C&D POWER SYSTEMS (C&D BATTERIES)

HUGUENOT, NEW YORK

SITE No. 336001

OPERABLE UNIT 2

REMEDIAL INVESTIGATION REPORT

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1.0 INTRODUCTION

Pursuant to an Order on Consent (W3-0726-97-11) between C&D Technologies, Inc. (C&D) and the New York State Department of Environmental Conservation (NYSDEC), C&D has implemented a Remedial Investigation (RI) at its facility located in the Village of Huguenot, Orange County, New York (Figure 1). Following review of the initial RI and a draft FS report, the NYSDEC separated the C&D Power Systems (C&D Batteries) Site (Site No. 3-36-001) into two operable units. Operable Unit 2 (OU-2) includes ground water, surface water, sediments and soil (near the former 12" lagoon overflow discharge pipe). The NYSDEC requested that C&D conduct additional investigation to ascertain the extent of contamination, if any, in the media associated with OU-2. This report presents the findings of the OU-2 RI.

1.1 Summary Of OU-1 Lagoon Soil Data

The lagoon surface soil (0-12") PCB aroclor 1254 concentrations ranged from 34 mg/Kg to 1,100 mg/Kg, all of which are above the NYSDEC surface soil Recommended Soil Cleanup Objectives (RSCO) of 1 mg/Kg and the sub-surface RSCO of 10 mg/Kg. Lagoon surface soil cadmium concentrations ranged from 32 mg/Kg to 46,000 mg/Kg, which exceed the RSCO of 10 mg/Kg. Lead and barium concentrations in lagoon surface soils (0-12") ranged from 291 mg/Kg to 6,640 mg/Kg and 1,100 mg/Kg to 4,980 mg/Kg, respectively, which exceed the respective RSCOs (Lead = Site Background; Barium = 300 mg/Kg or Site Background).

The test pit samples demonstrated that barium, cadmium and lead are present in lagoon soils at concentrations above the RSCO at depths up to 12 feet. Data from lagoon soil boring samples collected immediately above the ground water table confirm high cadmium levels at depth (12 feet) in lagoon soils.

Fluoride was consistently detected in each lagoon test pit at concentrations above the levels reported in the shallow (0-12") samples collected along the railroad tracks, which are considered representative of Site background fluoride concentrations (<10.19 to <10.42 mg/Kg). In most test pits elevated fluoride concentrations were detected at depth (12 feet).

The soil boring data demonstrated that PCB concentrations at depth (below 3') in lagoon borings SB-2, SB-5 and SB-6 were below the sub-surface RSCO of 10 mg/Kg. In borings SB-3 and SB-4 concentrations below 3' ranged from 1.2 mg/Kg to 15 mg/Kg (SB-3) and 2.3 mg/Kg to 31 mg/Kg (SB-4). Overall, sub-surface lagoon soil PCB concentrations are not significantly elevated with respect to the sub-surface RSCO. These data indicate that most of the PCBs in the lagoon soil are concentrated in the surface soils.

2.0 OU-2 RI ACTIVITIES

The tasks completed during the OU-2 RI are summarized below:

- Installation and surveying of ground water monitoring wells MW-14, MW-15, MW-16, MW-17 and MW-17A (2003);
- Development and hydraulic conductivity testing of monitoring wells MW-14, MW-15, MW-16, MW-17 and MW-17A (2003);
- Collection and analysis of ground water samples from monitoring wells (2003 and 2005);
- Collection and analysis of six surface water samples from the tributary of the Neversink River (Tributary D-1-7) located east of and adjacent to the Site (2001);
- Collection and analysis of sediment from ten locations from tributary D-1-7 (2001 and 2003;
- Collection and analysis of a soil sample from the former lagoon 12" CMP outfall (2001);
- Collection and analysis of four flood plain sediment samples adjacent to tributary D-1-7 (2003);
- Analysis of a soil sample collected on the west side of tributary D-1-7 (2003); and
- Collection and analysis of samples from the Swartwout Road Residence (2001 and 2003).
- Collection of sub-surface soil samples from lagoon borings within the saturated zone (2005)
- Installation of a monitoring well (MW-18) in the lagoon and collection of a ground water sample (2005)

2.1 Ground Water Monitoring Well Installation

The OU-2 Remedial Investigation included the installation of ground water monitoring wells MW-14, MW-15, MW-16, MW-17,MW-17A and MW-18. Well MW-14 was installed in 2001, wells MW-15, -16, -17 and -17A were installed in 2003 and monitoring well MW-18 was installed in the bottom of the lagoon in 2005.

The location of these ground water monitoring wells is depicted on Drawing No. 1. All monitoring well borings were drilled using nominal 4 1/4-inch inside diameter hollow stem augers. From all five monitoring wells continuous two-foot split spoon samples were collected and inspected/logged by a geologist.

The monitoring wells were constructed of 2-inch ID, No. 10 slot (i.e., 0.010 inch) Schedule-40 PVC well screen, flush-threaded into Schedule-40 PVC riser pipe of the same diameter. The well annulus was filled with Filpro #1 well gravel and a minimum two-foot thick layer of bentonite was placed above the sand pack to provide a seal and portland cement was used to grout the hole to the surface. A protective, locking casing was cemented in place over the PVC well. The boring/monitoring well installation and sub-surface statigraphic descriptions (split spoon inspection) were performed by Alpha Geoscience. Boring logs and well completion logs are provided in Appendix A and B, respectively.

Split spoon samplers and drilling equipment were cleaned prior to and following boring/monitoring well installation. The split spoon samples were cleaned between each use. Drilling equipment and split spoon samplers were cleaned by brushing off visible material and washing with potable water. For monitoring well MW-14, a decontamination pad was constructed to collect the water used during the cleaning of equipment. Water generated during the decontamination was placed in fifty-five gallon drums. Following review of the ground water analytical data, NYSDEC gave permission to discharge the water directly to the ground. For monitoring wells MW-15, MW-16, MW-17, MW-17A and MW-18, dedicated augers were used at each well and no on-site decon was necessary. Water from cleaning the split spoon samplers was discharged to the ground.

2.2 Monitoring Well Development

All monitoring wells were developed prior to in-situ hydraulic conductivity testing and sample collection. The water table was allowed to reach a static level prior to initiating well development. Well development consisted of removing approximately ten well volumes of water from the wells and allowing the wells to recharge for short intervals during bailing.

2.3 In-Situ Hydraulic Conductivity Testing

Hydraulic conductivity (K) or permeability tests were performed on the new monitoring wells to determine the in-situ hydraulic conductivity of the screened hydro-stratigraphic unit. The tests were performed after allowing the water level in the monitoring well to stabilize for two hours following the well development. A pressure transducer was placed in the well to measure the change in the water level during testing. Approximately 2.5 gallons of water was introduced into the wells and the test was run until the water level returned to at least 90% of the static water level. Data from the test was recorded using an In-Situ data logger.

2.4 Ground Water Sample Collection and Analysis

The OU-2 RI included the collection of ground water samples in July 2001, August/September

2003 and April, 2005. Ground water samples were also collected in September 1999 and in January/March 2000 during the OU-1 RI.

In July 2001 ground water samples were collected from cross gradient monitoring wells MW-12 and MW-13, and downgradient wells MW-6, MW-7, MW-8, MW-9, MW-10 and MW-14. In August/September 2003, ground water samples were collected from cross gradient monitoring wells MW-12 and MW-13, and downgradient wells MW-6, MW-7, MW-8, MW-9, MW-10, MW-14, MW-15, MW-16, MW-17 and MW-17A. All samples were analyzed for PCBs, barium, cadmium, fluoride and lead. In July 2001 a sample was also collected from the Swartwout Road residence and analyzed for fluoride and in August 2003 a sample collected from the Swartwout Road residence was analyzed for PCBs, barium, cadmium, fluoride and lead. Samples were analyzed by Adirondack Environmental Services, Inc (AES). Analytical results are summarized in Table 3.

In July 2001, two complete sets of ground water samples were collected from monitoring wells MW-6, MW-7 and MW-14. The first set of samples was collected using a low flow micro-purging procedure as described in this section. The second set of samples was collected after collection of the low flow samples following the procedures in the approved work plan (Earth Tech, April 1999), which consisted of using a Waterra pump with dedicated discharge tubing or bailers. Ground water from downgradient monitoring wells MW-8, MW-9 and MW-10 was analyzed for barium, cadmium and lead on both a total matrix and a sample filtered in the field through a 0.45-micron filter. The August/September 2003 ground water samples were collected using the low flow micro-purging procedure.

Micro-purging consists of a low flow purging of the monitoring well prior to sampling, and collection of a sample at the same low flow rate immediately following purging. The micro-purging/sampling conducted in 2001 and 2003 was performed using a Grundfos Redi-Flo2 submersible pump at a flow rate of approximately 250 milliliters per minute. The micro-purging/sample collection conducted in 2005 was performed using a portable bladder pump with dedicated bladders and tubing.

The pump intake was placed in the bottom half of the screened interval of each monitoring well. Field parameters (pH, conductivity, temperature and turbidity) were monitored during the low flow purging procedure using a flow through cell. When the field parameters stabilized, a sample was collected at the same flow rate.

Dedicated discharge tubing was used for each monitoring well. The pump, wiring and safety cable were decontaminated between locations using the following procedures:

- Exterior wash of pump, wiring and safety cable with non-phosphate detergent;
- Potable water rinse; and
- Pump a minimum of two gallons of distilled/deionized water through the pump.

Micro-purging and low flow sampling minimizes disturbance of stagnant water in the well casing above the screened interval and reduces the potential for mobilization of particulate or colloidal material that could influence analytical results.

2.5 Surface Water Sample Collection and Analysis

In July 2001, surface water samples were collected from tributary D-1-7, located east of and adjacent to the Site. Six samples were collected, one upgradient (SW-1) of the lagoon former overflow discharge (12" CMP), four samples between the 12" CMP and the existing non-contact cooling water outfall and one downgradient of the railroad tracks. The samples were analyzed for PCBs, barium, cadmium, lead and fluoride. Samples were collected following the procedures presented in the approved sampling and analysis plan. Sampling locations were documented by measuring the distance of the sampling location from the existing non-contact cooling water outfall.

2.6 Sediment Sample Collection and Analysis

In July 2001, six surficial sediment samples were collected from tributary D-1-7. Two samples were collected upstream of the 12" CMP, two samples between the 12" CMP and the existing non-contact cooling water outfall and two samples downstream of the railroad tracks. Samples were collected from the surface to a depth of approximately 6" and were analyzed for PCBs, barium, cadmium, lead and fluoride. Four sediment samples were collected in August 1999 as part of the OU-1 RI.

In August/September 2003, sediment samples were collected at four additional locations from tributary D-1-7 and four flood plain sediment samples were collected adjacent to the main channel of the tributary. Two samples were collected at each location, a sample from 0-6" and a sample from 6-12". Samples were analyzed for PCBs, barium, cadmium, fluoride, lead and TOC.

Samples were collected following the procedures detailed in the approved sampling and analysis plan. Sampling locations were documented by measuring the distance of the sampling location from the existing non-contact cooling water outfall.

2.7 Soil Samples

In July 2001, a surface soil sample (top six inches) was collected at the former lagoon 12" CMP outfall. This sample was analyzed for PCBs, barium, cadmium, lead and fluoride. The sample was collected from the surface to a depth of six inches, following removal of the forest duff (leaves, pine needles, etc.). In August 2003 a soil sample was collected on the west side of tributary D-1-7 at one location at depths from 0-6" and 6-12". These two samples were analyzed for PCBs, barium, cadmium, fluoride, lead and TOC.

2.8 Lagoon Saturated Zone Soil Samples

Six soil borings were advanced in the lagoon and two soil borings were advanced adjacent to the lagoon between February 21, 2005 and February 28 2005. A monitoring well (MW-18) was constructed in boring SB-8. Soil samples from both above and below the ground water table were submitted for barium, cadmium and lead analysis. A ground water sample from MW-18 was collected and analyzed for fluoride, barium, cadmium, lead and PCBs. Soil boring logs are provided in Appendix A and the MW-18 well construction log is provided in Appendix B.

3.0 RI RESULTS

3.1 Site Geology and Hydrology

The C&D facility is located in the Neversink River Valley, about four miles northeast of the confluence of the Neversink and Delaware Rivers at the City of Port Jervis. The plant is located on a river terrace approximately 35 feet above the elevation of the Neversink River. The topography on the terrace is relatively flat and the slopes extending to the valley floor are steep.

A small tributary of the Neversink River (Tributary D-1-7) is located on the valley floor just east of the facility. The tributary most likely represents a ground water discharge point over at least a portion of its length, during a significant part of the year. During the drier months, the tributary could potentially be a ground water discharge point and an area of ground water recharge in separate reaches of the stream.

Data from previous soil borings at the Site demonstrated that the soils underlying the facility are predominantly sands and cobbles, with the cobbles becoming more abundant with depth. Coarse deposits of sand, gravel, and small cobbles were encountered at MW-6, MW-12 and MW-13, which were similar to the materials found in borings CD-2 through CD-5 (as presented in the ERM 1982 reports), near the former lagoon. The stratigraphy at well MW-14, located approximately 45 feet east of the lagoon, grades from fine to coarse sand to approximately 10 feet below grade to cobble fragments and brown fine to coarse sand with fine to coarse gravel with cobble down to approximately 14.5 feet. Between 14.5 feet and 40 feet below grade, there is a mixture of fine to coarse sand and gravel with layers of fine sand and silt. The percentage of fine gravel increases with depth.

Wells MW-7 through MW-10 are located on a flat-topped bench about 10 feet below the terrace where wells MW-14 and MW-6 are located. The material underlying wells MW-7 through MW-10 becomes finer grained in a southwesterly direction. The sands and gravels that constitute the stratigraphic column at MW-7 change horizontally into well-sorted, fine sand and silt containing thin clay horizons at MW-10.

Monitoring wells MW 15, MW-16, MW-17 and MW-17A are located east of the Site on or near the valley floor approximately 20 feet below the terrace where wells MW-7 through MW-10 are located. Soils in the vicinity of wells MW-15, MW-16, MW-17 and MW-17A are predominantly fine sands with some silt at the surface grading to medium to coarse sand and fine to coarse gravel at depths between 10 feet and the bottom of the borings at 15 to 20 feet below grade. Soils in the vicinity of well MW-17 appear to exhibit more coarse gravel and cobble than soils at wells MW-15, MW-16 and MW-17A. This most likely accounts for the higher hydraulic conductivity reported at well MW-17. Boring logs and well completion logs are provided in Appendices A and B, respectively.

Hydraulic conductivities for the on-site and off-site monitoring wells are summarized in Table 2. Hydraulic conductivities range from a low of 1.29×10^{-3} cm/sec or 3.66 ft/day (Well MW-15) to a high of 1.32×10^{-1} cm/sec or 375 feet per day (MW-17) with an average of 2.36×10^{-2} cm/sec or

66.8 ft/day. Monitoring wells MW-17 and MW-12 exhibit the highest hydraulic conductivities while wells MW-10, MW-14, MW-15 and MW-17A exhibit the lowest hydraulic conductivities.

A ground water contour map created using ground water elevation data obtained in March 2005 is presented on Drawing No.2. Ground water elevation data for March 30, 2005 are provided in Table 1. The data demonstrate that the ground water flow is to the southeast. Consistent with historical ground water elevation data, the ground water elevation at MW-7 was higher than at MW-6. Historically, this condition appears to be most pronounced during high water conditions. The July 31, 2001, October 24, 2003, and March 30, 2005 MW-7 ground water elevations were higher than the respective MW-14 ground water elevations. Monitoring well MW-14 is located between the lagoon and MW-7. If the lagoon were the cause of the ground water elevations in MW-7 to be higher than in MW-6, then the water level elevations in MW-14 would have to be higher than the MW-7 ground water elevations. The data indicate that the ground water elevation at monitoring well MW-7 is not associated with mounding from the lagoon. Potential causes of the higher ground water elevations at MW-7 are its location near the stream and the springs that discharge into the stream and potential leakage from the non-contact cooling water discharge line that is located near monitoring well MW-7.

The ground water gradient across the Site to tributary D-1-7 has been estimated using the average ground water elevations (Table 1) from monitoring wells MW-13, MW-6, MW-8 and MW-16 and the average hydraulic conductivity from all on-site and off-site monitoring wells. The average ground water gradient across the Site to tributary D-1-7 is 0.0047 ft/ft based on the gradient from MW-13 to MW-6 (0.0059 ft/ft), MW-13 to MW-8 (0.0037) and MW-13 to MW-16 (0.0046). The average hydraulic conductivity (Table 2) is 2.36 x 10^{-2} cm/sec (66.8 ft/day).

Horizontal ground water flow dominates within saturated zones. It is anticipated that vertical flow dominates within unsaturated and tension-saturated zones (Freeze and Cherry, 1979). A horizontal ground water flow velocity was calculated for the unconfined shallow water-bearing zone. The ground water flow velocities were calculated using a version of Darcy's law adjusted to account for effective porosity:

$$V = K\,I/n$$

where:

V	=	ground water flow velocity
K	=	hydraulic conductivity = 2.36×10^{-2} cm/sec (66.8 feet/day)
I	=	hydraulic gradient (the change in head divided by distance) = 0.0047 ft./ft (average across site to the unnamed Tributary of the Neversink River)
n	=	effective porosity = 0.40

Using the preceding formula for ground water flow velocity, the average horizontal ground water flow velocity is 2.8×10^{-4} cm/sec or 0.785 feet/day.

3.2 Ground Water Analytical Results

3.2.1 PCB Data

Ground water analytical results are summarized in Table 3. Laboratory reporting sheets are provided in Appendix D. Data are also summarized in Drawing No.3.

Aroclor 1254 was reported in the March 2000 and July 2001 ground water samples from monitoring wells MW-6 and MW-7 at concentrations above the ground water standard. No PCBs were detected in the most recent (August 2003) ground water samples from wells MW-6 and MW-7.

In July 2001, aroclor 1254 was detected in ground water from monitoring well MW-14 in samples collected using a micro-purging procedure and using a Waterra pump, at concentrations that were above the NYSDEC ground water standard. Aroclor 1254 was reported in August 2003 ground water sample from monitoring well MW-14 at a concentration (0.088 ug/L) slightly below the ground water standard (0.09 ug/L).

In July 2001, ground water samples from wells MW-6, MW-7 and MW-14 were collected using both the micro-purging procedure and a Waterra Inertia pump. The MW-6 aroclor 1254 concentration (0.23 ug/L) in the Waterra pump sample was slightly above the ground water standard, but the micro-purging sample concentration (0.051 ug/L) was less than the ground water standard. The ground water aroclor 1254 concentrations in the micro-purging samples from all three wells (MW-6, MW-7 and MW-14) were significantly lower than the concentrations in the samples collected using the Waterra pump. The field turbidity values for the Waterra pump samples were considerably higher than the micro-purging turbidity values, indicating a higher sediment load in the samples collected with the Waterra pump. The data indicate that to a significant extent, the PCBs are sorbed to sediment material in the samples collected using the Waterra pump and that the micro-purging samples more accurately reflect the actual PCB concentration that can potentially migrate via ground water.

No PCBs were detected at or above the laboratory reporting limit in any samples collected from crossgradient monitoring well MW-13, downgradient monitoring wells MW-8, MW-9, MW-10 or the Swartwout Road residence potable well.

No PCBs were detected above the ground water standard in any sample collected from crossgradient monitoring well MW-12 or the samples collected from downgradient monitoring wells MW-15, MW-16, MW-17 and MW-17A. Aroclor 1254 was detected at an estimated concentration, below the laboratory-reporting limit but above the instrument detection limit in the July 2001 ground water sample from well MW-12. Aroclor 1242 was reported at estimated concentrations below the laboratory-reporting limit but above the instrument detection limit in the September 2003 ground water samples from monitoring wells MW-16, MW-17 and MW-17A and at a concentration above the laboratory reporting limit in the MW-15 ground water sample but below the ground water standard.

The detection of low level PCBs in the 2003 off-site ground water samples and not in the on-site downgradient wells MW-7, MW-8, MW-9 and MW-10 samples, is potentially related to residual colloidal particles from the recent drilling of the off-site wells that became entrained in the ground water samples. The identification of the PCBs in the off-site monitoring well samples as aroclor 1242 and not the aroclor 1254 that is present in the lagoon soils is most likely related to natural degradation of the aroclor 1254.

