11)
Trichloroethene	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.12)	0.121
Vinyl chloride	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.12)	ND (0.11)
Xylene (total)	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.10)	ND (0.12)	ND (0.12)	ND (0.11)

Table 2

Concrete Wall Waste Characterization Samples
Fire Water Reservoir Decommissioning
Emerson Power Transmission
Ithaca, New York

Sample ID:	FWR-NTEW-1.0-102813	FWR-NTSW-1.0-102813	FWR-NTWW-1.0-102813	FWR-STEW-1.0-102813	FWR-STNW-1.0-102813	FWR-STSW-1.0-102813	FWR-STWW-1.5-102813	FWR-STWW-3.0-102813	FWR-STWW-4.5-102813	FWR-STWW-6.0-102813
Date Sampled:	10/28/2013	10/28/2013	10/28/2013	10/28/2013	10/28/2013	10/28/2013	10/28/2013	10/28/2013	10/28/2013	10/28/2013
Matrix:	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid
SVOCs (mg/kg)										
2-Chlorophenol	ND (1.3)	ND (0.25)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.26)
4-Chloro-3-methyl phenol	ND (2.7)	ND (0.51)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.51)	ND (0.54)	ND (0.52)
2,4-Dichlorophenol	ND (2.7)	ND (0.51)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.51)	ND (0.54)	ND (0.52)
2,4-Dimethylphenol	ND (2.7)	ND (0.51)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.51)	ND (0.54)	ND (0.52)
2,4-Dinitrophenol	ND (5.4)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.1)	ND (1.0)
4,6-Dinitro-o-cresol	ND (2.7)	ND (0.51)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.51)	ND (0.54)	ND (0.52)
2-Methylphenol	ND (2.7)	ND (0.51)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.51)	ND (0.54)	ND (0.52)
3&4-Methylphenol	ND (2.7)	ND (0.51)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.51)	ND (0.54)	ND (0.52)
2-Nitrophenol	ND (2.7)	ND (0.51)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.51)	ND (0.54)	ND (0.52)
4-Nitrophenol	ND (5.4)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.1)	ND (1.0)
Pentachlorophenol	ND (2.7)	ND (0.51)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.51)	ND (0.54)	ND (0.52)
Phenol	ND (1.3)	ND (0.25)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.26)
2,4,5-Trichlorophenol	ND (2.7)	ND (0.51)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.51)	ND (0.54)	ND (0.52)
2,4,6-Trichlorophenol	ND (2.7)	ND (0.51)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.51)	ND (0.54)	ND (0.52)
Acenaphthene	ND (0.54)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.11)	ND (0.10)
Acenaphthylene	ND (0.54)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.11)	ND (0.10)
Anthracene	ND (0.54)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.11)	ND (0.10)
Benzo(a)anthracene	ND (0.54)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.11)	ND (0.10)
Benzo(a)pyrene	ND (0.54)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.11)	ND (0.10)
Benzo(b)fluoranthene	ND (0.54)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.11)	ND (0.10)
Benzo(g,h,i)perylene	ND (0.54)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.11)	ND (0.10)
Benzo(k)fluoranthene	ND (0.54)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.11)	ND (0.10)
4-Bromophenyl phenyl ether	ND (1.3)	ND (0.25)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.26)
Butyl benzyl phthalate	ND (1.3)	ND (0.25)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.26)
2-Chloronaphthalene	ND (1.3)	ND (0.25)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.26)
4-Chloroaniline	ND (2.7)	ND (0.51)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.51)	ND (0.54)	ND (0.52)
Carbazole	ND (0.54)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.11)	ND (0.10)
Chrysene	ND (0.54)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.11)	ND (0.10)
bis(2-Chloroethoxy)methane	ND (1.3)	ND (0.25)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.26)
bis(2-Chloroethyl)ether	ND (1.3)	ND (0.25)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.26)
bis(2-Chloroisopropyl)ether	ND (1.3)	ND (0.25)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.26)
4-Chlorophenyl phenyl ether	ND (1.3)	ND (0.25)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.26)
1,2-Dichlorobenzene	ND (1.3)	ND (0.25)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.26)
1,3-Dichlorobenzene	ND (1.3)	ND (0.25)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.26)
1,4-Dichlorobenzene	ND (1.3)	ND (0.25)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.26)
2,4-Dinitrotoluene	ND (2.7)	ND (0.51)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.51)	ND (0.54)	ND (0.52)
2,6-Dinitrotoluene	ND (2.7)	ND (0.51)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.51)	ND (0.54)	ND (0.52)
3,3'-Dichlorobenzidine	ND (1.3)	ND (0.25)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.26)
Dibenzo(a,h)anthracene	ND (0.54)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.11)	ND (0.10)
Dibenzofuran	ND (0.54)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.11)	ND (0.10)
Di-n-butyl phthalate	ND (1.3)	ND (0.25)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.26)
Di-n-octyl phthalate	ND (1.3)	ND (0.25)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.26)
Diethyl phthalate	ND (1.3)	ND (0.25)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.26)
Dimethyl phthalate	ND (1.3)	ND (0.25)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.26)
bis(2-Ethylhexyl)phthalate	ND (1.3)	ND (0.25)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.26)

Table 2

Concrete Wall Waste Characterization Samples
Fire Water Reservoir Decommissioning
Emerson Power Transmission
Ithaca, New York

Sample ID:	FWR-NTEW-1.0-102813	FWR-NTSW-1.0-102813	FWR-NTWW-1.0-102813	FWR-STEW-1.0-102813	FWR-STNW-1.0-102813	FWR-STSW-1.0-102813	FWR-STWW-1.5-102813	FWR-STWW-3.0-102813	FWR-STWW-4.5-102813	FWR-STWW-6.0-102813
Date Sampled:	**10/28/2013**	**10/28/2013**	**10/28/2013**	**10/28/2013**	**10/28/2013**	**10/28/2013**	**10/28/2013**	**10/28/2013**	**10/28/2013**	**10/28/2013**
Matrix:	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**
SVOCs (mg/kg)										
Fluoranthene	ND (0.54)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.11)	ND (0.10)
Fluorene	ND (0.54)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.11)	ND (0.10)
Hexachlorobenzene	ND (1.3)	ND (0.25)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.26)
Hexachlorobutadiene	ND (1.3)	ND (0.25)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.26)
Hexachlorocyclopentadiene	ND (2.7)	ND (0.51)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.51)	ND (0.54)	ND (0.52)
Hexachloroethane	ND (1.3)	ND (0.25)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.26)
Indeno(1,2,3-cd)pyrene	ND (0.54)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.11)	ND (0.10)
Isophorone	ND (1.3)	ND (0.25)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.26)
2-Methylnaphthalene	ND (0.54)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.11)	ND (0.10)
2-Nitroaniline	ND (2.7)	ND (0.51)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.51)	ND (0.54)	ND (0.52)
3-Nitroaniline	ND (2.7)	ND (0.51)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.51)	ND (0.54)	ND (0.52)
4-Nitroaniline	ND (2.7)	ND (0.51)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.51)	ND (0.54)	ND (0.52)
Naphthalene	ND (0.54)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.11)	ND (0.10)
Nitrobenzene	ND (1.3)	ND (0.25)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.26)
N-Nitroso-di-n-propylamine	ND (1.3)	ND (0.25)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.26)
N-Nitrosodiphenylamine	ND (1.3)	ND (0.25)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.26)
Phenanthrene	ND (0.54)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.11)	ND (0.10)
Pyrene	ND (0.54)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.11)	ND (0.10)
1,2,4-Trichlorobenzene	ND (1.3)	ND (0.25)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.26)
Pesticides (mg/kg)										
Aldrin	ND (0.0054)	ND (0.0052)	ND (0.0053)	ND (0.0052)	ND (0.0050)	ND (0.0053)	ND (0.0053)	ND (0.0053)	ND (0.0054)	ND (0.0052)
alpha-BHC	ND (0.0054)	ND (0.0052)	ND (0.0053)	ND (0.0052)	ND (0.0050)	ND (0.0053)	ND (0.0053)	ND (0.0053)	ND (0.0054)	ND (0.0052)
beta-BHC	ND (0.0054)	ND (0.0052)	ND (0.0053)	ND (0.0052)	ND (0.0050)	ND (0.0053)	ND (0.0053)	ND (0.0053)	ND (0.0054)	ND (0.0052)
delta-BHC	ND (0.0054)	ND (0.0052)	ND (0.0053)	ND (0.0052)	ND (0.0050)	ND (0.0053)	ND (0.0053)	ND (0.0053)	ND (0.0054)	ND (0.0052)
gamma-BHC (Lindane)	ND (0.0054)	ND (0.0052)	ND (0.0053)	ND (0.0052)	ND (0.0050)	ND (0.0053)	ND (0.0053)	ND (0.0053)	ND (0.0054)	ND (0.0052)
alpha-Chlordane	ND (0.0054)	ND (0.0052)	ND (0.0053)	ND (0.0052)	ND (0.0050)	ND (0.0053)	ND (0.0053)	ND (0.0053)	ND (0.0054)	ND (0.0052)
gamma-Chlordane	ND (0.0054)	ND (0.0052)	ND (0.0053)	ND (0.0052)	ND (0.0050)	ND (0.0053)	ND (0.0053)	ND (0.0053)	ND (0.0054)	ND (0.0052)
Dieldrin	ND (0.0054)	ND (0.0052)	ND (0.0053)	ND (0.0052)	ND (0.0050)	ND (0.0053)	ND (0.0053)	ND (0.0053)	ND (0.0054)	ND (0.0052)
4,4'-DDD	ND (0.0054)	ND (0.0052)	ND (0.0053)	ND (0.0052)	ND (0.0050)	ND (0.0053)	ND (0.0053)	ND (0.0053)	ND (0.0054)	ND (0.0052)
4,4'-DDE	ND (0.0054)	ND (0.0052)	ND (0.0053)	ND (0.0052)	ND (0.0050)	ND (0.0053)	ND (0.0053)	ND (0.0053)	ND (0.0054)	ND (0.0052)
4,4'-DDT	ND (0.0054)	ND (0.0052)	ND (0.0053)	ND (0.0052)	ND (0.0050)	ND (0.0053)	ND (0.0053)	ND (0.0053)	ND (0.0054)	ND (0.0052)
Endrin	ND (0.0054)	ND (0.0052)	ND (0.0053)	ND (0.0052)	ND (0.0050)	ND (0.0053)	ND (0.0053)	ND (0.0053)	ND (0.0054)	ND (0.0052)
Endosulfan sulfate	ND (0.0054)	ND (0.0052)	ND (0.0053)	ND (0.0052)	ND (0.0050)	ND (0.0053)	ND (0.0053)	ND (0.0053)	ND (0.0054)	ND (0.0052)
Endrin aldehyde	ND (0.0054)	ND (0.0052)	ND (0.0053)	ND (0.0052)	ND (0.0050)	ND (0.0053)	ND (0.0053)	ND (0.0053)	ND (0.0054)	ND (0.0052)
Endosulfan-I	ND (0.0054)	ND (0.0052)	ND (0.0053)	ND (0.0052)	ND (0.0050)	ND (0.0053)	ND (0.0053)	ND (0.0053)	ND (0.0054)	ND (0.0052)
Endosulfan-II	ND (0.0054)	ND (0.0052)	ND (0.0053)	ND (0.0052)	ND (0.0050)	ND (0.0053)	ND (0.0053)	ND (0.0053)	ND (0.0054)	ND (0.0052)
Heptachlor	ND (0.0054)	ND (0.0052)	ND (0.0053)	ND (0.0052)	ND (0.0050)	ND (0.0053)	ND (0.0053)	ND (0.0053)	ND (0.0054)	ND (0.0052)
Heptachlor epoxide	ND (0.0054)	ND (0.0052)	ND (0.0053)	ND (0.0052)	ND (0.0050)	ND (0.0053)	ND (0.0053)	ND (0.0053)	ND (0.0054)	ND (0.0052)
Methoxychlor	ND (0.0054)	ND (0.0052)	ND (0.0053)	ND (0.0052)	ND (0.0050)	ND (0.0053)	ND (0.0053)	ND (0.0053)	ND (0.0054)	ND (0.0052)
Endrin ketone	ND (0.0054)	ND (0.0052)	ND (0.0053)	ND (0.0052)	ND (0.0050)	ND (0.0053)	ND (0.0053)	ND (0.0053)	ND (0.0054)	ND (0.0052)
Toxaphene	ND (0.054)	ND (0.052)	ND (0.053)	ND (0.052)	ND (0.050)	ND (0.053)	ND (0.053)	ND (0.053)	ND (0.054)	ND (0.052)

Table 2

Concrete Wall Waste Characterization Samples
Fire Water Reservoir Decommissioning
Emerson Power Transmission
Ithaca, New York

Sample ID:	FWR-NTEW-1.0-102813	FWR-NTSW-1.0-102813	FWR-NTWW-1.0-102813	FWR-STEW-1.0-102813	FWR-STNW-1.0-102813	FWR-STSW-1.0-102813	FWR-STWW-1.5-102813	FWR-STWW-3.0-102813	FWR-STWW-4.5-102813	FWR-STWW-6.0-102813
Date Sampled:	**10/28/2013**	**10/28/2013**	**10/28/2013**	**10/28/2013**	**10/28/2013**	**10/28/2013**	**10/28/2013**	**10/28/2013**	**10/28/2013**	**10/28/2013**
Matrix:	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**	**Solid**
PCBs (mg/kg)										
Aroclor 1016	ND (0.027)	ND (0.026)	ND (0.027)	ND (0.026)	ND (0.025)	ND (0.026)	ND (0.026)	ND (0.026)	ND (0.027)	ND (0.026)
Aroclor 1221	ND (0.027)	ND (0.026)	ND (0.027)	ND (0.026)	ND (0.025)	ND (0.026)	ND (0.026)	ND (0.026)	ND (0.027)	ND (0.026)
Aroclor 1232	ND (0.027)	ND (0.026)	ND (0.027)	ND (0.026)	ND (0.025)	ND (0.026)	ND (0.026)	ND (0.026)	ND (0.027)	ND (0.026)
Aroclor 1242	ND (0.027)	ND (0.026)	ND (0.027)	ND (0.026)	ND (0.025)	ND (0.026)	ND (0.026)	ND (0.026)	ND (0.027)	ND (0.026)
Aroclor 1248	ND (0.027)	ND (0.026)	ND (0.027)	ND (0.026)	ND (0.025)	ND (0.026)	ND (0.026)	ND (0.026)	ND (0.027)	ND (0.026)
Aroclor 1254	0.0413	ND (0.026)	ND (0.027)	0.29	ND (0.025)	ND (0.026)	ND (0.026)	ND (0.026)	0.0357	ND (0.026)
Aroclor 1260	ND (0.027)	ND (0.026)	ND (0.027)	0.0645 [a]	ND (0.025)	ND (0.026)	ND (0.026)	ND (0.026)	ND (0.027)	ND (0.026)
Metals (mg/kg)										
Aluminum	10900	11800	12800	13200	15600	13200	10800	11700	11200	13400
Antimony	<1.1	<1.0	<1.0	<0.94	<0.99	<0.98	<1.0	<1.0	<1.1	<1.0
Arsenic	6.3	3.9	4.7	5.4	4.6	5.6	4.8	4.5	5.2	5.5
Barium	123	50.3	149	146	63.8	149	109	121	110	135
Beryllium	0.43	0.4	0.44	0.46	0.53	0.45	<0.42	<0.41	<0.43	0.47
Cadmium	<0.43	<0.40	<0.41	<0.38	<0.40	<0.39	<0.42	<0.41	<0.43	<0.42
Calcium	45600	95000	69800	87300	130000	70300	61200	42700	75400	54500
Chromium	12.5	13.3	14.2	15.2	16.5	15.5	12.6	14	12.9	15.9
Cobalt	9.2	5.5	8.1	8.2	6.7	8.3	7.5	7.6	7.5	8.4
Copper	29.8	16.2	18.2	15.8	15.7	16	17.2	21.1	19.1	13.5
Iron	18600	15900	19200	20400	19200	21500	18300	19800	19500	22000
Lead	19.2	6.2	5.9	6.3	8.8	6.1	5.1	5.6	7	6.2
Magnesium	6650	9160	5770	6710	11400	6050	5240	5530	7750	5910
Manganese	585	457	501	525	450	482	427	426	465	477
Mercury	0.048	<0.033	<0.035	<0.034	<0.032	<0.034	<0.034	<0.033	<0.035	<0.033
Nickel	19.8	15.2	18.9	20.5	19	20.8	18.2	19.2	18.7	21.6
Potassium	1140	1800	1310	1310	1920	1180	1150	1460	1100	1470
Selenium	<1.1	<1.0	<1.0	<0.94	<0.99	<0.98	<1.0	<1.0	<1.1	<1.0
Silver	<0.54	<0.50	<0.52	<0.47	<0.49	<0.49	<0.52	<0.51	<0.53	<0.52
Sodium	798	548	<520	<470	506	<490	<520	<510	<530	<520
Thallium	<1.1	<1.0	<1.0	<0.94	<0.99	<0.98	<1.0	<1.0	<1.1	<1.0
Vanadium	14.3	13.8	17.3	17.8	17.4	17.4	14.2	15.6	15.3	17.7
Zinc	66.4	42.5	46.4	43.3	44.8	46.3	41.5	43.1	47.5	48.2
General Chemistry										
Corrosivity as pH	11.3	12.1	11.7	11.2	12.1	11.6	11.7	11.4	11.2	11.5
Cyanide Reactivity (mg/kg)	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.5	<1.6	<1.6	<1.6
Ignitability (Flashpoint) (Deg F)	>230	>230	>230	>230	>230	>230	>230	>230	>230	>230
Solids, Percent	91.3	95.3	93	93.2	95.3	93.2	94.2	94.3	91.3	94.1
Sulfide Reactivity (mg/kg)	<55	<52	<54	<54	<52	<54	<53	<53	<55	<53

Enclosure A – Photographic Log

WSP	PHOTOGRAPHIC LOG	
Client: Emerson **Project No.: 00003197**	**Fire Water Reservoir Decommissioning** **Emerson Power Transmission, Ithaca, NY**	**Date** **Oct – Nov 2013**

Photo No.	**1**
Description 10/21/13 Fire Water Reservoir prior to decommissioning.	

Photo No.	**2**
Description 10/22/13 South Tank – Removal of concrete reinforced surface.	

WSP	PHOTOGRAPHIC LOG	
Client: Emerson **Project No.: 00003197**	**Fire Water Reservoir Decommissioning** **Emerson Power Transmission, Ithaca, NY**	**Date** **Oct – Nov 2013**

Photo No.	**3**
Description 10/23/13 South Tank – View upon removal of concrete surface.	

Photo No.	**4**
Description 10/24/13 South Tank – view of initial filling. Water pumping continued until backfill covered bottom of the Tank. FWR return line (removed) shown in upper left corner. Pipe between north and south tanks (plugged) show in center.	

WSP	PHOTOGRAPHIC LOG	
Client: Emerson **Project No.: 00003197**	**Fire Water Reservoir Decommissioning** **Emerson Power Transmission, Ithaca, NY**	**Date** **Oct – Nov 2013**

Photo No.	**5**

Description

10/25/13

Observation well and piezometer installed in south tank. Skid steer used to grade backfill stone. Core hole #4 on the south wall of the south tank is shown immediately adjacent to well (red circle near the base of the wall). Outfall pipes shown on the south wall have been plugged with concrete.

Photo No.	**6**

Description

10/29/13

North Tank – Chip samples collected from west wall approximately 1.0 ft below the top of the wall (upper right portion between the white line and the top of the wall.

WSP	PHOTOGRAPHIC LOG	
Client: Emerson **Project No.: 00003197**	**Fire Water Reservoir Decommissioning** **Emerson Power Transmission, Ithaca, NY**	**Date** **Oct – Nov 2013**

Photo No.	**7**
Description 10/29/13 South Tank – Chip samples collected on west wall at 1.5 ft, 3.0 ft (just below the white line), 4.5 ft, and 6.0 ft below the top of the wall. Backfill is being placed in the tank.	

Photo No.	**8**
Description 11/1/13 North Tank – Backfill is underway and in North Tank backfilling is completed to approximately 6 feet below the top of the wall.	

WSP	PHOTOGRAPHIC LOG	
Client: Emerson **Project No.: 00003197**	**Fire Water Reservoir Decommissioning** **Emerson Power Transmission, Ithaca, NY**	**Date** **Oct – Nov 2013**

Photo No.	**9**
Description 11/4/13 South Tank – View of west wall removal. Red line indicates the limit to which wall to be removed.	

Photo No.	**10**
Description 11/5/13 FWR – View of completed wall removal. IRM building is present in the background.	

WSP	PHOTOGRAPHIC LOG	
Client: Emerson **Project No.: 00003197**	**Fire Water Reservoir Decommissioning** **Emerson Power Transmission, Ithaca, NY**	**Date** **Oct – Nov 2013**

Photo No.	**11**
Description 11/13/13 View of observation and piezometer protective casings (set in 18-inch concrete pad).	

Photo No.	**12**
Description 11/14/13 View following completion of backfilling.	

Photo No.	**13**
Description 11/15/13 View of separation fabric placed over backfill material (observation well and piezometer with final protective casings shown).	

Photo No.	**14**
Description 11/15/13 View of final Rip-Rap placement.	

Enclosure B – Laboratory Data Reports

New England ACCUTEST LABORATORIES

12/04/13

Technical Report for

WSP Environmental & Energy

Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY

00003197/00017

Accutest Job Number: MC25505

Sampling Date: 10/21/13

Report to:

WSP Environmental & Energy

kevin.sullivan@wspgroup.com

ATTN: Kevin Sullivan

Total number of pages in report: **49**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Reza Tand
Lab Director

Client Service contact: Frank DAgostino 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

Test results relate only to samples analyzed.

Sections: 1 2 3 4 5

Table of Contents

Sample Summary

WSP Environmental & Energy

Job No: MC25505

Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY
Project No: 00003197/00017

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC25505-1	10/21/13	15:00	KDS	10/22/13	SO	Solid	FWR-SW-LID-102113
MC25505-2	10/21/13	15:05	KDS	10/22/13	SO	Solid	FWR-SE-LID-102113
MC25505-3	10/21/13	15:12	KDS	10/22/13	SO	Solid	FWR-NW-LID-102113
MC25505-4	10/21/13	15:18	KDS	10/22/13	SO	Solid	FWR-NE-LID-102113

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: WSP Environmental & Energy **Job No** MC25505

Site: Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY **Report Date** 10/31/2013 4:10:45 PM

4 Sample(s) were collected on 10/21/2013 and were received at Accutest on 10/22/2013 properly preserved, at 5.6 Deg. C and intact. These Samples received an Accutest job number of MC25505. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix SO **Batch ID:** MSK2428

- All samples were analyzed within the recommended method holding time.
- Sample(s) MC25455-9MS, MC25455-9MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix SO **Batch ID:** MSM2107

- All samples were analyzed within the recommended method holding time.
- Sample(s) MC25505-3MS, MC25505-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for 1,1,2,2-Tetrachloroethane, Acetone are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for 1,1,2,2-Tetrachloroethane, 2-Butanone (MEK), 4-Methyl-2-pentanone (MIBK), Acetone are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- MC25505-3MSD for Tert Butyl Alcohol-D9: Outside control limits. Target analytes not associated with this internal standard.

Extractables by GCMS By Method SW846 8270C

Matrix SO **Batch ID:** OP35377

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- MC25505-1 for 2-Fluorophenol, 2,4,6-Tribromophenol: Outside control limits due to sample matrix interference(concrete). Results confirmed by reanalysis.
- MC25505-2 for 2-Fluorophenol, Phenol-d5, 2,4,6-Tribromophenol, 2-Fluorobiphenyl: Outside control limits due to sample matrix interference(concrete). Results confirmed by reanalysis.
- MC25505-1,2,3,4: Confirmation run for surrogate recoveries.
- MC25505-3,4 for 2-Fluorophenol, Phenol-d5, 2,4,6-Tribromophenol: Outside control limits due to sample matrixinterference(concrete). Results confirmed by reanalysis.
- OP35377-MS/MSD for 2,4-Dinitrophenol, 4,6-Dinitro-o-cresol, Hexachlorocyclopentadiene: Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Sample(s) MC25493-1MS, MC25493-1MSD were used as the QC samples indicated
- OP35377-MSD for Pyrene: Outside control limits due to possible matrix interference. Refer to Blank Spike.

Extractables by GC By Method SW846 8081

Matrix SO **Batch ID:** OP35372

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC25505-2MS, MC25505-2MSD were used as the QC samples indicated.
- Calibration check standard GBE2001-CC1996, signal #1, file BE38512 for Endrin Aldehyde exceeds criteria (response biased high). Associated samples are non-detect for this compound.
- Matrix Spike Recovery(s) for 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, Dieldrin, Endosulfan-II, Heptachlor epoxide are outside control limits. Outside control limits due to possible matrix interference.
- Matrix Spike Duplicate Recovery(s) for 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, Dieldrin, Endosulfan-II are outside control limits. Outside control limits due to possible matrix interference.
- RPD(s) for MSD for alpha-Chlordane, Endosulfan sulfate, Endosulfan-I, Endrin, Endrin aldehyde, Heptachlor epoxide are outside control limits for sample OP35372-MSD. Outside control limits due to possible matrix interference.
- Calibration check standard GBE2002-CC2002, signal #1, file BE38547 has some of compounds exceeding criteria due to possible residual matrix interference. Associated samples confirmed by reanalysis.

Extractables by GC By Method SW846 8082

Matrix SO **Batch ID:** OP35371

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC25505-1MS, MC25505-1MSD were used as the QC samples indicated.
- MC25505-2 for Decachlorobiphenyl, Tetrachloro-m-xylene: Outside control limits due to dilution.
- MC25505-3 for Decachlorobiphenyl: Outside control limits due to possible matrix interference.
- Continuing calibration check standard GYZ7347-ECC7342 for surrogates exceed criteria. Targets recovery satisfactory.
- Calibration standard GYZ7345-ICC7345, GYZ7345-ICV7345, GYZ7346-CC7345 not associated with this job.

Metals By Method SW846 6010C

Matrix SO **Batch ID:** MP21877

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC25505-1MS, MC25505-1MSD, MC25505-1PS, MC25505-1SDL were used as the QC samples for metals.
- Matrix Spike Duplicate Recovery(s) for Aluminum, Iron, Magnesium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- Matrix Spike Recovery(s) for Antimony are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.Post spike within acceptable range.
- Matrix Spike Duplicate Recovery(s) for Antimony, Copper are outside control limits. Spike duplicate recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike Recovery(s) for Calcium, Iron, Magnesium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for MSD for Copper are outside control limits for sample MP21877-S2. High RPD due to possible matrix interference and/or sample non-homogeneity.
- RPD(s) for Serial Dilution for Antimony, Arsenic, Silver are outside control limits for sample MP21877-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP21877-SD1 for Barium, Chromium, Cobalt, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Vanadium, Zinc: Serial dilution indicates possible matrix interference.

Metals By Method SW846 7471B

Matrix	SO	Batch ID:	MP21875

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC25232-53MS, MC25232-53MSD were used as the QC samples for metals.

Wet Chemistry By Method SM21 2540 B MOD.

Matrix	SO	Batch ID:	GN44782

- Sample(s) MC25506-8DUP were used as the QC samples for Solids, Percent.

Wet Chemistry By Method SW846 1020

Matrix	SO	Batch ID:	GN44717

- Sample(s) MC25307-1DUP were used as the QC samples for Ignitability (Flashpoint).

Wet Chemistry By Method SW846 CHAP7

Matrix	SO	Batch ID:	GN44784

- Sample(s) MC25505-1DUP were used as the QC samples for Corrosivity as pH.

Matrix	SO	Batch ID:	GP16759

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC25426-1DUP, MC25426-1MS were used as the QC samples for Cyanide Reactivity.

Matrix	SO	Batch ID:	GP16760

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC25426-1DUP, MC25426-1MS were used as the QC samples for Sulfide Reactivity.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(MC25505).