Ground water PCB results from the most recent sampling event conducted in April 2005 indicated the with the exception of the ground water samples collected from monitoring wells MW-6 and MW-14, PCBs were not detected at or above the laboratory reporting limit in any ground water sample, including the ground water sample collected from MW-18 located in the lagoon. Aroclor 1254 was detected in the MW-6 and MW-14 April 2005 ground water samples at 0.24 ug/L and 0.2 ug/L, respectively, which is above the ground water standard of 0.09 ug/L.

The ground water PCB data from the off-site monitoring wells indicates that the Site has not had an impact on off-site ground water PCB levels. On-site ground water data indicate a limited effect on ground water PCB concentrations.

3.2.2 Metals Data

The most recent ground water samples collected in April 2005 indicate that with the exception of the ground water sample from the MW-18 lagoon monitoring well, all on-site and off-site ground water barium, cadmium and lead concentrations were below the respective ground water standards. Barium and cadmium concentrations in the ground water sample collected from lagoon monitoring well MW-18 were above the respective ground water standards. Lead was not detected in the MW-18 ground water sample at a laboratory reporting limit of 2.9 ug/L.

All barium, cadmium and lead concentrations detected in samples collected in August/September 2003 from on-site and off-site ground water monitoring wells and the Swartwout Road residence potable well were below the respective ground water standards. Cadmium and lead were not detected in any of the groundwater samples collected in August/September 2003.

With the exception of lead in the September 1999 ground water sample from well MW-6 and cadmium in a July 2001 ground water sample from well MW-7, all barium, cadmium and lead ground water sample concentrations from all on-site and off-site monitoring wells and the Swartwout Road residence potable well, were less than the respective ground water standards.

The July 2001 and August/September 2003 ground water data indicate that ground water lead concentrations in monitoring wells downgradient of the lagoon were consistent with concentrations in cross gradient wells MW-12 and MW-13. Data indicate that the lagoon soils have not affected lead concentrations in ground water downgradient of the lagoon.

The cadmium (5.6 ug/L) reported in the July 2001 MW-7 ground water sample collected using the Waterra Inertia pump, was slightly above the ground water standard of 5 ug/L. However, the MW-7 Waterra pump sample had a high turbidity (619 NTUs), which indicates a high sample sediment load. The cadmium concentration in the July 2001 MW-7 ground water sample collected using the micro-purging procedure was 0.47 ug/L, which is below the ground water standard and only slightly above the laboratory reporting limit of 0.2 ug/L. The turbidity in this sample was 23 NTU. The July 2001 MW-6 and MW-14 ground water cadmium concentrations in the micro-purging sample were also lower than cadmium concentration in the samples collected using the Waterra pump procedure, as were the respective turbidity values. Cadmium was not detected at or above the reporting limit in the July 2001 MW-6 and MW-14 ground water samples collected using the micro-purging procedure and was not detected above the laboratory reporting limit in any ground water sample collected in August/September 2003. Ground water data indicate that lagoon soils have not had a significant impact on ground water cadmium concentrations downgradient of the lagoon.

The August/September 2001 ground water barium concentrations (48.5 ug/L to 129 ug/L) reported in the samples from wells MW-10, MW-15, MW-17 , MW-17A and the Swartwout Road residence were higher than the concentrations reported in cross gradient monitoring wells MW-12 and MW-13 (16.4 ug/L to 20.3 ug/L). However, barium concentrations in all ground water samples collected from the on-site and off-site ground water monitoring wells and the Swartwout Road residence were well below the ground water standard (1,000 ug/L).

In summary, the ground water data from the Site show that lagoon soils have not had a significant impact on downgradient ground water barium, cadmium and lead concentrations. The most recent ground water samples (August/September 2003) indicate that barium, cadmium and lead concentrations in all on-site and off-site ground water monitoring wells and the Swartwout Road residence potable well were below the respective ground water standards. Cadmium and lead were not detected in any of the groundwater samples collected in August/September 2003. Ground water barium, cadmium and lead data indicate that the Site has not had a significant impact on the downgradient ground water concentrations of these three metals.

3.2.3 Fluoride Data

Fluoride concentrations in all ground water samples collected from monitoring wells MW-7, MW-8, MW-9, MW-10 and MW-14 were above the NYSDEC ground water standard. The concentration of fluoride detected in the most recent (April 2005) sample collected from these wells is consistent with historical concentrations.

With the exception of the most recent (April 2005) ground water sample, all fluoride concentrations in all samples collected from monitoring well MW-6 were below the NYSDEC ground water standard. The fluoride concentration in the April 2005 ground water sample from MW-6 was higher than the NYSDEC ground water standard.

Consistent with the February 2001 (<400 ug/L Orange County Department of Health) and the July 2001 sample (410 ug/L; Delaware Engineering), the fluoride concentration (710 ug/L) in the August 2003 sample collected from the Swartwout Road residence was well below the NYSDEC ground water standard (1,500 ug/L) and the New York State Department of Health drinking water standard (2,200 ug/L). Data indicate that the fluoride concentration (3,850 ug/L) reported in the February 2000 sample from the Swartwout Road residence potable well is not representative of current ground water conditions.

Fluoride was not been detected in the ground water samples from monitoring well MW-16 and MW-17A at a reporting limit of 100 ug/L. Fluoride was detected in the (2003) ground water sample from monitoring well MW-15 (120 ug/L) at a concentration well below the NYSDEC ground water standard and the NYSDOH drinking water standard. The MW-15 2003 fluoride concentration was consistent with fluoride levels reported in cross gradient monitoring wells MW-12 and MW-13. Fluoride was not detected in the April 2005 ground water sample from monitoring well MW-15 at a reporting limit of 100 ug/L.

Fluoride has been detected in the ground water samples from monitoring well MW-17 (2003;1,800 ug/L: 2005 2,120 ug/L) at concentrations slightly above the NYSDEC ground water standard, but below the NYSDOH drinking water standard. However, as previously noted, fluoride has not been detected in the ground water samples from monitoring well MW-17A, which is located downgradient of well MW-17 and approximately 1,200 feet downgradient of the lagoon. Fluoride was not detected (reporting limit of 200 ug/L) in a sample collected from the Harriet Space Park ladies restroom and was detected at 200 ug/L (i.e., at the reporting limit) in a sample collected from the Town of Deer Park Town Hall. The Town Hall and the Harriet Space Park are located approximately 500 and 1,000 feet, respectively, south of the lagoon. The MW-17A, the Town Hall and the Harriet Space Park samples indicate that the off-site extent of ground water with fluoride concentrations above background is limited and does not extend much beyond monitoring well MW-17.

The fluoride data indicate that the Site has had an impact on ground water fluoride concentrations. However, the off-site ground water data indicate that the downgradient impact is limited in extent. As discussed in Section 4.6, with increasing distance from the lagoon, downgradient ground water fluoride concentrations are expected to rapidly decrease via dispersion.

3.3 Surface Water Analytical Results

Surface water analytical results from tributary D-1-7 located east of the Site are summarized in Table 4 and are depicted on Drawing 4. All surface water sample results for PCBs and cadmium were non-detect at reporting limits of 0.065 ug/L and 0.2 ug/L, respectively. Data indicate that the Site has not had an impact on surface water quality with respect to PCBs and cadmium.

With the exception of sample SW-5, all surface water sample lead results were non-detect at a reporting limit of 2.8 ug/L. Lead was reported in the SW-5 sample at a concentration of 10.4 ug/L, which is below the human health source of drinking water surface water standard (50 ug/L) and the aquatic life acute toxicity standard (28.2 ug/L based on hardness of 32.7 ug/L) but above the aquatic life chronic toxicity standard (1.1 ug/L based on hardness of 32.7 ug/L). However, lead was not detected at or above the reporting limit in sample SW-6, located approximately 140 feet downstream of SW-5 or in sample SW-4 located approximately 60 feet upstream of SW-5. Data indicate that the Site has not had a significant impact on surface water quality with respect to lead.

All surface water sample barium concentrations were well below the surface water standard. All downstream barium concentrations were slightly less than the barium concentration reported in the upstream SW-1 sample. Data indicate that the Site has not had an impact on surface water quality with respect to barium.

Fluoride was not detected at or above the laboratory reporting limit (100 ug/L) in the upstream SW-1 sample or sample SW-2, which was collected approximately 195 feet upstream of the existing non-contact cooling water outfall. Fluoride was detected in samples SW-3, SW-4, SW-5 and SW-6. However, all surface water fluoride concentrations were well below the NYSDEC surface water standard. It is expected that surface water fluoride concentrations would rapidly decrease with increasing distance from the lagoon.

In summary, with the exception of fluoride, the Site has not had an impact on the surface water quality in tributary D-1-7 with respect to the Site-specific chemicals of concern. The effect the Site has had on surface water fluoride concentrations is not significant, as all concentrations were significantly less than the surface water standard. Although the highest fluoride concentration was reported in sample SW-6, which was the most downstream sample collected, surface water fluoride concentrations downstream from SW-6 are expected to rapidly decrease with increasing distance from the lagoon.

3.4 Sediment Analytical Results

The August 1999, July 2001 and September 2003 sediment analytical data from tributary D-1-7 and the September 2003 stream flood plain samples are presented in Table 5. Stream sediment data are depicted in Drawing 5. Sediment sample SED-5 is considered representative of upstream, background conditions.

3.4.1 Metals and Fluoride Data

All downgradient stream and flood plain sediment sample barium concentrations, with the exception of the SED-8 and SED-10 samples, were less than the reported upstream SED-5 barium level. The downstream SED-10 barium concentration (137 mg/kg) was only slightly higher than the upstream SED-5 concentration (97.5 mg/Kg). Barium concentrations in the sediment samples (SED-11 through SED-14) collected downstream of sample SED-10 were consistent with the upstream SED-5 concentration. Data indicate that the Site has not had a significant impact on barium concentrations in the stream or flood plain sediments.

Nine of the thirteen downstream sediment samples collected from 0-6" exhibited lead concentrations that were above the Lowest Effect Level concentration. With the exception of the SED-4 and SED-9 stream sediment samples and the 0-6" samples from stream sediment samples SED-13 and SED-14, which were the furthest downstream samples, all downstream sediment sample lead concentrations were less than the NYSDEC Severe Effect Level. The SED-4 and SED-9 samples were collected at approximately the same location (SED-4 August 1999 and SED-9 July 2001). The lead concentrations in the 6-12" samples from stream sediment samples

SED-13 and SED-14 were well below both the NYSDEC Lowest Effect and the Severe Effect Levels.

The lead concentrations in the 0-6" and 6-12" samples at sediment sample locations SED-11 and SED-12 were less than both the NYSDEC Lowest Effect and Severe Effect Levels. Sample locations SED-11 and SED-12 are located between SED-9 ~~and SED-13.~~ Data indicate that sediments with lead concentrations above the NYSDEC Severe Effect Level are not wide spread and are limited to the top six inches of sediment. 0-6"

The lead concentration in the 0-6" stream flood plain samples from locations FP-1, FP-3 and FP-4 were well below the Severe Effect Level, but were above the Lowest Effect Level. The lead concentration in the 6-12" samples from these three locations and in both the 0-6" and 6-12" samples from location FP-2 were below the Low Effect Level concentration.

The stream sediment and stream flood plain sediment sample lead data indicate that sediment lead concentrations above the NYSDEC Severe Effect Level are sporadic and limited in extent and restricted to the top 0-6". The 0-6" sediment samples from the two most downstream sample locations (SED-13 and SED-14) were above the NYSDEC Severe Effect Level. Sediment lead concentrations above the Lowest Effect Level are more widespread, but are also limited to the top 0-6". Downstream concentrations at eight of the thirteen downstream sampling locations are higher than the upstream SED-5 sediment lead concentration. The stream and flood plain sediment samples indicate that historical site activities have potentially had a limited impact on stream sediment lead concentrations.

All stream and stream flood plain sediment cadmium concentrations were less than the Severe Effects Level criterion for cadmium (9 mg/Kg). Five of the downstream (SED-8, SED-9, SED-10, SED-13 0-6" and SED-14 0-6") sediment cadmium concentrations were above the Low Effects Level criterion (0.6 mg/Kg). The SED-13 (6-12") and SED-14 (6-12") sample cadmium concentrations were below the Lowest Effect Level concentration. Cadmium was not detected in any of the stream flood plain sediment samples. The stream and flood plain sediment data indicate that stream sediments with elevated cadmium concentrations are limited in areal extent and are restricted to the top 0-6".

The NYSDEC metals sediment criteria are derived using an effect based approach. This approach is based on identifying adverse ecological effects that are attributable to metals in sediments and measuring the metal(s) concentrations that caused the adverse effect. The lowest effect level indicates a level of sediment contamination that can be tolerated by the majority of benthic organisms, but still causes toxicity in a few species. Metal concentrations above the Lowest Effects Level, but less than the Severe Effects Level are considered contaminated with moderate impacts to benthic aquatic life. Concentrations above the Severe Effect Level are expected to cause a pronounced disturbance of the sediment benthic aquatic life population. Sixty-nine percent of the downstream 0-6" sediment samples exhibited lead concentrations above the Lowest Effect Level and thirty percent of the samples were above the Severe Effect Level. Fifty-five percent of the downstream 0-6" sediment samples had cadmium concentrations above the Lowest Effect Level. The sediment metals data indicate that the combined lead and cadmium concentrations in the tributary D-1-7 sediments have potentially caused a localized moderate impact on the benthic aquatic community.

Fluoride concentrations in the downstream samples SED-3, SED-7 and SED-8 and to a lesser extent samples SED-4, SED-6 and SED-10, were higher than the upstream SED-5 concentration. The SED-9 sediment fluoride concentration and the fluoride concentration in the sediment samples (SED-11 through SED-14) collected downstream of sample SED-10 were consistent with the upstream SED-5 value. The stream flood plain sediment fluoride concentrations were generally consistent with the upstream SED-5 sediment concentration. The sediment data indicate that the Site has not had a significant impact on stream sediment fluoride concentrations. As noted in Section 3.3, fluoride surface water concentrations were less than the NYSDEC surface water standard for aquatic life chronic toxicity. There is no NYSDEC sediment criterion for fluoride.

In summary, metals data indicate that the Site has not had an impact on stream sediment barium concentrations. The stream sediment and stream flood plain sediment sample lead data indicate that sediment lead concentrations above the NYSDEC Severe Effect Level are limited in extent and restricted to the top 0-6". Sediment lead concentrations above the Low Effect Level are present to a greater extent, but are also limited to the top 0-6". The stream and flood plain sediment samples indicate that historical site activities have potentially had an impact on stream sediment lead concentrations. The stream and flood plain sediment data indicate that stream sediments with elevated cadmium concentrations are limited in areal extent and are restricted to the top 0-6". Sixty-four percent of the sediment samples exhibited lead concentrations above the Lowest Effect Level and twenty-nine percent of the samples were above the Severe Effect Level. Thirty-five percent of the sediment samples had cadmium concentrations above the Lowest Effect Level. The sediment metals data indicate that the combined lead and cadmium concentrations in the tributary D-1-7 sediments have potentially caused a localized moderate impact on the benthic aquatic community. The sediment data indicate that the Site has not had a significant impact on stream sediment fluoride concentrations.

3.4.2 Sediment PCB Data

Sediment PCB analytical data are summarized in Table 5 and presented on Drawing No.5. PCBs were detected in all tributary D-1-7 sediment and flood plain sediment samples, including upstream sample SED-5. Stream sediment concentrations increased from upstream to downstream sample SED-10. PCB concentrations in samples SED-11 through SED-14, collected downstream of SED-10, were lower than the PCB concentration in sample SED-10.

Aroclor 1260 was detected in the upstream SED-5 sediment sample. Aroclor 1260 concentrations in sediment samples SED-7, SED-8, SED-9, SED-10 and SED-13(0-6") were higher than the upstream SED-5 concentration. Data indicate that to some extent, the aroclor 1260 reported in the downstream sediment samples is potentially related to an upstream source.

The NYSDEC sediment criteria define four levels of protection associated with PCB sediment concentrations. These are: human health bioaccumulation, benthic aquatic life acute toxicity, benthic aquatic life chronic toxicity and wildlife bioaccumulation. The human health bioaccumulation is derived to protect humans from the toxic effects of bioaccumulation via consumption of aquatic life from areas with high sediment PCB concentrations. The wildlife bioaccumulation criterion is derived to protect wildlife that prey on aquatic life from the toxic effects of bioaccumulation associated with the consumption of aquatic life from areas with high sediment PCB concentrations.

Human consumption of aquatic life from the stream in the vicinity of the Site, although not considered a significant exposure pathway, does represent a potential exposure pathway. The stream in the vicinity of the Site is generally shallow and vegetated with a dense mat of vegetation, which would make fishing difficult. Most people would concentrate on fishing the nearby Neversink River. However, the tributary D-1-7 is a Class C (T) stream and will support trout. It is possible that fish caught in the Neversink River could utilize the habitat in the stream adjacent to the Site. Therefore, although the stream most likely does not represent a significant sport fishery, the human health bioaccumulation sediment criterion is a potentially valid criterion for this Site. The remaining three criteria are valid. The stream does represent a viable habitat for aquatic life and also is a viable foraging habitat for predators that prey on aquatic species.

The PCB sediment criterion is based on the equilibrium partitioning (EP) methodology. The basis of the EP procedure for deriving sediment criteria assumes the toxicity of sediment is attributable to the fraction of the contaminant that dissolves in the interstitial pore water. The concentration of a contaminant that will dissolve in the interstitial pore water is calculated based on the concentration of the contaminant in the sediment, the concentration of organic carbon in the sediment and the affinity of the contaminant for organic carbon. For the stream sediment and floodplain samples, the PCB sediment criteria values presented in Table 5 were calculated assuming the average total organic carbon from samples SED-11 through SED-14 and FP-1 through FP-4. An example calculation for PCBs is provided below:

1. Average Organic Carbon (OC) Concentration: 2.248 % or 22.48 gOC/Kg (foc)

2. Sediment PCB Benthic Aquatic Life Chronic Toxicity Criteria (SCoc) 19.3 ug/g OC (from NYSDEC "Technical Guidance For Screening Contaminated Sediments")

3. Site Specific Criterion (SC) =

   SC = SCoc x foc
   SC = 19.3 ug/gOC x 22.48 gOC/Kg
   SC = 433.86 ug/Kg = 434 ug/Kg

All downstream sediment sample (0-6" samples) total PCB concentrations were above the human health (0.018 ug/Kg) and wildlife bioaccumulation sediment criterion value (31.5 ug/Kg). The aroclor 1260 concentration in upstream sample SED-5 was above the human health bioaccumulation criteria. Sediment samples SED-9 and SED-10 exhibited total PCB concentrations that were above the aquatic life chronic toxicity criterion. However, all PCB sediment sample results were less than the aquatic life acute toxicity criterion. not immediately lethal

Two samples, 0-6" and 6-12" were collected at sediment sample locations SED-11 through SED-14. PCBs were not detected in the 6-12" samples at locations SED-11, SED-12 and SED-13. At location SED-14, aroclor 1254 and aroclor 1260 were reported in the 0-6" and 6-12" samples, respectively. The SED-14 (6-12") aroclor 1254 concentration was higher than the aroclor 1260 concentration reported in the 0-6" sample.

Aroclor 1260 was reported in the FP-1: 0-6" and 6-12" samples, the FP-2: 0-6" sample and the FP-3: 6-12" sample. Aroclor 1254 was reported in the FP-4 0-6" sample. No PCBs were detected in the 6-12" samples at the FP-2 and FP-4 locations or in the 0-6" sample at the FP-3 location. All flood plain sediment sample PCB concentrations were above the human health bioaccumulation criteria. Only sample FP-4 exhibited a PCB concentration that was above the wildlife bioaccumulation value. All flood plain concentrations were below the aquatic life chronic and acute toxicity criteria values.

The PCB aroclor identified in the lagoon soil samples was aroclor 1254. A significant percentage of the PCBs identified in the tributary D-1-7 stream and flood plain sediment samples was aroclor 1260. Aroclor 1260 was detected in the upstream SED-5 sediment sample and aroclor 1254 would not naturally degrade to aroclor 1260. Data indicate that the aroclor 1260 reported in the stream sediment and flood plain samples is potentially related to an upstream source and not lagoon soils.

Only nine percent (two of twenty-two) of the sediment samples (stream and flood plain) exhibited PCB concentrations above the Site-specific aquatic life chronic toxicity value. All sediment samples were below the aquatic life acute toxicity value. Data indicate that sediment PCB concentrations have most likely only had a minor effect on sediment benthic populations. The highest sediment sample total PCB concentrations reported in the stream (SED-9; 1,070 ug/Kg, SED-10; 1,470 ug/Kg) were only slightly above 1,000 ug/Kg, which has been used as a cleanup guideline for PCB sediment cleanup projects in New York State. All other stream sediment and flood plain sediment concentrations were well below 1,000 ug/Kg.

3.5 Soil Sample Analytical Data

3.5.1 Former Lagoon Overflow Discharge Pipe Soil Sample

Analytical data for the surface soil sample (SSCMP) collected at the end of the 12" corrugated metal pipe (CMP) that was the overflow for the former lagoon are summarized in Table 6. Cadmium was not detected at or above the laboratory-reporting limit of 0.042 mg/Kg. Barium was detected at a concentration (33.7 mg/Kg) that was above the site-specific background concentration (15.2 mg/Kg) but was well below the NYSDEC Recommended Soil Cleanup Objective (RSCO) of 300 mg/Kg and well below the natural background range of barium in typical eastern United States soils (15 mg/Kg to 600 mg/Kg). Lead was reported at a concentration (20.8 mg/Kg) that was above the site-specific background concentration (10.9 mg/Kg). However, the reported concentration was well below the USEPA (Identification of Dangerous Levels of Lead; 40 CFR Part 745) exposure hazard concentration in bare soil in children's play areas of 400 mg/Kg. Data indicate that the Site has not had an impact on soils in the vicinity of the former lagoon overflow with respect to barium, cadmium or lead.

Fluoride was not detected at or above the laboratory reporting limit (2.1 mg/kg) in the CMP overflow soil sample. Data indicate that the Site has not had an impact on soils in the vicinity of the former lagoon overflow with respect to fluoride.

PCB aroclor 1260 was detected in the overflow soil sample at a concentration of 130 ug/Kg, which is well below the NYSDEC surface soil RSCO of 1,000 ug/Kg. Data indicate that soils in the vicinity of the former lagoon overflow have not been significantly impacted with respect to PCBs.

Analytical data from the surface soil sample collected at the end of the overflow CMP from the former lagoon indicate that the Site has not had a significant impact on soil quality in the vicinity of the overflow CMP.

3.5.2 Off-Site Swartwout Property Soil Sample

Analytical results for the soil sample (FS-1) collected on the west side of tributary D-1-7 on the Swartwout property are provided in Table 6. Cadmium and fluoride were not detected in either the 0-6" or 6-12" sample.

Barium concentrations in both the 0-6" (100 mg/Kg) and 6-12" (99.5 mg/Kg) sample were above the site background (15.2 mg/Kg), but were well within the typical range for eastern U.S. soils (15 mg/Kg to 600 mg/Kg) and below the upper NYSDEC RSCO (300 mg/Kg). Soil barium concentrations in the vicinity of sample FS-1 do not represent a threat to public health or the environment. Lead concentrations in both the 0-6" (39.2 mg/Kg) and 6-12" (14.4 mg/Kg) soil sample were consistent with typical lead concentrations in rural soils (4-61 mg/Kg). PCB aroclor 1260 was detected at low estimated concentrations in both the 0-6" (26 ug/Kg) and the 6-12" (10 ug/kg) samples at location FS-1. Concentrations were well below the NYSDEC RSCO for surface soils (1,000 ug/Kg). Data from sample FS-1 indicate that soils adjacent to the stream have not been significantly affected by Site related chemicals.

3.6 2005 Lagoon Soil Boring Data

Analytical results for the lagoon sub-surface soil samples collected from the borings advanced in February 2005 are summarized in Table 7. Soil boring locations are depicted in Figure 8.

Analytical results from the two soil borings (SB-6-05, SB-4-05) advanced outside the lagoon indicate that soils in the saturated zone downgradient and outside the lagoon do not exhibit significant barium, cadmium or lead contamination. Soil sample results from boring SB-6-05 indicate that barium, cadmium and lead soil concentrations from approximately 1.2' above the ground water table to approximately 8.8' below the ground water table were less than the respective NYSDEC Recommended Soil Cleanup Objectives (RSCOs). The data from boring SB-4-05 reveal that barium and cadmium concentrations between approximately 2' below the ground water table and 6' below the ground water table were slightly above the respective RSCOs. The lead concentration in the SB-4-05 sample between approximately 2' to 4' below the ground water table was slightly above the site background lead level.

Soil sample results from the borings within the lagoon indicate that barium, cadmium and lead concentrations in the SB-1-05, SB-2-05, SB-3-05, SB-5-05 and SB-7-05 borings were higher than the respective RSCOs in the deepest samples from each boring and were generally above the respective RSCOs in all samples from each of these borings. Cadmium concentrations in the three deepest samples from boring SB-8-05 were above the RSCO.

The cadmium results from boring SB-5-05 (two samples below the ground water table and two above the ground water table), the SB-1-05 (0'-0.6' BGW) sample and the SB-2-05 (+2'-0' BGW) sample were above the TCLP regulatory limit. All other soil boring sample barium, cadmium and lead concentrations were below the respective TCLP regulatory limits.

Although the soil boring samples exhibit barium, cadmium and lead concentrations above the NYSDEC RSCO and a limited number of samples exhibit cadmium concentrations above the TCLP regulatory limit, ground water data indicates that lagoon soils have not had a significant impact on barium, cadmium and lead concentrations in ground water downgradient of the lagoon.

4.0 FATE AND TRANSPORT

The site-specific parameters of concern are barium, cadmium, lead, PCBs and fluoride. However, the data presented in the preceding sections indicate that fluoride was the only analyte consistently detected above the ground water standard in the downgradient monitoring wells. Fluoride was detected in six (MW-7, MW-8, MW-9, MW-10, MW-14, MW-17) of the ten downgradient monitoring wells at concentrations exceeding the NYSDEC ground water standard (1.5 mg/L). In July 2001, ground water from downgradient monitoring wells MW-7 and MW-14 exhibited PCB concentrations that were above the ground water standard. However, PCBs were not detected above the ground water standard in any ground water sample collected during the most recent monitoring event (August/September 2003).

In surface water, only one downstream sample contained lead at a concentration above the aquatic life chronic toxicity surface water standard. Fluoride concentrations were below the surface water standard.

Sediment sample data indicate that any impact the Site may potentially have had on sediment metals and fluoride concentrations is limited. Sediment PCB data indicate that downstream sediment PCB concentrations were above the human health and wildlife bioaccumulation criterion and at two of nine downstream sampling locations (total 13 samples) sediment sample PCB levels were above the aquatic life chronic toxicity value.

This section discusses the fate and transport characteristics of the compounds of concern in the various Site media. Fate and transport is controlled by the physical/chemical characteristics of the compounds (i.e., water solubility, oxidation state, etc.), by advection, dispersion, chemical diffusion, retardation and the physical characteristics of the Site, including but not limited to ground water flow rates and direction, sub-surface soil types, soil permeability, organic carbon content, and cultural features (drainage patterns, etc.).

4.1 Hydraulic Conductivity

Hydraulic conductivities for the on-site and off-site monitoring wells are presented in Table 2. Hydraulic conductivities range from a low of 1.29×10^{-3} cm/sec or 3.66 ft/day (Well MW-15) to a high of 1.32×10^{-1} cm/sec or 375 feet per day (MW-17) with an average of 2.36×10^{-2} cm/sec or 66.8 ft/day. Monitoring wells MW-17 and MW-12 exhibit the highest hydraulic conductivities while wells MW-10, MW-14, MW-15 and MW-17A exhibit the lowest hydraulic conductivities.

4.2 Ground water Gradients and Flow Direction

Based on the findings of the Hydrogeologic Assessments performed by ERM (1982), it was determined that both the former lagoon and the stream east of the Site have had an influence on the hydraulics of the Site. Currently, however, the primary influence is from the stream, which flows east of the lagoon. Consequently, ground water flow at the Site is toward the stream, with the water table sloping toward the stream and the ground water gradient increasing as the stream is approached. The stream most likely represents a ground water discharge point during a significant part of the year. During the drier months, the stream could potentially be a ground water discharge point and a ground water recharge area in separate reaches of the stream. The average ground water gradient across the Site to tributary D-1-7 is 0.0047 ft/ft based on the gradient from MW-13 to MW-6 (0.0059 ft/ft), MW-13 to MW-8 (0.0037) and MW-13 to MW-16 (0.0046).

During the period when discharges were made to the lagoon a ground water mound formed immediately adjacent to and beneath the lagoon. This mounding resulted in steepened ground water gradients in the downgradient directions from the lagoon, producing a limited radial pattern of flow from the lagoon. This flow pattern may account for the detection of lead above the ground water standard in one of the MW-6 ground water samples and PCBs in two of the MW-6 ground water samples.

The detection of lead and aroclor 1254 in ground water from monitoring well MW-6, but not high fluoride concentrations is enigmatic. Fluoride is considerably more mobile in the environment than either lead or aroclor 1254, and fluoride has been detected at elevated concentrations in ground water from monitoring wells MW-7, MW-8, MW-9, MW-10, MW-14 and MW-17. Lead has not been detected above the ground water standard in these wells and PCBs have not been detected above the ground water standard in monitoring wells MW-8, MW-9 or MW-10.

The historical mounding from the lagoon created a direct flow path from the lagoon to monitoring well MW-6. Lead and aroclor 1254 may have migrated along the ground water table via sorption to colloids and soil particles, which remain within the influence of monitoring well MW-6. Currently, monitoring well MW-6 appears to be primarily located cross gradient of the lagoon, without a direct flow path and therefore MW-6 ground water fluoride concentrations are below the ground water standard.

4.3 Water Solubility

Water solubility is the degree to which a compound dissolves in water. Water solubility is useful in estimating contaminant fate and transport and is directly related to sorption, which is discussed in the following section. Highly water-soluble compounds tend to weakly sorb to soils and sediments, and subsequently leach from the soils/sediments rapidly. Highly water-soluble compounds also tend to be less volatile and more readily biodegradable than less water-soluble constituents. Water solubility is influenced by several environmental parameters, including temperature and pH.

The water solubility of the PCB Aroclor 1254 is 3.1×10^{-2} mg/l, indicating that it is a relatively insoluble compound. Fluoride salts are generally highly soluble. The water solubility of barium, cadmium and lead depend on the oxidation states of the metals. The low solubility of PCBs would tend to minimize the migration of PCBs from impacted soils to ground water and surface water. Conversely, the high solubility of fluoride could potentially result in the migration of fluoride to ground water and surface water from contaminated soils.

4.4 Organic Carbon Partition Coefficients (K_{oc}) and Chemical Retardation

The organic carbon partition coefficient (K_{oc}) provides a measure of how an organic compound will partition between the organic carbon fraction of a soil or sediment and the water surrounding the soil/sediment. Typically, almost all of the adsorption of organic chemicals by a soil or sediment is due to the organic carbon content of the soil. Chemicals with high values of K_{oc} tend to sorb strongly to the organic carbon fraction of the soil, and consequently, have less of a tendency to migrate into the surrounding ground or surface water. Chemicals with low values of K_{oc} tend to sorb weakly to the organic carbon fraction of the soil, and consequently, have the potential to migrate into the ground or surface water. K_{oc} is chemical-specific, largely independent of soil properties, and ranges in value from 1 to 10^7. K_{oc} can be related to water solubility (S) by the following relationship:

$$\text{Log } K_{oc} = -0.54 \log S + 0.44$$

PCBs are the only organic compound of concern at the Site, and were found at the highest concentrations in the top one to two feet of soil in the former lagoon. The top six to twelve inches of soil in the lagoon is a highly organic black loam. The K_{oc} of PCB compounds is approximately $5.3\text{x}10^{+5}$ ml/g, which indicates that it will tend to sorb strongly to the organic carbon fraction of the soil, and subsequently, have less of a tendency to migrate into the surrounding ground or surface water. The ground water and surface water PCB data confirm this generally non-migratory behavior. Ground water PCB concentrations above the ground water standard were limited to three monitoring wells (MW-6, MW-7, MW-14) and all ground water PCB concentrations were below the New York State Department of Health drinking water standard (0.5 ug/L). PCBs were not detected in any of the surface water samples collected from the stream located east of the Site.

Although the data indicate that PCBs are relatively insoluble and strongly sorb to organic matter any insignificant quantity that would dissolve in ground water would migrate along the ground water table. However, sorption of chemicals to soil organic matter will retard the movement of dissolved phase chemicals (Vs) relative to the rate of ground water flow (V) and the ratio is defined as the retardation factor. The retardation factor can be calculated via the following formula:

$R = V/Vs = 1 + K_d\,(d_b/n)$ and
$K_d = Koc$ x Organic Carbon Content (OC milligrams organic carbon/milligram of soil)

Where K_d is the partition coefficient (cm^3/g), d_b is the bulk density (g/cm^3) and n is the porosity.

Barium, cadmium, lead, and fluoride are not organic compounds and are not discussed in terms of K_{oc}. Metals sorbtion is typically discussed in terms of the adsorption (or distribution) coefficient (K_d). Inorganic anion (fluoride) mobility in soils is generally related to solubility and charged particle interactions.

The adsorption coefficient is defined as the ratio of the concentration of the compound adsorbed on the soil surface to the equilibrium concentration of the compound in the surrounding water. Adsorption coefficients for the Site-specific metals of concern are presented below.

ELEMENT	ADSORPTION COEFFICIENT	SORPTION TENDENCY
*Barium	Not Available	Weakly-to-Moderately Sorbed
Cadmium	1.3 – 27	Weakly Sorbed
Lead	4.5 – 7,640	Weakly-to-Moderately Sorbed

* Weakly-to-Moderately sorbed based on data from Dragun (1988).

Cadmium has a K_d in the range of 1.3 – 27 ml/g, which suggests it sorbs weakly to soil organic matter. Barium and lead sorb weakly-to-moderately to soil organic matter.

Cadmium was only detected above the ground water standard in one total matrix ground water sample and was not detected in any surface water sample. Therefore, since cadmium tends to sorb weakly to soil, the cadmium in the lagoon soils is most likely present in an insoluble form.

The lead and barium detected in the lagoon soils are most likely present in either an insoluble form or sorbed to the soil, since these metals tend to sorb to soils weakly-to-moderately. Lead was detected above the ground water standard only in the September 1999 total matrix ground water sample from monitoring well (MW-6). Lead was not detected in the MW-6 September 1999 field-filtered ground water sample, or in the July 2001 and August 2003 MW-6 ground water samples. The September 1999 total matrix ground water sample was collected using a Waterra Inertia pump by purging three well volumes prior to sample collection. This high volume purging/sampling method can result in the inclusion of otherwise immobile soil particles, which can produce analytical results that over estimate the concentration of metals and hydrophobic organic compounds. The low flow micropurging procedure used to collect the July 2001 and August 2003 MW-6 ground water samples minimizes disturbance of stagnant water in the well casing above the screened interval and reduces the potential for entrainment of particulate or colloidal material into the sample that could result in an overestimate of the concentration of metals and hydrophobic organic compounds.

Barium was not detected above the ground water standard in any ground water sample. Lead was detected above the laboratory reporting limit in only one surface water sample collected from the stream east of the Site and the downstream barium concentrations were consistent with the upstream concentration.

Fluoride is an anion and in general anions are not strongly sorbed to soil particles. Most soils in the northeast contain a significantly greater number of negative surface charges than positive surface charges. Since fluoride is an anion with a net negative charge, repulsion between the soil particles and fluoride will occur. This results in fluoride being mobile in ground water. Results of ground water sampling confirm this assumption, since fluoride was detected at elevated concentrations in both the filtered and unfiltered samples.

4.5 Advection, Dispersion and Diffusion

Advection is the term used to describe movement of a chemical via ground water flow due to flowing ground water. Via advection, non-reactive solutes are carried at an average rate equal to the average linear velocity of water. Based on the mean horizontal hydraulic conductivity of 2.36×10^{-2} cm/sec (66.8 feet/day) and an estimated effective porosity of forty (40) percent, a net horizontal ground water flow velocity of 2.8×10^{-4} cm/sec (0.785 feet/day) was estimated. Based on a ground water flow velocity of 0.785 feet/day, it would take approximately 1 year for ground water from the lagoon to reach monitoring well MW-7.

However, as discussed in Section 4.4, other factors such as chemical retardation will affect the movement of a solute or chemical in ground water. Hydrodynamic dispersion is the process whereby a solute or chemical spreads in directions that are longitudinal and transverse to the direction of plume migration. Longitudinal dispersion is generally considered an order of magnitude larger than transverse dispersion. Dispersion causes dilution of the chemical. With dispersion some chemicals travel faster and some slower than the mean ground water velocity. As a result of dispersion, the solute front travels at a rate that is faster than would be predicted based solely on the average linear velocity of the ground water. The overall result of dispersion is the spreading and mixing of the contaminant plume with uncontaminated ground water.

Hydrodynamic dispersion is a function of mechanical and molecular diffusion. Mechanical dispersion is the dominant mechanism of dispersion at normal ground water velocities. Generally, molecular diffusion is only important at very low velocities. Mechanical dispersion is mixing that occurs as a result of local variations in velocity around some mean flow rate. The main cause of variations of both rate and direction of transport velocities is the heterogeneity of the porous aquifer medium. Mechanical dispersion is defined by the following relationship

$$\text{Mechanical Dispersion (D)} = a_x v_x$$

a_x = dispersivity (Length)
v_x = average linear ground water velocity (length/time)

Mechanical dispersion has two components of flow, longitudinal dispersion and transverse dispersion (both horizontal and vertical). Longitudinal dispersion is the spreading of a solute in a direction parallel to the direction of ground water flow. On a microscopic scale longitudinal dispersion is caused by velocity changes due to variations in pore size, friction in the pore throat and tortuosity. Transverse dispersion at the microscopic scale is associated with the tortuosity of the porous medium. At the macroscopic scale dispersion is caused by stratification characteristics, including changes in unit geometry and discontinuous units, and permeability characteristics such as non-uniform permeability.

Dispersion is considered related to the scale. As the scale of the plume or the system being studied increases, the dispersivity will also increase. One approach to estimating longitudinal dispersivity is to assume that the longitudinal dispersivity is 0.1 times the plume length and that transverse dispersivity is 0.1 times the longitudinal dispersivity.

In the following section, a three dimensional ground water solute transport model is used to predict ground water fluoride concentrations downgradient of the Site. This model incorporates the parameters discussed in the preceding sections, retardation, advection and dispersion.

4.6 Ground Water Chemical Modeling

The relatively low concentrations of PCBs, barium, cadmium and lead near the lagoon and the tendency for PCBs to sorb to organic matter would be expected to result in a rapid decrease in the downgradient ground water concentrations of these parameters as the distance from the lagoon increases. This is supported by the ground water results from the Swartwout Road residence well samples and data from the off-site ground water monitoring well. Cadmium and lead were not detected at or above the laboratory-reporting limit in the Swartwout Road residence well or the off-site ground water monitoring wells. Barium and PCB concentrations in the off-site wells were well below the ground water standard.

However, fluoride is a non-reactive anion and the high concentrations downgradient of the lagoon indicate a potential for migration of fluoride away from the lagoon.

SOLUTRANS has been used to predict ground water fluoride concentrations downgradient of the lagoon. SOLUTRANS is a three dimensional equilibrium and non-equilibrium ground water solute transport model that uses analytic solutions. The solutions in SOLUTRANS assume a uniform one-dimensional flow field and allow three dimensional dispersion, retardation and first-order decay.