Summary of Hits

Job Number: MC25505
Account: WSP Environmental & Energy
Project: Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY
Collected: 10/21/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC25505-1	**FWR-SW-LID-102113**					
Benzene		0.0010	0.00054		mg/kg	SW846 8260B
Xylene (total)		0.0036	0.0022		mg/kg	SW846 8260B
Benzo(a)anthracene		0.121	0.11		mg/kg	SW846 8270C
Benzo(a)pyrene		0.116	0.11		mg/kg	SW846 8270C
Benzo(b)fluoranthene		0.207	0.11		mg/kg	SW846 8270C
Benzo(k)fluoranthene		0.116	0.11		mg/kg	SW846 8270C
Chrysene		0.362	0.11		mg/kg	SW846 8270C
bis(2-Ethylhexyl)phthalate		0.962	0.26		mg/kg	SW846 8270C
Fluoranthene		0.422	0.11		mg/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene		0.118	0.11		mg/kg	SW846 8270C
Phenanthrene		0.291	0.11		mg/kg	SW846 8270C
Pyrene		0.293	0.11		mg/kg	SW846 8270C
Aroclor 1254		0.336	0.026		mg/kg	SW846 8082
Aluminum		6830	18		mg/kg	SW846 6010C
Arsenic		3.9	0.92		mg/kg	SW846 6010C
Barium		148	4.6		mg/kg	SW846 6010C
Cadmium		0.72	0.37		mg/kg	SW846 6010C
Calcium		146000	4600		mg/kg	SW846 6010C
Chromium		12.2	0.92		mg/kg	SW846 6010C
Cobalt		8.7	4.6		mg/kg	SW846 6010C
Copper		29.9	2.3		mg/kg	SW846 6010C
Iron		9650	9.2		mg/kg	SW846 6010C
Lead		36.4	0.92		mg/kg	SW846 6010C
Magnesium		18200	460		mg/kg	SW846 6010C
Manganese		395	1.4		mg/kg	SW846 6010C
Mercury		0.033	0.033		mg/kg	SW846 7471B
Nickel		12.9	3.7		mg/kg	SW846 6010C
Potassium		1470	460		mg/kg	SW846 6010C
Vanadium		12.6	0.92		mg/kg	SW846 6010C
Zinc		55.3	1.8		mg/kg	SW846 6010C
Corrosivity as pH		11.7				SW846 CHAP7
Ignitability (Flashpoint)		> 230			Deg. F	SW846 1020
MC25505-2	**FWR-SE-LID-102113**					
Benzo(a)anthracene		0.185	0.10		mg/kg	SW846 8270C
Benzo(a)pyrene		0.178	0.10		mg/kg	SW846 8270C
Benzo(b)fluoranthene		0.333	0.10		mg/kg	SW846 8270C
Benzo(g,h,i)perylene		0.165	0.10		mg/kg	SW846 8270C
Benzo(k)fluoranthene		0.190	0.10		mg/kg	SW846 8270C
Chrysene		0.470	0.10		mg/kg	SW846 8270C
Dibenzofuran		0.102	0.10		mg/kg	SW846 8270C
bis(2-Ethylhexyl)phthalate		0.970	0.26		mg/kg	SW846 8270C

Summary of Hits

Job Number: MC25505
Account: WSP Environmental & Energy
Project: Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY
Collected: 10/21/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Fluoranthene		0.622	0.10		mg/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene		0.180	0.10		mg/kg	SW846 8270C
2-Methylnaphthalene		0.417	0.10		mg/kg	SW846 8270C
Phenanthrene		0.462	0.10		mg/kg	SW846 8270C
Pyrene		0.421	0.10		mg/kg	SW846 8270C
Aroclor 1254		9.95	1.3		mg/kg	SW846 8082
Aluminum		7230	18		mg/kg	SW846 6010C
Arsenic		3.6	0.91		mg/kg	SW846 6010C
Barium		152	4.6		mg/kg	SW846 6010C
Calcium		160000	4600		mg/kg	SW846 6010C
Chromium		9.4	0.91		mg/kg	SW846 6010C
Cobalt		4.9	4.6		mg/kg	SW846 6010C
Copper		18.2	2.3		mg/kg	SW846 6010C
Iron		9000	9.1		mg/kg	SW846 6010C
Lead		12.7	0.91		mg/kg	SW846 6010C
Magnesium		10300	460		mg/kg	SW846 6010C
Manganese		457	1.4		mg/kg	SW846 6010C
Nickel		10	3.6		mg/kg	SW846 6010C
Potassium		1070	460		mg/kg	SW846 6010C
Vanadium		13.2	0.91		mg/kg	SW846 6010C
Zinc		31.3	1.8		mg/kg	SW846 6010C
Corrosivity as pH		12.2				SW846 CHAP7
Ignitability (Flashpoint)		> 230			Deg. F	SW846 1020
MC25505-3	**FWR-NW-LID-102113**					
Benzo(a)anthracene		0.106	0.10		mg/kg	SW846 8270C
Benzo(a)pyrene		0.106	0.10		mg/kg	SW846 8270C
Benzo(b)fluoranthene		0.128	0.10		mg/kg	SW846 8270C
Chrysene		0.109	0.10		mg/kg	SW846 8270C
Fluoranthene		0.250	0.10		mg/kg	SW846 8270C
Phenanthrene		0.206	0.10		mg/kg	SW846 8270C
Pyrene		0.200	0.10		mg/kg	SW846 8270C
Aluminum		9240	18		mg/kg	SW846 6010C
Arsenic		3.5	0.92		mg/kg	SW846 6010C
Barium		60.8	4.6		mg/kg	SW846 6010C
Calcium		139000	4600		mg/kg	SW846 6010C
Chromium		14.3	0.92		mg/kg	SW846 6010C
Cobalt		5.0	4.6		mg/kg	SW846 6010C
Copper		18.7	2.3		mg/kg	SW846 6010C
Iron		12100	9.2		mg/kg	SW846 6010C
Lead		10.1	0.92		mg/kg	SW846 6010C
Magnesium		12000	460		mg/kg	SW846 6010C
Manganese		316	1.4		mg/kg	SW846 6010C
Nickel		10.7	3.7		mg/kg	SW846 6010C

Summary of Hits

Job Number: MC25505
Account: WSP Environmental & Energy
Project: Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY
Collected: 10/21/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Potassium		1440	460		mg/kg	SW846 6010C
Sodium		864	460		mg/kg	SW846 6010C
Vanadium		11.3	0.92		mg/kg	SW846 6010C
Zinc		34.2	1.8		mg/kg	SW846 6010C
Corrosivity as pH		12.3				SW846 CHAP7
Ignitability (Flashpoint)		> 230			Deg. F	SW846 1020
MC25505-4	**FWR-NE-LID-102113**					
Aluminum		8550	18		mg/kg	SW846 6010C
Arsenic		3.6	0.91		mg/kg	SW846 6010C
Barium		101	4.5		mg/kg	SW846 6010C
Calcium		144000	4500		mg/kg	SW846 6010C
Chromium		13.1	0.91		mg/kg	SW846 6010C
Cobalt		5.0	4.5		mg/kg	SW846 6010C
Copper		13.4	2.3		mg/kg	SW846 6010C
Iron		11300	9.1		mg/kg	SW846 6010C
Lead		6.9	0.91		mg/kg	SW846 6010C
Magnesium		7690	450		mg/kg	SW846 6010C
Manganese		417	1.4		mg/kg	SW846 6010C
Nickel		10.1	3.6		mg/kg	SW846 6010C
Potassium		1520	450		mg/kg	SW846 6010C
Sodium		935	450		mg/kg	SW846 6010C
Vanadium		10.7	0.91		mg/kg	SW846 6010C
Zinc		37.6	1.8		mg/kg	SW846 6010C
Corrosivity as pH		12.3				SW846 CHAP7
Ignitability (Flashpoint)		> 230			Deg. F	SW846 1020

New England ACCUTEST LABORATORIES

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Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	FWR-SW-LID-102113		
Lab Sample ID:	MC25505-1	**Date Sampled:**	10/21/13
Matrix:	SO - Solid	**Date Received:**	10/22/13
Method:	SW846 8260B	**Percent Solids:**	94.9
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M60587.D	1	10/23/13	KD	n/a	n/a	MSM2107
Run #2							

	Initial Weight	Final Volume
Run #1	4.84 g	5.0 ml
Run #2		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	0.011	mg/kg	
71-43-2	Benzene	0.0010	0.00054	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0022	mg/kg	
75-25-2	Bromoform	ND	0.0022	mg/kg	
74-83-9	Bromomethane	ND	0.0022	mg/kg	
78-93-3	2-Butanone (MEK)	ND	0.0054	mg/kg	
75-15-0	Carbon disulfide	ND	0.0054	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0022	mg/kg	
108-90-7	Chlorobenzene	ND	0.0022	mg/kg	
75-00-3	Chloroethane	ND	0.0054	mg/kg	
67-66-3	Chloroform	ND	0.0022	mg/kg	
74-87-3	Chloromethane	ND	0.0054	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0022	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.0022	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0022	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.0022	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.0022	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.0022	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.0022	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0022	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0022	mg/kg	
100-41-4	Ethylbenzene	ND	0.0022	mg/kg	
591-78-6	2-Hexanone	ND	0.0054	mg/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	0.0054	mg/kg	
75-09-2	Methylene chloride	ND	0.0022	mg/kg	
100-42-5	Styrene	ND	0.0054	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0022	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0022	mg/kg	
108-88-3	Toluene	ND	0.0054	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0022	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0022	mg/kg	
79-01-6	Trichloroethene	ND	0.0022	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-SW-LID-102113		
Lab Sample ID:	MC25505-1	**Date Sampled:**	10/21/13
Matrix:	SO - Solid	**Date Received:**	10/22/13
Method:	SW846 8260B	**Percent Solids:**	94.9
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	0.0022	mg/kg	
1330-20-7	Xylene (total)	0.0036	0.0022	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		70-130%
2037-26-5	Toluene-D8	81%		70-130%
460-00-4	4-Bromofluorobenzene	98%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-SW-LID-102113		
Lab Sample ID:	MC25505-1	**Date Sampled:**	10/21/13
Matrix:	SO - Solid	**Date Received:**	10/22/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	94.9
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R34490.D	1	10/24/13	KR	10/22/13	OP35377	MSR1257
Run #2 [a]	F69974.D	1	10/29/13	WK	10/22/13	OP35377	MSF3127

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2	20.1 g	1.0 ml

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	0.26	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.53	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.53	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.53	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	1.1	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.53	mg/kg	
95-48-7	2-Methylphenol	ND	0.53	mg/kg	
	3&4-Methylphenol	ND	0.53	mg/kg	
88-75-5	2-Nitrophenol	ND	0.53	mg/kg	
100-02-7	4-Nitrophenol	ND	1.1	mg/kg	
87-86-5	Pentachlorophenol	ND	0.53	mg/kg	
108-95-2	Phenol	ND	0.26	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.53	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.53	mg/kg	
83-32-9	Acenaphthene	ND	0.11	mg/kg	
208-96-8	Acenaphthylene	ND	0.11	mg/kg	
120-12-7	Anthracene	ND	0.11	mg/kg	
56-55-3	Benzo(a)anthracene	0.121	0.11	mg/kg	
50-32-8	Benzo(a)pyrene	0.116	0.11	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.207	0.11	mg/kg	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.116	0.11	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.26	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.26	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.26	mg/kg	
106-47-8	4-Chloroaniline	ND	0.53	mg/kg	
86-74-8	Carbazole	ND	0.11	mg/kg	
218-01-9	Chrysene	0.362	0.11	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.26	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.26	mg/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	0.26	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.26	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-SW-LID-102113		
Lab Sample ID:	MC25505-1	**Date Sampled:**	10/21/13
Matrix:	SO - Solid	**Date Received:**	10/22/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	94.9
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	0.26	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.26	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.26	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.53	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.53	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.26	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	mg/kg	
132-64-9	Dibenzofuran	ND	0.11	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.26	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.26	mg/kg	
84-66-2	Diethyl phthalate	ND	0.26	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.26	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.962	0.26	mg/kg	
206-44-0	Fluoranthene	0.422	0.11	mg/kg	
86-73-7	Fluorene	ND	0.11	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.26	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.26	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.53	mg/kg	
67-72-1	Hexachloroethane	ND	0.26	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.118	0.11	mg/kg	
78-59-1	Isophorone	ND	0.26	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.11	mg/kg	
88-74-4	2-Nitroaniline	ND	0.53	mg/kg	
99-09-2	3-Nitroaniline	ND	0.53	mg/kg	
100-01-6	4-Nitroaniline	ND	0.53	mg/kg	
91-20-3	Naphthalene	ND	0.11	mg/kg	
98-95-3	Nitrobenzene	ND	0.26	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.26	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.26	mg/kg	
85-01-8	Phenanthrene	0.291	0.11	mg/kg	
129-00-0	Pyrene	0.293	0.11	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.26	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	22% [b]	17% [b]	30-130%
4165-62-2	Phenol-d5	50%	37%	30-130%
118-79-6	2,4,6-Tribromophenol	0% [b]	0% [b]	30-130%
4165-60-0	Nitrobenzene-d5	56%	48%	30-130%
321-60-8	2-Fluorobiphenyl	63%	52%	30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-SW-LID-102113		
Lab Sample ID:	MC25505-1	**Date Sampled:**	10/21/13
Matrix:	SO - Solid	**Date Received:**	10/22/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	94.9
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	70%	53%	30-130%

(a) Confirmation run for surrogate recoveries.
(b) Outside control limits due to sample matrix interference(concrete). Results confirmed by reanalysis.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-SW-LID-102113		
Lab Sample ID:	MC25505-1	**Date Sampled:**	10/21/13
Matrix:	SO - Solid	**Date Received:**	10/22/13
Method:	SW846 8081 SW846 3546	**Percent Solids:**	94.9
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BE38542.D	1	10/27/13	NK	10/22/13	OP35372	GBE2002
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.0052	mg/kg	
319-84-6	alpha-BHC	ND	0.0052	mg/kg	
319-85-7	beta-BHC	ND	0.0052	mg/kg	
319-86-8	delta-BHC	ND	0.0052	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.0052	mg/kg	
5103-71-9	alpha-Chlordane	ND	0.0052	mg/kg	
5103-74-2	gamma-Chlordane	ND	0.0052	mg/kg	
60-57-1	Dieldrin	ND	0.0052	mg/kg	
72-54-8	4,4'-DDD	ND	0.0052	mg/kg	
72-55-9	4,4'-DDE	ND	0.0052	mg/kg	
50-29-3	4,4'-DDT	ND	0.0052	mg/kg	
72-20-8	Endrin	ND	0.0052	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.0052	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.0052	mg/kg	
959-98-8	Endosulfan-I	ND	0.0052	mg/kg	
33213-65-9	Endosulfan-II	ND	0.0052	mg/kg	
76-44-8	Heptachlor	ND	0.0052	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.0052	mg/kg	
72-43-5	Methoxychlor	ND	0.0052	mg/kg	
53494-70-5	Endrin ketone	ND	0.0052	mg/kg	
8001-35-2	Toxaphene	ND	0.052	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	50%		30-150%
877-09-8	Tetrachloro-m-xylene	41%		30-150%
2051-24-3	Decachlorobiphenyl	99%		30-150%
2051-24-3	Decachlorobiphenyl	60%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-SW-LID-102113		
Lab Sample ID:	MC25505-1	**Date Sampled:**	10/21/13
Matrix:	SO - Solid	**Date Received:**	10/22/13
Method:	SW846 8082 SW846 3546	**Percent Solids:**	94.9
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ84918.D	1	10/24/13	CZ	10/22/13	OP35371	GYZ7347
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.026	mg/kg	
11104-28-2	Aroclor 1221	ND	0.026	mg/kg	
11141-16-5	Aroclor 1232	ND	0.026	mg/kg	
53469-21-9	Aroclor 1242	ND	0.026	mg/kg	
12672-29-6	Aroclor 1248	ND	0.026	mg/kg	
11097-69-1	Aroclor 1254	0.336	0.026	mg/kg	
11096-82-5	Aroclor 1260	ND	0.026	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	76%		30-150%
877-09-8	Tetrachloro-m-xylene	76%		30-150%
2051-24-3	Decachlorobiphenyl	96%		30-150%
2051-24-3	Decachlorobiphenyl	81%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FWR-SW-LID-102113
Lab Sample ID: MC25505-1
Matrix: SO - Solid
Date Sampled: 10/21/13
Date Received: 10/22/13
Percent Solids: 94.9
Project: Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	6830	18	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Antimony	< 0.92	0.92	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Arsenic	3.9	0.92	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Barium	148	4.6	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Beryllium	< 0.37	0.37	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Cadmium	0.72	0.37	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Calcium	146000	4600	mg/kg	10	10/22/13	10/23/13	EAL	SW846 6010C [3]	SW846 3050B [5]
Chromium	12.2	0.92	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Cobalt	8.7	4.6	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Copper	29.9	2.3	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Iron	9650	9.2	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Lead	36.4	0.92	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Magnesium	18200	460	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Manganese	395	1.4	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Mercury	0.033	0.033	mg/kg	1	10/22/13	10/22/13	SA	SW846 7471B [1]	SW846 7471B [4]
Nickel	12.9	3.7	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Potassium	1470	460	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Selenium	< 0.92	0.92	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Silver	< 0.46	0.46	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Sodium	< 460	460	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Thallium	< 0.92	0.92	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Vanadium	12.6	0.92	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Zinc	55.3	1.8	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]

(1) Instrument QC Batch: MA16272
(2) Instrument QC Batch: MA16281
(3) Instrument QC Batch: MA16283
(4) Prep QC Batch: MP21875
(5) Prep QC Batch: MP21877

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FWR-SW-LID-102113		
Lab Sample ID:	MC25505-1	**Date Sampled:**	10/21/13
Matrix:	SO - Solid	**Date Received:**	10/22/13
		Percent Solids:	94.9
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Corrosivity as pH	11.7			1	10/22/13	MA	SW846 CHAP7
Cyanide Reactivity	< 1.6	1.6	mg/kg	1	10/23/13 14:30	BF	SW846 CHAP7
Ignitability (Flashpoint)	> 230		Deg. F	1	10/24/13	BF	SW846 1020
Solids, Percent	94.9		%	1	10/22/13	HS	SM21 2540 B MOD.
Sulfide Reactivity	< 53	53	mg/kg	1	10/23/13	BF	SW846 CHAP7

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FWR-SE-LID-102113		
Lab Sample ID:	MC25505-2	**Date Sampled:**	10/21/13
Matrix:	SO - Solid	**Date Received:**	10/22/13
Method:	SW846 8260B	**Percent Solids:**	94.6
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K75306.D	1	10/24/13	GK	n/a	n/a	MSK2428
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	9.79 g	10.0 ml	100 ul
Run #2			

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	0.57	mg/kg	
71-43-2	Benzene	ND	0.028	mg/kg	
75-27-4	Bromodichloromethane	ND	0.11	mg/kg	
75-25-2	Bromoform	ND	0.11	mg/kg	
74-83-9	Bromomethane	ND	0.11	mg/kg	
78-93-3	2-Butanone (MEK)	ND	0.28	mg/kg	
75-15-0	Carbon disulfide	ND	0.28	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.11	mg/kg	
108-90-7	Chlorobenzene	ND	0.11	mg/kg	
75-00-3	Chloroethane	ND	0.28	mg/kg	
67-66-3	Chloroform	ND	0.11	mg/kg	
74-87-3	Chloromethane	ND	0.28	mg/kg	
124-48-1	Dibromochloromethane	ND	0.11	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.11	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.11	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.11	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.11	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.11	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.11	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.11	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.11	mg/kg	
100-41-4	Ethylbenzene	ND	0.11	mg/kg	
591-78-6	2-Hexanone	ND	0.28	mg/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	0.28	mg/kg	
75-09-2	Methylene chloride	ND	0.11	mg/kg	
100-42-5	Styrene	ND	0.28	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.11	mg/kg	
127-18-4	Tetrachloroethene	ND	0.11	mg/kg	
108-88-3	Toluene	ND	0.28	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.11	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.11	mg/kg	
79-01-6	Trichloroethene	ND	0.11	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-SE-LID-102113		
Lab Sample ID:	MC25505-2	**Date Sampled:**	10/21/13
Matrix:	SO - Solid	**Date Received:**	10/22/13
Method:	SW846 8260B	**Percent Solids:**	94.6
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	0.11	mg/kg	
1330-20-7	Xylene (total)	ND	0.11	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		70-130%
2037-26-5	Toluene-D8	101%		70-130%
460-00-4	4-Bromofluorobenzene	97%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-SE-LID-102113		
Lab Sample ID:	MC25505-2	**Date Sampled:**	10/21/13
Matrix:	SO - Solid	**Date Received:**	10/22/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	94.6
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R34491.D	1	10/24/13	KR	10/22/13	OP35377	MSR1257
Run #2 [a]	F69975.D	1	10/29/13	WK	10/22/13	OP35377	MSF3127

	Initial Weight	Final Volume
Run #1	20.5 g	1.0 ml
Run #2	20.5 g	1.0 ml

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	0.26	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.51	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.51	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.51	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	1.0	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.51	mg/kg	
95-48-7	2-Methylphenol	ND	0.51	mg/kg	
	3&4-Methylphenol	ND	0.51	mg/kg	
88-75-5	2-Nitrophenol	ND	0.51	mg/kg	
100-02-7	4-Nitrophenol	ND	1.0	mg/kg	
87-86-5	Pentachlorophenol	ND	0.51	mg/kg	
108-95-2	Phenol	ND	0.26	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.51	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.51	mg/kg	
83-32-9	Acenaphthene	ND	0.10	mg/kg	
208-96-8	Acenaphthylene	ND	0.10	mg/kg	
120-12-7	Anthracene	ND	0.10	mg/kg	
56-55-3	Benzo(a)anthracene	0.185	0.10	mg/kg	
50-32-8	Benzo(a)pyrene	0.178	0.10	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.333	0.10	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.165	0.10	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.190	0.10	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.26	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.26	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.26	mg/kg	
106-47-8	4-Chloroaniline	ND	0.51	mg/kg	
86-74-8	Carbazole	ND	0.10	mg/kg	
218-01-9	Chrysene	0.470	0.10	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.26	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.26	mg/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	0.26	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.26	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-SE-LID-102113		
Lab Sample ID:	MC25505-2	**Date Sampled:**	10/21/13
Matrix:	SO - Solid	**Date Received:**	10/22/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	94.6
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	0.26	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.26	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.26	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.51	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.51	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.26	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	mg/kg	
132-64-9	Dibenzofuran	0.102	0.10	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.26	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.26	mg/kg	
84-66-2	Diethyl phthalate	ND	0.26	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.26	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.970	0.26	mg/kg	
206-44-0	Fluoranthene	0.622	0.10	mg/kg	
86-73-7	Fluorene	ND	0.10	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.26	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.26	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.51	mg/kg	
67-72-1	Hexachloroethane	ND	0.26	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.180	0.10	mg/kg	
78-59-1	Isophorone	ND	0.26	mg/kg	
91-57-6	2-Methylnaphthalene	0.417	0.10	mg/kg	
88-74-4	2-Nitroaniline	ND	0.51	mg/kg	
99-09-2	3-Nitroaniline	ND	0.51	mg/kg	
100-01-6	4-Nitroaniline	ND	0.51	mg/kg	
91-20-3	Naphthalene	ND	0.10	mg/kg	
98-95-3	Nitrobenzene	ND	0.26	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.26	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.26	mg/kg	
85-01-8	Phenanthrene	0.462	0.10	mg/kg	
129-00-0	Pyrene	0.421	0.10	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.26	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	3% [b]	2% [b]	30-130%
4165-62-2	Phenol-d5	32%	24% [b]	30-130%
118-79-6	2,4,6-Tribromophenol	0% [b]	0% [b]	30-130%
4165-60-0	Nitrobenzene-d5	65%	58%	30-130%
321-60-8	2-Fluorobiphenyl	71% [b]	57%	30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-SE-LID-102113		
Lab Sample ID:	MC25505-2	**Date Sampled:**	10/21/13
Matrix:	SO - Solid	**Date Received:**	10/22/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	94.6
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	77%	57%	30-130%

(a) Confirmation run for surrogate recoveries.
(b) Outside control limits due to sample matrix interference(concrete). Results confirmed by reanalysis.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FWR-SE-LID-102113
Lab Sample ID: MC25505-2 **Date Sampled:** 10/21/13
Matrix: SO - Solid **Date Received:** 10/22/13
Method: SW846 8081 SW846 3546 **Percent Solids:** 94.6
Project: Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BE38543.D	1	10/27/13	NK	10/22/13	OP35372	GBE2002
Run #2							

	Initial Weight	Final Volume
Run #1	20.6 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.0051	mg/kg	
319-84-6	alpha-BHC	ND	0.0051	mg/kg	
319-85-7	beta-BHC	ND	0.0051	mg/kg	
319-86-8	delta-BHC	ND	0.0051	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.0051	mg/kg	
5103-71-9	alpha-Chlordane	ND	0.0051	mg/kg	
5103-74-2	gamma-Chlordane	ND	0.0051	mg/kg	
60-57-1	Dieldrin	ND	0.0051	mg/kg	
72-54-8	4,4'-DDD	ND	0.0051	mg/kg	
72-55-9	4,4'-DDE	ND	0.0051	mg/kg	
50-29-3	4,4'-DDT	ND	0.0051	mg/kg	
72-20-8	Endrin	ND	0.0051	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.0051	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.0051	mg/kg	
959-98-8	Endosulfan-I	ND	0.0051	mg/kg	
33213-65-9	Endosulfan-II	ND	0.0051	mg/kg	
76-44-8	Heptachlor	ND	0.0051	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.0051	mg/kg	
72-43-5	Methoxychlor	ND	0.0051	mg/kg	
53494-70-5	Endrin ketone	ND	0.0051	mg/kg	
8001-35-2	Toxaphene	ND	0.051	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	41%		30-150%
877-09-8	Tetrachloro-m-xylene	31%		30-150%
2051-24-3	Decachlorobiphenyl	68%		30-150%
2051-24-3	Decachlorobiphenyl	53%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-SE-LID-102113		
Lab Sample ID:	MC25505-2	**Date Sampled:**	10/21/13
Matrix:	SO - Solid	**Date Received:**	10/22/13
Method:	SW846 8082 SW846 3546	**Percent Solids:**	94.6
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ84919.D	1	10/24/13	CZ	10/22/13	OP35371	GYZ7347
Run #2	YZ84926.D	50	10/25/13	CZ	10/22/13	OP35371	GYZ7348

	Initial Weight	Final Volume
Run #1	20.6 g	10.0 ml
Run #2	20.6 g	10.0 ml

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.026	mg/kg	
11104-28-2	Aroclor 1221	ND	0.026	mg/kg	
11141-16-5	Aroclor 1232	ND	0.026	mg/kg	
53469-21-9	Aroclor 1242	ND	0.026	mg/kg	
12672-29-6	Aroclor 1248	ND	0.026	mg/kg	
11097-69-1	Aroclor 1254	9.95 [a]	1.3	mg/kg	
11096-82-5	Aroclor 1260	ND	0.026	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	68%	0% [b]	30-150%
877-09-8	Tetrachloro-m-xylene	67%	0% [b]	30-150%
2051-24-3	Decachlorobiphenyl	111%	0% [b]	30-150%
2051-24-3	Decachlorobiphenyl	75%	0% [b]	30-150%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FWR-SE-LID-102113
Lab Sample ID: MC25505-2
Matrix: SO - Solid
Date Sampled: 10/21/13
Date Received: 10/22/13
Percent Solids: 94.6
Project: Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	7230	18	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Antimony	< 0.91	0.91	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Arsenic	3.6	0.91	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Barium	152	4.6	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Beryllium	< 0.36	0.36	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Cadmium	< 0.36	0.36	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Calcium	160000	4600	mg/kg	10	10/22/13	10/23/13	EAL	SW846 6010C [3]	SW846 3050B [5]
Chromium	9.4	0.91	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Cobalt	4.9	4.6	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Copper	18.2	2.3	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Iron	9000	9.1	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Lead	12.7	0.91	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Magnesium	10300	460	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Manganese	457	1.4	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Mercury	< 0.034	0.034	mg/kg	1	10/22/13	10/22/13	SA	SW846 7471B [1]	SW846 7471B [4]
Nickel	10	3.6	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Potassium	1070	460	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Selenium	< 0.91	0.91	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Silver	< 0.46	0.46	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Sodium	< 460	460	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Thallium	< 0.91	0.91	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Vanadium	13.2	0.91	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Zinc	31.3	1.8	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]

(1) Instrument QC Batch: MA16272
(2) Instrument QC Batch: MA16281
(3) Instrument QC Batch: MA16283
(4) Prep QC Batch: MP21875
(5) Prep QC Batch: MP21877

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FWR-SE-LID-102113		
Lab Sample ID:	MC25505-2	**Date Sampled:**	10/21/13
Matrix:	SO - Solid	**Date Received:**	10/22/13
		Percent Solids:	94.6
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Corrosivity as pH	12.2			1	10/22/13	MA	SW846 CHAP7
Cyanide Reactivity	< 1.6	1.6	mg/kg	1	10/23/13 14:45	BF	SW846 CHAP7
Ignitability (Flashpoint)	> 230		Deg. F	1	10/24/13	BF	SW846 1020
Solids, Percent	94.6		%	1	10/22/13	HS	SM21 2540 B MOD.
Sulfide Reactivity	< 53	53	mg/kg	1	10/23/13	BF	SW846 CHAP7

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FWR-NW-LID-102113		
Lab Sample ID:	MC25505-3	**Date Sampled:**	10/21/13
Matrix:	SO - Solid	**Date Received:**	10/22/13
Method:	SW846 8260B	**Percent Solids:**	94.2
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M60579.D	1	10/23/13	KD	n/a	n/a	MSM2107
Run #2							

	Initial Weight	Final Volume
Run #1	4.56 g	5.0 ml
Run #2		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	0.012	mg/kg	
71-43-2	Benzene	ND	0.00058	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0023	mg/kg	
75-25-2	Bromoform	ND	0.0023	mg/kg	
74-83-9	Bromomethane	ND	0.0023	mg/kg	
78-93-3	2-Butanone (MEK)	ND	0.0058	mg/kg	
75-15-0	Carbon disulfide	ND	0.0058	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0023	mg/kg	
108-90-7	Chlorobenzene	ND	0.0023	mg/kg	
75-00-3	Chloroethane	ND	0.0058	mg/kg	
67-66-3	Chloroform	ND	0.0023	mg/kg	
74-87-3	Chloromethane	ND	0.0058	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0023	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.0023	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0023	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.0023	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.0023	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.0023	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.0023	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0023	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0023	mg/kg	
100-41-4	Ethylbenzene	ND	0.0023	mg/kg	
591-78-6	2-Hexanone	ND	0.0058	mg/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	0.0058	mg/kg	
75-09-2	Methylene chloride	ND	0.0023	mg/kg	
100-42-5	Styrene	ND	0.0058	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0023	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0023	mg/kg	
108-88-3	Toluene	ND	0.0058	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0023	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0023	mg/kg	
79-01-6	Trichloroethene	ND	0.0023	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-NW-LID-102113		
Lab Sample ID:	MC25505-3	**Date Sampled:**	10/21/13
Matrix:	SO - Solid	**Date Received:**	10/22/13
Method:	SW846 8260B	**Percent Solids:**	94.2
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	0.0023	mg/kg	
1330-20-7	Xylene (total)	ND	0.0023	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	85%		70-130%
2037-26-5	Toluene-D8	82%		70-130%
460-00-4	4-Bromofluorobenzene	84%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-NW-LID-102113		
Lab Sample ID:	MC25505-3	**Date Sampled:**	10/21/13
Matrix:	SO - Solid	**Date Received:**	10/22/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	94.2
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R34492.D	1	10/24/13	KR	10/22/13	OP35377	MSR1257
Run #2 [a]	F69976.D	1	10/29/13	WK	10/22/13	OP35377	MSF3127

	Initial Weight	Final Volume
Run #1	20.5 g	1.0 ml
Run #2	20.5 g	1.0 ml

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	0.26	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.52	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.52	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.52	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	1.0	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.52	mg/kg	
95-48-7	2-Methylphenol	ND	0.52	mg/kg	
	3&4-Methylphenol	ND	0.52	mg/kg	
88-75-5	2-Nitrophenol	ND	0.52	mg/kg	
100-02-7	4-Nitrophenol	ND	1.0	mg/kg	
87-86-5	Pentachlorophenol	ND	0.52	mg/kg	
108-95-2	Phenol	ND	0.26	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.52	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.52	mg/kg	
83-32-9	Acenaphthene	ND	0.10	mg/kg	
208-96-8	Acenaphthylene	ND	0.10	mg/kg	
120-12-7	Anthracene	ND	0.10	mg/kg	
56-55-3	Benzo(a)anthracene	0.106	0.10	mg/kg	
50-32-8	Benzo(a)pyrene	0.106	0.10	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.128	0.10	mg/kg	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.10	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.26	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.26	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.26	mg/kg	
106-47-8	4-Chloroaniline	ND	0.52	mg/kg	
86-74-8	Carbazole	ND	0.10	mg/kg	
218-01-9	Chrysene	0.109	0.10	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.26	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.26	mg/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	0.26	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.26	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-NW-LID-102113		
Lab Sample ID:	MC25505-3	**Date Sampled:**	10/21/13
Matrix:	SO - Solid	**Date Received:**	10/22/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	94.2
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	0.26	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.26	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.26	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.52	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.52	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.26	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	mg/kg	
132-64-9	Dibenzofuran	ND	0.10	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.26	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.26	mg/kg	
84-66-2	Diethyl phthalate	ND	0.26	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.26	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.26	mg/kg	
206-44-0	Fluoranthene	0.250	0.10	mg/kg	
86-73-7	Fluorene	ND	0.10	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.26	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.26	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.52	mg/kg	
67-72-1	Hexachloroethane	ND	0.26	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	mg/kg	
78-59-1	Isophorone	ND	0.26	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.10	mg/kg	
88-74-4	2-Nitroaniline	ND	0.52	mg/kg	
99-09-2	3-Nitroaniline	ND	0.52	mg/kg	
100-01-6	4-Nitroaniline	ND	0.52	mg/kg	
91-20-3	Naphthalene	ND	0.10	mg/kg	
98-95-3	Nitrobenzene	ND	0.26	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.26	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.26	mg/kg	
85-01-8	Phenanthrene	0.206	0.10	mg/kg	
129-00-0	Pyrene	0.200	0.10	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.26	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	2% [b]	1% [b]	30-130%
4165-62-2	Phenol-d5	21% [b]	15% [b]	30-130%
118-79-6	2,4,6-Tribromophenol	4% [b]	2% [b]	30-130%
4165-60-0	Nitrobenzene-d5	52%	46%	30-130%
321-60-8	2-Fluorobiphenyl	63%	48%	30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-NW-LID-102113		
Lab Sample ID:	MC25505-3	**Date Sampled:**	10/21/13
Matrix:	SO - Solid	**Date Received:**	10/22/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	94.2
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	72%	71%	30-130%

(a) Confirmation run for surrogate recoveries.
(b) Outside control limits due to sample matrix interference(concrete). Results confirmed by reanalysis.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FWR-NW-LID-102113
Lab Sample ID: MC25505-3 **Date Sampled:** 10/21/13
Matrix: SO - Solid **Date Received:** 10/22/13
Method: SW846 8081 SW846 3546 **Percent Solids:** 94.2
Project: Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BE38544.D	1	10/27/13	NK	10/22/13	OP35372	GBE2002
Run #2							

	Initial Weight	Final Volume
Run #1	20.9 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.0051	mg/kg	
319-84-6	alpha-BHC	ND	0.0051	mg/kg	
319-85-7	beta-BHC	ND	0.0051	mg/kg	
319-86-8	delta-BHC	ND	0.0051	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.0051	mg/kg	
5103-71-9	alpha-Chlordane	ND	0.0051	mg/kg	
5103-74-2	gamma-Chlordane	ND	0.0051	mg/kg	
60-57-1	Dieldrin	ND	0.0051	mg/kg	
72-54-8	4,4'-DDD	ND	0.0051	mg/kg	
72-55-9	4,4'-DDE	ND	0.0051	mg/kg	
50-29-3	4,4'-DDT	ND	0.0051	mg/kg	
72-20-8	Endrin	ND	0.0051	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.0051	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.0051	mg/kg	
959-98-8	Endosulfan-I	ND	0.0051	mg/kg	
33213-65-9	Endosulfan-II	ND	0.0051	mg/kg	
76-44-8	Heptachlor	ND	0.0051	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.0051	mg/kg	
72-43-5	Methoxychlor	ND	0.0051	mg/kg	
53494-70-5	Endrin ketone	ND	0.0051	mg/kg	
8001-35-2	Toxaphene	ND	0.051	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	52%		30-150%
877-09-8	Tetrachloro-m-xylene	58%		30-150%
2051-24-3	Decachlorobiphenyl	60%		30-150%
2051-24-3	Decachlorobiphenyl	78%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-NW-LID-102113		
Lab Sample ID:	MC25505-3	**Date Sampled:**	10/21/13
Matrix:	SO - Solid	**Date Received:**	10/22/13
Method:	SW846 8082 SW846 3546	**Percent Solids:**	94.2
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ84920.D	1	10/24/13	CZ	10/22/13	OP35371	GYZ7347
Run #2							

	Initial Weight	Final Volume
Run #1	20.9 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.025	mg/kg	
11104-28-2	Aroclor 1221	ND	0.025	mg/kg	
11141-16-5	Aroclor 1232	ND	0.025	mg/kg	
53469-21-9	Aroclor 1242	ND	0.025	mg/kg	
12672-29-6	Aroclor 1248	ND	0.025	mg/kg	
11097-69-1	Aroclor 1254	ND	0.025	mg/kg	
11096-82-5	Aroclor 1260	ND	0.025	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	84%		30-150%
877-09-8	Tetrachloro-m-xylene	84%		30-150%
2051-24-3	Decachlorobiphenyl	118%		30-150%
2051-24-3	Decachlorobiphenyl	307% [a]		30-150%

(a) Outside control limits due to possible matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FWR-NW-LID-102113
Lab Sample ID: MC25505-3
Matrix: SO - Solid
Date Sampled: 10/21/13
Date Received: 10/22/13
Percent Solids: 94.2
Project: Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	9240	18	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Antimony	< 0.92	0.92	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Arsenic	3.5	0.92	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Barium	60.8	4.6	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Beryllium	< 0.37	0.37	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Cadmium	< 0.37	0.37	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Calcium	139000	4600	mg/kg	10	10/22/13	10/23/13	EAL	SW846 6010C [3]	SW846 3050B [5]
Chromium	14.3	0.92	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Cobalt	5.0	4.6	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Copper	18.7	2.3	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Iron	12100	9.2	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Lead	10.1	0.92	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Magnesium	12000	460	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Manganese	316	1.4	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Mercury	< 0.033	0.033	mg/kg	1	10/22/13	10/22/13	SA	SW846 7471B [1]	SW846 7471B [4]
Nickel	10.7	3.7	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Potassium	1440	460	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Selenium	< 0.92	0.92	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Silver	< 0.46	0.46	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Sodium	864	460	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Thallium	< 0.92	0.92	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Vanadium	11.3	0.92	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Zinc	34.2	1.8	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]

(1) Instrument QC Batch: MA16272
(2) Instrument QC Batch: MA16281
(3) Instrument QC Batch: MA16283
(4) Prep QC Batch: MP21875
(5) Prep QC Batch: MP21877

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FWR-NW-LID-102113		
Lab Sample ID:	MC25505-3	**Date Sampled:**	10/21/13
Matrix:	SO - Solid	**Date Received:**	10/22/13
		Percent Solids:	94.2
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Corrosivity as pH	12.3			1	10/22/13	MA	SW846 CHAP7
Cyanide Reactivity	< 1.6	1.6	mg/kg	1	10/23/13 14:45	BF	SW846 CHAP7
Ignitability (Flashpoint)	> 230		Deg. F	1	10/24/13	BF	SW846 1020
Solids, Percent	94.2		%	1	10/22/13	HS	SM21 2540 B MOD.
Sulfide Reactivity	< 53	53	mg/kg	1	10/23/13	BF	SW846 CHAP7

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FWR-NE-LID-102113		
Lab Sample ID:	MC25505-4	**Date Sampled:**	10/21/13
Matrix:	SO - Solid	**Date Received:**	10/22/13
Method:	SW846 8260B	**Percent Solids:**	95.1
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M60586.D	1	10/23/13	KD	n/a	n/a	MSM2107
Run #2							

	Initial Weight	Final Volume
Run #1	5.13 g	5.0 ml
Run #2		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	0.010	mg/kg	
71-43-2	Benzene	ND	0.00051	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0020	mg/kg	
75-25-2	Bromoform	ND	0.0020	mg/kg	
74-83-9	Bromomethane	ND	0.0020	mg/kg	
78-93-3	2-Butanone (MEK)	ND	0.0051	mg/kg	
75-15-0	Carbon disulfide	ND	0.0051	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0020	mg/kg	
108-90-7	Chlorobenzene	ND	0.0020	mg/kg	
75-00-3	Chloroethane	ND	0.0051	mg/kg	
67-66-3	Chloroform	ND	0.0020	mg/kg	
74-87-3	Chloromethane	ND	0.0051	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0020	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.0020	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0020	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.0020	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.0020	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.0020	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.0020	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0020	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0020	mg/kg	
100-41-4	Ethylbenzene	ND	0.0020	mg/kg	
591-78-6	2-Hexanone	ND	0.0051	mg/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	0.0051	mg/kg	
75-09-2	Methylene chloride	ND	0.0020	mg/kg	
100-42-5	Styrene	ND	0.0051	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0020	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0020	mg/kg	
108-88-3	Toluene	ND	0.0051	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0020	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0020	mg/kg	
79-01-6	Trichloroethene	ND	0.0020	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-NE-LID-102113		
Lab Sample ID:	MC25505-4	**Date Sampled:**	10/21/13
Matrix:	SO - Solid	**Date Received:**	10/22/13
Method:	SW846 8260B	**Percent Solids:**	95.1
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	0.0020	mg/kg	
1330-20-7	Xylene (total)	ND	0.0020	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	85%		70-130%
2037-26-5	Toluene-D8	83%		70-130%
460-00-4	4-Bromofluorobenzene	84%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-NE-LID-102113		
Lab Sample ID:	MC25505-4	**Date Sampled:**	10/21/13
Matrix:	SO - Solid	**Date Received:**	10/22/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	95.1
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R34493.D	1	10/24/13	KR	10/22/13	OP35377	MSR1257
Run #2 [a]	F69977.D	1	10/29/13	WK	10/22/13	OP35377	MSF3127

	Initial Weight	Final Volume
Run #1	20.5 g	1.0 ml
Run #2	20.5 g	1.0 ml

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	0.26	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.51	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.51	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.51	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	1.0	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.51	mg/kg	
95-48-7	2-Methylphenol	ND	0.51	mg/kg	
	3&4-Methylphenol	ND	0.51	mg/kg	
88-75-5	2-Nitrophenol	ND	0.51	mg/kg	
100-02-7	4-Nitrophenol	ND	1.0	mg/kg	
87-86-5	Pentachlorophenol	ND	0.51	mg/kg	
108-95-2	Phenol	ND	0.26	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.51	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.51	mg/kg	
83-32-9	Acenaphthene	ND	0.10	mg/kg	
208-96-8	Acenaphthylene	ND	0.10	mg/kg	
120-12-7	Anthracene	ND	0.10	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.10	mg/kg	
50-32-8	Benzo(a)pyrene	ND	0.10	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.10	mg/kg	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.10	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.26	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.26	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.26	mg/kg	
106-47-8	4-Chloroaniline	ND	0.51	mg/kg	
86-74-8	Carbazole	ND	0.10	mg/kg	
218-01-9	Chrysene	ND	0.10	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.26	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.26	mg/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	0.26	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.26	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-NE-LID-102113		
Lab Sample ID:	MC25505-4	**Date Sampled:**	10/21/13
Matrix:	SO - Solid	**Date Received:**	10/22/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	95.1
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	0.26	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.26	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.26	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.51	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.51	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.26	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	mg/kg	
132-64-9	Dibenzofuran	ND	0.10	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.26	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.26	mg/kg	
84-66-2	Diethyl phthalate	ND	0.26	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.26	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.26	mg/kg	
206-44-0	Fluoranthene	ND	0.10	mg/kg	
86-73-7	Fluorene	ND	0.10	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.26	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.26	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.51	mg/kg	
67-72-1	Hexachloroethane	ND	0.26	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	mg/kg	
78-59-1	Isophorone	ND	0.26	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.10	mg/kg	
88-74-4	2-Nitroaniline	ND	0.51	mg/kg	
99-09-2	3-Nitroaniline	ND	0.51	mg/kg	
100-01-6	4-Nitroaniline	ND	0.51	mg/kg	
91-20-3	Naphthalene	ND	0.10	mg/kg	
98-95-3	Nitrobenzene	ND	0.26	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.26	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.26	mg/kg	
85-01-8	Phenanthrene	ND	0.10	mg/kg	
129-00-0	Pyrene	ND	0.10	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.26	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	1% [b]	1% [b]	30-130%
4165-62-2	Phenol-d5	19% [b]	15% [b]	30-130%
118-79-6	2,4,6-Tribromophenol	0% [b]	1% [b]	30-130%
4165-60-0	Nitrobenzene-d5	47%	47%	30-130%
321-60-8	2-Fluorobiphenyl	58%	49%	30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-NE-LID-102113		
Lab Sample ID:	MC25505-4	**Date Sampled:**	10/21/13
Matrix:	SO - Solid	**Date Received:**	10/22/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	95.1
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	70%	63%	30-130%

(a) Confirmation run for surrogate recoveries.
(b) Outside control limits due to sample matrix interference(concrete). Results confirmed by reanalysis.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-NE-LID-102113		
Lab Sample ID:	MC25505-4	**Date Sampled:**	10/21/13
Matrix:	SO - Solid	**Date Received:**	10/22/13
Method:	SW846 8081 SW846 3546	**Percent Solids:**	95.1
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BE38508.D	1	10/25/13	NK	10/22/13	OP35372	GBE2001
Run #2							

	Initial Weight	Final Volume
Run #1	20.8 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.0051	mg/kg	
319-84-6	alpha-BHC	ND	0.0051	mg/kg	
319-85-7	beta-BHC	ND	0.0051	mg/kg	
319-86-8	delta-BHC	ND	0.0051	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.0051	mg/kg	
5103-71-9	alpha-Chlordane	ND	0.0051	mg/kg	
5103-74-2	gamma-Chlordane	ND	0.0051	mg/kg	
60-57-1	Dieldrin	ND	0.0051	mg/kg	
72-54-8	4,4'-DDD	ND	0.0051	mg/kg	
72-55-9	4,4'-DDE	ND	0.0051	mg/kg	
50-29-3	4,4'-DDT	ND	0.0051	mg/kg	
72-20-8	Endrin	ND	0.0051	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.0051	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.0051	mg/kg	
959-98-8	Endosulfan-I	ND	0.0051	mg/kg	
33213-65-9	Endosulfan-II	ND	0.0051	mg/kg	
76-44-8	Heptachlor	ND	0.0051	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.0051	mg/kg	
72-43-5	Methoxychlor	ND	0.0051	mg/kg	
53494-70-5	Endrin ketone	ND	0.0051	mg/kg	
8001-35-2	Toxaphene	ND	0.051	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	65%		30-150%
877-09-8	Tetrachloro-m-xylene	52%		30-150%
2051-24-3	Decachlorobiphenyl	69%		30-150%
2051-24-3	Decachlorobiphenyl	61%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-NE-LID-102113		
Lab Sample ID:	MC25505-4	**Date Sampled:**	10/21/13
Matrix:	SO - Solid	**Date Received:**	10/22/13
Method:	SW846 8082 SW846 3546	**Percent Solids:**	95.1
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ84921.D	1	10/24/13	CZ	10/22/13	OP35371	GYZ7347
Run #2							

	Initial Weight	Final Volume
Run #1	20.8 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.025	mg/kg	
11104-28-2	Aroclor 1221	ND	0.025	mg/kg	
11141-16-5	Aroclor 1232	ND	0.025	mg/kg	
53469-21-9	Aroclor 1242	ND	0.025	mg/kg	
12672-29-6	Aroclor 1248	ND	0.025	mg/kg	
11097-69-1	Aroclor 1254	ND	0.025	mg/kg	
11096-82-5	Aroclor 1260	ND	0.025	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	95%		30-150%
877-09-8	Tetrachloro-m-xylene	94%		30-150%
2051-24-3	Decachlorobiphenyl	114%		30-150%
2051-24-3	Decachlorobiphenyl	108%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FWR-NE-LID-102113
Lab Sample ID: MC25505-4
Matrix: SO - Solid
Date Sampled: 10/21/13
Date Received: 10/22/13
Percent Solids: 95.1
Project: Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	8550	18	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Antimony	< 0.91	0.91	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Arsenic	3.6	0.91	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Barium	101	4.5	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Beryllium	< 0.36	0.36	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Cadmium	< 0.36	0.36	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Calcium	144000	4500	mg/kg	10	10/22/13	10/23/13	EAL	SW846 6010C [3]	SW846 3050B [5]
Chromium	13.1	0.91	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Cobalt	5.0	4.5	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Copper	13.4	2.3	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Iron	11300	9.1	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Lead	6.9	0.91	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Magnesium	7690	450	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Manganese	417	1.4	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Mercury	< 0.033	0.033	mg/kg	1	10/22/13	10/22/13	SA	SW846 7471B [1]	SW846 7471B [4]
Nickel	10.1	3.6	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Potassium	1520	450	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Selenium	< 0.91	0.91	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Silver	< 0.45	0.45	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Sodium	935	450	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Thallium	< 0.91	0.91	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Vanadium	10.7	0.91	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Zinc	37.6	1.8	mg/kg	1	10/22/13	10/22/13	EAL	SW846 6010C [2]	SW846 3050B [5]

(1) Instrument QC Batch: MA16272
(2) Instrument QC Batch: MA16281
(3) Instrument QC Batch: MA16283
(4) Prep QC Batch: MP21875
(5) Prep QC Batch: MP21877

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FWR-NE-LID-102113		
Lab Sample ID:	MC25505-4	**Date Sampled:**	10/21/13
Matrix:	SO - Solid	**Date Received:**	10/22/13
		Percent Solids:	95.1
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Corrosivity as pH	12.3			1	10/22/13	MA	SW846 CHAP7
Cyanide Reactivity	< 1.5	1.5	mg/kg	1	10/23/13 14:45	BF	SW846 CHAP7
Ignitability (Flashpoint)	> 230		Deg. F	1	10/24/13	BF	SW846 1020
Solids, Percent	95.1		%	1	10/22/13	HS	SM21 2540 B MOD.
Sulfide Reactivity	< 53	53	mg/kg	1	10/23/13	BF	SW846 CHAP7

RL = Reporting Limit

New England ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

Accutest Laboratories of New England
495 Technology Center West, Building One
TEL. 508-481-6200 FAX: 508-481-7753
www.accutest.com

PAGE 1 OF 1

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest Job #: MC25505

Client / Reporting Information

Company Name: WSP USA Corp.
Street Address: 2360 Sweet Home Rd.
City: Amherst, State: NY. Zip: 14228
Project Contact: Kevin. Sullivan@WSPGroup.com E-mail:
Phone #: (716) 713-8688 Fax #: .com
Sampler(s) Name(s): Kevin Sullivan Phone #: Same
Project Name: Emerson Power Transmission
Street: 620 S. Aurora St.
City: Ithaca, N.Y.
Project #: 3197
Client PO#: 3197
Project Manager: Scott Hartz

Billing Information (If different from Report to)

Company Name: See Task Order
Street Address:
City: State: Zip:
Attention: PO#:

Requested Analysis (see TEST CODE sheet)

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	EnCore	Bisulfate	TCL VOC - 8260	TCL SVOC - 8270	TAL Metals -	Pest / PCB - 8081 / 8082	Phenol. / Cresols, Total	LAB USE ONLY
-1	FWR-SW-LiD-102113		10/21/13	1500	KDS	SOL	2					X					X	X	X	X	X	
-2	FWR-SE-LiD-102113			1505	KDS	SOL	2					X					X	X	X	X	X	
-3	FWR-NW-LiD-102113			1512	KDS	SOL	2					X					X	X	X	X	X	
-4	FWR-NE-LiD-102113			1518	KDS	SOL	2					X					X	X	X	X	X	
	ALL SAMPLES RUSH 24 HR TURNAROUND - REPORT TCL VOCS FIRST																					
																						9A, 5E1

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB-Rinse Blank; TB-Trip Blank

Turnaround Time (Business days)

- [ ] Std. 10 Business Days
- [ ] Std. 5 Business Days (By Contract only)
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [X] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

RUSH!

Data Deliverable Information

- [X] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] CT RCP
- [ ] MA MCP
- [ ] NYASP Category A
- [X] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions

Please Report TCL VOCs First If Possible

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	[signature]	10/21/13 1630	FX	FX	10/22/13 9:15	[signature]
2						
3						
4						
5						

Custody Seal #: [ ] Intact [ ] Not Intact
Preserved where applicable: [ ]
On Ice: [X] Cooler Temp: 5.6°

SYRACUSE SC

MC25505: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC25505 **Client:** WSP USA CORP **Immediate Client Servic**

Date / Time Received: 10/22/2013 **Delivery Method:** **Client Service Actio**

Project: EMERSON POWER TRANS. **No. Coolers:** 1 **Airbill #'s:**

Cooler Security

	Y or N		Y or N
1. Custody Seals Present:	☑ ☐	3. COC Present:	☑ ☐
2. Custody Seals Intact:	☑ ☐	4. Smpl Dates/Time OK	☑ ☐

Cooler Temperature

	Y or N
1. Temp criteria achieved:	☑ ☐
2. Cooler temp verification:	Infared gun
3. Cooler media:	Ice (bag)

Quality Control Preservation

	Y or N	N/A
1. Trip Blank present / cooler:	☑ ☐	☐
2. Trip Blank listed on COC:	☑ ☐	☐
3. Samples preserved properly:	☑ ☐	
4. VOCs headspace free:	☑ ☐	☐

Sample Integrity - Documentation

1. Sample labels present on bottles:
2. Container labeling complete:
3. Sample container label / COC agree:

Sample Integrity - Condition

1. Sample recvd within HT:
2. All containers accounted for:
3. Condition of sample:

Sample Integrity - Instructions

1. Analysis requested is clear:
2. Bottles received for unspecified tests
3. Sufficient volume recvd for analysis:
4. Compositing instructions clear:
5. Filtering instructions clear:

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

MC25505: Chain of Custody
Page 2 of 2

New England ACCUTEST LABORATORIES

12/04/13

Technical Report for

WSP Environmental & Energy

Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY

00003197/00017

Accutest Job Number: MC25720

Sampling Date: 10/28/13

Report to:

WSP Environmental & Energy

kevin.sullivan@wspgroup.com

ATTN: Kevin Sullivan

Total number of pages in report: **106**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Reza Tand
Lab Director

Client Service contact: Frank DAgostino 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

Sections: 1 2 3 4 5

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Sample Summary

WSP Environmental & Energy

Job No: MC25720

Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY
Project No: 00003197/00017

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC25720-1	10/28/13	10:00	KS	10/29/13	SO	Solid	FWR-NTWW-1.0-102813
MC25720-2	10/28/13	10:10	KS	10/29/13	SO	Solid	FWR-NTSW-1.0-102813
MC25720-3	10/28/13	10:25	KS	10/29/13	SO	Solid	FWR-NTEW-1.0-102813
MC25720-4	10/28/13	10:50	KS	10/29/13	SO	Solid	FWR-STWW-1.5-102813
MC25720-5	10/28/13	11:00	KS	10/29/13	SO	Solid	FWR-STWW-3.0-102813
MC25720-6	10/28/13	11:33	KS	10/29/13	SO	Solid	FWR-STWW-4.5-102813
MC25720-7	10/28/13	11:22	KS	10/29/13	SO	Solid	FWR-STWW-6.0-102813
MC25720-8	10/28/13	11:32	KS	10/29/13	SO	Solid	FWR-STSW-1.0-102813
MC25720-9	10/28/13	11:40	KS	10/29/13	SO	Solid	FWR-STEW-1.0-102813
MC25720-10	10/28/13	11:50	KS	10/29/13	SO	Solid	FWR-STNW-1.0-102813

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	WSP Environmental & Energy	**Job No**	MC25720
Site:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY	**Report Date**	11/6/2013 1:04:18 PM

10 Sample(s) were collected on 10/28/2013 and were received at Accutest on 10/29/2013 properly preserved, at 1.5 Deg. C and intact. These Samples received an Accutest job number of MC25720. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix SO **Batch ID:** MSG5141

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC25650-1MS, MC25650-1MSD were used as the QC samples indicated.
- All samples analyzed by method SW846 8260C.
- MSG5141-BS/BSD Recovery(s) for Bromomethane, Chloroethane, Chloromethane are outside control limits. Blank Spike meets program technical requirements.
- MC25650-1MS/MSD Recovery(s) for Bromomethane, Chloroethane, Chloromethane are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.

Matrix SO **Batch ID:** MSG5142

- All samples were analyzed within the recommended method holding time.
- Sample(s) MC25720-1MS, MC25720-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- All samples analyzed by method SW846 8260C.
- Blank Spike Recovery(s) for 4-Methyl-2-pentanone (MIBK), Bromomethane, Chloroethane, Chloromethane are outside control limits. Blank Spike meets program technical requirements.
- OP35493-MS/MSD Recovery(s) for 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1-Dichloroethene, 4-Methyl-2-pentanone (MIBK), Acetone, Bromomethane, Carbon disulfide, Chloroethane, Chloromethane, trans-1,2-Dichloroethene, Trichloroethene are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.

Extractables by GCMS By Method SW846 8270C

Matrix SO **Batch ID:** OP35493

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) MC25720-3MS, MC25720-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- All samples analyzed by method SW846 8270D.
- Matrix Spike Recovery(s) for 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrophenol, 4,6-Dinitro-o-cresol, 4-Nitrophenol, Pentachlorophenol are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrophenol, 4,6-Dinitro-o-cresol, 4-Nitrophenol, Pentachlorophenol are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- MC25720-2,8,10 for Phenol-d5: Outside control limits due to matrix interference(concrete). Confirmed by reanalysis.
- OP35493-MS/MSD for 2,4,6-Tribromophenol: Outside control limits due to possible matrix interfernce. Confirmed by MS/MSD.
- MC25720-1,2,3,4,5,6,7,8,9,10 for 2,4,6-Tribromophenol: Outside control limits due to matrix interference(concrete). Confirmed by reanalysis.
- MC25720-1,2,3,4,5,6,7,8,10 for 2-Fluorophenol: Outside control limits due to matrix interference(concrete). Confirmed by reanalysis.

Extractables by GC By Method SW846 8081

Matrix SO **Batch ID:** OP35496

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC25720-10MS, MC25720-10MSD were used as the QC samples indicated.
- OP35496-MS1/MSD1 Recovery(s) for Endosulfan-II are outside control limits. Outside control limits due to possible matrix interference.
- Continuing calibration check standard GBB3059-CC3059, signal #1, file BB52005 for Endrin exceed criteria (response bias high). Associated samples are non-detect for this analyte.
- Continuing calibration check standard GBB3059-ECC3059, signal #1, file BB52010 for 4,4'-DDT, Methoxychlor, Endrin ketone exceed criteria. Outside control limits due to possible residual matrix interference. Associated samples confirmed by reanalysis.
- Continuing calibration check standard GBB3060-CC3060, signal #1, file BB52039 for 4,4'-DDT, Methoxychlor exceed criteria. Outside control limits due to possible residual matrix interference. Associated samples confirmed by reanalysis.

Extractables by GC By Method SW846 8082

Matrix SO **Batch ID:** OP35495

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC25720-1MS, MC25720-1MSD were used as the QC samples indicated.
- MC25720-9 for Aroclor 1260: Estimated value due to the presence of other Arochlor pattern.

Metals By Method SW846 6010C

Matrix	SO	Batch ID:	MP21927

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC25720-1MSD, MC25720-1SDL, MC25720-1MSD, MC25720-1PS were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Antimony are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.Post spike is not within acceptable range.
- Matrix Spike Duplicate Recovery(s) for Antimony are outside control limits. Spike duplicate recovery indicates possible matrix interference and/or sample nonhomogeneity.
- MS/MSD Recovery(s) for Calcium, Aluminum, Iron, Manganese are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for Serial Dilution for Thallium are outside control limits for sample MP21927-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP21927-MB1 for Iron: Acceptable, all associated sample concentration is greater than 10 times the blank results for this analyte.
- MP21927-PS1 for Antimony: Post-digestion spike recoveries outside of control limits indicate possible matrix interference.
- MP21927-SD1 for Cobalt, Iron, Lead, Magnesium, Manganese, Nickel, Zinc: Serial dilution indicates possible matrix interference.

Metals By Method SW846 7471B

Matrix	SO	Batch ID:	MP21923

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC25720-1MS, MC25720-1MSD were used as the QC samples for metals.

Wet Chemistry By Method SM21 2540 B MOD.

Matrix	SO	Batch ID:	GN44878

- Sample(s) MC25684-2DUP were used as the QC samples for Solids, Percent.

Wet Chemistry By Method SW846 1020

Matrix	SO	Batch ID:	GN44769

- Sample(s) MC25426-1DUP were used as the QC samples for Ignitability (Flashpoint).

Wet Chemistry By Method SW846 CHAP7

Matrix	SO	Batch ID:	GN44881

- Sample(s) MC25720-1DUP were used as the QC samples for Corrosivity as pH.

Matrix	SO	Batch ID:	GP16799

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC25628-1DUP, MC25628-1MS were used as the QC samples for Cyanide Reactivity.

Matrix	SO	Batch ID:	GP16800

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC25628-1DUP, MC25628-1MS were used as the QC samples for Sulfide Reactivity.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(MC25720).