The model was calibrated to the existing ground water fluoride concentrations at the Site by adjusting model parameters until predicted concentrations reflected actual ground water fluoride concentrations reported in ground water samples from monitoring wells MW-7, MW-8, MW-9 and MW-10. These wells are located approximately 260 feet downgradient of the lagoon on a line drawn perpendicular to the ground water flow direction. For the calibration longitudinal dispersivity was estimated at 0.1 times the plume length (260 feet x 0.1 =26 feet) and transverse dispersivity was estimated at 0.1 times the longitudinal dispersivity. The longitudinal dispersion coefficient was calculated by multiplying the longitudinal dispersivity (26 feet) by the average linear ground water flow rate (0.785 feet/day) and the transverse dispersion coefficient is 2.6 feet times 0.785 feet/day. The model was conservatively calibrated to assume a steady state source or a source with a constant concentration of contaminant over time.

The size of the source and the source concentration were manipulated to calibrate the model to measured fluoride concentrations in monitoring wells MW-7 through MW-10. A graph of the fluoride calibration is provided in Figure 2 and the model input parameters are presented in Table 8. The graph presents ground water fluoride concentrations at a point 260 feet downgradient of the center of the lagoon and at varying distances from the center of the plume. Concentration is provided on the Y-axis and the X-axis (Y coordinate) represents distances from the center of the plume 260 feet downgradient of the lagoon. Approximate locations of the MW-7, MW-8, MW-9 and MW-10 monitoring wells are shown on the graph.

The measured ground water monitoring well sample fluoride concentrations and the calibrated model predicted concentrations are summarized below:

Monitoring Well	Measured Concentration Range mg/L	Calibrated Model Predicted Fluoride Concentration mg/L
MW-7	7.87 – 10.9	7.5
MW-8	5.35 – 6.56	7.5
MW-9	6.2 – 6.52	7.5
MW-10	3.16 – 5.53	7.5

The data provided in Figure 2 and the preceding table indicates that the calibrated model slightly overestimates the ground water fluoride concentrations at monitoring wells MW-8, MW-9 and MW-10 and slightly underestimates the fluoride concentration at MW-7. The model is considered sufficient to provide an indication of approximate downgradient ground water fluoride concentrations.

Graphs of predicted downgradient fluoride concentrations at monitoring wells MW-15, MW-16, MW-17 and MW-17A are provided in Figures 3 through 6, respectively. The graphs predict concentrations at the specific distance the monitoring well is located downgradient of the lagoon with distance from the centerline of the plume as a variable (Y-axis of graph). With the exception of the dispersion coefficients, the model parameters were the same as for the calibration. The dispersion coefficients varied with the distance downgradient from the center of the lagoon (plume length).

The model-predicted fluoride concentration (2.9 mg/L) at monitoring well MW-16 significantly over estimates the actual measured concentration (<0.1 mg/L). At monitoring well MW-15, the model slightly under estimates the fluoride concentration: estimated concentration 0.05 mg/L, actual measured concentration was 0.12 mg/L. The model-predicted fluoride concentration (0.45 mg/L) at monitoring well MW-17 is below the actual measured concentration (1.8 mg/L). However, at monitoring well MW-17A, which is located downgradient of MW-17, the model-predicted fluoride concentration (0.6mg/L) is higher than the actual measured concentration (<0.1 mg/L). Comparison of the model data to the actual fluoride concentrations in wells MW-16, MW-17 and MW-17A indicates that actual centerline of the ground water fluoride plume may be closer to monitoring well MW-17 than MW-16. The model centerline of the plume was estimated based on the October 2003 ground water contour map. This estimation indicated that monitoring well MW-16 is located at a point approximately 100 feet northeast of the centerline and that monitoring well MW-17 is located approximately 410 feet southwest of the centerline.

Although the predicted fluoride concentrations at monitoring wells MW-15, MW-16, MW-17 and MW-17A vary from the actual concentrations, the data indicate that the model can be used to provide an approximate estimation of ground water fluoride concentrations downgradient of the lagoon. Figure 7 depicts estimated fluoride concentrations at a distance of 1,500 feet downgradient of the lagoon. The model suggests that fluoride concentrations are below the ground water standard at a distance of 1,500 feet downgradient of the lagoon.

The model conservatively assumes a constant steady state concentration of fluoride in the source area. Since part of the selected remedy for the lagoon soils (OU-1) includes soil removal there would not be a steady state source of fluoride. Additionally, capping of the lagoon, which is included in several of the proposed remedial alternatives for the lagoon, would reduce infiltration of water and decrease the hydraulic gradient in the vicinity of the lagoon. This would result in a significant decrease in the potential for fluoride migration from the lagoon soils. Therefore, over time, downgradient fluoride concentrations are anticipated to decrease below the concentrations predicted by the model.

Fluoride concentrations in the off-site monitoring wells and predicted fluoride concentrations 1,500 feet downgradient of the lagoon indicate that the area where off-site ground water fluoride concentrations are above the ground water standard is limited. Ground water fluoride concentrations downgradient of monitoring well MW-17 will continue to decrease by means of the process of dispersion. In addition, once the selected remedy for the lagoon soils is implemented, it is anticipated that there will be an increase in the rate at which downgradient concentrations are reduced. The data strongly indicate that no active treatment of ground water is necessary to control ground water fluoride concentrations.

5.0 STEP I AND STEP IIA/IIB FISH AND WILDLIFE IMPACT ANALYSIS

This section presents the findings of the Step I Fish and Wildlife Impact Analysis (FWIA) performed pursuant to the request from NYSDEC (June 10, 2002 letter from Ms. Alicia Thorne), for this inactive hazardous waste site (Site No. 3-36-027) and the Step IIA/IIB FWIA conducted at the request of the NYSDEC (December 10, 2004 letter from James Candiloro). The FWIA was performed following the NYSDEC FWIA procedures presented in the NYSDEC, Division of Fish and Wildlife, "Fish and Wildlife Impact Analysis for Inactive Hazardous Waste Sites" (October 1994).

5.1 Step I Site Description

The objectives of the Step I analysis are to identify the fish and wildlife resources, land-use and habitat types that exist in the vicinity of the Site. In addition, fish and wildlife species that may utilize habitats associated with OU2 that could potentially be impacted by site-related contaminants are identified. Topography and drainage within a two-mile radius of the Site are depicted on Drawing No. 6. Topography and drainage at the Site are depicted on Drawing No. 2 (Ground Water Contour Map). A cover type map documenting land use and the terrestrial, palustrine and lacustrine communities located within a one-half mile radius of the Site is provided on Drawing No. 7. The location of New York State regulated wetlands and classified streams within a two-mile radius of the Site are depicted on Drawing No. 6.

5.1.1 Regional and Site Topography and Drainage

The C&D facility is located in the Neversink River Valley, about four miles northeast of the confluence of the Neversink and Delaware Rivers at the City of Port Jervis. The plant is located on a terrace approximately 35 feet above the elevation of the Neversink River. The topography on the terrace is relatively flat and the slopes extending to the valley floor are steep. The topography where the plant and former lagoon are located is relatively flat. Approximately 100 feet east of the lagoon, there is a topographic bench where the elevation drops between thirty and ten feet to the valley floor.

A small tributary (D-1-7) of the Neversink River is located on the valley floor just east of the facility. The tributary most likely represents a ground water discharge point over at least a portion of its length, during a significant part of the year. During the drier months, the tributary could potentially be a ground water discharge point and an area of ground water recharge in separate reaches of the stream.

Drainage from the east end of the plant near the lagoon flows into the lagoon and to tributary D-1-7. The area of the plant south of the lagoon flows east toward the former railroad bed, which is located on a narrow bench approximately ten feet below the plant elevation. Stormwater runoff from southern end of the plant would infiltrate along the slope, the railroad bed and the valley floor before reaching the stream.

The topography rises to the east and west of the facility. The drainage from the higher terrain is to the Neversink River thorough a number of small tributaries. There are several wetland areas located along the valley floor between the ridges that border the valley to the east and west.

5.1.2 Streams, Wetlands and Surface Water Located Within a One-Half Mile and Two Mile Radius of the Site

There are no NYS Article 24 regulated wetlands located within a one-half mile radius of the Site. The nearest NYS regulated wetland (PN-30 Class 2) is located approximately 3,000 feet southwest of the Site. Runoff from the Site would not reach wetland PN-30 and ground water movement from the site is to the southeast, away from wetland PN-30. The locations of NYS Article 24 regulated wetlands within a two-mile radius of the Site are depicted on Drawing No.6.

An emergent marsh area is located approximately 500 feet north of the Site. Drainage and ground water from the Site would not affect this wetland area. There is also a narrow fringe of wetland habitat present along the tributary D-1-7. Drainage from the northeast area of the facility could reach this stream, however, most runoff would infiltrate into the ground before reaching the stream. Ground water from the Site would be expected to discharge to the stream at least during periods of high ground water table conditions.

Tributary D-1-7 is one of three New York State classified streams located within approximately one half-mile radius of the Site. Tributary D-1-8 is located approximately one-half mile northeast of the Site and Tributary D-1-6 is located approximately 1,500 feet west of the Site. Both these streams are Class C (t). Runoff from the Site would not reach either of these streams and ground water moving away from the Site would not be expected to discharge to either stream. The Site would not have any effect on water quality in either stream. Other classified streams located within a two-mile radius of the Site are shown on Drawing No.6.

The stream located approximately 300 feet east of the lagoon is designated tributary D-1-7 of the Neversink River. This stream is a Class C (t) stream. NYSDEC Water Quality Regulations, Title 6, Chapter X, Parts 700- 705 defines the best usage of Class C waters as fishing. These waters shall be suitable for fish propagation and survival. The water quality shall be suitable for primary and secondary contact recreation, although other factors may limit the use for these purposes. The (t) designation indicates that the waters are suitable for the survival of trout.

In the vicinity of the site, tributary D-1-7 is a small, low gradient stream with the width varying from approximately 15 up to 70 feet in areas adjacent to low floodplain and wetland habitat. Depths vary from three feet up to 8 feet in a few pool areas. The width and depth are variable along the stream between the Site and where the stream discharges to the Neversink River. Along most of the stream length both above and below the Site, the entire stream channel is heavily vegetated. The dominant species is canary reed grass (Phalaris arundinacea). The stream bottom in the vicinity of the site is composed of a silty muck. The stream is apparently fed by surface water runoff from adjacent uplands and ground water discharge through localized springs and non-localized ground water discharge through the streambed.

5.1.3 Land Use/Major Plant Communities Within One-Half mile of The Site

A cover type map detailing the major land use/plant communities within approximately a one-half mile radius of the Site is presented on Drawing No.7. The cover type map was prepared based on interpretation and evaluation of aerial photographs, topographic maps and NYSDEC wetland maps. Field checking was performed to verify the accuracy of the cover type map. The base map for the cover type map was prepared from orthoimagery obtained from the New York State GIS Clearinghouse Orthoimagery Application Program. The cover types within a half-mile of the Site were classified using the New York Heritage Program Classification System (NHPCS, Reschke, 1990).

Where access was possible during the verification of the cover type map, the dominant vegetation in each cover type was identified for areas classified as terrestrial natural (TN), palustrine (P) and lacustrine (L). The cover type boundary lines are approximate and have not been surveyed. The determination of dominance was qualitative, based on visual estimates. Vegetative plots and transects were not used in determining dominance. These methods are beyond the scope of a Step I analysis.

The predominant land use within a half-mile east of the Site is agricultural. In 2003, most of the fields were planted with corn. Narrow hedgerows separate many of the fields. The hedgerows contain a mixture of shrubs and trees. Predominant vegetation in the hedgerows included locust (Robinia psuedoacacia), elm (Ulmus americana), red maple (Acer rubrum) and arrowood (Viburnum dentatum). An area of wet meadow approximately 2000 feet long by 100 feet wide bisects several of the fields. Dominant vegetation in the wet meadow includes sedges (Carex species), purple loosestrife (Lythrum salicaria), canary reed grass (Phalaris arundinacea) and grass-leaved goldenrod (Euthamia graminifolia). The fields are bordered on the east by the Neversink River and on the west by tributary D-1-7.

Immediately adjacent to and north of the Site is an area of successional northern hardwood with an area of planted red pines (Pinus resinosa). Dominant species include red maple, elm, white pine (Pinus strobes), white ash (Fraxinus americana) aspen (Populus tremuloides) and poplar (Populus deltoids).

An emergent marsh area is located approximately 500 feet north of the Site. This marsh drains into tributary D-1-7. The predominant vegetation in the emergent marsh is purple loosestrife, canary reed grass and common cattail (Typhus lattifolia).

The area west of the Site is a mixture of residential homes and some commercial/industrial properties interspersed with successional shrub fields, successional northern hardwoods and deciduous forest. The predominant species in the successional shrub fields include goldenrod (Solidago species) queen-anne's-lace (Daucus carota), raspberries (Rubus species) arrowood, gray dogwood (Cornus racemosa) and sumac (Rhus typhina). The predominant species in the deciduous forest areas include red oak (Quercus rubra), red maple, sugar maple (Acer saccharum) and white ash.

5.1.4 Resource Characterization Within One-Half and Two Miles of The Site

Resource characterization consists of determining the wildlife species that may potentially utilize, or have been determined to utilize, the plant communities or habitats identified in the previous sections as existing within one-half mile of the Site. Also, any known species of concern (i.e., endangered, threatened, etc.) or significant habitats that may exist within two miles of the Site are identified. Additionally, the general quality of the habitats that are located within one-half mile of the Site and their ability to provide for the needs of the species that may utilize the habitats is discussed. Areas of observed vegetative stress, leachate seeps, documented evidence of fish and/or wildlife mortality and any known population impacts related to site-related contaminants are presented.

5.1.4.1 Endangered, Threatened or Special Concern Fish and Wildlife or Plant Species or Significant Habitats

The United States Fish and Wildlife Service (USFWS) and the NYSDEC Wildlife Resources Center were contacted regarding the known occurrence of endangered, threatened, or special concern species or habitats located within a one-half mile radius of the Site. One Federal and New York State endangered species, one Federal and New York State threatened species, one New York State endangered species and two New York State threatened species were identified as potentially occurring within a two-mile radius of the Site. The threatened and endangered species are listed below:

- Dwarf Wedge mussel (Alasmindonta heterodon): Federal and State endangered
- Bald Eagle (Haliaeetus leucocephalus): Federal and State threatened
- Allegheny Woodrat (Neotoma magister) State endangered
- Brook Floater (Alasmindonta varicose): State threatened
- Timber Rattlesnake (Crotalus horridus): State threatened

The preferred habitats of the timber rattlesnake and the Allegheny woodrat indicate that neither of these species would be found on or in the immediate vicinity of the Site, and therefore the chemicals related to the Site will not affect either species. The habitat of the Allegheny woodrat is large talus boulders, where the boulders have accumulated in layers sufficiently deep enough to form complex systems of passageways. The Site and the area within a one-half mile radius of the Site do not exhibit this type of habitat. The timber rattlesnake is typically found in deciduous forest in rugged terrain. Although there is some deciduous forest located adjacent to and north of the Site, this area is relatively flat and is a successional forest. The area immediately east, south and west of the Site is primarily agricultural, successional old field or successional shrub field, and residential, respectively. It is not anticipated that the Site or the areas immediately adjacent to the Site would represent timber rattlesnake habitat.

The eagle prefers undisturbed areas near large lakes, reservoirs, marshes and swamps and stretches along rivers. Although the bald eagle does use habitat along the Neversink River valley it would most likely represent only a transient species in the vicinity of the Site. Site-related contaminants would not represent a direct threat to eagles. The bald eagle's primary food is fish. Cadmium, lead and PCBs are bioaccumulative chemicals and could potentially biomagnify in the food chain, where eagles could potentially be exposed to higher concentrations of these chemicals. However, considering the transient use of the riverine and palustrine habitats in the immediate vicinity of the Site, eagle exposure to Site-related chemicals would be minimal.

The dwarf wedge mussel is a Federal and New York State endangered species. Habitat includes running waters of all sizes, from small brooks to large rivers, at locations where the water velocity is usually slow to moderate. Bottom substrates include silt, sand and gravel, which may be distributed in relatively small patches behind larger cobbles and boulders. A large population of this species is found in the Neversink River in Orange County. It is possible that dwarf wedge mussels are present within a one-half mile radius of the Site. They could potentially utilize the aquatic habitat of tributary D-1-7 as well as the nearby Neversink River.

The brook floater is a mussel considered threatened in New York State by the NYSDEC. Typical habitat is small to medium sized rivers, usually in gravel and cobble substrates in swift current. Tributary D-1-7 is not representative of typical brook floater habitat, and this species most likely is not present in this stream. The brook floater has been found in the Neversink River.

5.1.4.2 Fish and Wildlife Species Potentially Using Habitats Within a One-Half Mile Radius of the Site

Mammals, amphibians and reptiles; fish; and bird species that could potentially utilize the habitats within a one-half mile radius of the Site, for at least a portion of their life cycle, are listed in Tables 9, 10 and 11, respectively. All species that could potentially utilize the habitats within a one-half mile radius of the Site are not included on these lists. Also, these lists are not meant to indicate that these species can always be found, or that all will be present at one time within one-half mile of the Site. These lists were prepared following a limited field evaluation of the habitats and review of available literature. These lists are not the result of a site-specific population survey. Actual population surveys are complex and time intensive and are beyond the scope of a Step I baseline evaluation.

Many wildlife species are mobile and generally require a range of habitat types to meet their life cycle requirements. In addition, many species will only use the area within one-half mile of the Site for a portion of their life requisites. Thus, all the species identified on these lists were not actually observed within a one-half mile radius of the Site.

During sample collection activities in August/September 2003 and the field checking of the cover type map, the species listed below or sign of these species were observed on or within one-half mile of the Site.

- Black-capped Chickadee
- Cardinal
- Common Crow
- Red-tailed Hawk
- Mallards
- Blue-jay
- White-tailed Deer
- Beaver
- Cottontail Rabbit

5.1.4.3 General Habitat Quality Within One-Half Mile of the Site

The successional northern hardwood habitat and emergent marsh located north of the Site and the successional shrub fields located to the south are of limited acreage, which limits the overall habitat quality. However, the mixture of successional northern hardwood, successional shrub field and the emergent wetland plant communities along with the adjacent agricultural fields provides a diversity of habitat types available to wildlife and therefore these areas represent quality habitat.

The deciduous forest, successional shrub field and successional northern hardwood plant communities located west of the Site beyond the primarily residential areas, represent a variety of habitat types. This area is currently of sufficient size to represent a good quality habitat and is located adjacent to a larger area of currently undeveloped forest. It is a common ecological tenant that large blocks of undisturbed areas can support a greater number of species than smaller areas. This is partially related to the fact that larger areas will typically contain a wider variety of habitat types. Areas with diverse habitat types are more likely to contain the range of resources necessary to support a given species life cycle requirements. The greater number of habitat types the wider the diversity of plant communities. Animal species are ultimately dependent upon plants for survival, either directly in the case of herbivores, or indirectly with respect to animal species that use plants for shelter or feed on herbivores. However, with increasing development of this area, the quality of the habitats will decrease.

The Neversink River represents a high quality riverine habitat. The Neversink contains the greatest diversity of freshwater mussels in the Delaware River basin. There are more than 40 fish species in the Neversink, including migratory fish such as American shad, alewife, striped bass, sea lamprey, and American eel. The quality of the aquatic habitat in tributary D-1-7 is negatively affected by the dense stands of canary reed grass and purple loosestrife that have colonized the stream channel.

5.2 Contaminant-Specific Impact Analysis

The objective of the Step II, contaminant-specific impact analysis is to determine the impacts, if any, of site-related contaminants on fish and wildlife resources. The pathway analysis (Step IIA) evaluates and identifies potential contaminants of concern, sources of contaminants, potential pathways of contaminant migration and potential for fish and wildlife resources to be impacted by site-related contaminants. If the pathway analysis indicates that site contaminants have not migrated to a resource along a potential pathway, then there is no significant impact and additional analysis (Steps II B and C) is not required. The criteria-specific analysis (Step IIB) determines if reported concentrations represent a potential threat to aquatic life and wildlife. Site specific contaminant levels are compared to numerical criteria (either published or derived) to evaluate the extent of any impact.

In order for fish and wildlife to be affected by chemical constituents from a site, two conditions must exist. There first must be an avenue by which fish and wildlife can be exposed to chemical constituents, referred to as a completed exposure pathway. In addition, the chemical concentrations within the completed exposure pathway must be of sufficient magnitude (criteria-specific analysis) to cause an impact. The analysis of exposure pathways is presented in Section 5.2.1 and the criteria-specific analysis is provided in Section 5.2.2.