Summary of Hits

Job Number: MC25720
Account: WSP Environmental & Energy
Project: Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY
Collected: 10/28/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC25720-1	**FWR-NTWW-1.0-102813**					
Aluminum		12800	21		mg/kg	SW846 6010C
Arsenic		4.7	1.0		mg/kg	SW846 6010C
Barium		149	5.2		mg/kg	SW846 6010C
Beryllium		0.44	0.41		mg/kg	SW846 6010C
Calcium		69800	5200		mg/kg	SW846 6010C
Chromium		14.2	1.0		mg/kg	SW846 6010C
Cobalt		8.1	5.2		mg/kg	SW846 6010C
Copper		18.2	2.6		mg/kg	SW846 6010C
Iron		19200	10		mg/kg	SW846 6010C
Lead		5.9	1.0		mg/kg	SW846 6010C
Magnesium		5770	520		mg/kg	SW846 6010C
Manganese		501	1.6		mg/kg	SW846 6010C
Nickel		18.9	4.1		mg/kg	SW846 6010C
Potassium		1310	520		mg/kg	SW846 6010C
Vanadium		17.3	1.0		mg/kg	SW846 6010C
Zinc		46.4	2.1		mg/kg	SW846 6010C
Corrosivity as pH		11.7				SW846 CHAP7
Ignitability (Flashpoint)		> 230			Deg. F	SW846 1020
MC25720-2	**FWR-NTSW-1.0-102813**					
Aluminum		11800	20		mg/kg	SW846 6010C
Arsenic		3.9	1.0		mg/kg	SW846 6010C
Barium		50.3	5.0		mg/kg	SW846 6010C
Beryllium		0.40	0.40		mg/kg	SW846 6010C
Calcium		95000	5000		mg/kg	SW846 6010C
Chromium		13.3	1.0		mg/kg	SW846 6010C
Cobalt		5.5	5.0		mg/kg	SW846 6010C
Copper		16.2	2.5		mg/kg	SW846 6010C
Iron		15900	10		mg/kg	SW846 6010C
Lead		6.2	1.0		mg/kg	SW846 6010C
Magnesium		9160	500		mg/kg	SW846 6010C
Manganese		457	1.5		mg/kg	SW846 6010C
Nickel		15.2	4.0		mg/kg	SW846 6010C
Potassium		1800	500		mg/kg	SW846 6010C
Sodium		548	500		mg/kg	SW846 6010C
Vanadium		13.8	1.0		mg/kg	SW846 6010C
Zinc		42.5	2.0		mg/kg	SW846 6010C
Corrosivity as pH		12.1				SW846 CHAP7
Ignitability (Flashpoint)		> 230			Deg. F	SW846 1020

Summary of Hits

Job Number: MC25720
Account: WSP Environmental & Energy
Project: Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY
Collected: 10/28/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC25720-3	**FWR-NTEW-1.0-102813**					
Aroclor 1254		0.0413	0.027		mg/kg	SW846 8082
Aluminum		10900	22		mg/kg	SW846 6010C
Arsenic		6.3	1.1		mg/kg	SW846 6010C
Barium		123	5.4		mg/kg	SW846 6010C
Beryllium		0.43	0.43		mg/kg	SW846 6010C
Calcium		45600	540		mg/kg	SW846 6010C
Chromium		12.5	1.1		mg/kg	SW846 6010C
Cobalt		9.2	5.4		mg/kg	SW846 6010C
Copper		29.8	2.7		mg/kg	SW846 6010C
Iron		18600	11		mg/kg	SW846 6010C
Lead		19.2	1.1		mg/kg	SW846 6010C
Magnesium		6650	540		mg/kg	SW846 6010C
Manganese		585	1.6		mg/kg	SW846 6010C
Mercury		0.048	0.035		mg/kg	SW846 7471B
Nickel		19.8	4.3		mg/kg	SW846 6010C
Potassium		1140	540		mg/kg	SW846 6010C
Sodium		798	540		mg/kg	SW846 6010C
Vanadium		14.3	1.1		mg/kg	SW846 6010C
Zinc		66.4	2.2		mg/kg	SW846 6010C
Corrosivity as pH		11.3				SW846 CHAP7
Ignitability (Flashpoint)		> 230			Deg. F	SW846 1020
MC25720-4	**FWR-STWW-1.5-102813**					
Aluminum		10800	21		mg/kg	SW846 6010C
Arsenic		4.8	1.0		mg/kg	SW846 6010C
Barium		109	5.2		mg/kg	SW846 6010C
Calcium		61200	5200		mg/kg	SW846 6010C
Chromium		12.6	1.0		mg/kg	SW846 6010C
Cobalt		7.5	5.2		mg/kg	SW846 6010C
Copper		17.2	2.6		mg/kg	SW846 6010C
Iron		18300	10		mg/kg	SW846 6010C
Lead		5.1	1.0		mg/kg	SW846 6010C
Magnesium		5240	520		mg/kg	SW846 6010C
Manganese		427	1.6		mg/kg	SW846 6010C
Nickel		18.2	4.2		mg/kg	SW846 6010C
Potassium		1150	520		mg/kg	SW846 6010C
Vanadium		14.2	1.0		mg/kg	SW846 6010C
Zinc		41.5	2.1		mg/kg	SW846 6010C
Corrosivity as pH		11.7				SW846 CHAP7
Ignitability (Flashpoint)		> 230			Deg. F	SW846 1020

Summary of Hits

Job Number: MC25720
Account: WSP Environmental & Energy
Project: Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY
Collected: 10/28/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC25720-5	**FWR-STWW-3.0-102813**					
Aluminum		11700	20		mg/kg	SW846 6010C
Arsenic		4.5	1.0		mg/kg	SW846 6010C
Barium		121	5.1		mg/kg	SW846 6010C
Calcium		42700	510		mg/kg	SW846 6010C
Chromium		14.0	1.0		mg/kg	SW846 6010C
Cobalt		7.6	5.1		mg/kg	SW846 6010C
Copper		21.1	2.5		mg/kg	SW846 6010C
Iron		19800	10		mg/kg	SW846 6010C
Lead		5.6	1.0		mg/kg	SW846 6010C
Magnesium		5530	510		mg/kg	SW846 6010C
Manganese		426	1.5		mg/kg	SW846 6010C
Nickel		19.2	4.1		mg/kg	SW846 6010C
Potassium		1460	510		mg/kg	SW846 6010C
Vanadium		15.6	1.0		mg/kg	SW846 6010C
Zinc		43.1	2.0		mg/kg	SW846 6010C
Corrosivity as pH		11.4				SW846 CHAP7
Ignitability (Flashpoint)		> 230			Deg. F	SW846 1020
MC25720-6	**FWR-STWW-4.5-102813**					
Aroclor 1254		0.0357	0.027		mg/kg	SW846 8082
Aluminum		11200	21		mg/kg	SW846 6010C
Arsenic		5.2	1.1		mg/kg	SW846 6010C
Barium		110	5.3		mg/kg	SW846 6010C
Calcium		75400	5300		mg/kg	SW846 6010C
Chromium		12.9	1.1		mg/kg	SW846 6010C
Cobalt		7.5	5.3		mg/kg	SW846 6010C
Copper		19.1	2.7		mg/kg	SW846 6010C
Iron		19500	11		mg/kg	SW846 6010C
Lead		7.0	1.1		mg/kg	SW846 6010C
Magnesium		7750	530		mg/kg	SW846 6010C
Manganese		465	1.6		mg/kg	SW846 6010C
Nickel		18.7	4.3		mg/kg	SW846 6010C
Potassium		1100	530		mg/kg	SW846 6010C
Vanadium		15.3	1.1		mg/kg	SW846 6010C
Zinc		47.5	2.1		mg/kg	SW846 6010C
Corrosivity as pH		11.2				SW846 CHAP7
Ignitability (Flashpoint)		> 230			Deg. F	SW846 1020
MC25720-7	**FWR-STWW-6.0-102813**					
Trichloroethene		0.121	0.11		mg/kg	SW846 8260B
Aluminum		13400	21		mg/kg	SW846 6010C

Summary of Hits

Job Number: MC25720
Account: WSP Environmental & Energy
Project: Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY
Collected: 10/28/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Arsenic		5.5	1.0		mg/kg	SW846 6010C
Barium		135	5.2		mg/kg	SW846 6010C
Beryllium		0.47	0.42		mg/kg	SW846 6010C
Calcium		54500	5200		mg/kg	SW846 6010C
Chromium		15.9	1.0		mg/kg	SW846 6010C
Cobalt		8.4	5.2		mg/kg	SW846 6010C
Copper		13.5	2.6		mg/kg	SW846 6010C
Iron		22000	10		mg/kg	SW846 6010C
Lead		6.2	1.0		mg/kg	SW846 6010C
Magnesium		5910	520		mg/kg	SW846 6010C
Manganese		477	1.6		mg/kg	SW846 6010C
Nickel		21.6	4.2		mg/kg	SW846 6010C
Potassium		1470	520		mg/kg	SW846 6010C
Vanadium		17.7	1.0		mg/kg	SW846 6010C
Zinc		48.2	2.1		mg/kg	SW846 6010C
Corrosivity as pH		11.5				SW846 CHAP7
Ignitability (Flashpoint)		> 230			Deg. F	SW846 1020
MC25720-8	**FWR-STSW-1.0-102813**					
Aluminum		13200	20		mg/kg	SW846 6010C
Arsenic		5.6	0.98		mg/kg	SW846 6010C
Barium		149	4.9		mg/kg	SW846 6010C
Beryllium		0.45	0.39		mg/kg	SW846 6010C
Calcium		70300	4900		mg/kg	SW846 6010C
Chromium		15.5	0.98		mg/kg	SW846 6010C
Cobalt		8.3	4.9		mg/kg	SW846 6010C
Copper		16.0	2.4		mg/kg	SW846 6010C
Iron		21500	9.8		mg/kg	SW846 6010C
Lead		6.1	0.98		mg/kg	SW846 6010C
Magnesium		6050	490		mg/kg	SW846 6010C
Manganese		482	1.5		mg/kg	SW846 6010C
Nickel		20.8	3.9		mg/kg	SW846 6010C
Potassium		1180	490		mg/kg	SW846 6010C
Vanadium		17.4	0.98		mg/kg	SW846 6010C
Zinc		46.3	2.0		mg/kg	SW846 6010C
Corrosivity as pH		11.6				SW846 CHAP7
Ignitability (Flashpoint)		> 230			Deg. F	SW846 1020
MC25720-9	**FWR-STEW-1.0-102813**					
Aroclor 1254		0.290	0.026		mg/kg	SW846 8082
Aroclor 1260 [a]		0.0645	0.026		mg/kg	SW846 8082
Aluminum		13200	19		mg/kg	SW846 6010C
Arsenic		5.4	0.94		mg/kg	SW846 6010C

Summary of Hits

Job Number: MC25720
Account: WSP Environmental & Energy
Project: Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY
Collected: 10/28/13

Lab Sample ID / Client Sample ID / Analyte	Result/ Qual	RL	MDL	Units	Method
Barium	146	4.7		mg/kg	SW846 6010C
Beryllium	0.46	0.38		mg/kg	SW846 6010C
Calcium	87300	4700		mg/kg	SW846 6010C
Chromium	15.2	0.94		mg/kg	SW846 6010C
Cobalt	8.2	4.7		mg/kg	SW846 6010C
Copper	15.8	2.4		mg/kg	SW846 6010C
Iron	20400	9.4		mg/kg	SW846 6010C
Lead	6.3	0.94		mg/kg	SW846 6010C
Magnesium	6710	470		mg/kg	SW846 6010C
Manganese	525	1.4		mg/kg	SW846 6010C
Nickel	20.5	3.8		mg/kg	SW846 6010C
Potassium	1310	470		mg/kg	SW846 6010C
Vanadium	17.8	0.94		mg/kg	SW846 6010C
Zinc	43.3	1.9		mg/kg	SW846 6010C
Corrosivity as pH	11.2				SW846 CHAP7
Ignitability (Flashpoint)	> 230			Deg. F	SW846 1020
MC25720-10 FWR-STNW-1.0-102813					
Aluminum	15600	20		mg/kg	SW846 6010C
Arsenic	4.6	0.99		mg/kg	SW846 6010C
Barium	63.8	4.9		mg/kg	SW846 6010C
Beryllium	0.53	0.40		mg/kg	SW846 6010C
Calcium	130000	4900		mg/kg	SW846 6010C
Chromium	16.5	0.99		mg/kg	SW846 6010C
Cobalt	6.7	4.9		mg/kg	SW846 6010C
Copper	15.7	2.5		mg/kg	SW846 6010C
Iron	19200	9.9		mg/kg	SW846 6010C
Lead	8.8	0.99		mg/kg	SW846 6010C
Magnesium	11400	490		mg/kg	SW846 6010C
Manganese	450	1.5		mg/kg	SW846 6010C
Nickel	19.0	4.0		mg/kg	SW846 6010C
Potassium	1920	490		mg/kg	SW846 6010C
Sodium	506	490		mg/kg	SW846 6010C
Vanadium	17.4	0.99		mg/kg	SW846 6010C
Zinc	44.8	2.0		mg/kg	SW846 6010C
Corrosivity as pH	12.1				SW846 CHAP7
Ignitability (Flashpoint)	> 230			Deg. F	SW846 1020

(a) Estimated value due to the presence of other Arochlor pattern.

New England ACCUTEST LABORATORIES

4

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	FWR-NTWW-1.0-102813		
Lab Sample ID:	MC25720-1	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8260B	**Percent Solids:**	93.0
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G132771.D	1	10/31/13	JM	n/a	n/a	MSG5142
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	9.85 g	10.0 ml	100 ul
Run #2			

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	0.58	mg/kg	
71-43-2	Benzene	ND	0.029	mg/kg	
75-27-4	Bromodichloromethane	ND	0.12	mg/kg	
75-25-2	Bromoform	ND	0.12	mg/kg	
74-83-9	Bromomethane	ND	0.12	mg/kg	
78-93-3	2-Butanone (MEK)	ND	0.29	mg/kg	
75-15-0	Carbon disulfide	ND	0.29	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.12	mg/kg	
108-90-7	Chlorobenzene	ND	0.12	mg/kg	
75-00-3	Chloroethane	ND	0.29	mg/kg	
67-66-3	Chloroform	ND	0.12	mg/kg	
74-87-3	Chloromethane	ND	0.29	mg/kg	
124-48-1	Dibromochloromethane	ND	0.12	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.12	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.12	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.12	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.12	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.12	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.12	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.12	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.12	mg/kg	
100-41-4	Ethylbenzene	ND	0.12	mg/kg	
591-78-6	2-Hexanone	ND	0.29	mg/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	0.29	mg/kg	
75-09-2	Methylene chloride	ND	0.12	mg/kg	
100-42-5	Styrene	ND	0.29	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.12	mg/kg	
127-18-4	Tetrachloroethene	ND	0.12	mg/kg	
108-88-3	Toluene	ND	0.29	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.12	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.12	mg/kg	
79-01-6	Trichloroethene	ND	0.12	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-NTWW-1.0-102813		
Lab Sample ID:	MC25720-1	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8260B	**Percent Solids:**	93.0
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	0.12	mg/kg	
1330-20-7	Xylene (total)	ND	0.12	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	127%		70-130%
2037-26-5	Toluene-D8	117%		70-130%
460-00-4	4-Bromofluorobenzene	98%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-NTWW-1.0-102813		
Lab Sample ID:	MC25720-1	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	93.0
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R34549.D	1	10/31/13	WK	10/30/13	OP35493	MSR1259
Run #2							

	Initial Weight	Final Volume
Run #1	20.6 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	260	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	520	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	520	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	520	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1000	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	520	ug/kg	
95-48-7	2-Methylphenol	ND	520	ug/kg	
	3&4-Methylphenol	ND	520	ug/kg	
88-75-5	2-Nitrophenol	ND	520	ug/kg	
100-02-7	4-Nitrophenol	ND	1000	ug/kg	
87-86-5	Pentachlorophenol	ND	520	ug/kg	
108-95-2	Phenol	ND	260	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	520	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	520	ug/kg	
83-32-9	Acenaphthene	ND	100	ug/kg	
208-96-8	Acenaphthylene	ND	100	ug/kg	
120-12-7	Anthracene	ND	100	ug/kg	
56-55-3	Benzo(a)anthracene	ND	100	ug/kg	
50-32-8	Benzo(a)pyrene	ND	100	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	100	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	100	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	100	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	260	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	260	ug/kg	
91-58-7	2-Chloronaphthalene	ND	260	ug/kg	
106-47-8	4-Chloroaniline	ND	520	ug/kg	
86-74-8	Carbazole	ND	100	ug/kg	
218-01-9	Chrysene	ND	100	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	260	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	260	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	260	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	260	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-NTWW-1.0-102813		
Lab Sample ID:	MC25720-1	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	93.0
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	260	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	260	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	260	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	520	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	520	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	260	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	100	ug/kg	
132-64-9	Dibenzofuran	ND	100	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	260	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	260	ug/kg	
84-66-2	Diethyl phthalate	ND	260	ug/kg	
131-11-3	Dimethyl phthalate	ND	260	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	260	ug/kg	
206-44-0	Fluoranthene	ND	100	ug/kg	
86-73-7	Fluorene	ND	100	ug/kg	
118-74-1	Hexachlorobenzene	ND	260	ug/kg	
87-68-3	Hexachlorobutadiene	ND	260	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	520	ug/kg	
67-72-1	Hexachloroethane	ND	260	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	100	ug/kg	
78-59-1	Isophorone	ND	260	ug/kg	
91-57-6	2-Methylnaphthalene	ND	100	ug/kg	
88-74-4	2-Nitroaniline	ND	520	ug/kg	
99-09-2	3-Nitroaniline	ND	520	ug/kg	
100-01-6	4-Nitroaniline	ND	520	ug/kg	
91-20-3	Naphthalene	ND	100	ug/kg	
98-95-3	Nitrobenzene	ND	260	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	260	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	260	ug/kg	
85-01-8	Phenanthrene	ND	100	ug/kg	
129-00-0	Pyrene	ND	100	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	260	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	7% [a]		30-130%
4165-62-2	Phenol-d5	33%		30-130%
118-79-6	2,4,6-Tribromophenol	0% [a]		30-130%
4165-60-0	Nitrobenzene-d5	85%		30-130%
321-60-8	2-Fluorobiphenyl	89%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-NTWW-1.0-102813		
Lab Sample ID:	MC25720-1	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	93.0
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	91%		30-130%

(a) Outside control limits due to matrix interference(concrete). Confirmed by reanalysis.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-NTWW-1.0-102813		
Lab Sample ID:	MC25720-1	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8081 SW846 3546	**Percent Solids:**	93.0
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB51997.D	1	11/01/13	CZ	10/30/13	OP35496	GBB3059
Run #2							

	Initial Weight	Final Volume
Run #1	20.3 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.0053	mg/kg	
319-84-6	alpha-BHC	ND	0.0053	mg/kg	
319-85-7	beta-BHC	ND	0.0053	mg/kg	
319-86-8	delta-BHC	ND	0.0053	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.0053	mg/kg	
5103-71-9	alpha-Chlordane	ND	0.0053	mg/kg	
5103-74-2	gamma-Chlordane	ND	0.0053	mg/kg	
60-57-1	Dieldrin	ND	0.0053	mg/kg	
72-54-8	4,4'-DDD	ND	0.0053	mg/kg	
72-55-9	4,4'-DDE	ND	0.0053	mg/kg	
50-29-3	4,4'-DDT	ND	0.0053	mg/kg	
72-20-8	Endrin	ND	0.0053	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.0053	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.0053	mg/kg	
959-98-8	Endosulfan-I	ND	0.0053	mg/kg	
33213-65-9	Endosulfan-II	ND	0.0053	mg/kg	
76-44-8	Heptachlor	ND	0.0053	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.0053	mg/kg	
72-43-5	Methoxychlor	ND	0.0053	mg/kg	
53494-70-5	Endrin ketone	ND	0.0053	mg/kg	
8001-35-2	Toxaphene	ND	0.053	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	73%		30-150%
877-09-8	Tetrachloro-m-xylene	76%		30-150%
2051-24-3	Decachlorobiphenyl	80%		30-150%
2051-24-3	Decachlorobiphenyl	79%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-NTWW-1.0-102813		
Lab Sample ID:	MC25720-1	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8082 SW846 3546	**Percent Solids:**	93.0
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK31434.D	1	11/01/13	NK	10/30/13	OP35495	GBK1039
Run #2							

	Initial Weight	Final Volume
Run #1	20.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.027	mg/kg	
11104-28-2	Aroclor 1221	ND	0.027	mg/kg	
11141-16-5	Aroclor 1232	ND	0.027	mg/kg	
53469-21-9	Aroclor 1242	ND	0.027	mg/kg	
12672-29-6	Aroclor 1248	ND	0.027	mg/kg	
11097-69-1	Aroclor 1254	ND	0.027	mg/kg	
11096-82-5	Aroclor 1260	ND	0.027	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	92%		30-150%
877-09-8	Tetrachloro-m-xylene	87%		30-150%
2051-24-3	Decachlorobiphenyl	102%		30-150%
2051-24-3	Decachlorobiphenyl	107%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FWR-NTWW-1.0-102813
Lab Sample ID: MC25720-1
Matrix: SO - Solid
Date Sampled: 10/28/13
Date Received: 10/29/13
Percent Solids: 93.0
Project: Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	12800	21	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Antimony	< 1.0	1.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Arsenic	4.7	1.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Barium	149	5.2	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Beryllium	0.44	0.41	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Cadmium	< 0.41	0.41	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Calcium	69800	5200	mg/kg	10	10/30/13	11/01/13	EAL	SW846 6010C [3]	SW846 3050B [5]
Chromium	14.2	1.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Cobalt	8.1	5.2	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Copper	18.2	2.6	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Iron	19200	10	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Lead	5.9	1.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Magnesium	5770	520	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Manganese	501	1.6	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Mercury	< 0.035	0.035	mg/kg	1	10/30/13	10/31/13	SA	SW846 7471B [1]	SW846 7471B [4]
Nickel	18.9	4.1	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Potassium	1310	520	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Selenium	< 1.0	1.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Silver	< 0.52	0.52	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Sodium	< 520	520	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Thallium	< 1.0	1.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Vanadium	17.3	1.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Zinc	46.4	2.1	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]

(1) Instrument QC Batch: MA16311
(2) Instrument QC Batch: MA16318
(3) Instrument QC Batch: MA16328
(4) Prep QC Batch: MP21923
(5) Prep QC Batch: MP21927

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FWR-NTWW-1.0-102813		
Lab Sample ID:	MC25720-1	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
		Percent Solids:	93.0
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Corrosivity as pH	11.7			1	10/30/13	MA	SW846 CHAP7
Cyanide Reactivity	< 1.6	1.6	mg/kg	1	10/31/13 13:20	BF	SW846 CHAP7
Ignitability (Flashpoint)	> 230		Deg. F	1	10/31/13	BF	SW846 1020
Solids, Percent	93		%	1	10/30/13	HS	SM21 2540 B MOD.
Sulfide Reactivity	< 54	54	mg/kg	1	10/31/13	BF	SW846 CHAP7

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FWR-NTSW-1.0-102813		
Lab Sample ID:	MC25720-2	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8260B	**Percent Solids:**	95.3
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G132735.D	1	10/30/13	JM	n/a	n/a	MSG5141
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	10.5 g	10.0 ml	100 ul
Run #2			

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	0.52	mg/kg	
71-43-2	Benzene	ND	0.026	mg/kg	
75-27-4	Bromodichloromethane	ND	0.10	mg/kg	
75-25-2	Bromoform	ND	0.10	mg/kg	
74-83-9	Bromomethane	ND	0.10	mg/kg	
78-93-3	2-Butanone (MEK)	ND	0.26	mg/kg	
75-15-0	Carbon disulfide	ND	0.26	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.10	mg/kg	
108-90-7	Chlorobenzene	ND	0.10	mg/kg	
75-00-3	Chloroethane	ND	0.26	mg/kg	
67-66-3	Chloroform	ND	0.10	mg/kg	
74-87-3	Chloromethane	ND	0.26	mg/kg	
124-48-1	Dibromochloromethane	ND	0.10	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.10	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.10	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.10	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.10	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.10	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.10	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.10	mg/kg	
100-41-4	Ethylbenzene	ND	0.10	mg/kg	
591-78-6	2-Hexanone	ND	0.26	mg/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	0.26	mg/kg	
75-09-2	Methylene chloride	ND	0.10	mg/kg	
100-42-5	Styrene	ND	0.26	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	mg/kg	
127-18-4	Tetrachloroethene	ND	0.10	mg/kg	
108-88-3	Toluene	ND	0.26	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.10	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.10	mg/kg	
79-01-6	Trichloroethene	ND	0.10	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-NTSW-1.0-102813		
Lab Sample ID:	MC25720-2	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8260B	**Percent Solids:**	95.3
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	0.10	mg/kg	
1330-20-7	Xylene (total)	ND	0.10	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		70-130%
2037-26-5	Toluene-D8	115%		70-130%
460-00-4	4-Bromofluorobenzene	96%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-NTSW-1.0-102813		
Lab Sample ID:	MC25720-2	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	95.3
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R34550.D	1	10/31/13	WK	10/30/13	OP35493	MSR1259
Run #2							

	Initial Weight	Final Volume
Run #1	20.7 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	250	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	510	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	510	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	510	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1000	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	510	ug/kg	
95-48-7	2-Methylphenol	ND	510	ug/kg	
	3&4-Methylphenol	ND	510	ug/kg	
88-75-5	2-Nitrophenol	ND	510	ug/kg	
100-02-7	4-Nitrophenol	ND	1000	ug/kg	
87-86-5	Pentachlorophenol	ND	510	ug/kg	
108-95-2	Phenol	ND	250	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	510	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	510	ug/kg	
83-32-9	Acenaphthene	ND	100	ug/kg	
208-96-8	Acenaphthylene	ND	100	ug/kg	
120-12-7	Anthracene	ND	100	ug/kg	
56-55-3	Benzo(a)anthracene	ND	100	ug/kg	
50-32-8	Benzo(a)pyrene	ND	100	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	100	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	100	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	100	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	250	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	250	ug/kg	
91-58-7	2-Chloronaphthalene	ND	250	ug/kg	
106-47-8	4-Chloroaniline	ND	510	ug/kg	
86-74-8	Carbazole	ND	100	ug/kg	
218-01-9	Chrysene	ND	100	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	250	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	250	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	250	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	250	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-NTSW-1.0-102813		
Lab Sample ID:	MC25720-2	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	95.3
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	250	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	250	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	250	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	510	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	510	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	250	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	100	ug/kg	
132-64-9	Dibenzofuran	ND	100	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	250	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	250	ug/kg	
84-66-2	Diethyl phthalate	ND	250	ug/kg	
131-11-3	Dimethyl phthalate	ND	250	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	250	ug/kg	
206-44-0	Fluoranthene	ND	100	ug/kg	
86-73-7	Fluorene	ND	100	ug/kg	
118-74-1	Hexachlorobenzene	ND	250	ug/kg	
87-68-3	Hexachlorobutadiene	ND	250	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	510	ug/kg	
67-72-1	Hexachloroethane	ND	250	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	100	ug/kg	
78-59-1	Isophorone	ND	250	ug/kg	
91-57-6	2-Methylnaphthalene	ND	100	ug/kg	
88-74-4	2-Nitroaniline	ND	510	ug/kg	
99-09-2	3-Nitroaniline	ND	510	ug/kg	
100-01-6	4-Nitroaniline	ND	510	ug/kg	
91-20-3	Naphthalene	ND	100	ug/kg	
98-95-3	Nitrobenzene	ND	250	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	250	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	250	ug/kg	
85-01-8	Phenanthrene	ND	100	ug/kg	
129-00-0	Pyrene	ND	100	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	250	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	0% [a]		30-130%
4165-62-2	Phenol-d5	5% [a]		30-130%
118-79-6	2,4,6-Tribromophenol	0% [a]		30-130%
4165-60-0	Nitrobenzene-d5	79%		30-130%
321-60-8	2-Fluorobiphenyl	83%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-NTSW-1.0-102813		
Lab Sample ID:	MC25720-2	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	95.3
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	87%		30-130%

(a) Outside control limits due to matrix interference(concrete). Confirmed by reanalysis.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FWR-NTSW-1.0-102813
Lab Sample ID: MC25720-2
Matrix: SO - Solid
Method: SW846 8081 SW846 3546
Project: Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY

Date Sampled: 10/28/13
Date Received: 10/29/13
Percent Solids: 95.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB51998.D	1	11/01/13	CZ	10/30/13	OP35496	GBB3059
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.0052	mg/kg	
319-84-6	alpha-BHC	ND	0.0052	mg/kg	
319-85-7	beta-BHC	ND	0.0052	mg/kg	
319-86-8	delta-BHC	ND	0.0052	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.0052	mg/kg	
5103-71-9	alpha-Chlordane	ND	0.0052	mg/kg	
5103-74-2	gamma-Chlordane	ND	0.0052	mg/kg	
60-57-1	Dieldrin	ND	0.0052	mg/kg	
72-54-8	4,4'-DDD	ND	0.0052	mg/kg	
72-55-9	4,4'-DDE	ND	0.0052	mg/kg	
50-29-3	4,4'-DDT	ND	0.0052	mg/kg	
72-20-8	Endrin	ND	0.0052	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.0052	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.0052	mg/kg	
959-98-8	Endosulfan-I	ND	0.0052	mg/kg	
33213-65-9	Endosulfan-II	ND	0.0052	mg/kg	
76-44-8	Heptachlor	ND	0.0052	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.0052	mg/kg	
72-43-5	Methoxychlor	ND	0.0052	mg/kg	
53494-70-5	Endrin ketone	ND	0.0052	mg/kg	
8001-35-2	Toxaphene	ND	0.052	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	62%		30-150%
877-09-8	Tetrachloro-m-xylene	65%		30-150%
2051-24-3	Decachlorobiphenyl	65%		30-150%
2051-24-3	Decachlorobiphenyl	64%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-NTSW-1.0-102813		
Lab Sample ID:	MC25720-2	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8082 SW846 3546	**Percent Solids:**	95.3
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK31435.D	1	11/01/13	NK	10/30/13	OP35495	GBK1039
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.026	mg/kg	
11104-28-2	Aroclor 1221	ND	0.026	mg/kg	
11141-16-5	Aroclor 1232	ND	0.026	mg/kg	
53469-21-9	Aroclor 1242	ND	0.026	mg/kg	
12672-29-6	Aroclor 1248	ND	0.026	mg/kg	
11097-69-1	Aroclor 1254	ND	0.026	mg/kg	
11096-82-5	Aroclor 1260	ND	0.026	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	98%		30-150%
877-09-8	Tetrachloro-m-xylene	84%		30-150%
2051-24-3	Decachlorobiphenyl	91%		30-150%
2051-24-3	Decachlorobiphenyl	95%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FWR-NTSW-1.0-102813
Lab Sample ID: MC25720-2
Matrix: SO - Solid
Project: Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY

Date Sampled: 10/28/13
Date Received: 10/29/13
Percent Solids: 95.3

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	11800	20	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Antimony	< 1.0	1.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Arsenic	3.9	1.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Barium	50.3	5.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Beryllium	0.40	0.40	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Cadmium	< 0.40	0.40	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Calcium	95000	5000	mg/kg	10	10/30/13	11/01/13	EAL	SW846 6010C [3]	SW846 3050B [5]
Chromium	13.3	1.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Cobalt	5.5	5.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Copper	16.2	2.5	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Iron	15900	10	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Lead	6.2	1.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Magnesium	9160	500	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Manganese	457	1.5	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Mercury	< 0.033	0.033	mg/kg	1	10/30/13	10/31/13	SA	SW846 7471B [1]	SW846 7471B [4]
Nickel	15.2	4.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Potassium	1800	500	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Selenium	< 1.0	1.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Silver	< 0.50	0.50	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Sodium	548	500	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Thallium	< 1.0	1.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Vanadium	13.8	1.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Zinc	42.5	2.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]

(1) Instrument QC Batch: MA16311
(2) Instrument QC Batch: MA16318
(3) Instrument QC Batch: MA16328
(4) Prep QC Batch: MP21923
(5) Prep QC Batch: MP21927

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FWR-NTSW-1.0-102813		
Lab Sample ID:	MC25720-2	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
		Percent Solids:	95.3
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Corrosivity as pH	12.1			1	10/30/13	MA	SW846 CHAP7
Cyanide Reactivity	< 1.6	1.6	mg/kg	1	10/31/13 13:40	BF	SW846 CHAP7
Ignitability (Flashpoint)	> 230		Deg. F	1	10/31/13	BF	SW846 1020
Solids, Percent	95.3		%	1	10/30/13	HS	SM21 2540 B MOD.
Sulfide Reactivity	< 52	52	mg/kg	1	10/31/13	BF	SW846 CHAP7

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FWR-NTEW-1.0-102813		
Lab Sample ID:	MC25720-3	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8260B	**Percent Solids:**	91.3
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G132736.D	1	10/30/13	JM	n/a	n/a	MSG5141
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	10.1 g	10.0 ml	100 ul
Run #2			

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	0.59	mg/kg	
71-43-2	Benzene	ND	0.029	mg/kg	
75-27-4	Bromodichloromethane	ND	0.12	mg/kg	
75-25-2	Bromoform	ND	0.12	mg/kg	
74-83-9	Bromomethane	ND	0.12	mg/kg	
78-93-3	2-Butanone (MEK)	ND	0.29	mg/kg	
75-15-0	Carbon disulfide	ND	0.29	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.12	mg/kg	
108-90-7	Chlorobenzene	ND	0.12	mg/kg	
75-00-3	Chloroethane	ND	0.29	mg/kg	
67-66-3	Chloroform	ND	0.12	mg/kg	
74-87-3	Chloromethane	ND	0.29	mg/kg	
124-48-1	Dibromochloromethane	ND	0.12	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.12	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.12	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.12	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.12	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.12	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.12	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.12	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.12	mg/kg	
100-41-4	Ethylbenzene	ND	0.12	mg/kg	
591-78-6	2-Hexanone	ND	0.29	mg/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	0.29	mg/kg	
75-09-2	Methylene chloride	ND	0.12	mg/kg	
100-42-5	Styrene	ND	0.29	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.12	mg/kg	
127-18-4	Tetrachloroethene	ND	0.12	mg/kg	
108-88-3	Toluene	ND	0.29	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.12	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.12	mg/kg	
79-01-6	Trichloroethene	ND	0.12	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-NTEW-1.0-102813		
Lab Sample ID:	MC25720-3	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8260B	**Percent Solids:**	91.3
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	0.12	mg/kg	
1330-20-7	Xylene (total)	ND	0.12	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	124%		70-130%
2037-26-5	Toluene-D8	114%		70-130%
460-00-4	4-Bromofluorobenzene	98%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-NTEW-1.0-102813		
Lab Sample ID:	MC25720-3	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	91.3
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R34548.D	5	10/31/13	WK	10/30/13	OP35493	MSR1259
Run #2							

	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	1300	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	2700	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	2700	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	2700	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	5400	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	2700	ug/kg	
95-48-7	2-Methylphenol	ND	2700	ug/kg	
	3&4-Methylphenol	ND	2700	ug/kg	
88-75-5	2-Nitrophenol	ND	2700	ug/kg	
100-02-7	4-Nitrophenol	ND	5400	ug/kg	
87-86-5	Pentachlorophenol	ND	2700	ug/kg	
108-95-2	Phenol	ND	1300	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	2700	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	2700	ug/kg	
83-32-9	Acenaphthene	ND	540	ug/kg	
208-96-8	Acenaphthylene	ND	540	ug/kg	
120-12-7	Anthracene	ND	540	ug/kg	
56-55-3	Benzo(a)anthracene	ND	540	ug/kg	
50-32-8	Benzo(a)pyrene	ND	540	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	540	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	540	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	540	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1300	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1300	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1300	ug/kg	
106-47-8	4-Chloroaniline	ND	2700	ug/kg	
86-74-8	Carbazole	ND	540	ug/kg	
218-01-9	Chrysene	ND	540	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1300	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1300	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1300	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	1300	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-NTEW-1.0-102813		
Lab Sample ID:	MC25720-3	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	91.3
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	1300	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1300	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1300	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	2700	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	2700	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1300	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	540	ug/kg	
132-64-9	Dibenzofuran	ND	540	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1300	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1300	ug/kg	
84-66-2	Diethyl phthalate	ND	1300	ug/kg	
131-11-3	Dimethyl phthalate	ND	1300	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1300	ug/kg	
206-44-0	Fluoranthene	ND	540	ug/kg	
86-73-7	Fluorene	ND	540	ug/kg	
118-74-1	Hexachlorobenzene	ND	1300	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1300	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	2700	ug/kg	
67-72-1	Hexachloroethane	ND	1300	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	540	ug/kg	
78-59-1	Isophorone	ND	1300	ug/kg	
91-57-6	2-Methylnaphthalene	ND	540	ug/kg	
88-74-4	2-Nitroaniline	ND	2700	ug/kg	
99-09-2	3-Nitroaniline	ND	2700	ug/kg	
100-01-6	4-Nitroaniline	ND	2700	ug/kg	
91-20-3	Naphthalene	ND	540	ug/kg	
98-95-3	Nitrobenzene	ND	1300	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1300	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1300	ug/kg	
85-01-8	Phenanthrene	ND	540	ug/kg	
129-00-0	Pyrene	ND	540	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1300	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	15% [a]		30-130%
4165-62-2	Phenol-d5	43%		30-130%
118-79-6	2,4,6-Tribromophenol	4% [a]		30-130%
4165-60-0	Nitrobenzene-d5	71%		30-130%
321-60-8	2-Fluorobiphenyl	78%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-NTEW-1.0-102813		
Lab Sample ID:	MC25720-3	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	91.3
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	84%		30-130%

(a) Outside control limits due to matrix interference(concrete). Confirmed by reanalysis.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FWR-NTEW-1.0-102813
Lab Sample ID: MC25720-3 **Date Sampled:** 10/28/13
Matrix: SO - Solid **Date Received:** 10/29/13
Method: SW846 8081 SW846 3546 **Percent Solids:** 91.3
Project: Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB51999.D	1	11/01/13	CZ	10/30/13	OP35496	GBB3059
Run #2							

	Initial Weight	Final Volume
Run #1	20.4 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.0054	mg/kg	
319-84-6	alpha-BHC	ND	0.0054	mg/kg	
319-85-7	beta-BHC	ND	0.0054	mg/kg	
319-86-8	delta-BHC	ND	0.0054	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.0054	mg/kg	
5103-71-9	alpha-Chlordane	ND	0.0054	mg/kg	
5103-74-2	gamma-Chlordane	ND	0.0054	mg/kg	
60-57-1	Dieldrin	ND	0.0054	mg/kg	
72-54-8	4,4'-DDD	ND	0.0054	mg/kg	
72-55-9	4,4'-DDE	ND	0.0054	mg/kg	
50-29-3	4,4'-DDT	ND	0.0054	mg/kg	
72-20-8	Endrin	ND	0.0054	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.0054	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.0054	mg/kg	
959-98-8	Endosulfan-I	ND	0.0054	mg/kg	
33213-65-9	Endosulfan-II	ND	0.0054	mg/kg	
76-44-8	Heptachlor	ND	0.0054	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.0054	mg/kg	
72-43-5	Methoxychlor	ND	0.0054	mg/kg	
53494-70-5	Endrin ketone	ND	0.0054	mg/kg	
8001-35-2	Toxaphene	ND	0.054	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	63%		30-150%
877-09-8	Tetrachloro-m-xylene	65%		30-150%
2051-24-3	Decachlorobiphenyl	66%		30-150%
2051-24-3	Decachlorobiphenyl	62%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-NTEW-1.0-102813		
Lab Sample ID:	MC25720-3	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8082 SW846 3546	**Percent Solids:**	91.3
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK31436.D	1	11/01/13	NK	10/30/13	OP35495	GBK1039
Run #2							

	Initial Weight	Final Volume
Run #1	20.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.027	mg/kg	
11104-28-2	Aroclor 1221	ND	0.027	mg/kg	
11141-16-5	Aroclor 1232	ND	0.027	mg/kg	
53469-21-9	Aroclor 1242	ND	0.027	mg/kg	
12672-29-6	Aroclor 1248	ND	0.027	mg/kg	
11097-69-1	Aroclor 1254	0.0413	0.027	mg/kg	
11096-82-5	Aroclor 1260	ND	0.027	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	77%		30-150%
877-09-8	Tetrachloro-m-xylene	78%		30-150%
2051-24-3	Decachlorobiphenyl	74%		30-150%
2051-24-3	Decachlorobiphenyl	81%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FWR-NTEW-1.0-102813
Lab Sample ID: MC25720-3
Matrix: SO - Solid
Project: Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY

Date Sampled: 10/28/13
Date Received: 10/29/13
Percent Solids: 91.3

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	10900	22	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Antimony	< 1.1	1.1	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Arsenic	6.3	1.1	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Barium	123	5.4	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Beryllium	0.43	0.43	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Cadmium	< 0.43	0.43	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Calcium	45600	540	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Chromium	12.5	1.1	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Cobalt	9.2	5.4	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Copper	29.8	2.7	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Iron	18600	11	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Lead	19.2	1.1	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Magnesium	6650	540	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Manganese	585	1.6	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Mercury	0.048	0.035	mg/kg	1	10/30/13	10/31/13	SA	SW846 7471B [1]	SW846 7471B [3]
Nickel	19.8	4.3	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Potassium	1140	540	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Selenium	< 1.1	1.1	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Silver	< 0.54	0.54	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Sodium	798	540	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Thallium	< 1.1	1.1	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Vanadium	14.3	1.1	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Zinc	66.4	2.2	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA16311
(2) Instrument QC Batch: MA16318
(3) Prep QC Batch: MP21923
(4) Prep QC Batch: MP21927

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FWR-NTEW-1.0-102813		
Lab Sample ID:	MC25720-3	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
		Percent Solids:	91.3
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Corrosivity as pH	11.3			1	10/30/13	MA	SW846 CHAP7
Cyanide Reactivity	< 1.6	1.6	mg/kg	1	10/31/13 13:40	BF	SW846 CHAP7
Ignitability (Flashpoint)	> 230		Deg. F	1	10/31/13	BF	SW846 1020
Solids, Percent	91.3		%	1	10/30/13	HS	SM21 2540 B MOD.
Sulfide Reactivity	< 55	55	mg/kg	1	10/31/13	BF	SW846 CHAP7

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FWR-STWW-1.5-102813		
Lab Sample ID:	MC25720-4	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8260B	**Percent Solids:**	94.2
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G132737.D	1	10/30/13	JM	n/a	n/a	MSG5141
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	11.0 g	10.0 ml	100 ul
Run #2			

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	0.51	mg/kg	
71-43-2	Benzene	ND	0.026	mg/kg	
75-27-4	Bromodichloromethane	ND	0.10	mg/kg	
75-25-2	Bromoform	ND	0.10	mg/kg	
74-83-9	Bromomethane	ND	0.10	mg/kg	
78-93-3	2-Butanone (MEK)	ND	0.26	mg/kg	
75-15-0	Carbon disulfide	ND	0.26	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.10	mg/kg	
108-90-7	Chlorobenzene	ND	0.10	mg/kg	
75-00-3	Chloroethane	ND	0.26	mg/kg	
67-66-3	Chloroform	ND	0.10	mg/kg	
74-87-3	Chloromethane	ND	0.26	mg/kg	
124-48-1	Dibromochloromethane	ND	0.10	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.10	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.10	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.10	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.10	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.10	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.10	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.10	mg/kg	
100-41-4	Ethylbenzene	ND	0.10	mg/kg	
591-78-6	2-Hexanone	ND	0.26	mg/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	0.26	mg/kg	
75-09-2	Methylene chloride	ND	0.10	mg/kg	
100-42-5	Styrene	ND	0.26	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	mg/kg	
127-18-4	Tetrachloroethene	ND	0.10	mg/kg	
108-88-3	Toluene	ND	0.26	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.10	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.10	mg/kg	
79-01-6	Trichloroethene	ND	0.10	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-STWW-1.5-102813		
Lab Sample ID:	MC25720-4	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8260B	**Percent Solids:**	94.2
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	0.10	mg/kg	
1330-20-7	Xylene (total)	ND	0.10	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		70-130%
2037-26-5	Toluene-D8	115%		70-130%
460-00-4	4-Bromofluorobenzene	96%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-STWW-1.5-102813		
Lab Sample ID:	MC25720-4	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	94.2
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R34551.D	1	10/31/13	WK	10/30/13	OP35493	MSR1259
Run #2							

	Initial Weight	Final Volume
Run #1	20.5 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	260	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	520	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	520	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	520	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1000	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	520	ug/kg	
95-48-7	2-Methylphenol	ND	520	ug/kg	
	3&4-Methylphenol	ND	520	ug/kg	
88-75-5	2-Nitrophenol	ND	520	ug/kg	
100-02-7	4-Nitrophenol	ND	1000	ug/kg	
87-86-5	Pentachlorophenol	ND	520	ug/kg	
108-95-2	Phenol	ND	260	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	520	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	520	ug/kg	
83-32-9	Acenaphthene	ND	100	ug/kg	
208-96-8	Acenaphthylene	ND	100	ug/kg	
120-12-7	Anthracene	ND	100	ug/kg	
56-55-3	Benzo(a)anthracene	ND	100	ug/kg	
50-32-8	Benzo(a)pyrene	ND	100	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	100	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	100	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	100	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	260	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	260	ug/kg	
91-58-7	2-Chloronaphthalene	ND	260	ug/kg	
106-47-8	4-Chloroaniline	ND	520	ug/kg	
86-74-8	Carbazole	ND	100	ug/kg	
218-01-9	Chrysene	ND	100	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	260	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	260	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	260	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	260	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-STWW-1.5-102813		
Lab Sample ID:	MC25720-4	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	94.2
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	260	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	260	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	260	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	520	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	520	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	260	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	100	ug/kg	
132-64-9	Dibenzofuran	ND	100	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	260	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	260	ug/kg	
84-66-2	Diethyl phthalate	ND	260	ug/kg	
131-11-3	Dimethyl phthalate	ND	260	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	260	ug/kg	
206-44-0	Fluoranthene	ND	100	ug/kg	
86-73-7	Fluorene	ND	100	ug/kg	
118-74-1	Hexachlorobenzene	ND	260	ug/kg	
87-68-3	Hexachlorobutadiene	ND	260	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	520	ug/kg	
67-72-1	Hexachloroethane	ND	260	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	100	ug/kg	
78-59-1	Isophorone	ND	260	ug/kg	
91-57-6	2-Methylnaphthalene	ND	100	ug/kg	
88-74-4	2-Nitroaniline	ND	520	ug/kg	
99-09-2	3-Nitroaniline	ND	520	ug/kg	
100-01-6	4-Nitroaniline	ND	520	ug/kg	
91-20-3	Naphthalene	ND	100	ug/kg	
98-95-3	Nitrobenzene	ND	260	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	260	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	260	ug/kg	
85-01-8	Phenanthrene	ND	100	ug/kg	
129-00-0	Pyrene	ND	100	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	260	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	8% [a]		30-130%
4165-62-2	Phenol-d5	34%		30-130%
118-79-6	2,4,6-Tribromophenol	0% [a]		30-130%
4165-60-0	Nitrobenzene-d5	82%		30-130%
321-60-8	2-Fluorobiphenyl	83%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-STWW-1.5-102813		
Lab Sample ID:	MC25720-4	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	94.2
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	89%		30-130%

(a) Outside control limits due to matrix interference(concrete). Confirmed by reanalysis.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FWR-STWW-1.5-102813
Lab Sample ID: MC25720-4 **Date Sampled:** 10/28/13
Matrix: SO - Solid **Date Received:** 10/29/13
Method: SW846 8081 SW846 3546 **Percent Solids:** 94.2
Project: Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB52000.D	1	11/01/13	CZ	10/30/13	OP35496	GBB3059
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.0053	mg/kg	
319-84-6	alpha-BHC	ND	0.0053	mg/kg	
319-85-7	beta-BHC	ND	0.0053	mg/kg	
319-86-8	delta-BHC	ND	0.0053	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.0053	mg/kg	
5103-71-9	alpha-Chlordane	ND	0.0053	mg/kg	
5103-74-2	gamma-Chlordane	ND	0.0053	mg/kg	
60-57-1	Dieldrin	ND	0.0053	mg/kg	
72-54-8	4,4'-DDD	ND	0.0053	mg/kg	
72-55-9	4,4'-DDE	ND	0.0053	mg/kg	
50-29-3	4,4'-DDT	ND	0.0053	mg/kg	
72-20-8	Endrin	ND	0.0053	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.0053	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.0053	mg/kg	
959-98-8	Endosulfan-I	ND	0.0053	mg/kg	
33213-65-9	Endosulfan-II	ND	0.0053	mg/kg	
76-44-8	Heptachlor	ND	0.0053	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.0053	mg/kg	
72-43-5	Methoxychlor	ND	0.0053	mg/kg	
53494-70-5	Endrin ketone	ND	0.0053	mg/kg	
8001-35-2	Toxaphene	ND	0.053	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	68%		30-150%
877-09-8	Tetrachloro-m-xylene	70%		30-150%
2051-24-3	Decachlorobiphenyl	65%		30-150%
2051-24-3	Decachlorobiphenyl	64%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-STWW-1.5-102813		
Lab Sample ID:	MC25720-4	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8082 SW846 3546	**Percent Solids:**	94.2
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK31437.D	1	11/01/13	NK	10/30/13	OP35495	GBK1039
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.026	mg/kg	
11104-28-2	Aroclor 1221	ND	0.026	mg/kg	
11141-16-5	Aroclor 1232	ND	0.026	mg/kg	
53469-21-9	Aroclor 1242	ND	0.026	mg/kg	
12672-29-6	Aroclor 1248	ND	0.026	mg/kg	
11097-69-1	Aroclor 1254	ND	0.026	mg/kg	
11096-82-5	Aroclor 1260	ND	0.026	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	86%		30-150%
877-09-8	Tetrachloro-m-xylene	89%		30-150%
2051-24-3	Decachlorobiphenyl	95%		30-150%
2051-24-3	Decachlorobiphenyl	102%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FWR-STWW-1.5-102813
Lab Sample ID: MC25720-4
Matrix: SO - Solid
Date Sampled: 10/28/13
Date Received: 10/29/13
Percent Solids: 94.2
Project: Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	10800	21	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Antimony	< 1.0	1.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Arsenic	4.8	1.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Barium	109	5.2	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Beryllium	< 0.42	0.42	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Cadmium	< 0.42	0.42	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Calcium	61200	5200	mg/kg	10	10/30/13	11/01/13	EAL	SW846 6010C [3]	SW846 3050B [5]
Chromium	12.6	1.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Cobalt	7.5	5.2	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Copper	17.2	2.6	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Iron	18300	10	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Lead	5.1	1.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Magnesium	5240	520	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Manganese	427	1.6	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Mercury	< 0.034	0.034	mg/kg	1	10/30/13	10/31/13	SA	SW846 7471B [1]	SW846 7471B [4]
Nickel	18.2	4.2	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Potassium	1150	520	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Selenium	< 1.0	1.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Silver	< 0.52	0.52	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Sodium	< 520	520	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Thallium	< 1.0	1.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Vanadium	14.2	1.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Zinc	41.5	2.1	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]

(1) Instrument QC Batch: MA16311
(2) Instrument QC Batch: MA16318
(3) Instrument QC Batch: MA16328
(4) Prep QC Batch: MP21923
(5) Prep QC Batch: MP21927

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FWR-STWW-1.5-102813		
Lab Sample ID:	MC25720-4	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
		Percent Solids:	94.2
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Corrosivity as pH	11.7			1	10/30/13	MA	SW846 CHAP7
Cyanide Reactivity	< 1.5	1.5	mg/kg	1	10/31/13 13:40	BF	SW846 CHAP7
Ignitability (Flashpoint)	> 230		Deg. F	1	10/31/13	BF	SW846 1020
Solids, Percent	94.2		%	1	10/30/13	HS	SM21 2540 B MOD.
Sulfide Reactivity	< 53	53	mg/kg	1	10/31/13	BF	SW846 CHAP7

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FWR-STWW-3.0-102813		
Lab Sample ID:	MC25720-5	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8260B	**Percent Solids:**	94.3
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G132738.D	1	10/30/13	JM	n/a	n/a	MSG5141
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	9.50 g	10.0 ml	100 ul
Run #2			

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	0.59	mg/kg	
71-43-2	Benzene	ND	0.029	mg/kg	
75-27-4	Bromodichloromethane	ND	0.12	mg/kg	
75-25-2	Bromoform	ND	0.12	mg/kg	
74-83-9	Bromomethane	ND	0.12	mg/kg	
78-93-3	2-Butanone (MEK)	ND	0.29	mg/kg	
75-15-0	Carbon disulfide	ND	0.29	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.12	mg/kg	
108-90-7	Chlorobenzene	ND	0.12	mg/kg	
75-00-3	Chloroethane	ND	0.29	mg/kg	
67-66-3	Chloroform	ND	0.12	mg/kg	
74-87-3	Chloromethane	ND	0.29	mg/kg	
124-48-1	Dibromochloromethane	ND	0.12	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.12	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.12	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.12	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.12	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.12	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.12	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.12	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.12	mg/kg	
100-41-4	Ethylbenzene	ND	0.12	mg/kg	
591-78-6	2-Hexanone	ND	0.29	mg/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	0.29	mg/kg	
75-09-2	Methylene chloride	ND	0.12	mg/kg	
100-42-5	Styrene	ND	0.29	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.12	mg/kg	
127-18-4	Tetrachloroethene	ND	0.12	mg/kg	
108-88-3	Toluene	ND	0.29	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.12	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.12	mg/kg	
79-01-6	Trichloroethene	ND	0.12	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-STWW-3.0-102813		
Lab Sample ID:	MC25720-5	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8260B	**Percent Solids:**	94.3
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	0.12	mg/kg	
1330-20-7	Xylene (total)	ND	0.12	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	120%		70-130%
2037-26-5	Toluene-D8	117%		70-130%
460-00-4	4-Bromofluorobenzene	102%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-STWW-3.0-102813		
Lab Sample ID:	MC25720-5	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	94.3
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R34552.D	1	10/31/13	WK	10/30/13	OP35493	MSR1259
Run #2							

	Initial Weight	Final Volume
Run #1	20.7 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	260	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	510	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	510	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	510	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1000	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	510	ug/kg	
95-48-7	2-Methylphenol	ND	510	ug/kg	
	3&4-Methylphenol	ND	510	ug/kg	
88-75-5	2-Nitrophenol	ND	510	ug/kg	
100-02-7	4-Nitrophenol	ND	1000	ug/kg	
87-86-5	Pentachlorophenol	ND	510	ug/kg	
108-95-2	Phenol	ND	260	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	510	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	510	ug/kg	
83-32-9	Acenaphthene	ND	100	ug/kg	
208-96-8	Acenaphthylene	ND	100	ug/kg	
120-12-7	Anthracene	ND	100	ug/kg	
56-55-3	Benzo(a)anthracene	ND	100	ug/kg	
50-32-8	Benzo(a)pyrene	ND	100	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	100	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	100	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	100	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	260	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	260	ug/kg	
91-58-7	2-Chloronaphthalene	ND	260	ug/kg	
106-47-8	4-Chloroaniline	ND	510	ug/kg	
86-74-8	Carbazole	ND	100	ug/kg	
218-01-9	Chrysene	ND	100	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	260	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	260	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	260	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	260	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-STWW-3.0-102813		
Lab Sample ID:	MC25720-5	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	94.3
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	260	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	260	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	260	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	510	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	510	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	260	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	100	ug/kg	
132-64-9	Dibenzofuran	ND	100	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	260	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	260	ug/kg	
84-66-2	Diethyl phthalate	ND	260	ug/kg	
131-11-3	Dimethyl phthalate	ND	260	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	260	ug/kg	
206-44-0	Fluoranthene	ND	100	ug/kg	
86-73-7	Fluorene	ND	100	ug/kg	
118-74-1	Hexachlorobenzene	ND	260	ug/kg	
87-68-3	Hexachlorobutadiene	ND	260	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	510	ug/kg	
67-72-1	Hexachloroethane	ND	260	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	100	ug/kg	
78-59-1	Isophorone	ND	260	ug/kg	
91-57-6	2-Methylnaphthalene	ND	100	ug/kg	
88-74-4	2-Nitroaniline	ND	510	ug/kg	
99-09-2	3-Nitroaniline	ND	510	ug/kg	
100-01-6	4-Nitroaniline	ND	510	ug/kg	
91-20-3	Naphthalene	ND	100	ug/kg	
98-95-3	Nitrobenzene	ND	260	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	260	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	260	ug/kg	
85-01-8	Phenanthrene	ND	100	ug/kg	
129-00-0	Pyrene	ND	100	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	260	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	19% [a]		30-130%
4165-62-2	Phenol-d5	55%		30-130%
118-79-6	2,4,6-Tribromophenol	1% [a]		30-130%
4165-60-0	Nitrobenzene-d5	81%		30-130%
321-60-8	2-Fluorobiphenyl	86%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-STWW-3.0-102813		
Lab Sample ID:	MC25720-5	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	94.3
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	88%		30-130%

(a) Outside control limits due to matrix interference(concrete). Confirmed by reanalysis.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FWR-STWW-3.0-102813
Lab Sample ID: MC25720-5
Matrix: SO - Solid
Method: SW846 8081 SW846 3546
Project: Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY

Date Sampled: 10/28/13
Date Received: 10/29/13
Percent Solids: 94.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB52001.D	1	11/01/13	CZ	10/30/13	OP35496	GBB3059
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.0053	mg/kg	
319-84-6	alpha-BHC	ND	0.0053	mg/kg	
319-85-7	beta-BHC	ND	0.0053	mg/kg	
319-86-8	delta-BHC	ND	0.0053	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.0053	mg/kg	
5103-71-9	alpha-Chlordane	ND	0.0053	mg/kg	
5103-74-2	gamma-Chlordane	ND	0.0053	mg/kg	
60-57-1	Dieldrin	ND	0.0053	mg/kg	
72-54-8	4,4'-DDD	ND	0.0053	mg/kg	
72-55-9	4,4'-DDE	ND	0.0053	mg/kg	
50-29-3	4,4'-DDT	ND	0.0053	mg/kg	
72-20-8	Endrin	ND	0.0053	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.0053	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.0053	mg/kg	
959-98-8	Endosulfan-I	ND	0.0053	mg/kg	
33213-65-9	Endosulfan-II	ND	0.0053	mg/kg	
76-44-8	Heptachlor	ND	0.0053	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.0053	mg/kg	
72-43-5	Methoxychlor	ND	0.0053	mg/kg	
53494-70-5	Endrin ketone	ND	0.0053	mg/kg	
8001-35-2	Toxaphene	ND	0.053	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	53%		30-150%
877-09-8	Tetrachloro-m-xylene	54%		30-150%
2051-24-3	Decachlorobiphenyl	56%		30-150%
2051-24-3	Decachlorobiphenyl	56%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-STWW-3.0-102813		
Lab Sample ID:	MC25720-5	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8082 SW846 3546	**Percent Solids:**	94.3
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK31438.D	1	11/01/13	NK	10/30/13	OP35495	GBK1039
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.026	mg/kg	
11104-28-2	Aroclor 1221	ND	0.026	mg/kg	
11141-16-5	Aroclor 1232	ND	0.026	mg/kg	
53469-21-9	Aroclor 1242	ND	0.026	mg/kg	
12672-29-6	Aroclor 1248	ND	0.026	mg/kg	
11097-69-1	Aroclor 1254	ND	0.026	mg/kg	
11096-82-5	Aroclor 1260	ND	0.026	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	58%		30-150%
877-09-8	Tetrachloro-m-xylene	60%		30-150%
2051-24-3	Decachlorobiphenyl	69%		30-150%
2051-24-3	Decachlorobiphenyl	72%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FWR-STWW-3.0-102813
Lab Sample ID: MC25720-5
Matrix: SO - Solid
Project: Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY

Date Sampled: 10/28/13
Date Received: 10/29/13
Percent Solids: 94.3

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	11700	20	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Antimony	< 1.0	1.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Arsenic	4.5	1.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Barium	121	5.1	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Beryllium	< 0.41	0.41	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Cadmium	< 0.41	0.41	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Calcium	42700	510	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Chromium	14.0	1.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Cobalt	7.6	5.1	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Copper	21.1	2.5	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Iron	19800	10	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Lead	5.6	1.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Magnesium	5530	510	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Manganese	426	1.5	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Mercury	< 0.033	0.033	mg/kg	1	10/30/13	10/31/13	SA	SW846 7471B [1]	SW846 7471B [3]
Nickel	19.2	4.1	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Potassium	1460	510	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Selenium	< 1.0	1.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Silver	< 0.51	0.51	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Sodium	< 510	510	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Thallium	< 1.0	1.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Vanadium	15.6	1.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]
Zinc	43.1	2.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA16311
(2) Instrument QC Batch: MA16318
(3) Prep QC Batch: MP21923
(4) Prep QC Batch: MP21927

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FWR-STWW-3.0-102813		
Lab Sample ID:	MC25720-5	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
		Percent Solids:	94.3
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Corrosivity as pH	11.4			1	10/30/13	MA	SW846 CHAP7
Cyanide Reactivity	< 1.6	1.6	mg/kg	1	10/31/13 13:40	BF	SW846 CHAP7
Ignitability (Flashpoint)	> 230		Deg. F	1	10/31/13	BF	SW846 1020
Solids, Percent	94.3		%	1	10/30/13	HS	SM21 2540 B MOD.
Sulfide Reactivity	< 53	53	mg/kg	1	10/31/13	BF	SW846 CHAP7

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FWR-STWW-4.5-102813		
Lab Sample ID:	MC25720-6	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8260B	**Percent Solids:**	91.3
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G132739.D	1	10/30/13	JM	n/a	n/a	MSG5141
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	10.2 g	10.0 ml	100 ul
Run #2			

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	0.59	mg/kg	
71-43-2	Benzene	ND	0.029	mg/kg	
75-27-4	Bromodichloromethane	ND	0.12	mg/kg	
75-25-2	Bromoform	ND	0.12	mg/kg	
74-83-9	Bromomethane	ND	0.12	mg/kg	
78-93-3	2-Butanone (MEK)	ND	0.29	mg/kg	
75-15-0	Carbon disulfide	ND	0.29	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.12	mg/kg	
108-90-7	Chlorobenzene	ND	0.12	mg/kg	
75-00-3	Chloroethane	ND	0.29	mg/kg	
67-66-3	Chloroform	ND	0.12	mg/kg	
74-87-3	Chloromethane	ND	0.29	mg/kg	
124-48-1	Dibromochloromethane	ND	0.12	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.12	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.12	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.12	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.12	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.12	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.12	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.12	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.12	mg/kg	
100-41-4	Ethylbenzene	ND	0.12	mg/kg	
591-78-6	2-Hexanone	ND	0.29	mg/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	0.29	mg/kg	
75-09-2	Methylene chloride	ND	0.12	mg/kg	
100-42-5	Styrene	ND	0.29	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.12	mg/kg	
127-18-4	Tetrachloroethene	ND	0.12	mg/kg	
108-88-3	Toluene	ND	0.29	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.12	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.12	mg/kg	
79-01-6	Trichloroethene	ND	0.12	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-STWW-4.5-102813		
Lab Sample ID:	MC25720-6	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8260B	**Percent Solids:**	91.3
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	0.12	mg/kg	
1330-20-7	Xylene (total)	ND	0.12	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		70-130%
2037-26-5	Toluene-D8	113%		70-130%
460-00-4	4-Bromofluorobenzene	98%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-STWW-4.5-102813		
Lab Sample ID:	MC25720-6	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	91.3
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R34553.D	1	10/31/13	WK	10/30/13	OP35493	MSR1259
Run #2							

	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	270	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	540	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	540	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	540	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	540	ug/kg	
95-48-7	2-Methylphenol	ND	540	ug/kg	
	3&4-Methylphenol	ND	540	ug/kg	
88-75-5	2-Nitrophenol	ND	540	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	ug/kg	
87-86-5	Pentachlorophenol	ND	540	ug/kg	
108-95-2	Phenol	ND	270	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	540	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	540	ug/kg	
83-32-9	Acenaphthene	ND	110	ug/kg	
208-96-8	Acenaphthylene	ND	110	ug/kg	
120-12-7	Anthracene	ND	110	ug/kg	
56-55-3	Benzo(a)anthracene	ND	110	ug/kg	
50-32-8	Benzo(a)pyrene	ND	110	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	110	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	110	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	110	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	270	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	270	ug/kg	
91-58-7	2-Chloronaphthalene	ND	270	ug/kg	
106-47-8	4-Chloroaniline	ND	540	ug/kg	
86-74-8	Carbazole	ND	110	ug/kg	
218-01-9	Chrysene	ND	110	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	270	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	270	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	270	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	270	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-STWW-4.5-102813		
Lab Sample ID:	MC25720-6	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	91.3
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	270	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	270	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	270	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	540	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	540	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	270	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	110	ug/kg	
132-64-9	Dibenzofuran	ND	110	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	270	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	270	ug/kg	
84-66-2	Diethyl phthalate	ND	270	ug/kg	
131-11-3	Dimethyl phthalate	ND	270	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	270	ug/kg	
206-44-0	Fluoranthene	ND	110	ug/kg	
86-73-7	Fluorene	ND	110	ug/kg	
118-74-1	Hexachlorobenzene	ND	270	ug/kg	
87-68-3	Hexachlorobutadiene	ND	270	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	540	ug/kg	
67-72-1	Hexachloroethane	ND	270	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	110	ug/kg	
78-59-1	Isophorone	ND	270	ug/kg	
91-57-6	2-Methylnaphthalene	ND	110	ug/kg	
88-74-4	2-Nitroaniline	ND	540	ug/kg	
99-09-2	3-Nitroaniline	ND	540	ug/kg	
100-01-6	4-Nitroaniline	ND	540	ug/kg	
91-20-3	Naphthalene	ND	110	ug/kg	
98-95-3	Nitrobenzene	ND	270	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	270	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	270	ug/kg	
85-01-8	Phenanthrene	ND	110	ug/kg	
129-00-0	Pyrene	ND	110	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	270	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	26% [a]		30-130%
4165-62-2	Phenol-d5	61%		30-130%
118-79-6	2,4,6-Tribromophenol	1% [a]		30-130%
4165-60-0	Nitrobenzene-d5	82%		30-130%
321-60-8	2-Fluorobiphenyl	86%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-STWW-4.5-102813		
Lab Sample ID:	MC25720-6	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	91.3
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	88%		30-130%