Based on the environmental sampling conducted during both the OU-1 and OU-2 investigations, the constituents of concern (COC) have been identified as PCBs, barium, cadmium, lead and fluoride. These parameters were identified at concentrations above NYSDEC RSCOs in the lagoon surface and sub-surface soils. The lagoon soils are the source area for the site COC.

5.2.1 Step IIA Exposure Pathway Analysis

OU-1 includes lagoon surface and sub-surface soils and OU-2 includes off-site surface water and sediments, on-site and off-site ground water and off-site floodplain soils. Fish and wildlife resources located in the vicinity of the site that could potentially be affected by the site-specific COC (fluoride, barium, cadmium, lead and PCBs) identified in the Step I analysis presented in Section 5.1.

Potential fish and wildlife exposure pathways with respect to the site COC include the following:

- Direct Contact: surface water, soils and sediments
- Ingestion: surface water, sediments and food (plants and animals) that utilize the tributary D-1-7 habitats for all or part of their life cycle and therefore could be exposed to the site COC.

The fish and wildlife resources that could potentially be affected by site-related COC consist of species that would utilize the aquatic habitats associated with tributary D-1-7 and the Neversink River and the terrestrial habitat located in the vicinity of these resources.

The lagoon soils represent the current source area for the site COC. The lagoon is an approximately 14-foot deep circular depression with a diameter at the rim of the lagoon of approximately 160 feet east/west and 180 feet north/south. Side slopes are approximately 2:1. The lagoon is sparsely vegetated. The sparse vegetation and small size of the lagoon function to limit use of the area by terrestrial wildlife species. The lagoon does not represent a significant terrestrial habitat. Wildlife present in the lagoon would most likely be limited to infrequent resting areas for small birds. Although elevated levels of COC are present in lagoon surface and sub-surface soils, the very limited use of this area by wildlife indicate that direct contact and ingestion of lagoon soils is not a significant exposure pathway.

COC present in lagoon soils could have migrated from the site to the adjacent aquatic habitat (Tributary D-1-7) via direct discharge and percolation into ground water. Historically, process wastewater was discharged to the lagoon and there was a historical discharge pipe from the lagoon to tributary D-1-7, which could have discharged site COC to tributary D-1-7. This discharge pipe is no longer active and there has not been any discharge from this pipe for several decades. The lagoon floor and sub-surface soils beneath the lagoon are primarily permeable coarse sand and gravel and wastewater would have infiltrated through these permeable soils. Fluoride and barium have been detected in surface water and fluoride, barium, cadmium, lead and PCBs have been detected in sediment samples collected from tributary D-1-7, which is a tributary of the Neversink River and is located approximately 300 feet east of the Lagoon.

Tributary D-1-7 is a significant aquatic habitat. Terrestrial wildlife could be exposed to site COC through direct contact and ingestion of surface water (fluoride and barium), sediment (fluoride, barium, cadmium, lead and PCBs) and adjacent floodplain soils (fluoride, barium, lead and PCBs) and through ingestion of food. Aquatic life are exposed to surface water and sediments in tributary D-1-7 through direct contact and ingestion and through ingestion of food.

Review of analytical data from surface water samples collected from tributary D-1-7 indicate that barium and fluoride were consistently detected in tributary D-1-7 surface water samples. These two parameters will be included in the surface water criteria specific analysis. Lead was detected in one of six tributary D-1-7 surface water samples and therefore due to the low frequency of detection will not be included in the surface water criteria specific analysis.

Barium, cadmium, lead, PCBs and fluoride were consistently detected in the sediment and barium, lead, PCBs and fluoride were detected in the floodplain soil samples collected adjacent to tributary D-1-7. These parameters will be included in the sediment/floodplain soil criteria specific analysis.

Site related COC could potentially migrate to the Neversink River via ground water discharge to the river and through surface water discharge from tributary D-1-7. However, analysis of these potential pathways indicates it is unlikely that site COC would reach the river at concentrations that would have an impact on surface water and sediment concentrations in the Neversink River.

The Neversink River is located approximately 2,500 feet downgradient of the site lagoon with respect to the direction of ground water flow. With the exception of fluoride the concentrations of site COC in ground water from off-site monitoring wells located between the site and the Neversink River have not been significantly higher than background concentrations. One of four off-site monitoring wells exhibited fluoride at concentrations above the ground water standard. However, ground water modeling has indicated that ground water fluoride concentrations would significantly decrease with increasing distance from the site and would be below the ground water standard at a distance of approximately 1,500 feet downgradient of the lagoon. Ground water discharge to the Neversink River does not represent a completed pathway for site related COC to affect Neversink River surface water and sediment concentrations.

Tributary D-1-7 flows into the Neversink River. Although barium and fluoride were detected in tributary D-1-7 surface samples at concentrations above background, the tributary D-1-7 stream volume is significantly less than the Neversink River volume and mixing of tributary D-1-7 flow with the Neversink River flow would reduce the concentration of barium and fluoride in the Neversink River surface waters to background levels. The migration of site-related COC to the Neversink River through surface water discharge from tributary D-1-7 is not considered a significant migration pathway.

Lead, cadmium and PCBs have been detected at concentrations above background in sediment collected from the most downstream sampling location (SED-14) in tributary D-1-7. The SED-14 cadmium, lead and PCB concentrations were 2 mg/Kg, 112 mg/Kg and 170 ug/Kg, respectively. The cadmium concentration was higher than the NYSDEC sediment low effect level but well below the severe effect level, the lead concentration was slightly higher than the severe effect level and the total PCB concentration was well below the 1,000 ug/Kg sediment cleanup level that has typically been used throughout New York State. The SED-14 sampling location is located approximately 1,000 feet downstream from where the highest tributary D-1-7 sediment lead, cadmium and PCB concentrations were reported. From SED-14 to the tributary D-1-7 discharge location to the Neversink River is another 2,675 feet. As discussed in Section 5.1, tributary D-1-7 is a slow, low gradient, highly vegetated stream, which would significantly minimize the movement of stream sediments. It is unlikely that the concentration of site COC in Neversink River sediments would be influenced by sediments in tributary D-1-7 and this is not considered a significant migration pathway.

The pathway analysis indicates that the principal completed exposure pathways are surface water and sediment in tributary D-1-7 and the adjacent floodplain soils.

5.2.2 Criteria-Specific Analysis

The pathway analysis indicated that there are potential pathways for site COC to migrate to tributary D-1-7 and analysis of tributary D-1-7 surface water, sediments and adjacent flood plain soils indicate that site COC have been found in these media, indicating a completed pathway. This section compares the concentration of the site COC in tributary D-1-7 surface water, sediments and the floodplain soils to published numerical criteria to enable an assessment of the potential impact on the fish and wildlife. Tables 12 through 16 summarize surface water and sediment data and numerical criteria for fluoride, barium, cadmium, lead and PCBs, respectively. Floodplain soil data and numerical criteria for fluoride, barium, cadmium, lead and PCBs are presented in Table 17.

5.2.2.1 Tributary D-1-7 Surface Water

Fluoride

Fluoride surface water concentrations and numerical comparison criteria are summarized in Table 12. Eighty percent of the downstream surface water sample fluoride concentrations were greater than the upstream background concentration. The average downstream surface water concentration was 208 ug/L and fluoride was not detected in the upstream sample at a reporting limit of 100 ug/L. However, all downstream surface water concentrations were less than the NYSDEC surface water standard of 767 ug/L (calculated using average site-specific surface water hardness). This standard is based on protection of water quality to ensure fish propagation and survival. The surface water fluoride concentrations were three orders of magnitude below the LC50 concentration for two species of mussels, indicating that the reported surface water fluoride concentrations would not have an impact on freshwater mussel populations. Data indicate that although the site has affected surface water fluoride concentrations downstream of the site, the reported concentrations are not significant and do not represent a threat to the aquatic ecosystem.

Barium

All downstream barium concentrations were less than the concentration reported in the upstream sample. Data indicate that the site has not impacted downstream surface water quality with respect to barium.

Cadmium

Cadmium was not detected at or above the laboratory reporting limit in any downstream surface water sample. Data indicate that the site has not affected downstream surface water quality with respect to cadmium.

Lead

All downstream surface water lead samples were non-detect at a reporting limit of 2.8 ug/L with the exception of one sample in which lead was detected at 10.4 ug/L. This concentration is below both the NYSDEC fish survival criteria (28.2 ug/L based on site specific hardness data) and the USEPA criteria maximum concentration (CMC) value of 19.6 ug/L but is higher than the NYSDEC standard for fish propagation and the USEPA criteria continuous concentration (CCC). Considering the low frequency of lead reported in the downstream surface water samples, the site has not had a significant impact on downstream surface water quality with respect to lead. Therefore, surface water lead concentrations do not represent a threat to the tributary D-1-7 aquatic ecosystem.

PCBs

PCBs were not detected at or above the laboratory reporting limit in any downstream surface water sample. Data indicate that the site has not impacted downstream surface water quality with respect to PCBs.

To summarize, surface water sample results for samples collected downstream of the site, indicate that surface water quality has not been significantly affected by site COC and that surface water concentrations of the site COC do not represent a threat to the tributary D-1-7 aquatic ecosystem.

5.2.2.2 Tributary D-1-7 Sediment Quality

Sediment samples were collected from tributary D-1-7 at two depth intervals; 0-6" and 6-12". At sample locations SED-1 through SED-10 samples were collected at only the 0-6" interval. At sample locations SED-11 through SED-14 samples were collected at both the 0-6" and the 6-12" intervals.

Fluoride

Nine of thirteen (69%) sediment samples in the 0-6"interval exhibited fluoride concentrations that were above the concentration reported in the upstream background sample. Fluoride was not detected in four of the thirteen downstream sediment samples. All concentrations (range <3.52 mg/Kg to 53.9 mg/Kg) were well below the concentration (290.2 mg/Kg) reported by Metcalfe-Smith (2003) that caused no mortality with an observable effect limited to growth (25% inhibitory concentration) on the amphipod Hyalella azteca, which was the most sensitive of several species tested (Fathead minnow, a mayfly, a midge and a water flea).

Fluoride was not detected in three of the four samples collected from the 6-12" interval, which were collected at the four farthest downstream sampling locations. The reported concentration in the furthest downstream sample (SED-14) was equivalent with the upstream 0-6" background concentration. The 0-6" fluoride concentrations in these four samples were generally consistent with the upstream background concentration. Therefore, the downstream concentrations do not represent a threat to benthic aquatic life in the tributary D-1-7 aquatic ecosystem.

Barium

Two of the thirteen (15.4%) downstream sediment 0-6" interval samples barium concentrations were higher than the upstream background value (97.5 mg/Kg). The average downstream 0-6" interval sediment concentration is 73.3 mg/Kg, which is below the upstream concentration. Barium concentrations in the four 6-12" interval sediment samples were less than the upstream 0-6" concentration. Considering the low frequency of samples exhibiting barium concentrations above the upstream background value, data indicate that the site has not had a significant impact on downstream sediment barium concentrations and that the reported downstream barium sediment concentrations do not represent a threat to benthic aquatic life in the tributary D-1-7 aquatic ecosystem.

Cadmium

All the downstream sediment 0-6" and 6-12" interval sample cadmium concentrations were well below the NYSDEC sediment criteria severe effect level (SEL) concentration, indicating that downstream sediment cadmium concentrations have not had a severe impact on benthic aquatic life. All of the 6-12" sample cadmium results were less than the NYSDEC lowest effect level (LEL) concentration. Approximately 56 percent (5 of 9) of the sediment samples collected from the 0-6" interval exhibited cadmium concentrations that were higher than the LEL. The LEL concentration represents a sediment cadmium concentration that can be tolerated by the majority of benthic organisms, but may cause toxicity to a few species. Sediment concentrations above the LEL but below the SEL could potentially be indicative of a moderate impact on benthic aquatic life.

Lead

Nine of the thirteen (69.2%) downstream sediment samples collected from the 0-6" interval exhibited lead concentrations ~~that~~ were above the NYSDEC ~~LEL concentration~~. The lead concentration in ~~four~~ (SED-4, SED-9, SED-13 and SED-14) of the thirteen 0-6" ~~interval~~ sediment samples (30.8%) were higher than NYSDEC SEL. The SED-4 and SED-9 samples were ~~collected at approximately the same location (SED-4 August 1999 and SED-9 July~~ 2001) and the SED-13 and SED-14 were the farthest downstream sample locations. The lead concentrations in the 0-6" samples at sediment sample locations SED-11 and SED-12 were less than both the NYSDEC Lowest Effect and Severe Effect Levels. Sample locations SED-11 and SED-12 are located between SED-9 and SED-13. Data indicate that sediments with lead concentrations above the NYSDEC Severe Effect Level are not wide spread and are limited to the top six inches of sediment.

The lead concentrations in all four 6-12" interval samples (SED-11, SED-12 and SED-13) were well below both the NYSDEC Lowest Effect and the Severe Effect Levels.

PCBs

The total PCB concentration in two of the nine (22%) 0-6" interval sediment samples were above the NYSDEC benthic aquatic life chronic toxicity value (434 ug/Kg). The average sediment concentration (398 ug/Kg) was less than the chronic toxicity value. All sediment sample total PCB concentrations in the 6-12" interval were below the chronic toxicity value. The downstream sediment PCB data indicate that sediment PCB concentrations would have a minimal impact on the benthic aquatic community in tributary D-1-7. The two sediment samples (SED-9 and SED-10) with concentrations above the chronic toxicity criterion were collected within 100 feet of each other indicating an affected area of limited extent.

All 0-6" interval sediment sample total PCB concentrations were higher than the NYSDEC wildlife bioaccumulation criterion (31.5 ug/Kg). However, only two samples (SED-9 and SED-10) were above the 1,000 ug/Kg total PCB sediment cleanup level that has typically been applied throughout New York State. The wildlife bioaccumulation criterion is derived to protect wildlife that prey on aquatic life from the toxic effects of bioaccumulation associated with the consumption of aquatic life from areas with high sediment PCB concentrations. The total PCB concentration in the upstream SED-5 sample (31 ug/Kg) was only slightly below the wildlife bioaccumulation criterion. The total PCB concentration in only one of the four 6-12" interval sediment samples was above the wildlife bioaccumulation criterion.

5.2.2.3 Floodplain Samples

Floodplain sample data are summarized and compared to applicable numerical criteria in Table 17. Data indicate that floodplain soils do not exhibit fluoride, barium, cadmium or PCB concentrations that would affect benthic aquatic life or terrestrial wildlife. All floodplain sample fluoride concentrations (<2.65 to 14.3 mg/Kg) were well below the concentration (290.2 mg/Kg) reported by Metcalfe-Smith (2003) that caused no mortality with an observable effect limited to growth (25% inhibitory concentration) on the amphipod Hyalella azteca, which was the most sensitive of several species tested (Fathead minnow, a mayfly, a midge and a water flea). All barium concentrations (54.1 to 122 mg/Kg) were below the USEPA ecological soil screening criteria value (300 mg/Kg) and were below or only slightly above the site sediment background concentration (97.5 mg/Kg). Cadmium was not detected in any of the floodplain soil samples at a reporting limit between 0.17 mg/Kg and 0.27 mg/Kg. All PCB concentrations (17 to 90 ug/Kg) were well below the NYSDEC benthic aquatic life chronic toxicity criteria value (434 ug/Kg). Only one sample (0-6" interval) exhibited a concentration above the site sediment background total PCB concentration (31 ug/Kg).

Floodplain sample lead concentrations from both the 0-6" and 6-12" intervals were less than the NYSDEC SEL concentration. All 6-12" interval floodplain samples were less than the NYSDEC LEL. Three of the four 0-6" interval floodplain sample lead values were above the NYSDEC LEL concentration. All four 0-6" interval floodplain soil sample concentrations were higher than the site sediment and site soil background concentrations. All four 0-6" interval floodplain soil sample concentrations were above the USEPA ecological soil screening criteria value (11 mg/Kg), however, this screening value is consistent with the site background soil lead concentrations (0-6" 9.5 mg/Kg 6-12" 12.3 mg/Kg). Data indicate that floodplain soils would not have a significant impact on tributary D-1-7 benthic aquatic life or terrestrial wildlife.

5.2.3 Evaluation of Degree and Extent of Impacted Tributary D-1-7 Sediments

The NYSDEC metals sediment criteria are derived using an effect-based approach. This approach is based on identifying adverse ecological effects that are attributable to metals in sediments and measuring the metal(s) concentrations that caused the adverse effect. The lowest effect level indicates a level of sediment contamination that can be tolerated by the majority of benthic organisms, but still causes toxicity in a few species. Metal concentrations above the Lowest Effect Level (LEL), but less than the Severe Effect Level (SEL) are considered contaminated with moderate impacts to benthic aquatic life. Concentrations above the SEL are expected to cause a pronounced disturbance of the sediment benthic aquatic life population.

USEPA has reported an uncertainty factor of approximately 5 related to the calculated toxicity values based on the equilibrium partition based sediment criteria for organic compounds. The range of concentration between 1/5 to 5 times an EP-derived sediment criteria value may or may not cause an observable impact on benthic aquatic life. Concentrations below 1/5 an EP-derived sediment criteria value can with a high degree of confidence be assumed to pose no risk to benthic aquatic life. Conversely, concentrations greater than 5 times an EP-derived sediment criteria value can be expected to have an adverse impact on benthic aquatic life.

The sediment metals criteria have limited applicability to mixtures of metals and other potentially toxic organic chemicals. The presence of one metal or toxic organic chemical may affect the impact another metal may have on an organism. The effect could reduce the impact of either metal (antagonistic affect), the individual effects of each chemical could be independent of each other and therefore the individual impact of each chemical/metal could proportionately increase the overall all impact on an organism and the impacts would be considered additive, or the presence of one metal/chemical could increase the toxicity of another chemical/metal (synergistic effect).

Sixty-nine percent of the downstream 0-6" sediment samples exhibited lead concentrations above the Lowest Effect Level and thirty percent of the samples were above the Severe Effect Level. Fifty-five percent of the downstream 0-6" sediment samples had cadmium concentrations above the Lowest Effect Level. Two sediment samples exhibited PCB concentrations above the NYSDEC PCB chronic toxicity value.

Figure 9 depicts the estimated areal extent of impacted sediments based on the existing sediment data. The extent of impacted soils was estimated by splitting the distance between sediment locations that were below a criteria level and locations that were above the specified criteria level. A summary of the areas of impacted sediments follows, refer to Figure 9 for locations:

- Only Lead > Lowest Effect Level: 17,200 ft^2
- Only Cadmium > Lowest Effect Level: 4,626 ft^2
- Only Cadmium & Lead > Lowest Effect Level 5,060 ft^2
- Only Cadmium & Lead > LEL and PCBs > Chronic Toxicity Criteria: 12,358 ft^2
- Only Cadmium > LEL, Lead > SEL, PCBS > Chronic Toxicity Criteria: 7,651 ft^2
- Only Lead > Severe Effect Level & Cadmium > Lowest Effect Level: 20, 651 ft^2

The sediment data indicate that the sediments in two areas could reasonably be expected to have an impact on benthic aquatic organisms:

1. The sediments in the vicinity of SED-9 where sediment lead concentrations were above the SEL, cadmium concentrations exceeded the LEL and PCB concentrations were higher than the chronic toxicity criteria.

2. The sediments in the area of SED-13 and SED-14, where lead concentrations were above the SEL and cadmium concentrations were above the LEL. The extent of impacts beyond the SED-14 location are unknown, although with increasing distance from the site, the concentration of site related COC in tributary D-1-7 sediments would be expected to decrease.

SED 9 —— 14

6.0 CONCLUSIONS

6.1 Hydrology and Geology

- Both the former lagoon and the Neversink tributary have had an influence on the hydraulics of the Site. Currently, the primary influence is the tributary, which flows east of the lagoon. Ground water flows toward the tributary with a gradient of approximately 0.0047 ft/ft.

- In the past, discharges to the lagoon created mounding of and limited radial flow from, the lagoon. While this flow pattern is no longer occurring, it may explain some of the sampling results.