(a) Outside control limits due to matrix interference(concrete). Confirmed by reanalysis.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FWR-STWW-4.5-102813
Lab Sample ID: MC25720-6 **Date Sampled:** 10/28/13
Matrix: SO - Solid **Date Received:** 10/29/13
Method: SW846 8081 SW846 3546 **Percent Solids:** 91.3
Project: Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB52002.D	1	11/01/13	CZ	10/30/13	OP35496	GBB3059
Run #2							

	Initial Weight	Final Volume
Run #1	20.3 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.0054	mg/kg	
319-84-6	alpha-BHC	ND	0.0054	mg/kg	
319-85-7	beta-BHC	ND	0.0054	mg/kg	
319-86-8	delta-BHC	ND	0.0054	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.0054	mg/kg	
5103-71-9	alpha-Chlordane	ND	0.0054	mg/kg	
5103-74-2	gamma-Chlordane	ND	0.0054	mg/kg	
60-57-1	Dieldrin	ND	0.0054	mg/kg	
72-54-8	4,4'-DDD	ND	0.0054	mg/kg	
72-55-9	4,4'-DDE	ND	0.0054	mg/kg	
50-29-3	4,4'-DDT	ND	0.0054	mg/kg	
72-20-8	Endrin	ND	0.0054	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.0054	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.0054	mg/kg	
959-98-8	Endosulfan-I	ND	0.0054	mg/kg	
33213-65-9	Endosulfan-II	ND	0.0054	mg/kg	
76-44-8	Heptachlor	ND	0.0054	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.0054	mg/kg	
72-43-5	Methoxychlor	ND	0.0054	mg/kg	
53494-70-5	Endrin ketone	ND	0.0054	mg/kg	
8001-35-2	Toxaphene	ND	0.054	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	68%		30-150%
877-09-8	Tetrachloro-m-xylene	70%		30-150%
2051-24-3	Decachlorobiphenyl	76%		30-150%
2051-24-3	Decachlorobiphenyl	71%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-STWW-4.5-102813		
Lab Sample ID:	MC25720-6	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8082 SW846 3546	**Percent Solids:**	91.3
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK31439.D	1	11/01/13	NK	10/30/13	OP35495	GBK1039
Run #2							

	Initial Weight	Final Volume
Run #1	20.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.027	mg/kg	
11104-28-2	Aroclor 1221	ND	0.027	mg/kg	
11141-16-5	Aroclor 1232	ND	0.027	mg/kg	
53469-21-9	Aroclor 1242	ND	0.027	mg/kg	
12672-29-6	Aroclor 1248	ND	0.027	mg/kg	
11097-69-1	Aroclor 1254	0.0357	0.027	mg/kg	
11096-82-5	Aroclor 1260	ND	0.027	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	69%		30-150%
877-09-8	Tetrachloro-m-xylene	77%		30-150%
2051-24-3	Decachlorobiphenyl	69%		30-150%
2051-24-3	Decachlorobiphenyl	82%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FWR-STWW-4.5-102813
Lab Sample ID: MC25720-6
Matrix: SO - Solid
Project: Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY

Date Sampled: 10/28/13
Date Received: 10/29/13
Percent Solids: 91.3

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	11200	21	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Antimony	< 1.1	1.1	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Arsenic	5.2	1.1	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Barium	110	5.3	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Beryllium	< 0.43	0.43	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Cadmium	< 0.43	0.43	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Calcium	75400	5300	mg/kg	10	10/30/13	11/01/13	EAL	SW846 6010C [3]	SW846 3050B [5]
Chromium	12.9	1.1	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Cobalt	7.5	5.3	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Copper	19.1	2.7	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Iron	19500	11	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Lead	7.0	1.1	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Magnesium	7750	530	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Manganese	465	1.6	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Mercury	< 0.035	0.035	mg/kg	1	10/30/13	10/31/13	SA	SW846 7471B [1]	SW846 7471B [4]
Nickel	18.7	4.3	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Potassium	1100	530	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Selenium	< 1.1	1.1	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Silver	< 0.53	0.53	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Sodium	< 530	530	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Thallium	< 1.1	1.1	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Vanadium	15.3	1.1	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Zinc	47.5	2.1	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]

(1) Instrument QC Batch: MA16311
(2) Instrument QC Batch: MA16318
(3) Instrument QC Batch: MA16328
(4) Prep QC Batch: MP21923
(5) Prep QC Batch: MP21927

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FWR-STWW-4.5-102813		
Lab Sample ID:	MC25720-6	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
		Percent Solids:	91.3
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Corrosivity as pH	11.2			1	10/30/13	MA	SW846 CHAP7
Cyanide Reactivity	< 1.6	1.6	mg/kg	1	10/31/13 13:40	BF	SW846 CHAP7
Ignitability (Flashpoint)	> 230		Deg. F	1	10/31/13	BF	SW846 1020
Solids, Percent	91.3		%	1	10/30/13	HS	SM21 2540 B MOD.
Sulfide Reactivity	< 55	55	mg/kg	1	10/31/13	BF	SW846 CHAP7

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FWR-STWW-6.0-102813		
Lab Sample ID:	MC25720-7	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8260B	**Percent Solids:**	94.1
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G132740.D	1	10/30/13	JM	n/a	n/a	MSG5141
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	9.93 g	10.0 ml	100 ul
Run #2			

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	0.57	mg/kg	
71-43-2	Benzene	ND	0.028	mg/kg	
75-27-4	Bromodichloromethane	ND	0.11	mg/kg	
75-25-2	Bromoform	ND	0.11	mg/kg	
74-83-9	Bromomethane	ND	0.11	mg/kg	
78-93-3	2-Butanone (MEK)	ND	0.28	mg/kg	
75-15-0	Carbon disulfide	ND	0.28	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.11	mg/kg	
108-90-7	Chlorobenzene	ND	0.11	mg/kg	
75-00-3	Chloroethane	ND	0.28	mg/kg	
67-66-3	Chloroform	ND	0.11	mg/kg	
74-87-3	Chloromethane	ND	0.28	mg/kg	
124-48-1	Dibromochloromethane	ND	0.11	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.11	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.11	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.11	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.11	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.11	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.11	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.11	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.11	mg/kg	
100-41-4	Ethylbenzene	ND	0.11	mg/kg	
591-78-6	2-Hexanone	ND	0.28	mg/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	0.28	mg/kg	
75-09-2	Methylene chloride	ND	0.11	mg/kg	
100-42-5	Styrene	ND	0.28	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.11	mg/kg	
127-18-4	Tetrachloroethene	ND	0.11	mg/kg	
108-88-3	Toluene	ND	0.28	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.11	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.11	mg/kg	
79-01-6	Trichloroethene	0.121	0.11	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-STWW-6.0-102813		
Lab Sample ID:	MC25720-7	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8260B	**Percent Solids:**	94.1
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	0.11	mg/kg	
1330-20-7	Xylene (total)	ND	0.11	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		70-130%
2037-26-5	Toluene-D8	110%		70-130%
460-00-4	4-Bromofluorobenzene	95%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-STWW-6.0-102813		
Lab Sample ID:	MC25720-7	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	94.1
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R34554.D	1	10/31/13	WK	10/30/13	OP35493	MSR1259
Run #2							

	Initial Weight	Final Volume
Run #1	20.5 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	260	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	520	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	520	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	520	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1000	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	520	ug/kg	
95-48-7	2-Methylphenol	ND	520	ug/kg	
	3&4-Methylphenol	ND	520	ug/kg	
88-75-5	2-Nitrophenol	ND	520	ug/kg	
100-02-7	4-Nitrophenol	ND	1000	ug/kg	
87-86-5	Pentachlorophenol	ND	520	ug/kg	
108-95-2	Phenol	ND	260	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	520	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	520	ug/kg	
83-32-9	Acenaphthene	ND	100	ug/kg	
208-96-8	Acenaphthylene	ND	100	ug/kg	
120-12-7	Anthracene	ND	100	ug/kg	
56-55-3	Benzo(a)anthracene	ND	100	ug/kg	
50-32-8	Benzo(a)pyrene	ND	100	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	100	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	100	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	100	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	260	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	260	ug/kg	
91-58-7	2-Chloronaphthalene	ND	260	ug/kg	
106-47-8	4-Chloroaniline	ND	520	ug/kg	
86-74-8	Carbazole	ND	100	ug/kg	
218-01-9	Chrysene	ND	100	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	260	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	260	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	260	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	260	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-STWW-6.0-102813		
Lab Sample ID:	MC25720-7	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	94.1
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	260	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	260	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	260	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	520	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	520	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	260	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	100	ug/kg	
132-64-9	Dibenzofuran	ND	100	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	260	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	260	ug/kg	
84-66-2	Diethyl phthalate	ND	260	ug/kg	
131-11-3	Dimethyl phthalate	ND	260	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	260	ug/kg	
206-44-0	Fluoranthene	ND	100	ug/kg	
86-73-7	Fluorene	ND	100	ug/kg	
118-74-1	Hexachlorobenzene	ND	260	ug/kg	
87-68-3	Hexachlorobutadiene	ND	260	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	520	ug/kg	
67-72-1	Hexachloroethane	ND	260	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	100	ug/kg	
78-59-1	Isophorone	ND	260	ug/kg	
91-57-6	2-Methylnaphthalene	ND	100	ug/kg	
88-74-4	2-Nitroaniline	ND	520	ug/kg	
99-09-2	3-Nitroaniline	ND	520	ug/kg	
100-01-6	4-Nitroaniline	ND	520	ug/kg	
91-20-3	Naphthalene	ND	100	ug/kg	
98-95-3	Nitrobenzene	ND	260	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	260	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	260	ug/kg	
85-01-8	Phenanthrene	ND	100	ug/kg	
129-00-0	Pyrene	ND	100	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	260	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	8% [a]		30-130%
4165-62-2	Phenol-d5	42%		30-130%
118-79-6	2,4,6-Tribromophenol	0% [a]		30-130%
4165-60-0	Nitrobenzene-d5	84%		30-130%
321-60-8	2-Fluorobiphenyl	86%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-STWW-6.0-102813		
Lab Sample ID:	MC25720-7	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	94.1
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	86%		30-130%

(a) Outside control limits due to matrix interference(concrete). Confirmed by reanalysis.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FWR-STWW-6.0-102813
Lab Sample ID: MC25720-7 **Date Sampled:** 10/28/13
Matrix: SO - Solid **Date Received:** 10/29/13
Method: SW846 8081 SW846 3546 **Percent Solids:** 94.1
Project: Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB52003.D	1	11/01/13	CZ	10/30/13	OP35496	GBB3059
Run #2							

	Initial Weight	Final Volume
Run #1	20.5 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.0052	mg/kg	
319-84-6	alpha-BHC	ND	0.0052	mg/kg	
319-85-7	beta-BHC	ND	0.0052	mg/kg	
319-86-8	delta-BHC	ND	0.0052	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.0052	mg/kg	
5103-71-9	alpha-Chlordane	ND	0.0052	mg/kg	
5103-74-2	gamma-Chlordane	ND	0.0052	mg/kg	
60-57-1	Dieldrin	ND	0.0052	mg/kg	
72-54-8	4,4'-DDD	ND	0.0052	mg/kg	
72-55-9	4,4'-DDE	ND	0.0052	mg/kg	
50-29-3	4,4'-DDT	ND	0.0052	mg/kg	
72-20-8	Endrin	ND	0.0052	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.0052	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.0052	mg/kg	
959-98-8	Endosulfan-I	ND	0.0052	mg/kg	
33213-65-9	Endosulfan-II	ND	0.0052	mg/kg	
76-44-8	Heptachlor	ND	0.0052	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.0052	mg/kg	
72-43-5	Methoxychlor	ND	0.0052	mg/kg	
53494-70-5	Endrin ketone	ND	0.0052	mg/kg	
8001-35-2	Toxaphene	ND	0.052	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	76%		30-150%
877-09-8	Tetrachloro-m-xylene	80%		30-150%
2051-24-3	Decachlorobiphenyl	70%		30-150%
2051-24-3	Decachlorobiphenyl	67%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-STWW-6.0-102813		
Lab Sample ID:	MC25720-7	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8082 SW846 3546	**Percent Solids:**	94.1
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK31440.D	1	11/01/13	NK	10/30/13	OP35495	GBK1039
Run #2							

	Initial Weight	Final Volume
Run #1	20.5 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.026	mg/kg	
11104-28-2	Aroclor 1221	ND	0.026	mg/kg	
11141-16-5	Aroclor 1232	ND	0.026	mg/kg	
53469-21-9	Aroclor 1242	ND	0.026	mg/kg	
12672-29-6	Aroclor 1248	ND	0.026	mg/kg	
11097-69-1	Aroclor 1254	ND	0.026	mg/kg	
11096-82-5	Aroclor 1260	ND	0.026	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	73%		30-150%
877-09-8	Tetrachloro-m-xylene	82%		30-150%
2051-24-3	Decachlorobiphenyl	75%		30-150%
2051-24-3	Decachlorobiphenyl	82%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-STWW-6.0-102813		
Lab Sample ID:	MC25720-7	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
		Percent Solids:	94.1
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	13400	21	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Antimony	< 1.0	1.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Arsenic	5.5	1.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Barium	135	5.2	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Beryllium	0.47	0.42	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Cadmium	< 0.42	0.42	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Calcium	54500	5200	mg/kg	10	10/30/13	11/01/13	EAL	SW846 6010C [3]	SW846 3050B [5]
Chromium	15.9	1.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Cobalt	8.4	5.2	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Copper	13.5	2.6	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Iron	22000	10	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Lead	6.2	1.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Magnesium	5910	520	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Manganese	477	1.6	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Mercury	< 0.033	0.033	mg/kg	1	10/30/13	10/31/13	SA	SW846 7471B [1]	SW846 7471B [4]
Nickel	21.6	4.2	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Potassium	1470	520	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Selenium	< 1.0	1.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Silver	< 0.52	0.52	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Sodium	< 520	520	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Thallium	< 1.0	1.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Vanadium	17.7	1.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Zinc	48.2	2.1	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]

(1) Instrument QC Batch: MA16311
(2) Instrument QC Batch: MA16318
(3) Instrument QC Batch: MA16328
(4) Prep QC Batch: MP21923
(5) Prep QC Batch: MP21927

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FWR-STWW-6.0-102813		
Lab Sample ID:	MC25720-7	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
		Percent Solids:	94.1
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Corrosivity as pH	11.5			1	10/30/13	MA	SW846 CHAP7
Cyanide Reactivity	< 1.6	1.6	mg/kg	1	10/31/13 13:40	BF	SW846 CHAP7
Ignitability (Flashpoint)	> 230		Deg. F	1	10/31/13	BF	SW846 1020
Solids, Percent	94.1		%	1	10/30/13	HS	SM21 2540 B MOD.
Sulfide Reactivity	< 53	53	mg/kg	1	10/31/13	BF	SW846 CHAP7

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FWR-STSW-1.0-102813		
Lab Sample ID:	MC25720-8	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8260B	**Percent Solids:**	93.2
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G132741.D	1	10/30/13	JM	n/a	n/a	MSG5141
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	9.60 g	10.0 ml	100 ul
Run #2			

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	0.60	mg/kg	
71-43-2	Benzene	ND	0.030	mg/kg	
75-27-4	Bromodichloromethane	ND	0.12	mg/kg	
75-25-2	Bromoform	ND	0.12	mg/kg	
74-83-9	Bromomethane	ND	0.12	mg/kg	
78-93-3	2-Butanone (MEK)	ND	0.30	mg/kg	
75-15-0	Carbon disulfide	ND	0.30	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.12	mg/kg	
108-90-7	Chlorobenzene	ND	0.12	mg/kg	
75-00-3	Chloroethane	ND	0.30	mg/kg	
67-66-3	Chloroform	ND	0.12	mg/kg	
74-87-3	Chloromethane	ND	0.30	mg/kg	
124-48-1	Dibromochloromethane	ND	0.12	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.12	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.12	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.12	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.12	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.12	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.12	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.12	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.12	mg/kg	
100-41-4	Ethylbenzene	ND	0.12	mg/kg	
591-78-6	2-Hexanone	ND	0.30	mg/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	0.30	mg/kg	
75-09-2	Methylene chloride	ND	0.12	mg/kg	
100-42-5	Styrene	ND	0.30	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.12	mg/kg	
127-18-4	Tetrachloroethene	ND	0.12	mg/kg	
108-88-3	Toluene	ND	0.30	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.12	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.12	mg/kg	
79-01-6	Trichloroethene	ND	0.12	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-STSW-1.0-102813		
Lab Sample ID:	MC25720-8	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8260B	**Percent Solids:**	93.2
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	0.12	mg/kg	
1330-20-7	Xylene (total)	ND	0.12	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		70-130%
2037-26-5	Toluene-D8	112%		70-130%
460-00-4	4-Bromofluorobenzene	97%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-STSW-1.0-102813		
Lab Sample ID:	MC25720-8	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	93.2
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R34555.D	1	10/31/13	WK	10/30/13	OP35493	MSR1259
Run #2							

	Initial Weight	Final Volume
Run #1	20.7 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	260	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	520	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	520	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	520	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1000	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	520	ug/kg	
95-48-7	2-Methylphenol	ND	520	ug/kg	
	3&4-Methylphenol	ND	520	ug/kg	
88-75-5	2-Nitrophenol	ND	520	ug/kg	
100-02-7	4-Nitrophenol	ND	1000	ug/kg	
87-86-5	Pentachlorophenol	ND	520	ug/kg	
108-95-2	Phenol	ND	260	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	520	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	520	ug/kg	
83-32-9	Acenaphthene	ND	100	ug/kg	
208-96-8	Acenaphthylene	ND	100	ug/kg	
120-12-7	Anthracene	ND	100	ug/kg	
56-55-3	Benzo(a)anthracene	ND	100	ug/kg	
50-32-8	Benzo(a)pyrene	ND	100	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	100	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	100	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	100	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	260	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	260	ug/kg	
91-58-7	2-Chloronaphthalene	ND	260	ug/kg	
106-47-8	4-Chloroaniline	ND	520	ug/kg	
86-74-8	Carbazole	ND	100	ug/kg	
218-01-9	Chrysene	ND	100	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	260	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	260	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	260	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	260	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-STSW-1.0-102813		
Lab Sample ID:	MC25720-8	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	93.2
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	260	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	260	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	260	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	520	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	520	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	260	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	100	ug/kg	
132-64-9	Dibenzofuran	ND	100	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	260	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	260	ug/kg	
84-66-2	Diethyl phthalate	ND	260	ug/kg	
131-11-3	Dimethyl phthalate	ND	260	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	260	ug/kg	
206-44-0	Fluoranthene	ND	100	ug/kg	
86-73-7	Fluorene	ND	100	ug/kg	
118-74-1	Hexachlorobenzene	ND	260	ug/kg	
87-68-3	Hexachlorobutadiene	ND	260	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	520	ug/kg	
67-72-1	Hexachloroethane	ND	260	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	100	ug/kg	
78-59-1	Isophorone	ND	260	ug/kg	
91-57-6	2-Methylnaphthalene	ND	100	ug/kg	
88-74-4	2-Nitroaniline	ND	520	ug/kg	
99-09-2	3-Nitroaniline	ND	520	ug/kg	
100-01-6	4-Nitroaniline	ND	520	ug/kg	
91-20-3	Naphthalene	ND	100	ug/kg	
98-95-3	Nitrobenzene	ND	260	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	260	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	260	ug/kg	
85-01-8	Phenanthrene	ND	100	ug/kg	
129-00-0	Pyrene	ND	100	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	260	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	5% [a]		30-130%
4165-62-2	Phenol-d5	26% [a]		30-130%
118-79-6	2,4,6-Tribromophenol	0% [a]		30-130%
4165-60-0	Nitrobenzene-d5	71%		30-130%
321-60-8	2-Fluorobiphenyl	70%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-STSW-1.0-102813		
Lab Sample ID:	MC25720-8	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	93.2
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	74%		30-130%

(a) Outside control limits due to matrix interference(concrete). Confirmed by reanalysis.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FWR-STSW-1.0-102813
Lab Sample ID: MC25720-8 **Date Sampled:** 10/28/13
Matrix: SO - Solid **Date Received:** 10/29/13
Method: SW846 8081 SW846 3546 **Percent Solids:** 93.2
Project: Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB52004.D	1	11/01/13	CZ	10/30/13	OP35496	GBB3059
Run #2							

	Initial Weight	Final Volume
Run #1	20.4 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.0053	mg/kg	
319-84-6	alpha-BHC	ND	0.0053	mg/kg	
319-85-7	beta-BHC	ND	0.0053	mg/kg	
319-86-8	delta-BHC	ND	0.0053	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.0053	mg/kg	
5103-71-9	alpha-Chlordane	ND	0.0053	mg/kg	
5103-74-2	gamma-Chlordane	ND	0.0053	mg/kg	
60-57-1	Dieldrin	ND	0.0053	mg/kg	
72-54-8	4,4'-DDD	ND	0.0053	mg/kg	
72-55-9	4,4'-DDE	ND	0.0053	mg/kg	
50-29-3	4,4'-DDT	ND	0.0053	mg/kg	
72-20-8	Endrin	ND	0.0053	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.0053	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.0053	mg/kg	
959-98-8	Endosulfan-I	ND	0.0053	mg/kg	
33213-65-9	Endosulfan-II	ND	0.0053	mg/kg	
76-44-8	Heptachlor	ND	0.0053	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.0053	mg/kg	
72-43-5	Methoxychlor	ND	0.0053	mg/kg	
53494-70-5	Endrin ketone	ND	0.0053	mg/kg	
8001-35-2	Toxaphene	ND	0.053	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	64%		30-150%
877-09-8	Tetrachloro-m-xylene	65%		30-150%
2051-24-3	Decachlorobiphenyl	62%		30-150%
2051-24-3	Decachlorobiphenyl	61%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-STSW-1.0-102813		
Lab Sample ID:	MC25720-8	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8082 SW846 3546	**Percent Solids:**	93.2
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK31441.D	1	11/01/13	NK	10/30/13	OP35495	GBK1039
Run #2							

	Initial Weight	Final Volume
Run #1	20.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.026	mg/kg	
11104-28-2	Aroclor 1221	ND	0.026	mg/kg	
11141-16-5	Aroclor 1232	ND	0.026	mg/kg	
53469-21-9	Aroclor 1242	ND	0.026	mg/kg	
12672-29-6	Aroclor 1248	ND	0.026	mg/kg	
11097-69-1	Aroclor 1254	ND	0.026	mg/kg	
11096-82-5	Aroclor 1260	ND	0.026	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	91%		30-150%
877-09-8	Tetrachloro-m-xylene	92%		30-150%
2051-24-3	Decachlorobiphenyl	95%		30-150%
2051-24-3	Decachlorobiphenyl	103%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FWR-STSW-1.0-102813
Lab Sample ID: MC25720-8
Matrix: SO - Solid
Project: Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY

Date Sampled: 10/28/13
Date Received: 10/29/13
Percent Solids: 93.2

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	13200	20	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Antimony	< 0.98	0.98	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Arsenic	5.6	0.98	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Barium	149	4.9	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Beryllium	0.45	0.39	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Cadmium	< 0.39	0.39	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Calcium	70300	4900	mg/kg	10	10/30/13	11/01/13	EAL	SW846 6010C [3]	SW846 3050B [5]
Chromium	15.5	0.98	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Cobalt	8.3	4.9	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Copper	16.0	2.4	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Iron	21500	9.8	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Lead	6.1	0.98	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Magnesium	6050	490	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Manganese	482	1.5	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Mercury	< 0.034	0.034	mg/kg	1	10/30/13	10/31/13	SA	SW846 7471B [1]	SW846 7471B [4]
Nickel	20.8	3.9	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Potassium	1180	490	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Selenium	< 0.98	0.98	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Silver	< 0.49	0.49	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Sodium	< 490	490	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Thallium	< 0.98	0.98	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Vanadium	17.4	0.98	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Zinc	46.3	2.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]

(1) Instrument QC Batch: MA16311
(2) Instrument QC Batch: MA16318
(3) Instrument QC Batch: MA16328
(4) Prep QC Batch: MP21923
(5) Prep QC Batch: MP21927

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FWR-STSW-1.0-102813		
Lab Sample ID:	MC25720-8	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
		Percent Solids:	93.2
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Corrosivity as pH	11.6			1	10/30/13	MA	SW846 CHAP7
Cyanide Reactivity	< 1.6	1.6	mg/kg	1	10/31/13 13:40	BF	SW846 CHAP7
Ignitability (Flashpoint)	> 230		Deg. F	1	10/31/13	BF	SW846 1020
Solids, Percent	93.2		%	1	10/30/13	HS	SM21 2540 B MOD.
Sulfide Reactivity	< 54	54	mg/kg	1	10/31/13	BF	SW846 CHAP7

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FWR-STEW-1.0-102813		
Lab Sample ID:	MC25720-9	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8260B	**Percent Solids:**	93.2
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G132742.D	1	10/30/13	JM	n/a	n/a	MSG5141
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	10.4 g	10.0 ml	100 ul
Run #2			

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	0.55	mg/kg	
71-43-2	Benzene	ND	0.028	mg/kg	
75-27-4	Bromodichloromethane	ND	0.11	mg/kg	
75-25-2	Bromoform	ND	0.11	mg/kg	
74-83-9	Bromomethane	ND	0.11	mg/kg	
78-93-3	2-Butanone (MEK)	ND	0.28	mg/kg	
75-15-0	Carbon disulfide	ND	0.28	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.11	mg/kg	
108-90-7	Chlorobenzene	ND	0.11	mg/kg	
75-00-3	Chloroethane	ND	0.28	mg/kg	
67-66-3	Chloroform	ND	0.11	mg/kg	
74-87-3	Chloromethane	ND	0.28	mg/kg	
124-48-1	Dibromochloromethane	ND	0.11	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.11	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.11	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.11	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.11	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.11	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.11	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.11	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.11	mg/kg	
100-41-4	Ethylbenzene	ND	0.11	mg/kg	
591-78-6	2-Hexanone	ND	0.28	mg/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	0.28	mg/kg	
75-09-2	Methylene chloride	ND	0.11	mg/kg	
100-42-5	Styrene	ND	0.28	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.11	mg/kg	
127-18-4	Tetrachloroethene	ND	0.11	mg/kg	
108-88-3	Toluene	ND	0.28	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.11	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.11	mg/kg	
79-01-6	Trichloroethene	ND	0.11	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-STEW-1.0-102813		
Lab Sample ID:	MC25720-9	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8260B	**Percent Solids:**	93.2
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	0.11	mg/kg	
1330-20-7	Xylene (total)	ND	0.11	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	116%		70-130%
2037-26-5	Toluene-D8	111%		70-130%
460-00-4	4-Bromofluorobenzene	96%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-STEW-1.0-102813		
Lab Sample ID:	MC25720-9	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	93.2
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R34556.D	1	10/31/13	WK	10/30/13	OP35493	MSR1259
Run #2							

	Initial Weight	Final Volume
Run #1	20.7 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	260	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	520	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	520	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	520	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1000	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	520	ug/kg	
95-48-7	2-Methylphenol	ND	520	ug/kg	
	3&4-Methylphenol	ND	520	ug/kg	
88-75-5	2-Nitrophenol	ND	520	ug/kg	
100-02-7	4-Nitrophenol	ND	1000	ug/kg	
87-86-5	Pentachlorophenol	ND	520	ug/kg	
108-95-2	Phenol	ND	260	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	520	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	520	ug/kg	
83-32-9	Acenaphthene	ND	100	ug/kg	
208-96-8	Acenaphthylene	ND	100	ug/kg	
120-12-7	Anthracene	ND	100	ug/kg	
56-55-3	Benzo(a)anthracene	ND	100	ug/kg	
50-32-8	Benzo(a)pyrene	ND	100	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	100	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	100	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	100	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	260	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	260	ug/kg	
91-58-7	2-Chloronaphthalene	ND	260	ug/kg	
106-47-8	4-Chloroaniline	ND	520	ug/kg	
86-74-8	Carbazole	ND	100	ug/kg	
218-01-9	Chrysene	ND	100	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	260	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	260	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	260	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	260	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-STEW-1.0-102813		
Lab Sample ID:	MC25720-9	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	93.2
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	260	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	260	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	260	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	520	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	520	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	260	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	100	ug/kg	
132-64-9	Dibenzofuran	ND	100	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	260	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	260	ug/kg	
84-66-2	Diethyl phthalate	ND	260	ug/kg	
131-11-3	Dimethyl phthalate	ND	260	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	260	ug/kg	
206-44-0	Fluoranthene	ND	100	ug/kg	
86-73-7	Fluorene	ND	100	ug/kg	
118-74-1	Hexachlorobenzene	ND	260	ug/kg	
87-68-3	Hexachlorobutadiene	ND	260	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	520	ug/kg	
67-72-1	Hexachloroethane	ND	260	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	100	ug/kg	
78-59-1	Isophorone	ND	260	ug/kg	
91-57-6	2-Methylnaphthalene	ND	100	ug/kg	
88-74-4	2-Nitroaniline	ND	520	ug/kg	
99-09-2	3-Nitroaniline	ND	520	ug/kg	
100-01-6	4-Nitroaniline	ND	520	ug/kg	
91-20-3	Naphthalene	ND	100	ug/kg	
98-95-3	Nitrobenzene	ND	260	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	260	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	260	ug/kg	
85-01-8	Phenanthrene	ND	100	ug/kg	
129-00-0	Pyrene	ND	100	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	260	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	30%		30-130%
4165-62-2	Phenol-d5	64%		30-130%
118-79-6	2,4,6-Tribromophenol	1% [a]		30-130%
4165-60-0	Nitrobenzene-d5	82%		30-130%
321-60-8	2-Fluorobiphenyl	87%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-STEW-1.0-102813		
Lab Sample ID:	MC25720-9	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	93.2
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	85%		30-130%

(a) Outside control limits due to matrix interference(concrete). Confirmed by reanalysis.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-STEW-1.0-102813		
Lab Sample ID:	MC25720-9	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8081 SW846 3546	**Percent Solids:**	93.2
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB52007.D	1	11/01/13	CZ	10/30/13	OP35496	GBB3059
Run #2							

	Initial Weight	Final Volume
Run #1	20.5 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.0052	mg/kg	
319-84-6	alpha-BHC	ND	0.0052	mg/kg	
319-85-7	beta-BHC	ND	0.0052	mg/kg	
319-86-8	delta-BHC	ND	0.0052	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.0052	mg/kg	
5103-71-9	alpha-Chlordane	ND	0.0052	mg/kg	
5103-74-2	gamma-Chlordane	ND	0.0052	mg/kg	
60-57-1	Dieldrin	ND	0.0052	mg/kg	
72-54-8	4,4'-DDD	ND	0.0052	mg/kg	
72-55-9	4,4'-DDE	ND	0.0052	mg/kg	
50-29-3	4,4'-DDT	ND	0.0052	mg/kg	
72-20-8	Endrin	ND	0.0052	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.0052	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.0052	mg/kg	
959-98-8	Endosulfan-I	ND	0.0052	mg/kg	
33213-65-9	Endosulfan-II	ND	0.0052	mg/kg	
76-44-8	Heptachlor	ND	0.0052	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.0052	mg/kg	
72-43-5	Methoxychlor	ND	0.0052	mg/kg	
53494-70-5	Endrin ketone	ND	0.0052	mg/kg	
8001-35-2	Toxaphene	ND	0.052	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	59%		30-150%
877-09-8	Tetrachloro-m-xylene	59%		30-150%
2051-24-3	Decachlorobiphenyl	61%		30-150%
2051-24-3	Decachlorobiphenyl	59%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-STEW-1.0-102813		
Lab Sample ID:	MC25720-9	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8082 SW846 3546	**Percent Solids:**	93.2
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK31443.D	1	11/01/13	NK	10/30/13	OP35495	GBK1039
Run #2							

	Initial Weight	Final Volume
Run #1	20.5 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.026	mg/kg	
11104-28-2	Aroclor 1221	ND	0.026	mg/kg	
11141-16-5	Aroclor 1232	ND	0.026	mg/kg	
53469-21-9	Aroclor 1242	ND	0.026	mg/kg	
12672-29-6	Aroclor 1248	ND	0.026	mg/kg	
11097-69-1	Aroclor 1254	0.290	0.026	mg/kg	
11096-82-5	Aroclor 1260 [a]	0.0645	0.026	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	78%		30-150%
877-09-8	Tetrachloro-m-xylene	78%		30-150%
2051-24-3	Decachlorobiphenyl	91%		30-150%
2051-24-3	Decachlorobiphenyl	94%		30-150%

(a) Estimated value due to the presence of other Arochlor pattern.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FWR-STEW-1.0-102813
Lab Sample ID: MC25720-9
Matrix: SO - Solid
Project: Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY

Date Sampled: 10/28/13
Date Received: 10/29/13
Percent Solids: 93.2

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	13200	19	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Antimony	< 0.94	0.94	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Arsenic	5.4	0.94	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Barium	146	4.7	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Beryllium	0.46	0.38	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Cadmium	< 0.38	0.38	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Calcium	87300	4700	mg/kg	10	10/30/13	11/01/13	EAL	SW846 6010C [3]	SW846 3050B [5]
Chromium	15.2	0.94	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Cobalt	8.2	4.7	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Copper	15.8	2.4	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Iron	20400	9.4	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Lead	6.3	0.94	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Magnesium	6710	470	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Manganese	525	1.4	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Mercury	< 0.034	0.034	mg/kg	1	10/30/13	10/31/13	SA	SW846 7471B [1]	SW846 7471B [4]
Nickel	20.5	3.8	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Potassium	1310	470	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Selenium	< 0.94	0.94	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Silver	< 0.47	0.47	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Sodium	< 470	470	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Thallium	< 0.94	0.94	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Vanadium	17.8	0.94	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Zinc	43.3	1.9	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]

(1) Instrument QC Batch: MA16311
(2) Instrument QC Batch: MA16318
(3) Instrument QC Batch: MA16328
(4) Prep QC Batch: MP21923
(5) Prep QC Batch: MP21927

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FWR-STEW-1.0-102813		
Lab Sample ID:	MC25720-9	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
		Percent Solids:	93.2
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Corrosivity as pH	11.2			1	10/30/13	MA	SW846 CHAP7
Cyanide Reactivity	< 1.6	1.6	mg/kg	1	10/31/13 13:40	BF	SW846 CHAP7
Ignitability (Flashpoint)	> 230		Deg. F	1	10/31/13	BF	SW846 1020
Solids, Percent	93.2		%	1	10/30/13	HS	SM21 2540 B MOD.
Sulfide Reactivity	< 54	54	mg/kg	1	10/31/13	BF	SW846 CHAP7

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FWR-STNW-1.0-102813		
Lab Sample ID:	MC25720-10	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8260B	**Percent Solids:**	95.3
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G132743.D	1	10/30/13	JM	n/a	n/a	MSG5141
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	9.85 g	10.0 ml	100 ul
Run #2			

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	0.56	mg/kg	
71-43-2	Benzene	ND	0.028	mg/kg	
75-27-4	Bromodichloromethane	ND	0.11	mg/kg	
75-25-2	Bromoform	ND	0.11	mg/kg	
74-83-9	Bromomethane	ND	0.11	mg/kg	
78-93-3	2-Butanone (MEK)	ND	0.28	mg/kg	
75-15-0	Carbon disulfide	ND	0.28	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.11	mg/kg	
108-90-7	Chlorobenzene	ND	0.11	mg/kg	
75-00-3	Chloroethane	ND	0.28	mg/kg	
67-66-3	Chloroform	ND	0.11	mg/kg	
74-87-3	Chloromethane	ND	0.28	mg/kg	
124-48-1	Dibromochloromethane	ND	0.11	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.11	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.11	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.11	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.11	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.11	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.11	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.11	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.11	mg/kg	
100-41-4	Ethylbenzene	ND	0.11	mg/kg	
591-78-6	2-Hexanone	ND	0.28	mg/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	0.28	mg/kg	
75-09-2	Methylene chloride	ND	0.11	mg/kg	
100-42-5	Styrene	ND	0.28	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.11	mg/kg	
127-18-4	Tetrachloroethene	ND	0.11	mg/kg	
108-88-3	Toluene	ND	0.28	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.11	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.11	mg/kg	
79-01-6	Trichloroethene	ND	0.11	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-STNW-1.0-102813		
Lab Sample ID:	MC25720-10	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8260B	**Percent Solids:**	95.3
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	0.11	mg/kg	
1330-20-7	Xylene (total)	ND	0.11	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		70-130%
2037-26-5	Toluene-D8	111%		70-130%
460-00-4	4-Bromofluorobenzene	96%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-STNW-1.0-102813		
Lab Sample ID:	MC25720-10	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	95.3
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R34557.D	1	10/31/13	WK	10/30/13	OP35493	MSR1259
Run #2							

	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	260	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	520	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	520	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	520	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1000	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	520	ug/kg	
95-48-7	2-Methylphenol	ND	520	ug/kg	
	3&4-Methylphenol	ND	520	ug/kg	
88-75-5	2-Nitrophenol	ND	520	ug/kg	
100-02-7	4-Nitrophenol	ND	1000	ug/kg	
87-86-5	Pentachlorophenol	ND	520	ug/kg	
108-95-2	Phenol	ND	260	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	520	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	520	ug/kg	
83-32-9	Acenaphthene	ND	100	ug/kg	
208-96-8	Acenaphthylene	ND	100	ug/kg	
120-12-7	Anthracene	ND	100	ug/kg	
56-55-3	Benzo(a)anthracene	ND	100	ug/kg	
50-32-8	Benzo(a)pyrene	ND	100	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	100	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	100	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	100	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	260	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	260	ug/kg	
91-58-7	2-Chloronaphthalene	ND	260	ug/kg	
106-47-8	4-Chloroaniline	ND	520	ug/kg	
86-74-8	Carbazole	ND	100	ug/kg	
218-01-9	Chrysene	ND	100	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	260	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	260	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	260	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	260	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-STNW-1.0-102813		
Lab Sample ID:	MC25720-10	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	95.3
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	260	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	260	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	260	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	520	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	520	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	260	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	100	ug/kg	
132-64-9	Dibenzofuran	ND	100	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	260	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	260	ug/kg	
84-66-2	Diethyl phthalate	ND	260	ug/kg	
131-11-3	Dimethyl phthalate	ND	260	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	260	ug/kg	
206-44-0	Fluoranthene	ND	100	ug/kg	
86-73-7	Fluorene	ND	100	ug/kg	
118-74-1	Hexachlorobenzene	ND	260	ug/kg	
87-68-3	Hexachlorobutadiene	ND	260	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	520	ug/kg	
67-72-1	Hexachloroethane	ND	260	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	100	ug/kg	
78-59-1	Isophorone	ND	260	ug/kg	
91-57-6	2-Methylnaphthalene	ND	100	ug/kg	
88-74-4	2-Nitroaniline	ND	520	ug/kg	
99-09-2	3-Nitroaniline	ND	520	ug/kg	
100-01-6	4-Nitroaniline	ND	520	ug/kg	
91-20-3	Naphthalene	ND	100	ug/kg	
98-95-3	Nitrobenzene	ND	260	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	260	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	260	ug/kg	
85-01-8	Phenanthrene	ND	100	ug/kg	
129-00-0	Pyrene	ND	100	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	260	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	0% [a]		30-130%
4165-62-2	Phenol-d5	3% [a]		30-130%
118-79-6	2,4,6-Tribromophenol	0% [a]		30-130%
4165-60-0	Nitrobenzene-d5	78%		30-130%
321-60-8	2-Fluorobiphenyl	80%		30-130%

ND = Not detected
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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-STNW-1.0-102813		
Lab Sample ID:	MC25720-10	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8270C SW846 3546	**Percent Solids:**	95.3
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	87%		30-130%

(a) Outside control limits due to matrix interference(concrete). Confirmed by reanalysis.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-STNW-1.0-102813		
Lab Sample ID:	MC25720-10	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8081 SW846 3546	**Percent Solids:**	95.3
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB52008.D	1	11/01/13	CZ	10/30/13	OP35496	GBB3059
Run #2							

	Initial Weight	Final Volume
Run #1	20.8 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.0050	mg/kg	
319-84-6	alpha-BHC	ND	0.0050	mg/kg	
319-85-7	beta-BHC	ND	0.0050	mg/kg	
319-86-8	delta-BHC	ND	0.0050	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.0050	mg/kg	
5103-71-9	alpha-Chlordane	ND	0.0050	mg/kg	
5103-74-2	gamma-Chlordane	ND	0.0050	mg/kg	
60-57-1	Dieldrin	ND	0.0050	mg/kg	
72-54-8	4,4'-DDD	ND	0.0050	mg/kg	
72-55-9	4,4'-DDE	ND	0.0050	mg/kg	
50-29-3	4,4'-DDT	ND	0.0050	mg/kg	
72-20-8	Endrin	ND	0.0050	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.0050	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.0050	mg/kg	
959-98-8	Endosulfan-I	ND	0.0050	mg/kg	
33213-65-9	Endosulfan-II	ND	0.0050	mg/kg	
76-44-8	Heptachlor	ND	0.0050	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.0050	mg/kg	
72-43-5	Methoxychlor	ND	0.0050	mg/kg	
53494-70-5	Endrin ketone	ND	0.0050	mg/kg	
8001-35-2	Toxaphene	ND	0.050	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	67%		30-150%
877-09-8	Tetrachloro-m-xylene	71%		30-150%
2051-24-3	Decachlorobiphenyl	68%		30-150%
2051-24-3	Decachlorobiphenyl	66%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-STNW-1.0-102813		
Lab Sample ID:	MC25720-10	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
Method:	SW846 8082 SW846 3546	**Percent Solids:**	95.3
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK31444.D	1	11/01/13	NK	10/30/13	OP35495	GBK1039
Run #2							

	Initial Weight	Final Volume
Run #1	20.8 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.025	mg/kg	
11104-28-2	Aroclor 1221	ND	0.025	mg/kg	
11141-16-5	Aroclor 1232	ND	0.025	mg/kg	
53469-21-9	Aroclor 1242	ND	0.025	mg/kg	
12672-29-6	Aroclor 1248	ND	0.025	mg/kg	
11097-69-1	Aroclor 1254	ND	0.025	mg/kg	
11096-82-5	Aroclor 1260	ND	0.025	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	95%		30-150%
877-09-8	Tetrachloro-m-xylene	95%		30-150%
2051-24-3	Decachlorobiphenyl	105%		30-150%
2051-24-3	Decachlorobiphenyl	110%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-STNW-1.0-102813		
Lab Sample ID:	MC25720-10	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
		Percent Solids:	95.3
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	15600	20	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Antimony	< 0.99	0.99	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Arsenic	4.6	0.99	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Barium	63.8	4.9	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Beryllium	0.53	0.40	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Cadmium	< 0.40	0.40	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Calcium	130000	4900	mg/kg	10	10/30/13	11/01/13	EAL	SW846 6010C [3]	SW846 3050B [5]
Chromium	16.5	0.99	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Cobalt	6.7	4.9	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Copper	15.7	2.5	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Iron	19200	9.9	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Lead	8.8	0.99	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Magnesium	11400	490	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Manganese	450	1.5	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Mercury	< 0.032	0.032	mg/kg	1	10/30/13	10/31/13	SA	SW846 7471B [1]	SW846 7471B [4]
Nickel	19.0	4.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Potassium	1920	490	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Selenium	< 0.99	0.99	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Silver	< 0.49	0.49	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Sodium	506	490	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Thallium	< 0.99	0.99	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Vanadium	17.4	0.99	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]
Zinc	44.8	2.0	mg/kg	1	10/30/13	10/31/13	EAL	SW846 6010C [2]	SW846 3050B [5]

(1) Instrument QC Batch: MA16311
(2) Instrument QC Batch: MA16318
(3) Instrument QC Batch: MA16328
(4) Prep QC Batch: MP21923
(5) Prep QC Batch: MP21927

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FWR-STNW-1.0-102813		
Lab Sample ID:	MC25720-10	**Date Sampled:**	10/28/13
Matrix:	SO - Solid	**Date Received:**	10/29/13
		Percent Solids:	95.3
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Corrosivity as pH	12.1			1	10/30/13	MA	SW846 CHAP7
Cyanide Reactivity	< 1.6	1.6	mg/kg	1	10/31/13 13:40	BF	SW846 CHAP7
Ignitability (Flashpoint)	> 230		Deg. F	1	10/31/13	BF	SW846 1020
Solids, Percent	95.3		%	1	10/30/13	HS	SM21 2540 B MOD.
Sulfide Reactivity	< 52	52	mg/kg	1	10/31/13	BF	SW846 CHAP7

RL = Reporting Limit

New England ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

Accutest Laboratories of New England
495 Technology Center West, Building One
TEL. 508-481-6200 FAX: 508-481-7753
www.accutest.com

FED-EX Tracking # | Bottle Order Control #
Accutest Quote # | Accutest Job # MC25720

Client / Reporting Information
Company Name: WSP USA Corp.
Street Address: 2360 Sweet Home Rd #3
City: Amherst State: N.Y. Zip: 14228
Project Contact: Kevin Sullivan E-mail: @WSPGroup.com
Phone #: (716) 713-8688 Fax #:
Sampler(s) Name(s): Kevin Sullivan Phone #: Same

Project Information
Project Name: Emerson Power Transmission
Street: 620 S. Aurora St.
City: Ithaca, N.Y.
Project#: 3197
Client PO#: 3197
Project Manager: Scott Haitz

Billing Information (If different from Report to)
Company Name: See Task Order
Street Address:
City: State: Zip:
Attention: PO#

Requested Analysis (see TEST CODE sheet): TCL VOC-8260; TCL SVOC-8270; TAL Metals; Pest/PCB 8081/8082 (TCL); React/Corrosiv./Ignit

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB- Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Bisulfate	TCL VOC-8260	TCL SVOC-8270	TAL Metals	Pest/PCB 8081/8082 (TCL)	React/Corrosiv./Ignit	LAB USE ONLY
-1	FWR-NTWW-1.0-102813		10/28/13	1000	KJS	SOL	2										X	X	X	X	X	
-2	FWR-NTSW-1.0-102813		↓	1010	↓	↓	2										X	X	X	X	X	
-3	FWR-NTEW-1.0-102813			1025			2										X	X	X	X	X	
-4	FWR-STWW-1.5-102813			1050			2										X	X	X	X	X	
-5	FWR-STWW-3.0-102813			1100			2										X	X	X	X	X	
-6	FWR-STWW-4.5-102813			1113			2										X	X	X	X	X	
-7	FWR-STWW-6.0-102813			1122			2										X	X	X	X	X	
-8	FWR-STSW-1.0-102813			1132			2										X	X	X	X	X	
-9	FWR-STEW-1.0-102813			1140			2										X	X	X	X	X	11E,
-10	FWR-STNW-1.0-102813			1150			2										X	X	X	X	X	

Turnaround Time (Business days)
- [ ] Std. 10 Business Days
- [ ] Std. 5 Business Days (By Contract only)
- [ ] 5 Day *RUSH*
- [x] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

RUSH!

Data Deliverable Information
- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] CT RCP
- [ ] MA MCP
- [ ] NYASP Category A
- [x] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	10/28/13 1500	1 FX	2 FX	10/29/13 9:30	2 [signature]
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # ☐ Intact ☐ Not intact	Preserved where applicable ☐	On Ice ☑ Cooler Temp. 1.5°

SYRACUSE SC

5.1
5

MC25720: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC25720 **Client:** WSP **Immediate Client Servic**

Date / Time Received: 10/29/2013 **Delivery Method:** **Client Service Actio**

Project: EMERSON POWER TRANS. **No. Coolers:** 1 **Airbill #'s:**

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation

1. Sample labels present on bottles:
2. Container labeling complete:
3. Sample container label / COC agree:

Sample Integrity - Condition

1. Sample recvd within HT:
2. All containers accounted for:
3. Condition of sample:

Sample Integrity - Instructions

1. Analysis requested is clear:
2. Bottles received for unspecified tests
3. Sufficient volume recvd for analysis:
4. Compositing instructions clear:
5. Filtering instructions clear:

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

MC25720: Chain of Custody
Page 2 of 2

New England ACCUTEST LABORATORIES

12/04/13

Technical Report for

WSP Environmental & Energy

Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY

00003197/00017

Accutest Job Number: MC25845

Sampling Date: 10/31/13

Report to:

WSP Environmental & Energy

kevin.sullivan@wspgroup.com

ATTN: Kevin Sullivan

Total number of pages in report: **17**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Reza Tand
Lab Director

Client Service contact: Frank DAgostino 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

Test results relate only to samples analyzed.

Sections: 1 2 3 4 5

Table of Contents

Sample Summary

WSP Environmental & Energy

Job No: MC25845

Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY
Project No: 00003197/00017

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC25845-1	10/31/13	16:05	KDS	11/01/13	SO	Solid	FWR-ST-SLAB-103113
MC25845-2	10/31/13	16:10	KDS	11/01/13	SO	Solid	FWR-ST-BEAM-103113
MC25845-3	10/31/13	16:20	KDS	11/01/13	SO	Solid	FWR-NT-SLAB-103113
MC25845-4	10/31/13	16:25	KDS	11/01/13	SO	Solid	FWR-NT-BEAM-103113

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: WSP Environmental & Energy **Job No** MC25845

Site: Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY **Report Date** 11/6/2013 2:08:33 PM

4 Sample(s) were collected on 10/31/2013 and were received at Accutest on 11/01/2013 properly preserved, at 2.9 Deg. C and intact. These Samples received an Accutest job number of MC25845. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix SO **Batch ID:** MSM2126

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC25845-1MS, MC25845-1MSD were used as the QC samples indicated.
- All samples analyzed by method SW846 8260C.
- Blank Spike Recovery(s) for Chloromethane are outside control limits. Blank Spike meets program technical requirements.
- MS/MSD Recovery(s) for 2-Butanone (MEK), 2-Hexanone, 4-Methyl-2-pentanone (MIBK), Acetone are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- RPD(s) for MSD for Ethylbenzene, Tetrachloroethene, Xylene (total) are outside control limits for sample MC25845-1MSD. High RPD due to possible matrix interference and/or sample non-homogeneity.

Matrix SO **Batch ID:** MSM2127

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC25845-4MS, MC25845-4MSD were used as the QC samples indicated.
- All samples analyzed by method SW846 8260C.
- Matrix Spike Recovery(s) for 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,2-Dichloroethane, 2-Butanone (MEK), 2-Hexanone, Benzene, Bromodichloromethane, Bromoform, Chlorobenzene, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, Dibromochloromethane, Ethylbenzene, Methylene chloride, Styrene, Tetrachloroethene, Toluene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, Trichloroethene, Xylene (total) are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,2-Dichloroethane, 2-Butanone (MEK), 2-Hexanone, Benzene, Bromodichloromethane, Bromoform, Carbon disulfide, Chlorobenzene, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, Dibromochloromethane, Ethylbenzene, Methylene chloride, Styrene, Tetrachloroethene, Toluene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, Trichloroethene, Xylene (total) are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.

Wet Chemistry By Method SM21 2540 B MOD.

Matrix SO **Batch ID:** GN44945

- Sample(s) MC25540-18RDUP were used as the QC samples for Solids, Percent.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(MC25845).

Summary of Hits

Job Number: MC25845
Account: WSP Environmental & Energy
Project: Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY
Collected: 10/31/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC25845-1	**FWR-ST-SLAB-103113**					
Benzene		1.2	0.58		ug/kg	SW846 8260B
Xylene (total)		4.4	2.3		ug/kg	SW846 8260B
MC25845-2	**FWR-ST-BEAM-103113**					
Benzene		1.1	0.58		ug/kg	SW846 8260B
Methylene chloride		2.4	2.3		ug/kg	SW846 8260B
Xylene (total)		3.7	2.3		ug/kg	SW846 8260B
MC25845-3	**FWR-NT-SLAB-103113**					
Benzene		0.87	0.57		ug/kg	SW846 8260B
Methylene chloride		3.4	2.3		ug/kg	SW846 8260B
Xylene (total)		3.0	2.3		ug/kg	SW846 8260B
MC25845-4	**FWR-NT-BEAM-103113**					
Benzene		0.67	0.55		ug/kg	SW846 8260B
Methylene chloride		6.0	2.2		ug/kg	SW846 8260B
Trichloroethene		12.2	2.2		ug/kg	SW846 8260B

New England ACCUTEST LABORATORIES

4

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	FWR-ST-SLAB-103113		
Lab Sample ID:	MC25845-1	**Date Sampled:**	10/31/13
Matrix:	SO - Solid	**Date Received:**	11/01/13
Method:	SW846 8260B	**Percent Solids:**	91.7
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M61037.D	1	11/05/13	KD	n/a	n/a	MSM2126
Run #2							

	Initial Weight	Final Volume
Run #1	4.70 g	5.0 ml
Run #2		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	12	ug/kg	
71-43-2	Benzene	1.2	0.58	ug/kg	
75-27-4	Bromodichloromethane	ND	2.3	ug/kg	
75-25-2	Bromoform	ND	2.3	ug/kg	
74-83-9	Bromomethane	ND	2.3	ug/kg	
78-93-3	2-Butanone (MEK)	ND	5.8	ug/kg	
75-15-0	Carbon disulfide	ND	5.8	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.3	ug/kg	
108-90-7	Chlorobenzene	ND	2.3	ug/kg	
75-00-3	Chloroethane	ND	5.8	ug/kg	
67-66-3	Chloroform	ND	2.3	ug/kg	
74-87-3	Chloromethane	ND	5.8	ug/kg	
124-48-1	Dibromochloromethane	ND	2.3	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.3	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.3	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.3	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	ug/kg	
100-41-4	Ethylbenzene	ND	2.3	ug/kg	
591-78-6	2-Hexanone	ND	5.8	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.8	ug/kg	
75-09-2	Methylene chloride	ND	2.3	ug/kg	
100-42-5	Styrene	ND	5.8	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	ug/kg	
127-18-4	Tetrachloroethene	ND	2.3	ug/kg	
108-88-3	Toluene	ND	5.8	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.3	ug/kg	
79-01-6	Trichloroethene	ND	2.3	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-ST-SLAB-103113		
Lab Sample ID:	MC25845-1	**Date Sampled:**	10/31/13
Matrix:	SO - Solid	**Date Received:**	11/01/13
Method:	SW846 8260B	**Percent Solids:**	91.7
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.3	ug/kg	
1330-20-7	Xylene (total)	4.4	2.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		70-130%
2037-26-5	Toluene-D8	98%		70-130%
460-00-4	4-Bromofluorobenzene	99%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-ST-BEAM-103113		
Lab Sample ID:	MC25845-2	**Date Sampled:**	10/31/13
Matrix:	SO - Solid	**Date Received:**	11/01/13
Method:	SW846 8260B	**Percent Solids:**	92.0
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M61048.D	1	11/05/13	KD	n/a	n/a	MSM2126
Run #2							

	Initial Weight	Final Volume
Run #1	4.69 g	5.0 ml
Run #2		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	12	ug/kg	
71-43-2	Benzene	1.1	0.58	ug/kg	
75-27-4	Bromodichloromethane	ND	2.3	ug/kg	
75-25-2	Bromoform	ND	2.3	ug/kg	
74-83-9	Bromomethane	ND	2.3	ug/kg	
78-93-3	2-Butanone (MEK)	ND	5.8	ug/kg	
75-15-0	Carbon disulfide	ND	5.8	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.3	ug/kg	
108-90-7	Chlorobenzene	ND	2.3	ug/kg	
75-00-3	Chloroethane	ND	5.8	ug/kg	
67-66-3	Chloroform	ND	2.3	ug/kg	
74-87-3	Chloromethane	ND	5.8	ug/kg	
124-48-1	Dibromochloromethane	ND	2.3	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.3	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.3	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.3	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	ug/kg	
100-41-4	Ethylbenzene	ND	2.3	ug/kg	
591-78-6	2-Hexanone	ND	5.8	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.8	ug/kg	
75-09-2	Methylene chloride	2.4	2.3	ug/kg	
100-42-5	Styrene	ND	5.8	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	ug/kg	
127-18-4	Tetrachloroethene	ND	2.3	ug/kg	
108-88-3	Toluene	ND	5.8	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.3	ug/kg	
79-01-6	Trichloroethene	ND	2.3	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-ST-BEAM-103113		
Lab Sample ID:	MC25845-2	**Date Sampled:**	10/31/13
Matrix:	SO - Solid	**Date Received:**	11/01/13
Method:	SW846 8260B	**Percent Solids:**	92.0
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.3	ug/kg	
1330-20-7	Xylene (total)	3.7	2.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	96%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-NT-SLAB-103113		
Lab Sample ID:	MC25845-3	**Date Sampled:**	10/31/13
Matrix:	SO - Solid	**Date Received:**	11/01/13
Method:	SW846 8260B	**Percent Solids:**	92.0
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M61049.D	1	11/05/13	KD	n/a	n/a	MSM2126
Run #2							

	Initial Weight	Final Volume
Run #1	4.79 g	5.0 ml
Run #2		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	11	ug/kg	
71-43-2	Benzene	0.87	0.57	ug/kg	
75-27-4	Bromodichloromethane	ND	2.3	ug/kg	
75-25-2	Bromoform	ND	2.3	ug/kg	
74-83-9	Bromomethane	ND	2.3	ug/kg	
78-93-3	2-Butanone (MEK)	ND	5.7	ug/kg	
75-15-0	Carbon disulfide	ND	5.7	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.3	ug/kg	
108-90-7	Chlorobenzene	ND	2.3	ug/kg	
75-00-3	Chloroethane	ND	5.7	ug/kg	
67-66-3	Chloroform	ND	2.3	ug/kg	
74-87-3	Chloromethane	ND	5.7	ug/kg	
124-48-1	Dibromochloromethane	ND	2.3	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.3	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.3	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.3	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	ug/kg	
100-41-4	Ethylbenzene	ND	2.3	ug/kg	
591-78-6	2-Hexanone	ND	5.7	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.7	ug/kg	
75-09-2	Methylene chloride	3.4	2.3	ug/kg	
100-42-5	Styrene	ND	5.7	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	ug/kg	
127-18-4	Tetrachloroethene	ND	2.3	ug/kg	
108-88-3	Toluene	ND	5.7	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.3	ug/kg	
79-01-6	Trichloroethene	ND	2.3	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-NT-SLAB-103113		
Lab Sample ID:	MC25845-3	**Date Sampled:**	10/31/13
Matrix:	SO - Solid	**Date Received:**	11/01/13
Method:	SW846 8260B	**Percent Solids:**	92.0
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.3	ug/kg	
1330-20-7	Xylene (total)	3.0	2.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	94%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-NT-BEAM-103113		
Lab Sample ID:	MC25845-4	**Date Sampled:**	10/31/13
Matrix:	SO - Solid	**Date Received:**	11/01/13
Method:	SW846 8260B	**Percent Solids:**	93.2
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M61057.D	1	11/06/13	KD	n/a	n/a	MSM2127
Run #2							

	Initial Weight	Final Volume
Run #1	4.85 g	5.0 ml
Run #2		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	11	ug/kg	
71-43-2	Benzene	0.67	0.55	ug/kg	
75-27-4	Bromodichloromethane	ND	2.2	ug/kg	
75-25-2	Bromoform	ND	2.2	ug/kg	
74-83-9	Bromomethane	ND	2.2	ug/kg	
78-93-3	2-Butanone (MEK)	ND	5.5	ug/kg	
75-15-0	Carbon disulfide	ND	5.5	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.2	ug/kg	
108-90-7	Chlorobenzene	ND	2.2	ug/kg	
75-00-3	Chloroethane	ND	5.5	ug/kg	
67-66-3	Chloroform	ND	2.2	ug/kg	
74-87-3	Chloromethane	ND	5.5	ug/kg	
124-48-1	Dibromochloromethane	ND	2.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.2	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.2	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.2	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.2	ug/kg	
100-41-4	Ethylbenzene	ND	2.2	ug/kg	
591-78-6	2-Hexanone	ND	5.5	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.5	ug/kg	
75-09-2	Methylene chloride	6.0	2.2	ug/kg	
100-42-5	Styrene	ND	5.5	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	ug/kg	
127-18-4	Tetrachloroethene	ND	2.2	ug/kg	
108-88-3	Toluene	ND	5.5	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.2	ug/kg	
79-01-6	Trichloroethene	12.2	2.2	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-NT-BEAM-103113		
Lab Sample ID:	MC25845-4	**Date Sampled:**	10/31/13
Matrix:	SO - Solid	**Date Received:**	11/01/13
Method:	SW846 8260B	**Percent Solids:**	93.2
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	2.2	ug/kg	
1330-20-7	Xylene (total)	ND	2.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	99%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New England ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST LABORATORIES

Accutest Laboratories of New England
495 Technology Center West, Building One
TEL. 508-481-6200 FAX: 508-481-7753
www.accutest.com

PAGE 1 OF 1

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: MC25845

Client / Reporting Information

Company Name: WSP USA Corp.
Street Address: 2360 Sweet Home Rd, #3
City: Amherst State: N.Y. Zip: 14228
Project Contact: Kevin Sullivan E-mail: Kevin.Sullivan@WSPGroup.com
Phone #: (716) 713-8688 Fax #:
Sampler(s) Name(s): Kevin Sullivan Phone #: Same

Project Information

Project Name: Emerson Power Transmission
Street: 620 S. Aurora St.
City: Ithaca, N.Y.
Project#: 3197
Client PO#: 3197
Project Manager: S. Haitz

Billing Information (If different from Report to)

Company Name: See Task Order
Street Address:
City State Zip:
Attention: PO#:

Requested Analysis (see TEST CODE sheet)

TCL VOCs (8260)

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB- Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Bisulfate	LAB USE ONLY
-1	FWR-ST-SLAB-103113		10/01/13	1605	KDS	SOL	1					X					
-2	FWR-ST-BEAM-103113			1610			1					X					
-3	FWR-MT-SLAB-103113			1620			1					X					
-4	FWR-MT-BEAM-103113			1625			1					X					
																	13F

Turnaround Time (Business days)

- [ ] Std. 10 Business Days
- [ ] Std. 5 Business Days (By Contract only)
- [ ] 5 Day *RUSH*
- [X] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

RUSH!