- Hydraulic conductivities range from a low of 1.29×10^{-3} cm/sec or 3.66 ft/day (Well MW-15) to a high of 1.32×10^{-1} cm/sec or 375 feet per day (MW-17) with an average of 2.36×10^{-2} cm/sec or 66.8 ft/day. Monitoring wells MW-17 and MW-12 exhibit the highest hydraulic conductivities while wells MW-10, MW-14, MW-15 and MW-17A exhibit the lowest hydraulic conductivities.

- Ground water flow direction at the Site is to the east-southeast towards the tributary of the Neversink River. The tributary most likely represents a ground water discharge point during a significant part of the year. During the drier months, the tributary could potentially be a ground water discharge point and a ground water recharge area in separate reaches of the stream.

6.2 Ground Water, Surface Water, Sediment and Soil Data

- The detection of low level PCBs in the 2003 off-site ground water samples and not in the on-site downgradient wells MW-7, MW-8, MW-9 and MW-10 samples is potentially related to residual colloidal particles from the recent drilling of the off-site wells that became entrained in the ground water samples. PCBs were not detected in the April 2005 ground water samples collected from these monitoring wells. The identification of the PCBs in the 2003 off-site monitoring well samples as aroclor 1242 and not the aroclor 1254 that is present in the lagoon soils is most likely related to natural degradation of the aroclor 1254.

- The ground water PCB data indicates that the Site has not had a significant impact on downgradient ground water PCB levels. Although the July 2001ground water samples from monitoring MW-7 and MW-14, collected using the low flow micropurging procedure exhibited PCB concentrations above the ground water standard, the PCB concentrations in all ground water monitoring well samples collected in August/September 2003 were below the ground water standard. PCBs were detected in the April 2005 ground water samples from on-site monitoring wells MW-6 and MW-14 at concentrations above the ground water standard.

- The most recent ground water samples (April 2005 and August/September 2003) indicate that barium, cadmium and lead concentrations in all on-site and off-site ground water monitoring wells and the Swartwout Road residence potable well (2003) were below the respective ground water standards. Cadmium and lead were not detected in any of the off-site monitoring well groundwater samples collected in August/September 2003 and April 2005. Ground water barium, cadmium and lead data indicate that the Site has not had a significant impact on the downgradient ground water concentrations of these three metals.

- The fluoride data indicate that the Site has had an impact on ground water fluoride concentrations. However, the off-site ground water data indicate that the downgradient impact is limited in extent. Although fluoride was detected in the ground water samples from monitoring well MW-17 (2003; 1,800 ug/L: 2005; 2,120 ug/L) at concentrations slightly above the NYSDEC ground water standard, the concentration was below the NYSDOH drinking water standard. Also, as previously noted, fluoride was not detected in the ground water sample from monitoring well MW-17A, which is located downgradient of well MW-17 and 1200 feet downgradient of the lagoon center. Fluoride also was not detected (reporting limit of 200 ug/L) in a sample collected from the Harriet Space Park ladies restroom and was detected just at the reporting limit (200 ug/L) in a sample collected from the Town of Deer Park Town Hall. The Town Hall and the Harriet Space Park are located approximately 500 and 1,000 feet, respectively, south of the lagoon. The MW-17A, the Town Hall and the Harriet Space Park samples indicate that the off-site extent of ground water with elevated concentrations of fluoride is limited and does not extend much beyond monitoring well MW-17.

- With the exception of fluoride, the Site has not had an impact on surface water quality with respect to the Site-specific chemicals of concern. The effect the Site has had on surface water fluoride concentrations is not significant, as all concentrations were less than the surface water standard. Although the highest fluoride concentration was reported in sample SW-6, which was the most downstream sample collected, surface water fluoride concentrations downstream from SW-6 are expected to rapidly decrease with increasing distance from the lagoon.

- Metals data indicate that the Site has not had an impact on stream sediment barium concentrations. The stream sediment and stream flood plain sediment sample lead data indicate that sediment lead concentrations above the NYSDEC Severe Effect Level are limited in extent and restricted to the top 0-6". Sediment lead concentrations above the Low Effect Level are more widespread, but are also limited to the top 0-6". The stream and flood plain sediment samples indicate that historical site activities have potentially had an impact on stream sediment lead concentrations. The stream and flood plain sediment data indicate that stream sediments with elevated cadmium concentrations are limited in areal extent and are restricted to the top 0-6". Sixty-nine percent of the downstream 0-6" sediment samples exhibited lead concentrations above the Lowest Effect Level and thirty percent of the samples were above the Severe Effect Level. Fifty-five percent of the downstream 0-6" sediment samples had cadmium concentrations above the Lowest Effect Level. The sediment metals data indicate that the combined lead and cadmium concentrations in the tributary D-1-7 sediments have potentially caused a localized moderate impact on the benthic aquatic community.

- The sediment data indicate that the Site has not had a significant impact on stream sediment fluoride concentrations.

- All downstream sediment sample total PCB concentrations were above the human health (0.018 ug/Kg) and wildlife bioaccumulation sediment criterion value (31.5 ug/Kg). The aroclor 1260 concentration in upstream sample SED-5 was above the human health bioaccumulation criteria. Sediment samples SED-9 and SED-10 exhibited total PCB concentrations that were above the aquatic life chronic toxicity criterion. However, all PCB sediment sample results were less than the aquatic life acute toxicity criterion. Only nine percent (two of twenty-two) sediment samples (stream and flood plain) exhibited PCB concentrations above the Site-specific aquatic life chronic toxicity value. All sediment samples were below the aquatic life acute toxicity value. The data indicate that sediment PCB concentrations have most likely had only a minor effect on sediment benthic populations. The highest sediment sample total PCB concentrations reported in the stream (SED-9; 1,070 ug/Kg, SED-10; 1,470 ug/Kg) were only slightly above 1~~,000~~ m~~u~~g/Kg, which has been used as a cleanup guideline for PCB sediment cleanup projects in New York State. All other stream sediment and flood plain sediment concentrations were well below 1,000 ug/Kg.

  ?
  Fish & invertebrate

  The PCB aroclor identified in the lagoon soil samples was aroclor 1254. A significant percentage of the PCBs identified in the tributary D-1-7 stream and flood plain sediment samples was aroclor 1260. Aroclor 1260 was detected in the upstream SED-5 sediment sample and aroclor 1254 would not naturally degrade to aroclor 1260. Data indicate that the aroclor 1260 reported in the stream sediment and flood plain samples is potentially related to an upstream source and not lagoon soils.

- All flood plain sediment sample PCB concentrations were above the human health bioaccumulation criteria. Only sample FP-4 exhibited a PCB concentration that was above the wildlife bioaccumulation value. All flood plain concentrations were below the aquatic life chronic and acute toxicity criteria values.

- The analytical data from the surface soil sample collected at the end of the overflow CMP from the former lagoon indicate that the Site has not had a significant impact on soil quality in the vicinity of the overflow CMP. Cadmium and fluoride were not detected at or above the laboratory-reporting limit. Although barium and lead concentrations were slightly above background surface soil concentrations, the barium value was well below the NYSDEC RSCO and the lead concentration was well below the USEPA (Identification of Dangerous Levels of Lead; 40 CFR Part 745) exposure hazard concentration in bare soil in children's play areas of 400 mg/Kg. The reported PCB aroclor 1260 concentration was well below the NYSDEC surface soil RSCO. Data from sample FS-1 indicate that soils adjacent to the stream have not been significantly affected by Site-related chemicals.

- Saturated zone soil boring samples collected from the lagoon indicated cadmium and lead concentrations above RSCOs and cadmium concentrations above the TCLP limit in two saturated zone samples collected from boring SB-5-05 and one from SB-01-05. However, ground water data indicates that lagoon soils have not had a significant impact on barium, cadmium and lead concentrations in ground water downgradient of the lagoon.

6.3 Fate and Transport

- The K_{oc} of PCBs is relatively high, indicating that it will tend to sorb strongly to the organic carbon fraction of the soil. Therefore, it is logical that PCBs were detected at relatively higher concentrations in the highly organic surface soils of the former lagoon soils and sparingly detected in the ground water.

- Since barium, cadmium and lead have generally not been detected in the ground water at elevated concentrations, it is evident that they are present at the Site in an insoluble form or are sorbed to the soils. The aroclor 1254 detected in ground water from monitoring wells MW-6, MW-7 and MW-14 may to some extent be associated with the movement of colloidal material, with sorbed aroclor 1254, along the ground water table.

- Based on the estimated downgradient ground water fluoride concentrations, and because implementation of the remedy for the lagoon soils will result in lower downgradient fluoride concentrations than predicted by the model, no active treatment of ground water is considered necessary. The model data show that downgradient fluoride concentrations are below the groundwater standard at a distance of 1,500 feet downgradient of the lagoon.

6.4 Fish and Wildlife

- One Federal and New York State endangered species (Dwarf Wedge mussel), one Federal and New York State threatened species (Bald Eagle), one New York State endangered species (Allegheny Woodrat) and two New York State threatened species (Brook Floater and Timber Rattlesnake) were identified as potentially occurring within a two-mile radius of the Site.

- With the exception of the dwarf wedge mussel, none of the threatened or endangered species that have been identified as potentially present within a two-mile radius of the Site are expected to be found in habitats near the Site that could be affected by Site related contaminants. The dwarf wedge mussel utilizes habitats that include running waters of all sizes, from small brooks to large rivers, at locations where the water velocity is usually slow to moderate. Bottom substrates include silt, sand and gravel, which may be distributed in relatively small patches behind larger cobbles and boulders. A large population of this species is found in the Neversink River in Orange County. It is possible that dwarf wedge mussels are present within a one-half mile radius of the Site. They could potentially utilize the aquatic habitat of tributary D-1-7 as well as the nearby Neversink River.

- The sediment data indicate that the sediments in two areas could reasonably be expected to have an impact on benthic aquatic organisms:

1. The sediments in the vicinity of SED-9 where sediment lead concentrations were above the SEL, cadmium concentrations exceeded the LEL and PCB concentrations were higher than the chronic toxicity criteria.

2. The sediments in the area of SED-13 and SED-14, where lead concentrations were above the SEL and cadmium concentrations were above the LEL. The extent of impacts beyond the SED-14 location are unknown, although with increasing distance from the site, the concentration of site related COC in tributary D-1-7 sediments would be expected to decrease.

TABLES

Table 1
Ground Water Elevation Data
C & D Technologies, Inc. Facility
Huguenot, New York

Monitoring Well	Ground Water Monitoring Well Measuring Point Elevation	August 27, 1999		September 9, 1999		January 14, 2000		March 27, 2001		July 31, 2001		October 24, 2003		March 30, 2005		Average Ground Water Elevation
		Water Level	Elevation	Water Level	Elevation	Water Level	Elevation	Water Level	Elevation	Water Level	Elevation	Water Level	Elevation	Water Level	Elevation	
MW-6	472.39	32.24	440.15	32.78	439.61	29.14	443.25	28.79	443.60	29.20	443.19	29.15	443.24	28.95	443.44	442.17
MW-7	461.17	21.03	440.14	21.11	440.06	17.28	443.89	16.63	444.54	17.84	443.33	17.17	444.00	16.84	444.33	442.66
MW-8	463.4	23.71	439.69	23.72	439.68	20.35	443.05	19.81	443.59	20.85	442.55	20.22	443.18	19.68	443.72	441.96
MW-9	464.71	25.01	439.70	25.18	439.53	21.77	442.94	21.28	443.43	22.33	442.38	21.71	443.00	21.19	443.52	441.83
MW-10	464.75	25.11	439.64	25.31	439.44	21.96	442.79	21.40	443.35	22.55	442.20	21.9	442.85	21.44	443.31	441.71
MW-12	473.97	33.3	440.67	33.54	440.43	29.11	444.86	28.44	445.53	30.00	443.97	29.37	444.60	29.18	444.79	443.34
MW-13	472.89	31.82	441.07	32.1	440.79	27.66	445.23	27.04	445.85	28.65	444.24	28.07	444.82	27.67	445.22	443.67
MW-14	475.24									31.93	443.31	31.39	443.85	31.02	444.22	443.58
MW-15	446.41											6	440.41	3.81	442.60	440.41
MW-16	443.39											3.77	439.62	2.46	440.93	439.62
MW-17	453.43											14.49	438.94	12.70	440.73	438.94
MW-17A	445.74											7.45	438.29	5.46	440.28	438.29
MW-18	461.76													17.11	444.65	

Measuring Point Elevations based on Survey by Wakin Land Surveying November 2001. (Elevation is mean sea level in feet using National Geodetic Data of 1929). All elevations based on assumed ground elevation at MW-1 of 472.46

Table 2
Monitoring Well Hydraulic Conductivity Data
C & D Technologies, Inc. Facility
Huguenot, New York

Monitoring Well	Hydraulic Conductivity(cm/s)	Hydraulic Conductivity(ft/d)	Screened Interval ft. Below Grade	Elevation Top of Screen	Elevation Bottom of Screen
MW-6	7.71E-03	2.18E+01	32.5-42.5	437.77	427.77
MW-7	1.27E-02	3.61E+01	19-29	441.65	431.65
MW-8	4.11E-03	1.17E+01	23-33	438.25	428.35
MW-9	1.74E-02	4.93E+01	23-33	439.15	429.15
MW-10	2.77E-03	7.84E+00	25-35	437.21	427.21
MW-12	8.30E-02	2.35E+02	50-55	426.3	421.3
MW-13	2.16E-03	6.13E+00	27-37	443	433
MW-14	1.60E-03	4.54E+00	20-40	452.52	432.52
MW-15	1.29E-03	3.66E+00	5-15	438.5	428.5
MW-16	1.53E-02	4.33E+01	5-15	435.5	425.5
MW-17	1.32E-01	3.75E+02	10-20	440.7	430.7
MW-17A	2.64E-03	7.48E+00	5-15	437.7	427.7
Average	2.36E-02	6.68E+01			

Table 3
C D Technologies, Inc. Facility
Huguenot, New York
Site ID 336001
Ground Water Analytical Data

Sample ID	MW-6					MW-7				
Analyte	9-Sep-99	Jan/Mar-00	31-Jul-01	26-Aug-03	31-Mar-05	9-Sep-99	Jan/Mar-00	31-Jul-01	27-Aug-03	31-Mar-05
Metals										
Barium	13		39.1			17.9		855		
Barium (Diss)	10.7					6.2				
Barium (MP)			22.8	7.8	131			25.4	25.1	9.2
Cadmium	<1.0	0.99	0.4			<1.0	1.6	**5.6**		
Cadmium (Diss)										
Cadmium (MP)			<0.2	<0.6	0.35			0.47	<0.6	0.67
Lead	**29.4**		3			15.4		<2.8		
Lead (Diss)	<3.0					<3.0				
Lead (MP)			<2.8	<2.1	6.8			<2.8	<2.1	<2.9
Anion										
Fluoride	319		1,100			**10,900**		**8,700**		
Fluoride (MP)			580	140	**2,360**			**8,600**	**7,870**	**6,440**
Fluoride (Diss)	264					**10,800**				
PCBs										
Aroclor 1254	<1.0	<1.0 / **0.24**	**0.23**			<1.0	0.067/0.084/**0.09***	**0.31**		
Aroclor 1254 (MP)			0.051J	<0.065	**0.24**			**0.14**	<0.065	<0.065

Sample ID	MW-8					MW-9				
Analyte	9-Sep-99	Jan/Mar-00	31-Jul-01	27-Aug-03	31-Mar-05	9-Sep-99	Jan/Mar-00	31-Jul-01	27-Aug-03	31-Mar-05
Metals										
Barium	26.7		21.6			28.5		34.1		
Barium (Diss)	14.0		14.2			19.1		16.6		
Barium (MP)				15.2	12.56				18.7	18.5
Cadmium		<0.33	<0.2				<0.33	<0.2		
Cadmium (Diss)			<0.2					<0.2		
Cadmium (MP)				<0.6	<0.3				<0.6	<0.3
Lead	17.5		<2.8			20.5		4.7		
Lead (Diss)	<3.0		<2.8			<3.0		<2.8		
Lead (MP)				<2.1	4.8				<2.1	<2.9
Anion										
Fluoride	**5,350**		**6,300**			**6,490**		**6,200**		
Fluoride (MP)				**6,560**	**5,320**				**6,520**	**5,180**
Fluoride (Diss)	**5,120**					**6,390**				
PCBs										
Aroclor 1254		<1.0 / <0.05	<0.065				<1.0 / <0.05	<0.065		
Aroclor 1254 (MP)				<0.065	<0.065				<0.065	<0.065

Sample ID	MW-10					MW-12					NYSDEC
Analyte	9-Sep-99	Jan/Mar-00	31-Jul-01	27-Aug-03	31-Mar-05	9-Sep-99	Jan/Mar-00	31-Jul-01	26-Aug-03	1-Apr-05	GW Standard
Metals											
Barium	124		115			56.8		9.5			1,000
Barium (Diss)	51.8		60.7			18.4					
Barium (MP)				48.5	28.2				16.4	17.7	
Cadmium		0.88	0.75				<0.33	<0.2			5
Cadmium (Diss)			<0.2								
Cadmium (MP)				<0.6	<0.3				<0.6	<0.3	
Lead	13.1		<2.8			17.7		<2.8			25
Lead (Diss)	<3.0		<2.8			6.8					
Lead (MP)				<2.1	<2.9				<2.1	<2.9	
Anion											
Fluoride	**3,340**		3,160			521		310			1,500
Fluoride (MP)				**5,530**	**6,160**				290	170	
Fluoride (Diss)	**3,320**					501					
PCBs											0.09****
Aroclor 1254		<1.0 / <0.05	<0.065				<1.0 / <0.05	0.041J			
Aroclor 1254 (MP)				<0.065	<0.065				<0.065	<0.065	

Sample ID	MW-13					MW-14			Swartwout Road Residence			
Analyte	9-Sep-99	Jan/Mar-00	31-Jul-01	26-Aug-03	30-Mar-05	31-Jul-01	26-Aug-03	1-Apr-05	Feb-00**	Mar-00**	31-Jul-01	26-Aug-03
Metals												
Barium	24.7		13.7			117			120 / 120			129
Barium (Diss)	19.9											
Barium (MP)				20.3	11.8	13.7	26.4	27.3				
Cadmium		<0.33	<0.2			0.99			<5 / <5			<0.6
Cadmium (Diss)												
Cadmium (MP)				<0.6	<0.3	<0.2	<0.6	<0.3				
Lead	5.2		<2.8			18.5			<5 / <5			<2.1
Lead (Diss)	<3.0											
Lead (MP)				<2.1	<2.9	<2.8	<2.1	<2.9				
Anion												
Fluoride	642		220			**4,100**			**3,850*****		450	
Fluoride (MP)				<100	<100	**4,300**	**6,540**	**6,590**				710
Fluoride (Diss)	636											
PCBs												
Aroclor 1242 (MP)												
Aroclor 1254		<1.4 / <0.05	<0.065			**0.25**			<1.5 / <1.4	<0.05 / <0.05		<0.065
Aroclor 1254 (MP)				<0.065	<0.065	**0.15**	0.088	**0.2**				

Sample ID	MW-15		MW-16		MW-17		MW-17A		MW-18	NYSDEC
Analyte	3-Sep-03	30-Mar-05	3-Sep-03	30-Mar-05	3-Sep-03	30-Mar-05	3-Sep-03	30-Mar-05	31-Mar-05	GW Standard
Metals										
Barium										1,000
Barium (Diss)										
Barium (MP)	80.6	132	16.1	42.7	51.8	110	72.5	49	**1,420**	
Cadmium										5
Cadmium (Diss)										
Cadmium (MP)	<0.6	<0.3	<0.6	<0.3	<0.6	<0.3	<0.6	<0.3	**42.2**	
Lead										25
Lead (Diss)										
Lead (MP)	<2.1	<2.9	<2.1	6.3	<2.1	<2.9	<2.1	<2.9	<2.9	
Anion										
Fluoride										1,500
Fluoride (MP)	120	<100	<100	<100	**1,800**	**2,120**	<100	<100	**10,400**	
Fluoride (Diss)										
PCBs										0.09****
Aroclor 1242 (MP)	0.078	<0.065	0.035J	<0.065	0.063J	<0.065	0.032J	<0.065	<0.065	
Aroclor 1254										
Aroclor 1254 (MP)	<0.065	<0.065	<0.067	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	

Table 4
OU-2 Remedial Investigation
Analytical Data Summary - Surface Water Samples
C & D Technologies, Inc. Facility
Huguenot, New York
Sample Date: July 23, 2001

	SW-1	SW-2	SW-3	SW-4	SW-5	SW-6	NYSDEC Surface Water Standard
Metals ug/L							
Barium	16.7	8.2	10.5	9.7	12.4	12.3	1,000
Cadmium *	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	5 / 0.87 / 1.09
Lead *	<2.8	<2.8	<2.8	<2.8	**10.4**	<2.8	50 / 1.1 / 28.2
Anion/Indicator Parameters							
Fluoride, ug/L **	<100	<100	170	240	220	360	1,500 / 767
Hardness, mg/L***	35.1	29.8	33.8	31.6	33.8	32.4	NA
PCBs ug/L							
Total PCBs	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	0.09 / $1x10^{-6}$ / 0.00012****

Results expressed in milligrams per kilogram (mg/Kg).
NA-Not Available
* Human health source of drinking water / Aquatic life chronic toxicity / Aquatic life acute toxicity
** Human health source of drinking water / Aquatic life chronic toxicity
*** Hardness calculated using calcium and magnesium data obtained from laboratory ICP data
**** Human health source of drinking water / Human consumption of fish / Protection of wildlife
***** Cadmium, fluoride, lead aquatic standards calculated using average hardness value calculated using all surface water hardness values (32.7 mg/L).

Table 5
OU-2 Remedial Investigation
Analytical Data Summary - Sediment Samples
C & D Technologies, Inc. Facility
Huguenot, New York

Sample ID/Date Sampled/	SED-5 Jul-01	SED-1 Aug-99	SED-6 Jul-01	SED-3 Aug-99	SED-7 Jul-01	SED-8 Jul-01	SED-2 Aug-99	SED-4 Aug-99	SED-9 Jul-01	SED-10 Jul-01	SED-11 Sept 03		SED-12 Sept 03		SED-13 Sept 03		SED-14 Sept 03		NYSDEC Sediment Criteria	
											0-6"	6-12"	0-6"	6-12"	0-6"	6-12"	0-6"	6-12"	Low Effect Level	Severe Effect Level
Metals mg/Kg																				
Barium	97.5	90.1	84.6	67.7	97.4	206	37.3	15.6	29.1	137	45.7	21.5	50.1	20.6	60.2	27.8	32.7	31.3	NA	NA
Cadmium	<0.076		0.47		0.58	**1.4**			**2.3**	**3.7**	<0.16	<0.15	<0.17	<0.16	**3.3**	<0.13	**2**	0.23	0.6	9
Lead	24.6	**88.4**	27.9	**58.3**	**38.3**	**71.9**	24.9	***195***	***396***	***48.6***	6.4	<0.52	5.8	1.3	***208***	7.2	***112***	13.2	31	110
Anion mg/kg																				
Fluoride	4.5	<32.27	11	53.9	38	51	<16.56	17.74	5.3	17	5.99	<2.5	6.53	<2.62	<4.72	<2.26	<3.52	4.98	NA	NA
																			NYSDEC Sediment Criteria	
PCBs ug/Kg																				
Aroclor 1254	<63		**15J**		**170**	**210**			**350**	**1100**	**68**	<41	**52**	<43	<79	<37	<58	**170**		
Aroclor 1260	**31J**		**37J**		**150**	**140**			**720**	**370**	<45	<41	<48	<43	**130**	<37	**72**	<46		
Total PCBs	**31J**		**52J**		**320**	**350**			**1,070**	**1,470**	**68**	<41	**52**	<43	**130**	<37	**72**	**170**	0.018/62,063/434/31.5*	
TOC mg/Kg											17,600	6,590	16,200	9,750	40,200	11,100	25,400	15,400		
% Solids	52.9	26.8	35.8	21.7	38.3	30.8	60.4	64.9	53	39.8	73.5	80.1	70.4	76.4	42.4	88.6	56.8	72.3		

Date Sampled / Sample ID	FP-1 Sept 03		FP-2 Sept 03		FP-3 Sept 03		FP-4 Sept 03		NYSDEC Sediment Criteria	
	0-6"	6-12"	0-6"	6-12"	0-6"	6-12"	0-6"	6-12"	Low Effect Level	Severe Effect Level
Metals mg/Kg										
Barium	122	106	73.5	57	94.2	103	116	54.1	NA	NA
Cadmium	<0.21	<0.16	<0.18	<0.17	<0.19	<0.16	<0.27	<0.16	0.6	9
Lead	**67.5**	13.4	26.2	3.1	**46.8**	18.8	**89.2**	4.1	31	110
Anion mg/kg										
Fluoride	3.44	<2.75	14.3	<2.87	<3.11	<2.65	9.61	5.96	NA	NA
									NYSDEC Sediment Criteria	
PCBs ug/Kg										
Aroclor 1254	<58	<45	<49	<47	<52	<43	**90**	<45		
Aroclor 1260	**18 J**	**10 J**	**24 J**	<47	<52	**17 J**	<76	<45		
Total PCBs	**18**	**10 J**	**24 J**	<47	<52	**17 J**	**90**	<45	0.018/62,063/434/31.5*	
TOC mg/Kg	39,800	15,400	24,300	13,500	26,600	9,820	78,700	9,340		
% Solids	58.1	72.8	68.3	69.8	64.2	75.5	43.7	73.8		

NA-Not Available

*Human health bioaccumulation / Aquatic life acute toxicity / Aquatic life chronic toxicity / Wildlife bioaccumulation criteria based on average sediment organic carbon (SED-11 through SED-14 and FP-1 through FP-4) of 2.248 %

Values in bold exceed NYSDEC sediment criteria and values in ***bold and italics*** exceed metals severe effect criteria

Table 6

OU-2 Remedial Investigation
Analytical Data - CMP Soil Sample and Orange County Property Soil Sample
C & D Technologies, Inc. Facility
Huguenot, New York

	SSCMP July 01 0-6"	FS-1 Sept 03 0-6"	FS-1 Sept 03 6-12"	Site Specific Background Concentration*	NYSDEC TAGM 4046 RSCO	Eastern USA Background Concentration
Metals mg/Kg						
Barium	33.7	100	99.5	15.2	300 or SB	15 - 600
Cadmium	<0.042	<0.18	<0.17	<0.1	10	0.1 - 1
Lead	20.8	39.2	14.4	10.9	SB	200 - 300
Anion mg/kg						
Fluoride	<2.1	<3.06	<2.81	<10.3	NA	NA
PCBs ug/Kg						
Aroclor 1260	130	26 J	10 J	<17	1,000 / 10,000**	NA
TOC mg/Kg		22,100	11,000			
% Solids	95.9	65.4	71.3			

* Average of background soil samples SS-UP-01/SS-UP-02. Fluoride background average of the two Railroad Bed soil samples SS-RR-01 and SS-RR-02

** Surface soil RSCO / Sub-surface soil RSCO

Table 7
C D Technologies, Inc. Facility
Huguenot, New York
Site ID 336001
Lagoon March 2005
Soil Boring Data

PARAMETER	Regulatory Limit*	SB-1-05 0-0.6' BGW (12-12.5'BGS)	SB-1-05 2-4' BGW (14-16' BGS)	SB-1-05 8-10' BGW (20-22' BGS)	SB-1-05 10-11.4' BGW (22-23.4' BGS)	SB-2-05 +2 - 0' BGW (10-12' BGS)	SB-2-05 *** 2-4' BGW (14-16' BGS)	SB-2-05 4-6' BGW (16-18' BGS)	SB-2-05 6-8' BGW (18-20' BGS)	SB-3-05 0.5 -0.7' GBW (14-14.2' BGS)	SB-3-05 2.5-3.1' BGW (16-16.6' BGS)	SB-3-05*** 6.5-8.5' BGW (20-22' BGS)	SB-3-05 8.5-10.5' BGW (22-24' BGS)	SB-4-05 0-2' BGW (28-30' BGS)	SB-4-05 2-4' BGW (30-32' BGS)	SB-4-05 4-6' BGW (32-34' BGS)	SB-4-05 8-10' BGW (36-38' BGS)
Water Level in Augers		**11.9' BGS**				**11.9' BGS**				**13.5' BGS**				**27.8'BGS**			
Total Results mg/Kg																	
Barium	300 or SB	**930**	**991**	**711**	**440**	**1030**	**1370**	**739**	**673**	**590**	**359**	**666**	**429**	47.4	**377**	**429**	53
Cadmium	1 or SB	**175**	**112**	**74.9**	**80.8**	**316**	**57.2**	**42.6**	**21.3**	**11.8**	**4.14**	**7.42**	**3.87**	<0.25	**2.16**	**6.25**	0.29
Lead	10.9/ SB/400**	**92.2**	**72.4**	**56.2**	**94.5**	**780**	**143**	**73.6**	**55.4**	**26**	9.39	**53.3**	**18**	<0.25	**17.3**	10	<0.25
TCLP mg/L																	
Barium	100	6.98	8.57	5.86	3.53	4.18	11.8	5.61	6.52	4.51	3.76	5.5	4.17	0.65	2.82	3.47	1.74
Cadmium	1	**1.26**	0.9	0.83	0.39	**1.13**	0.15	0.32	0.24	0.11	0.09	0.06	<0.05	<0.05	<0.05	<0.05	<0.05
Lead	5	0.13	0.14	0.09	0.08	0.66	0.32	0.14	0.15	0.08	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	Regulatory Limit*	SB-5-05 +5 - +3' BGW (8-10' BGS)	SB-5-05 +3 - +1' BGW (10-12' BGS)	SB-5-05*** 0.8 -2.8' BGW (14-16' BGS)	SB-5-05 2.8 - 4.8' BGW 16-18' BGS)	SB-6-05 +1.2' - 0.8' BGW (30-32' BGS)	SB-6-05 0.8 -2.8' BGW (32-34' BGS)	SB-6-05 2.8' 4.8" BGW (34'36" BGS)	SB-6-05 6.8-8.8' BGW (38-40' BGS)	SB-7-05 +7.7-+5.7' BGW (6-8' BGS)	SB-7-05 +5.7-+3.7'BGW (8-10' BGS)	SB-7-05*** +3.7-+1.7' BGW (10-12' BGS)	SB-7-05 6.3-6.8' BGW (20-20.5' BGS)	SB-8-05 1.1-3.1' BGW (16-18' BGS)	SB-8-05 3.1 -5.1' BGW (18-20' BGS)	SB-8-05 5.1 - 7.1' BGW (20-22' BGS)	SB-8-05 10.1-11.2' BGW (25-26.2' BGS)
Water Level in Augers		**13.2' BGS**				**31.2' BGS**				**13.7' BGS**				**14.9' BGS**			
Total Results mg/Kg																	
Barium	300 or SB	**600**	**775**	**909**	**914**	18.5	20.7	24.6	25.9	**334**	259	236	**567**	53.6	139	167	229
Cadmium	1 or SB	**2,310**	**369**	**286**	**402**	<0.25	<0.25	<0.25	<0.25	**5.24**	**8.75**	**13.2**	**30.5**	0.26	**7.68**	**2.71**	**3.07**
Lead	10.9/ SB/400**	**1,020**	**240**	**169**	**168**	<0.25	<0.25	<0.25	<0.25	5.81	**35.8**	**30.1**	**32.9**	<0.25	<0.25	0.84	1.26
TCLP mg/L																	
Barium	100	8.12	11.5	10.9	12.5	<0.10	<0.10	0.11	<0.10	3.13	2.91	2.27	5.42	0.31	1.75	2.14	3.49
Cadmium	1	**5.63**	**5.34**	**1.94**	**1.94**	<0.05	<0.05	<0.05	<0.05	0.1	0.1	0.07	0.4	<0.05	0.1	<0.05	0.08
Lead	5	0.86	0.73	0.15	0.25	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	<0.05	0.06	<0.05	<0.05	<0.05	<0.05

NOTES

BGW - indicates depth below ground water

BGS - indicates depth below surface of lagoon

* NYSDEC TAGM 4046 for Soils and USEPA Toxicity Characteristic Regulatory Limit

**SB indicates Site Background. Typical Eastern USA background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4-61 ppm. Average background levels in metropolitan or suburban areas or near highways are much higher and typically range from 200-500 ppm. USEPA Soil Screening Guidance Value is 400 mg/Kg

*** No recovery in split spoon:

SB-1 No recovery from 16' to 20'

SB-2 No recovery from 12 to 14' BGS.

SB-3 No recovery from 16.6 to 20' BGS.

SB-7 No recovery from 12' to 20' BGS

TABLE 8
C&D Technologies, Inc. Facility
Huguenot, New York
Site ID 336001
FLUORIDE MODEL CALIBRATION PARAMETERS

Solutrans model summary for file D:\Program Files\Solutrans\cdcalfl.sti
Date: 12/18/03 Time: 9:04:18 AM

Global Model Parameters:
Average linear velocity in x direction: 0.785
Retardation Factor: 1
Dispersion coefficient Dx: 20.41
Dispersion coefficient Dy: 2.04
Dispersion coefficient Dz: 2.04
Number of intervals in numerical integrations: 50

Equilibrium Model Parameter:
First order decay coefficient: 0

Non-Equilibrium Model Parameters:
Characteristic Length: 200
Beta (partion coefficient): 0.1
Omega (mass transfer coefficent): 1
First order decay coefficent in equilibrium phase: 1
First order decay coefficent in non-equilibrium phase: 1
Type of concentration to calculate: 1

The data for each solution in the model is listed below.

Solution 2, equilibrium transport, steady-state rectangular inlet:
X coordinate of inlet: 0
Minimum Y coordinate of inlet: -300
Maximum Y coordinate of inlet: 300
Minimum Z coordinate of inlet: -32.5
Maximum Y coordinate of inlet: -15
Concentration at inlet: 40

Table 9
C&D Technologies, Inc. Facility
Mammal/Amphibian/Reptile/Mollusc Species That Could Potentially Utilize Habitats Within One-Half Mile Of The Site

COMMON NAME	GENUS AND SPECIES
Mammals	
Big Brown Bat	Eptesicus fuscus
Beaver	Custor canadensis
Bobcat	Lynx rufus
Eastern Cottontail	Sylvilagus floridanus
White-tailed Deer	Odocoileus virginiana
Ermine	Mustella erminea
Red Fox	Vulpes vulpes
Mink	Mustella vison
Hairy-tailed Mole	Parascalops brewri
Star-nosed Mole	Condylura cristata
Deer Mouse	Peromyscus maniculatus
House Mouse	Mus musculus
Meadow Jumping Mouse	Zapus hudsonius
Woodland Jumping Mouse	Napaeozapus insignis
Muskrat	Ondatra zibethica
Keen's Myotis	Myotis keenii
Little Brown Myotis	Myotis lucifugus
Virginia Opossum	Didelphis virginiana
Raccoon	Procyon lotor
Norway Rat	Rattus norvegicus
Northern Short-tailed Shrew	Blarina brevicauda
Striped Skunk	Mephitis mephitis
Gray Squirrel	Sciurus carolinensis
Meadow Vole	Microtus pennsylvanicus
Southern Red-backed Vole	Clethrionomys gapperi
Woodland Vole	Microtus pinetroum
Long-tailed Weasel	Mustella frenata
Woodchuck	Marmota monax
Amphibians/Reptiles/Mollusc	
Bull Frog	Rana catesbeiana
Green Frog	Rana clamitans
Pickerel Frog	Rana palustris
Wood Frog	Rana sylvatica
Eastern Newt	Notophthalmus viridescens
Spring Peeper	Hyla crucifer

Table 9
C&D Technologies, Inc. Facility
Mammal/Amphibian/Reptile/Mollusc Species That Could Potentially Utilize Habitats Within One-Half Mile Of The Site

COMMON NAME	GENUS AND SPECIES
Four-Toed Salamander	Ambystoma mulculatum
Brown Snake	Storeria dekayi
Eastern Ribbon Snake	Thammophis sauritus
Northern Water Snake	Nerodia sipedon
Redbelly Snake	Storeria occipitmaculata
Timber Rattlesnake	Crotalus horridus
Bog Turtle	Clemmys muhlenbergi
Painted Turtle	Chrysemys picta
Snapping Turtle	Chetydra serapentina
Spotted Turtle	Clemmys guttata
Dwarf Wedgemussel	Alasmidonta heterodon
Brook Floater	Alasmidonta varicosa
Alewife Floater	Anodonta implicata

Table 10
C&D Technologies, Inc. Facility
Fish Species
That Could Potentially Utilize Habitats Within One-Half Mile Of The Site

COMMON NAME	GENUS AND SPECIES
American Eel	Anguilla rostrata
American Shad	Alosa sapidissima
Banded Killfish	Fundulus diaphanous
Blacknose Dace	Rhinichthys atratulus
Blacknose Shiner	Notropis heterolepis
Bluegill	Lepomis macrochirus
Bluntnose Minnow	Pimephales notatus
Brook Stickleback	Culaea inconstans
Brook Trout	Salvelinus fontinalis
Brown Bullhead	Ictalurus nebulosus
Brown Trout	Salmo trutta
Chain Pickerel	Esox niger
Common Shiner	Notropis cornutus
Creek Chub	Semotilus astromaculatus
Fall Fish	Semotilus corporalis
Fantail Darter	Etheostoma flabellare
Golden Shiner	Notemigonus crysoleucas
Largemouth Bass	Micropterus salmoides
Longnose Dace	Rhinichtys cataractae
Longnose Sucker	Catostomus catostomus
Nothern Hogsucker	Hypentelium nigricans
Pearl Dace	Semotilus margarita
Pumpkinseed	Lepomis gibbosus
Rainbow Trout	Salmo gairdnieri
Rock Bass	Ambloplites rupestris
Slimy Sculpin	Cottus cognatus
Smallmouth Bass	Micropterus dolomieui
Spottail Shiner	Notropis hudsonius
Swallowtail Shiner	Notropis procne
Tessellated Darter	Etheostoma olmstedi
White Sucker	Catostomus commersoni
Yellow Perch	Perca flavescens

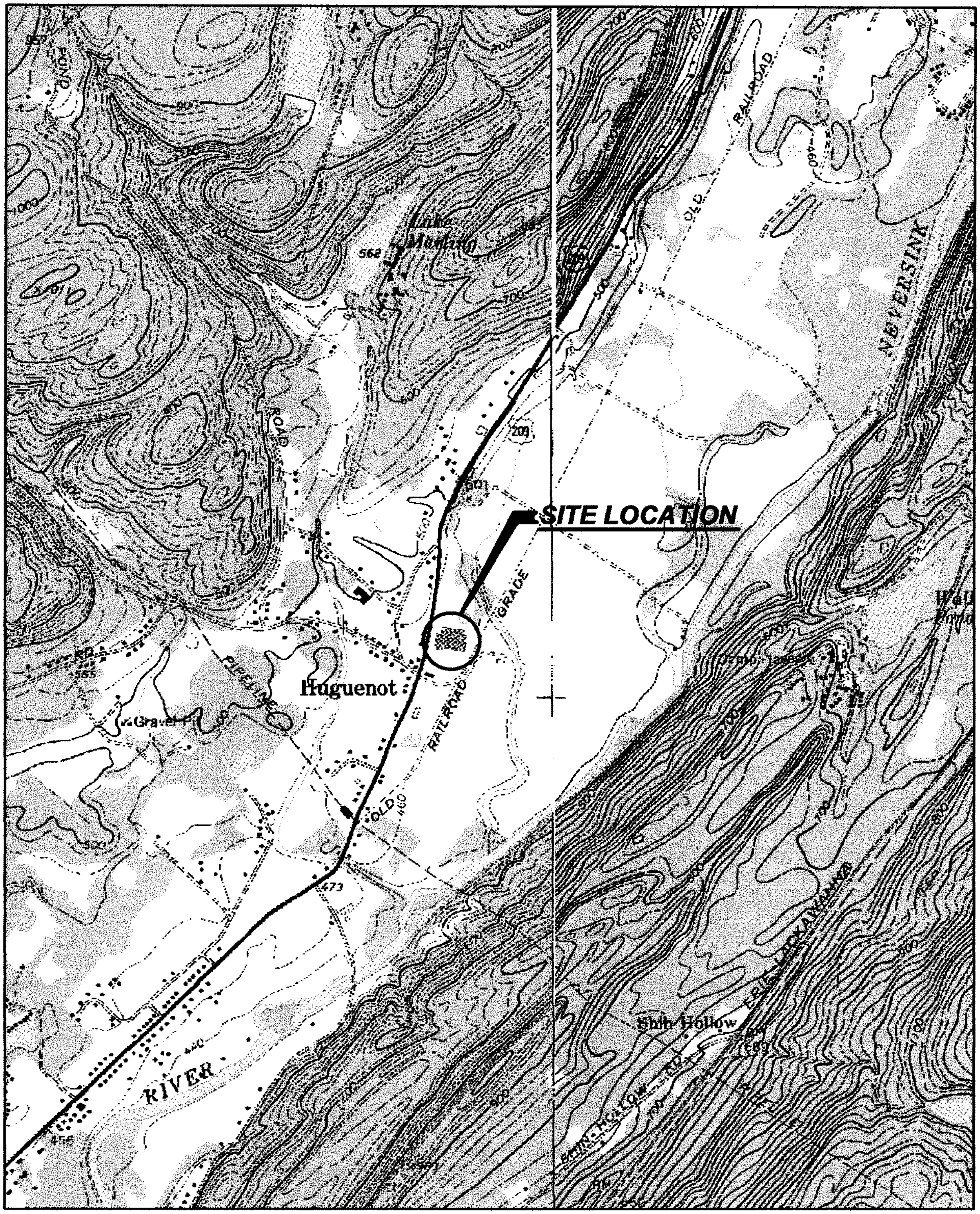
Table 11
C&D Technologies, Inc. Facility
Bird Species
That Could Potentially Utilize Habitats Within One-Half Mile Of The Site