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] CT RCP
- [ ] MA MCP
- [ ] NYASP Category A
- [X] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		10/01/13 1700	FX	FX	11-1-13 930	
2						
3						
4						
5						

Custody Seal # | [ ] Intact [ ] Not intact | Preserved where applicable [ ] | On Ice [X] | Cooler Temp. 2i9c

SYRACUSE SO

MC25845: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC25845 **Client:** WSP **Immediate Client Servic**

Date / Time Received: 11/1/2013 **Delivery Method:** **Client Service Actio**

Project: EMERSON POWER TRANS. **No. Coolers:** 1 **Airbill #'s:**

Cooler Security	Y or N		Y or N
1. Custody Seals Present:	☑ ☐	3. COC Present:	☑ ☐
2. Custody Seals Intact:	☑ ☐	4. Smpl Dates/Time OK	☑ ☐

Cooler Temperature	Y or N
1. Temp criteria achieved:	☑ ☐
2. Cooler temp verification:	Infared gun
3. Cooler media:	Ice (bag)

Quality Control Preservation	Y or N	N/A
1. Trip Blank present / cooler:	☐ ☐	☑
2. Trip Blank listed on COC:	☐ ☐	☑
3. Samples preserved properly:	☑ ☐	
4. VOCs headspace free:	☐ ☐	☑

Sample Integrity - Documentation

1. Sample labels present on bottles:
2. Container labeling complete:
3. Sample container label / COC agree:

Sample Integrity - Condition

1. Sample recvd within HT:
2. All containers accounted for:
3. Condition of sample:

Sample Integrity - Instructions

1. Analysis requested is clear:
2. Bottles received for unspecified tests
3. Sufficient volume recvd for analysis:
4. Compositing instructions clear:
5. Filtering instructions clear:

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

MC25845: Chain of Custody
Page 2 of 2

New England ACCUTEST LABORATORIES

12/04/13

Technical Report for

WSP Environmental & Energy

Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY

00003197/00017

Accutest Job Number: MC26233

Sampling Date: 11/12/13

Report to:

WSP Environmental & Energy

kevin.sullivan@wspgroup.com

ATTN: Kevin Sullivan

Total number of pages in report: **13**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Reza Tand
Lab Director

Client Service contact: Frank DAgostino 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

Sections: 1 2 3 4 5

Table of Contents

-1-

Sample Summary

WSP Environmental & Energy

Job No: MC26233

Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY
Project No: 00003197/00017

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC26233-1	11/12/13	10:05	KDS	11/13/13	SO	Solid	FWR-NT-SLAB1-111213
MC26233-2	11/12/13	10:15	KDS	11/13/13	SO	Solid	FWR-NT-SLAB2-111213

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	WSP Environmental & Energy	**Job No**	MC26233
Site:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY	**Report Date**	11/15/2013 9:13:19 AM

2 Sample(s) were collected on 11/12/2013 and were received at Accutest on 11/13/2013 properly preserved, at 2 Deg. C and intact. These Samples received an Accutest job number of MC26233. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260C

Matrix SO **Batch ID:** MSK2445

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC26233-2MS, MC26233-2MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for 1,1,2,2-Tetrachloroethane, Trichloroethene are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for Carbon disulfide, Trichloroethene, 1,1,2,2-Tetrachloroethane are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- RPD(s) for MSD for 1,1,2,2-Tetrachloroethane are outside control limits for sample MC26233-2MSD. High RPD due to possible matrix interference and/or sample non-homogeneity.
- Continuing calibration check standard MSK2445-CC2427 for 2-hexanone exceed 40% Difference criteria (response bias high). Associated samples are non-detect for this compound.

Wet Chemistry By Method SM21 2540 B MOD.

Matrix SO **Batch ID:** GN45098

- Sample(s) MC26230-3DUP were used as the QC samples for Solids, Percent.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(MC26233).

Summary of Hits

Job Number: MC26233
Account: WSP Environmental & Energy
Project: Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY
Collected: 11/12/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

MC26233-1 FWR-NT-SLAB1-111213

No hits reported in this sample.

MC26233-2 FWR-NT-SLAB2-111213

No hits reported in this sample.

New England ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	FWR-NT-SLAB1-111213		
Lab Sample ID:	MC26233-1	**Date Sampled:**	11/12/13
Matrix:	SO - Solid	**Date Received:**	11/13/13
Method:	SW846 8260C	**Percent Solids:**	94.1
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K76019.D	1	11/13/13	GK	n/a	n/a	MSK2445
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	10.5 g	10.0 ml	100 ul
Run #2			

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	540	ug/kg	
71-43-2	Benzene	ND	27	ug/kg	
75-27-4	Bromodichloromethane	ND	110	ug/kg	
75-25-2	Bromoform	ND	110	ug/kg	
74-83-9	Bromomethane	ND	110	ug/kg	
78-93-3	2-Butanone (MEK)	ND	270	ug/kg	
75-15-0	Carbon disulfide	ND	270	ug/kg	
56-23-5	Carbon tetrachloride	ND	110	ug/kg	
108-90-7	Chlorobenzene	ND	110	ug/kg	
75-00-3	Chloroethane	ND	270	ug/kg	
67-66-3	Chloroform	ND	110	ug/kg	
74-87-3	Chloromethane	ND	270	ug/kg	
124-48-1	Dibromochloromethane	ND	110	ug/kg	
75-34-3	1,1-Dichloroethane	ND	110	ug/kg	
107-06-2	1,2-Dichloroethane	ND	110	ug/kg	
75-35-4	1,1-Dichloroethene	ND	110	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	110	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	110	ug/kg	
78-87-5	1,2-Dichloropropane	ND	110	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	110	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	110	ug/kg	
100-41-4	Ethylbenzene	ND	110	ug/kg	
591-78-6	2-Hexanone	ND	270	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	270	ug/kg	
75-09-2	Methylene chloride	ND	110	ug/kg	
100-42-5	Styrene	ND	270	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	110	ug/kg	
127-18-4	Tetrachloroethene	ND	110	ug/kg	
108-88-3	Toluene	ND	270	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	110	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	110	ug/kg	
79-01-6	Trichloroethene	ND	110	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-NT-SLAB1-111213		
Lab Sample ID:	MC26233-1	**Date Sampled:**	11/12/13
Matrix:	SO - Solid	**Date Received:**	11/13/13
Method:	SW846 8260C	**Percent Solids:**	94.1
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	110	ug/kg	
1330-20-7	Xylene (total)	ND	110	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	119%		70-130%
2037-26-5	Toluene-D8	95%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-NT-SLAB2-111213		
Lab Sample ID:	MC26233-2	**Date Sampled:**	11/12/13
Matrix:	SO - Solid	**Date Received:**	11/13/13
Method:	SW846 8260C	**Percent Solids:**	94.1
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K76020.D	1	11/13/13	GK	n/a	n/a	MSK2445
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	11.1 g	10.0 ml	100 ul
Run #2			

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	510	ug/kg	
71-43-2	Benzene	ND	26	ug/kg	
75-27-4	Bromodichloromethane	ND	100	ug/kg	
75-25-2	Bromoform	ND	100	ug/kg	
74-83-9	Bromomethane	ND	100	ug/kg	
78-93-3	2-Butanone (MEK)	ND	260	ug/kg	
75-15-0	Carbon disulfide	ND	260	ug/kg	
56-23-5	Carbon tetrachloride	ND	100	ug/kg	
108-90-7	Chlorobenzene	ND	100	ug/kg	
75-00-3	Chloroethane	ND	260	ug/kg	
67-66-3	Chloroform	ND	100	ug/kg	
74-87-3	Chloromethane	ND	260	ug/kg	
124-48-1	Dibromochloromethane	ND	100	ug/kg	
75-34-3	1,1-Dichloroethane	ND	100	ug/kg	
107-06-2	1,2-Dichloroethane	ND	100	ug/kg	
75-35-4	1,1-Dichloroethene	ND	100	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	100	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	100	ug/kg	
78-87-5	1,2-Dichloropropane	ND	100	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	100	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	100	ug/kg	
100-41-4	Ethylbenzene	ND	100	ug/kg	
591-78-6	2-Hexanone	ND	260	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	260	ug/kg	
75-09-2	Methylene chloride	ND	100	ug/kg	
100-42-5	Styrene	ND	260	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	ug/kg	
127-18-4	Tetrachloroethene	ND	100	ug/kg	
108-88-3	Toluene	ND	260	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	100	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	100	ug/kg	
79-01-6	Trichloroethene	ND	100	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FWR-NT-SLAB2-111213		
Lab Sample ID:	MC26233-2	**Date Sampled:**	11/12/13
Matrix:	SO - Solid	**Date Received:**	11/13/13
Method:	SW846 8260C	**Percent Solids:**	94.1
Project:	Emerson Power Transmission, 620 South Aurora Street, Ithaca, NY		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	100	ug/kg	
1330-20-7	Xylene (total)	ND	100	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	122%		70-130%
2037-26-5	Toluene-D8	106%		70-130%
460-00-4	4-Bromofluorobenzene	103%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New England ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST LABORATORIES

Accutest Laboratories of New England
495 Technology Center West, Building One
TEL. 508-481-6200 FAX: 508-481-7753
www.accutest.com

PAGE 1 OF 1

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: MC26233

Client / Reporting Information

Company Name: WSP USA Corp.
Street Address: 2360 Sweet Home Rd, #3
City: Amherst State: N.Y. Zip: 14228
Project Contact: Kevin.Sullivan@WSPGroup.com E-mail:
Phone #: 716 713 8688 Fax #:
Sampler(s) Name(s): K. Sullivan Phone #: Same

Project Information

Project Name: Emerson Power Transmission
Street: 620 S. Aurora St.
City: Ithaca, N.Y.
Project#: 3197
Client PO#: 3197
Project Manager: Scott Haitz
Attention: PO#

Billing Information (If different from Report to)

Company Name: Same as
Street Address: Task Order
City State Zip

Requested Analysis (see TEST CODE sheet)

TCL VOCs (8260)

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB- Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Bisulfate	LAB USE ONLY
-1	FWR-NT-SLAB1-111213		11/12/13	1005	KDS	SOL	1					X					X
-2	FWR-NT-SLAB2-111213		11/12/13	1015	KDS	SOL	1					X					X
	Do Not Report 'J' Values																
																	9C,

Turnaround Time (Business days)

- [ ] Std. 10 Business Days
- [ ] Std. 5 Business Days (By Contract only)
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [x] 1 Day *EMERGENCY* ASAP

Emergency & Rush T/A data available VIA Labilink

Approved By (Accutest PM): / Date:

RUSH!

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] CT RCP
- [ ] MA MCP
- [ ] NYASP Category A
- [x] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions

Please Do not Report 'J' Values.

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		11/12/13 1100	FX	FX	11/13/13 9:30	
2						
3						
4						
5						

Custody Seal # | [ ] Intact [ ] Not Intact | Preserved where applicable [ ] | On Ice [x] | Cooler Temp. 2.0°

SYRACUSE SC

5.1 5

MC26233: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC26233 **Client:** WSP **Immediate Client Servic**

Date / Time Received: 11/13/2013 **Delivery Method:** **Client Service Actio**

Project: EMERSON POWER TRANSMISSION **No. Coolers:** 1 **Airbill #'s:**

Cooler Security

	Y or N		Y or N
1. Custody Seals Present:	☑ ☐	3. COC Present:	☑ ☐
2. Custody Seals Intact:	☑ ☐	4. Smpl Dates/Time OK	☑ ☐

Cooler Temperature

	Y or N
1. Temp criteria achieved:	☑ ☐
2. Cooler temp verification:	Infared gun
3. Cooler media:	Ice (bag)

Quality Control Preservation

	Y or N	N/A
1. Trip Blank present / cooler:	☐ ☐	☑
2. Trip Blank listed on COC:	☐ ☐	☑
3. Samples preserved properly:	☑ ☐	
4. VOCs headspace free:	☐ ☐	☑

Sample Integrity - Documentation

1. Sample labels present on bottles:
2. Container labeling complete:
3. Sample container label / COC agree:

Sample Integrity - Condition

1. Sample recvd within HT:
2. All containers accounted for:
3. Condition of sample:

Sample Integrity - Instructions

1. Analysis requested is clear:
2. Bottles received for unspecified tests
3. Sufficient volume recvd for analysis:
4. Compositing instructions clear:
5. Filtering instructions clear:

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

MC26233: Chain of Custody
Page 2 of 2

Enclosure C – Concrete Debris Transportation and Disposal Documents

WASTE MANAGEMENT

High Acres LF
425 Perinton Pkwy
Fairport, NY, 14450
Ph: (585) 223-6132

Original
Ticket# 956982

Customer Name REMEDIATIONSERVICESINC-109215 Carrier mix brothers
Ticket Date 11/13/2013 Vehicle# 149 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0006104
State Waste Code Gen EPA ID
Manifest 001 Grid CELL 10
Destination
PO 1) 21229 2) 21229 3) 21229 4) 21229
Profile 109215NY (CONCRETE FLOOR AND DEBRIS)
Generator 190-EMERSONPOWERTRANSMISSION Emerson Power Transmission

	Time	Scale	Operator	Inbound		
In	11/13/2013 09:44:54	A_Scale_1	JFRUTCHE		Gross	100020 lb
Out	11/13/2013 10:07:17	B_Scale_2	JFRUTCHE		Tare	39660 lb
					Net	60360 lb
					Tons	30.18

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Special Misc-Tons-	100	30.18	Tons				TOM
2	FUEL-Fuel Surcharg	100		%				TOM
3	EVF-P-Standard Env	100		%				TOM
4	RCR-P-Regulatory C	100		%				TOM

Total Fees

Total Ticket

Driver's Signature

404WM

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NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE

GENERATOR

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No. 001	2. Page 1 of

3. Generator's Name and Mailing Address: Emerson Power Transmission Facility, 620 S. Aurora Street, Ithaca, NY 14850

4. Generator's Phone ( ): (703) 709-6500

5. Transporter 1 Company Name: Mix Brothers, Inc. — 6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone: 607-844-8828

7. Transporter 2 Company Name — 8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address: 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 No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non-Hazardous Concrete & Floor Debris	01	DT	30	Tons
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above: Waste Management Profile Approval Number 109215NY

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	Signature	Date: Month	Day	Year
Robert Turner	Robert Turner	11	13	13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date: Month	Day	Year
John Robinson	John Robinson	11	13	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date: Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date: Month	Day	Year
D. Marvin		11	13	13

WASTE MANAGEMENT

High Acres LF
425 Perinton Pkwy
Fairport, NY, 14450
Ph: (585) 223-6132

Original
Ticket# 956936

Customer Name REMEDIATIONSERVICESINC-109215 Carrier mix brothers
Ticket Date 11/13/2013 Vehicle# 155 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0006104
State Waste Code Gen EPA ID
Manifest 002 Grid CELL 10
Destination
PO 1) 21229 2) 21229 3) 21229 4) 21229
Profile 109215NY (CONCRETE FLOOR AND DEBRIS)
Generator 190-EMERSONPOWERTRANSMISSION Emerson Power Transmission

	Time	Scale	Operator		Inbound		
In	11/13/2013 10:18:54	A_Scale_1	JFRUTCHE			Gross	85720 lb
Out	11/13/2013 10:37:49	B_Scale_2	JFRUTCHE			Tare	36440 lb
						Net	49280 lb
						Tons	24.64

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Special Misc-Tons-	100	24.64	Tons				TOM
2	FUEL-Fuel Surcharg	100		%				TOM
3	EVF-P-Standard Env	100		%				TOM
4	RCR-P-Regulatory C	100		%				TOM

Total Fees
Total Ticket

Driver's Signature

404WM

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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. 002

2. Page 1 of

3. Generator's Name and Mailing Address
Emerson Power Transmission Facility
620 S. Aurora Street
Ithaca, NY 14850

4. Generator's Phone ( ) **(703) 709-6500**

5. Transporter 1 Company Name **Mix Brothers, Inc.**

6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone **607-844-8828**

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
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 No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. **Non-Hazardous Concrete & Floor Debris**	**01**	**DT**		**Tons**
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
Waste Management Profile Approval Number 109215NY

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

GENERATOR

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: Robert Turner | Signature | Date: Month 11 Day 13 Year 13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Michael Temple | Signature: Michael Temple TP # 155 | Date: Month 11 Day 13 Year 13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: S. MARVIN | Signature | Date: Month 11 Day 13 Year 13

NON-HAZARDOUS WASTE

WASTE MANAGEMENT

High Acres LF
425 Perinton Pkwy
Fairport, NY, 14450
Ph: (585) 223-6132

Original
Ticket# 957022

Customer Name REMEDIATIONSERVICESINC-109215 Carrier mix brothers
Ticket Date 11/13/2013 Vehicle# 152 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0006104
State Waste Code Gen EPA ID
Manifest 003 Grid CELL 10
Destination
PO 1) 21229 2) 21229 3) 21229 4) 21229
Profile 109215NY (CONCRETE FLOOR AND DEBRIS)
Generator 190-EMERSONPOWERTRANSMISSION Emerson Power Transmission

	Time	Scale	Operator	Inbound		
In	11/13/2013 11:16:27	A_Scale_1	JFRUTCHE		Gross	89560 lb
Out	11/13/2013 11:47:35	B_Scale_2	JFRUTCHE		Tare	35280 lb
					Net	54280 lb
					Tons	27.14

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Special Misc-Tons-	100	27.14	Tons				TOM
2	FUEL-Fuel Surcharg	100		%				TOM
3	EVF-P-Standard Env	100		%				TOM
4	RCR-P-Regulatory C	100		%				TOM

Total Fees

Total Ticket

Driver's Signature Leo

404WM

NON-HAZARDOUS WASTE MANIFEST TK 152

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

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. 003

2. Page 1 of

3. Generator's Name and Mailing Address
Emerson Power Transmission Facility
620 S. Aurora Street
Ithaca, NY 14850

4. Generator's Phone ( ) (703) 709-6500

5. Transporter 1 Company Name
Mix Brothers, Inc.

6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone **607-844-8828**

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
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 No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. **Non-Hazardous Concrete & Floor Debris**	01	DT	30	Tons
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
Waste Management Profile Approval Number 109215NY

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: Robert Turner | Signature | Date: Month 11 Day 13 Year 13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Leo Fawcett | Signature | Date: Month 11 Day 13 Year 13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: MARVIN | Signature | Date: Month 11 Day 13 Year 13

WASTE MANAGEMENT

High Acres LF
425 Perinton Pkwy
Fairport, NY, 14450
Ph: (585) 223-6132

Original
Ticket# 957126

Customer Name REMEDIATIONSERVICESINC-109215 Carrier mix brothers
Ticket Date 11/14/2013 Vehicle# 149 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0006104
State Waste Code Gen EPA ID
Manifest 004 Grid CELL 10
Destination
PO 1) 21229 2) 21229 3) 21229 4) 21229
Profile 109215NY (CONCRETE FLOOR AND DEBRIS)
Generator 190-EMERSONPOWERTRANSMISSION Emerson Power Transmission

	Time	Scale	Operator	Inbound		
In	11/14/2013 07:07:56	A_Scale_1	JFRUTCHE		Gross	103660 lb
Out	11/14/2013 08:08:13	B_Scale_2	JFRUTCHE		Tare	39860 lb
					Net	63800 lb
					Tons	31.90

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Special Misc-Tons-	100	31.90	Tons				TOM
2	FUEL-Fuel Surcharg	100		%				TOM
3	EVF-P-Standard Env	100		%				TOM
4	RCR-P-Regulatory C	100		%				TOM

Total Fees

Total Ticket

Driver's Signature John

404WM

NON-HAZARDOUS WASTE MANIFEST

149

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. 004

2. Page 1 of

3. Generator's Name and Mailing Address
Emerson Power Transmission Facility
620 S. Aurora Street
Ithaca, NY 14850

4. Generator's Phone ( ) (703) 709-6500

5. Transporter 1 Company Name
Mix Brothers, Inc.

6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone 607-844-8828

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
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 No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. **Non-Hazardous Concrete & Floor Debris**	01	DT	30	Tons
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
Waste Management Profile Approval Number 109215NY

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

NON-HAZARDOUS WASTE

GENERATOR

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: Robert Turner | Signature | Date: Month 11 Day 13 Year 13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: John Robinson | Signature | TR# 149 | Date: Month 11 Day 13 Year 13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: Jolene Fruthey | Signature | Date: Month 11 Day 14 Year 13

WASTE MANAGEMENT

High Acres LF
425 Perinton Pkwy
Fairport, NY, 14450
Ph: (585) 223-6132

Original
Ticket# 957123

Customer Name REMEDIATIONSERVICESINC-109215 Carrier mix brothers
Ticket Date 11/14/2013 Vehicle# 155 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0006104
State Waste Code Gen EPA ID
Manifest 005 Grid CELL 10
Destination
PO 1) 21229 2) 21229 3) 21229 4) 21229
Profile 109215NY (CONCRETE FLOOR AND DEBRIS)
Generator 190-EMERSONPOWERTRANSMISSION Emerson Power Transmission

	Time	Scale	Operator	Inbound		
In	11/14/2013 07:05:55	A_Scale_1	JFRUTCHE		Gross	89100 lb
Out	11/14/2013 08:02:33	B_Scale_2	JFRUTCHE		Tare	36880 lb
					Net	52220 lb
					Tons	26.11

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Special Misc-Tons-	100	26.11	Tons				TOM
2	FUEL-Fuel Surcharg	100		%				TOM
3	EVF-P-Standard Env	100		%				TOM
4	RCR-P-Regulatory C	100		%				TOM

Total Fees

Total Ticket

Driver's Signature Mike

404WM

NON-HAZARDOUS WASTE MANIFEST

155

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

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. 005

2. Page 1 of

3. Generator's Name and Mailing Address
Emerson Power Transmission Facility
620 S. Aurora Street
Ithaca, NY 14850

4. Generator's Phone ( ) **(703) 709-6500**

5. Transporter 1 Company Name **Mix Brothers, Inc.**

6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone ~~607-844-8828~~

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
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 No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. **Non-Hazardous Concrete & Floor Debris**	**01**	**DT**		**Tons**
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
Waste Management Profile Approval Number 109215NY

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

GENERATOR

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: Robert Turner — Signature: Robt Turner — Date: Month 11 Day 13 Year 13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Michael Temple — Signature: Michael Temple — Date: Month 11 Day 13 Year 13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: Joline Fruthay — Signature: J. Fruthay — Date: Month 11 Day 14 Year 13

WASTE MANAGEMENT

High Acres LF
425 Perinton Pkwy
Fairport, NY, 14450
Ph: (585) 223-6132

Original
Ticket# 957122

Customer Name REMEDIATIONSERVICESINC-109215 Carrier mix brothers
Ticket Date 11/14/2013 Vehicle# 152 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0006104
State Waste Code Gen EPA ID
Manifest 006 Grid CELL 10
Destination
PO 1) 21229 2) 21229 3) 21229 4) 21229
Profile 109215NY (CONCRETE FLOOR AND DEBRIS)
Generator 190-EMERSONPOWERTRANSMISSION Emerson Power Transmission

	Time	Scale	Operator	Inbound		
In	11/14/2013 07:04:55	A_Scale_1	JFRUTCHE		Gross	88920 lb
Out	11/14/2013 08:01:17	B_Scale_2	JFRUTCHE		Tare	35680 lb
					Net	53240 lb
					Tons	26.62

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Special Misc-Tons- 100		26.62	Tons				TOM
2	FUEL-Fuel Surcharg 100			%				TOM
3	EVF-P-Standard Env 100			%				TOM
4	RCR-P-Regulatory C 100			%				TOM

Total Fees
Total Ticket

Driver's Signature LEO

404WM

NON-HAZARDOUS WASTE MANIFEST 152

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

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. 006

2. Page 1 of

3. Generator's Name and Mailing Address
Emerson Power Transmission Facility
620 S. Aurora Street
Ithaca, NY 14850

4. Generator's Phone ( ) **(703) 709-6500**

5. Transporter 1 Company Name **Mix Brothers, Inc.**

6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone **607-844-8828**

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
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 No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. **Non-Hazardous Concrete & Floor Debris**	01	DT	30	Tons
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

Waste Management Profile Approval Number 109215NY

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

GENERATOR

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: Robert Turner | Signature: Robert Turner | Date: Month 11 Day 13 Year 13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Leo Faucett | Signature: Leo Faucett | Date: Month 11 Day 13 Year 13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: Joline Mustchay | Signature: J. Mustchay | Date: Month 11 Day 14 Year 13

WASTE MANAGEMENT

High Acres LF
425 Perinton Pkwy
Fairport, NY, 14450
Ph: (585) 223-6132

Original
Ticket# 957268

Customer Name REMEDIATIONSERVICESINC-109215 Carrier mix brothers
Ticket Date 11/14/2013 Vehicle# 152 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0006104
State Waste Code Gen EPA ID
Manifest 007 Grid CELL 10
Destination
PO 1) 21229 2) 21229 3) 21229 4) 21229
Profile 109215NY (CONCRETE FLOOR AND DEBRIS)
Generator 190-EMERSONPOWERTRANSMISSION Emerson Power Transmission

	Time	Scale	Operator	Inbound		
In	11/14/2013 13:36:21	A_Scale_1	JFRUTCHE		Gross	89240 lb
Out	11/14/2013 14:07:12	B_Scale_2	JFRUTCHE		Tare	35360 lb
					Net	53880 lb
					Tons	26.94

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Special Misc-Tons-	100	26.94	Tons				TOM
2	FUEL-Fuel Surcharg	100		%				TOM
3	EVF-P-Standard Env	100		%				TOM
4	RCR-P-Regulatory C	100		%				TOM

Total Fees
Total Ticket

Driver's Signature LO

404WM

NON-HAZARDOUS WASTE MANIFEST

152

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. 007

2. Page 1 of

3. Generator's Name and Mailing Address
Emerson Power Transmission Facility
620 S. Aurora Street
Ithaca, NY 14850

4. Generator's Phone ( ) **(703) 709-6500**

5. Transporter 1 Company Name **Mix Brothers, Inc.**

6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone **607-844-8828**

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
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 No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. **Non-Hazardous Concrete & Floor Debris**	01	DT	27	Tons
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
Waste Management Profile Approval Number 109215NY

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

GENERATOR

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: Robert Turner | Signature | Date: Month 11 Day 14 Year 13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Leo Fawcett | Signature | Date: Month 11 Day 14 Year 13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: Jolene Fruteha | Signature | Date: Month 11 Day 14 Year 13

NON-HAZARDOUS WASTE

WASTE MANAGEMENT

High Acres LF
425 Perinton Pkwy
Fairport, NY, 14450
Ph: (585) 223-6132

Original
Ticket# 957347

Customer Name REMEDIATIONSERVICESINC-109215 Carrier mix brothers
Ticket Date 11/15/2013 Vehicle# 149 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0006104
State Waste Code Gen EPA ID
Manifest 009 Grid CELL 10
Destination
PO 1) 21229 2) 21229 3) 21229 4) 21229
Profile 109215NY (CONCRETE FLOOR AND DEBRIS)
Generator 190-EMERSONPOWERTRANSMISSION Emerson Power Transmission

	Time	Scale	Operator	Inbound		
In	11/15/2013 08:12:37	A_Scale_1	JFRUTCHE		Gross	107060 lb
Out	11/15/2013 00:44:40	B_Scale_2	JFRUTCHE		Tare	39700 lb
					Net	67360 lb
					Tons	33.68

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Special Misc-Tons-	100	33.68	Tons				TOM
2	FUEL-Fuel Surcharg	100		%				TOM
3	EVF-P-Standard Env	100		%				TOM
4	RCR-P-Regulatory C	100		%				TOM

Total Fees

Total Ticket

Driver's Signature John

404WM

NON-HAZARDOUS WASTE MANIFEST

149

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. 009

2. Page 1 of

3. Generator's Name and Mailing Address
Emerson Power Transmission Facility
620 S. Aurora Street
Ithaca, NY 14850

4. Generator's Phone ( ) (703) 709-6500

5. Transporter 1 Company Name
Mix Brothers, Inc.

6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone 607-844-8828

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
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 No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non-Hazardous Concrete & Floor Debris	01	DT	30	Tons
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
Waste Management Profile Approval Number 109215NY

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

GENERATOR

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: Robert Turner | Signature | Date: Month 11 Day 14 Year 13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: John Robinson | Signature | Date: Month 11 Day 14 Year 13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: Jolene Fruthey | Signature | Date: Month 11 Day 15 Year 13

NON-HAZARDOUS WASTE

WASTE MANAGEMENT

High Acres LF
425 Perinton Pkwy
Fairport, NY, 14450
Ph: (585) 223-6132

Original
Ticket# 957316

Customer Name REMEDIATIONSERVICESINC-109215 Carrier mix brothers
Ticket Date 11/15/2013 Vehicle# 152 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0006104
State Waste Code Gen EPA ID
Manifest 010 Grid CELL 10
Destination
PO 1) 21229 2) 21229 3) 21229 4) 21229
Profile 109215NY (CONCRETE FLOOR AND DEBRIS)
Generator 190-EMERSONPOWERTRANSMISSION Emerson Power Transmission

	Time	Scale	Operator	Inbound		
In	11/15/2013 07:03:38	A Scale_1	JFRUTCHE		Gross	62980 lb
Out	11/15/2013 07:38:16	B Scale_2	JFRUTCHE		Tare	35620 lb
					Net	27360 lb
					Tons	13.68

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Special Misc-Tons-	100	13.68	Tons				TOM
2	FUEL-Fuel Surcharg	100		%				TOM
3	EVF-P-Standard Env	100		%				TOM
4	RCR-P-Regulatory C	100		%				TOM

Total Fees
Total Ticket

Driver's Signature leo

404WM

NON-HAZARDOUS WASTE MANIFEST

152

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

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. 010

2. Page 1 of

GENERATOR

3. Generator's Name and Mailing Address
Emerson Power Transmission Facility
620 S. Aurora Street
Ithaca, NY 14850

4. Generator's Phone ( ) (703) 709-6500

5. Transporter 1 Company Name
Mix Brothers, Inc.

6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone 607-844-8528

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
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 No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non-Hazardous Concrete & Floor Debris	01	DT	27	Tons
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
Waste Management Profile Approval Number 109215NY

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

TRANSPORTER

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: Robert Turner — Signature: Robt Turner — Date: Month 11 Day 14 Year 13

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Leo Fawcett — Signature: Leo Fawcett — Date: Month 11 Day 14 Year 13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: Jolene Fruthey — Signature: J Fruthey — Date: Month 11 Day 15 Year 13