COMMON NAME	GENUS AND SPECIES
American Black Duck	Anas rubripes
American Crow	Corvus brachyrhynchos
American Goldfinch	Carduelis trustis
American Kestrel	Falco sparverius
American Robin	Turdus migratorius
Bald Eagle	Haliaeetus leucocephalus
Barn Swallow	Hirudo rustica
Black-capped Chickadee	Parus atricapillus
Blue Jay	Cyanocitta cristata
Blue-winged Teal	Anas discors
Brown-headed Cowbird	Molothrus ater
Canada Goose	Branta canadensis
Cedar Waxwing	Bronbycila cedrorum
Chimney Swift	Chaetura pelagica
Common Barn Owl	Tyto alba
Common Grackle	Quiscalus guiscula
Common Nighthawk	Chordeiles minor
Common Yellowthroat	Geothypis trichas
Copper's Hawk	Accipiter cooperii
Downy Woodpecker	Picoides pubescens
Eastern Phoebe	Sayonis phoebe
European Starling	Stumus vulgaris
Great-horned Owl	Dubo virginianus
House Sparrow	Passer domesticus
House Wren	Troglodytes aedon
Killdeer	Charadrius vociferus
Mallard	Anas platyrhynchos
Mourning Dove	Zenaida macroura
Northern Cardinal	Cardinalis cardinalis
Red-tailed Hawk	Buteo jamaicensis
Red-winged Blackbird	Agelaius phoneniceus
Rock Dove	Columba livia
Rough-winged Swallow	Stelgidoptery ruficollis
Ruby-throated Hummingbird	Archilochus colubris
Ruffed Grouse	Bonasa umbellus
Screech Owl	Otus asio
Song Sparrow	Melospiza melodia
Spotted Sandpiper	Actitis macularia
White-breasted Nuthatch	Sitta carolinensis

Table 11
C&D Technologies, Inc. Facility
Bird Species
That Could Potentially Utilize Habitats Within One-Half Mile Of The Site

COMMON NAME	GENUS AND SPECIES
Wild Turkey	Meleagris gallopavo
Wood Duck	Aix sponsa
Yellow Warbler	Dendroica petechia

FIGURES



MAP REFERENCE:
PORT JERVIS NORTH & OTISVILLE
USGS QUAD MAPPING

0' 1000' 2000'

FILENAME: LOCATION.DWG

DELAWARE ENGINEERING, P.C.
28 Madison Avenue Extension
Albany, New York 12203
Phone 518-452-1290
FAX 518-452-1335

MAY 26, 00

SITE LOCATION MAP

C & D TECHNOLOGIES
NYS ROUTE 209
HUGUENOT, NEW YORK

FIGURE 2 FLUORIDE MODEL CALIBRATION

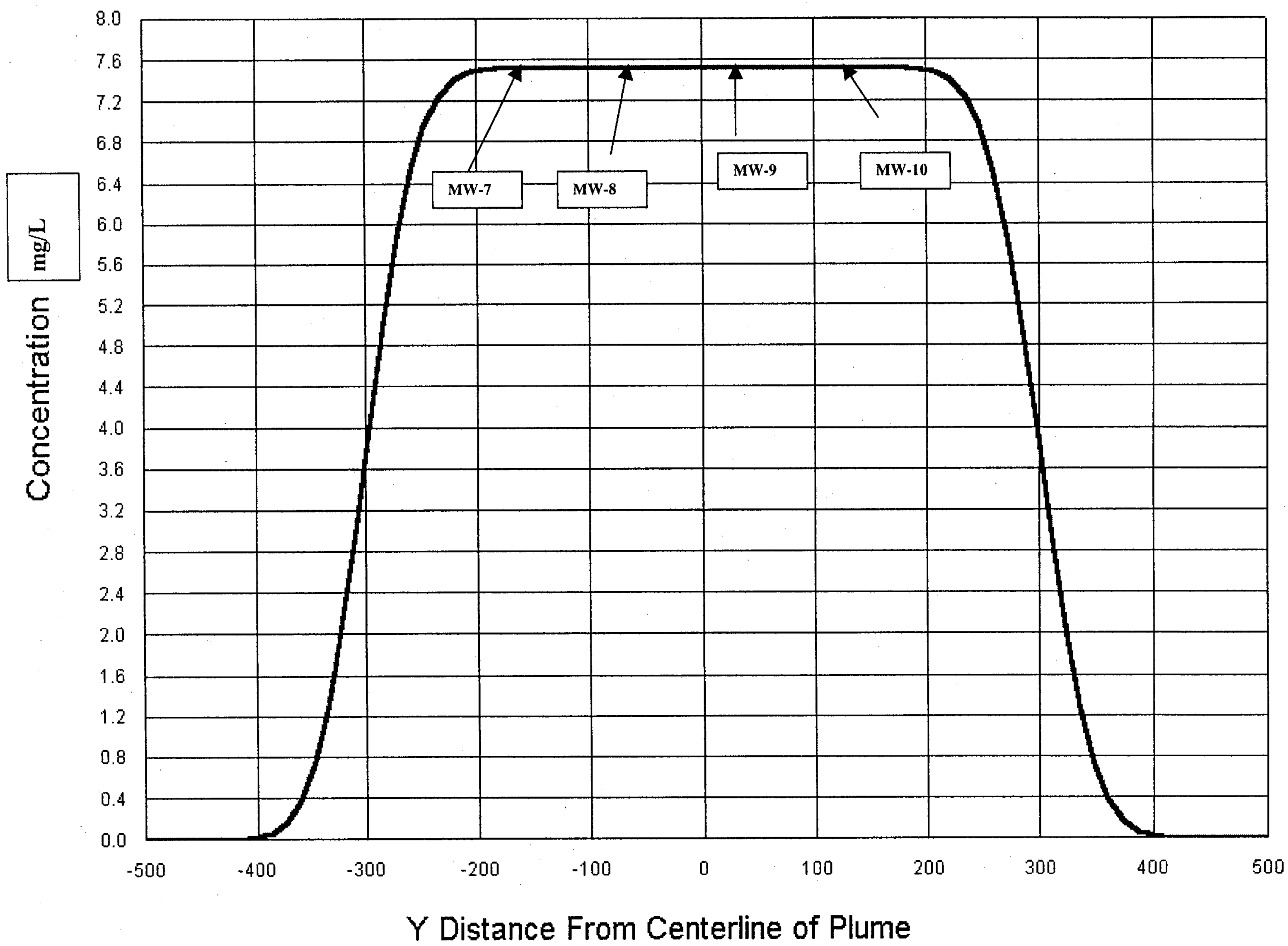


FIGURE 3 MODEL FLOURIDE CONCENTRATION PREDICTION AT MW-16

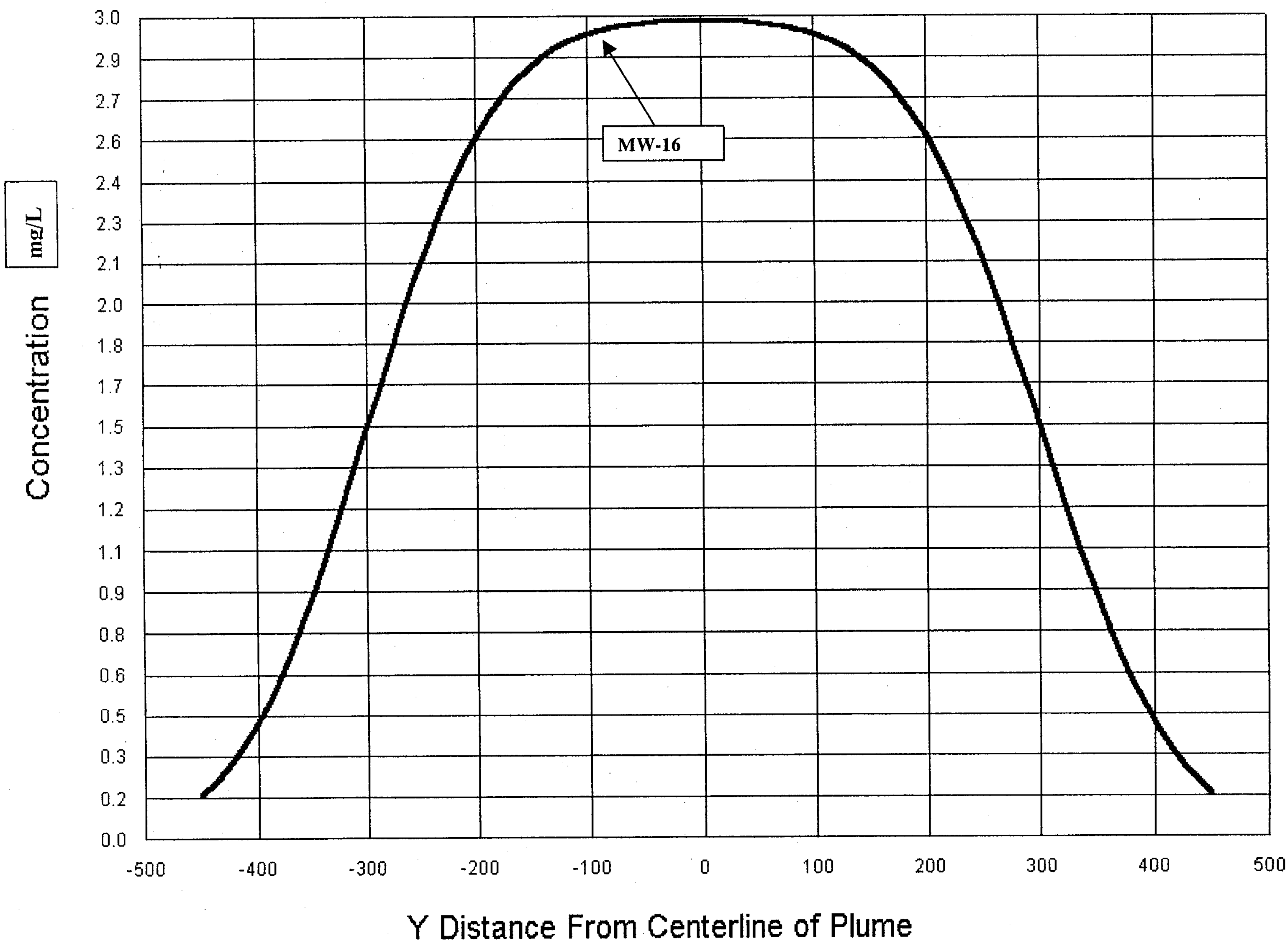


FIGURE 4 MODEL FLUORIDE CONCENTRATION PREDICTION AT MW-15

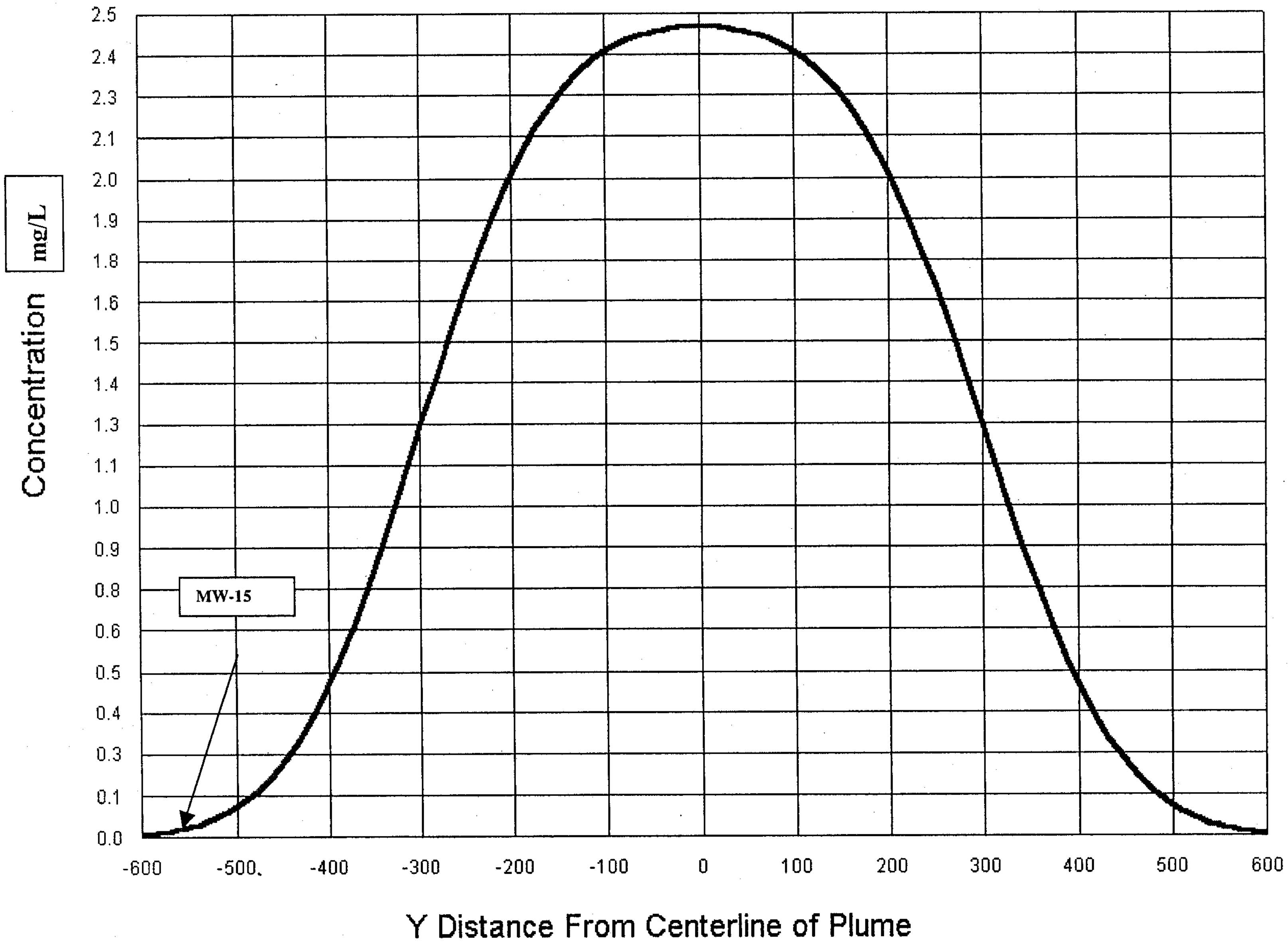


FIGURE 5 MODEL FLOURIDE CONCENTRATION PREDICTION AT MW-17

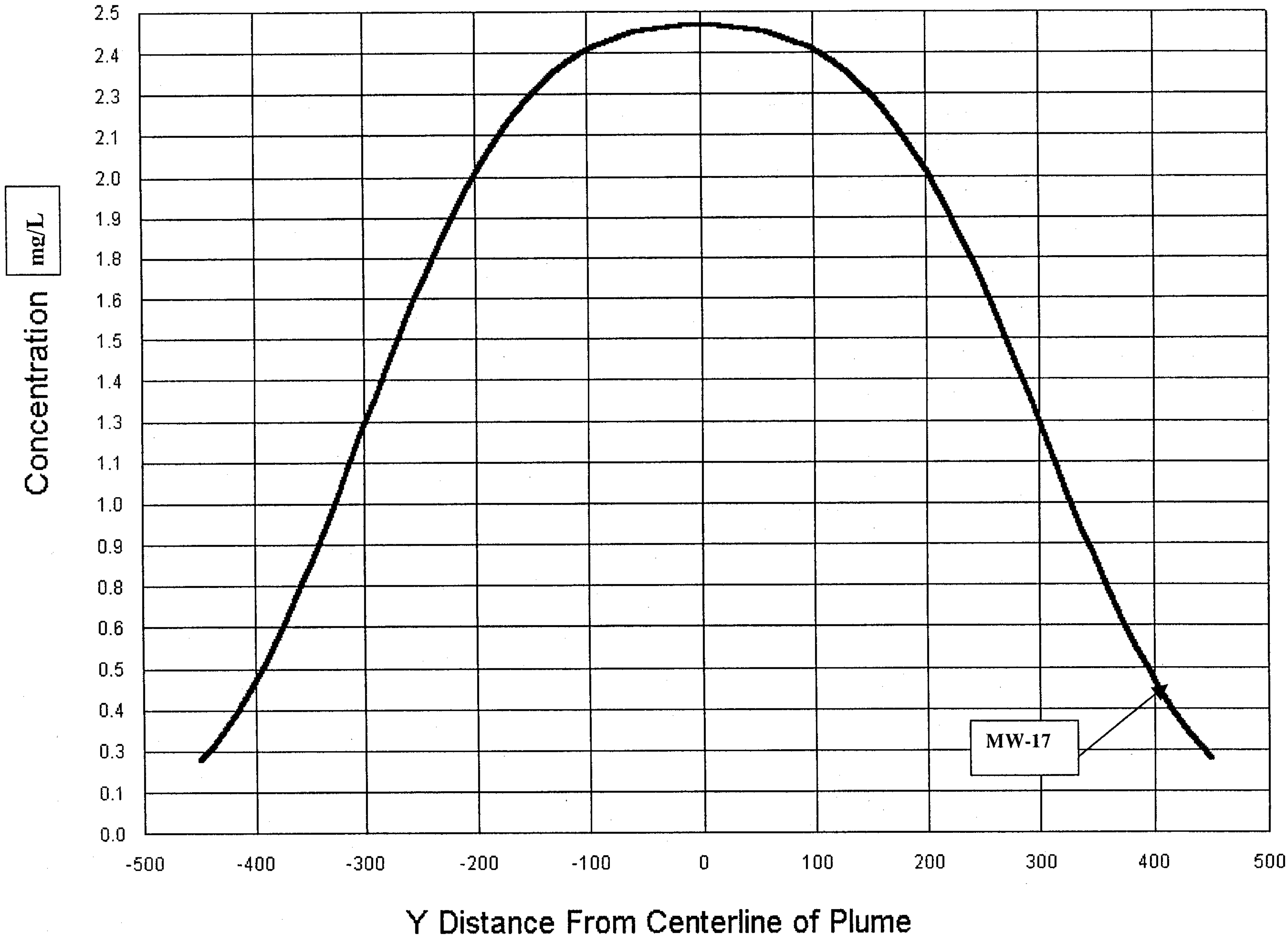


FIGURE 6 MODEL FLUORIDE CONCENTRATIO PREDICTION AT MW-17A

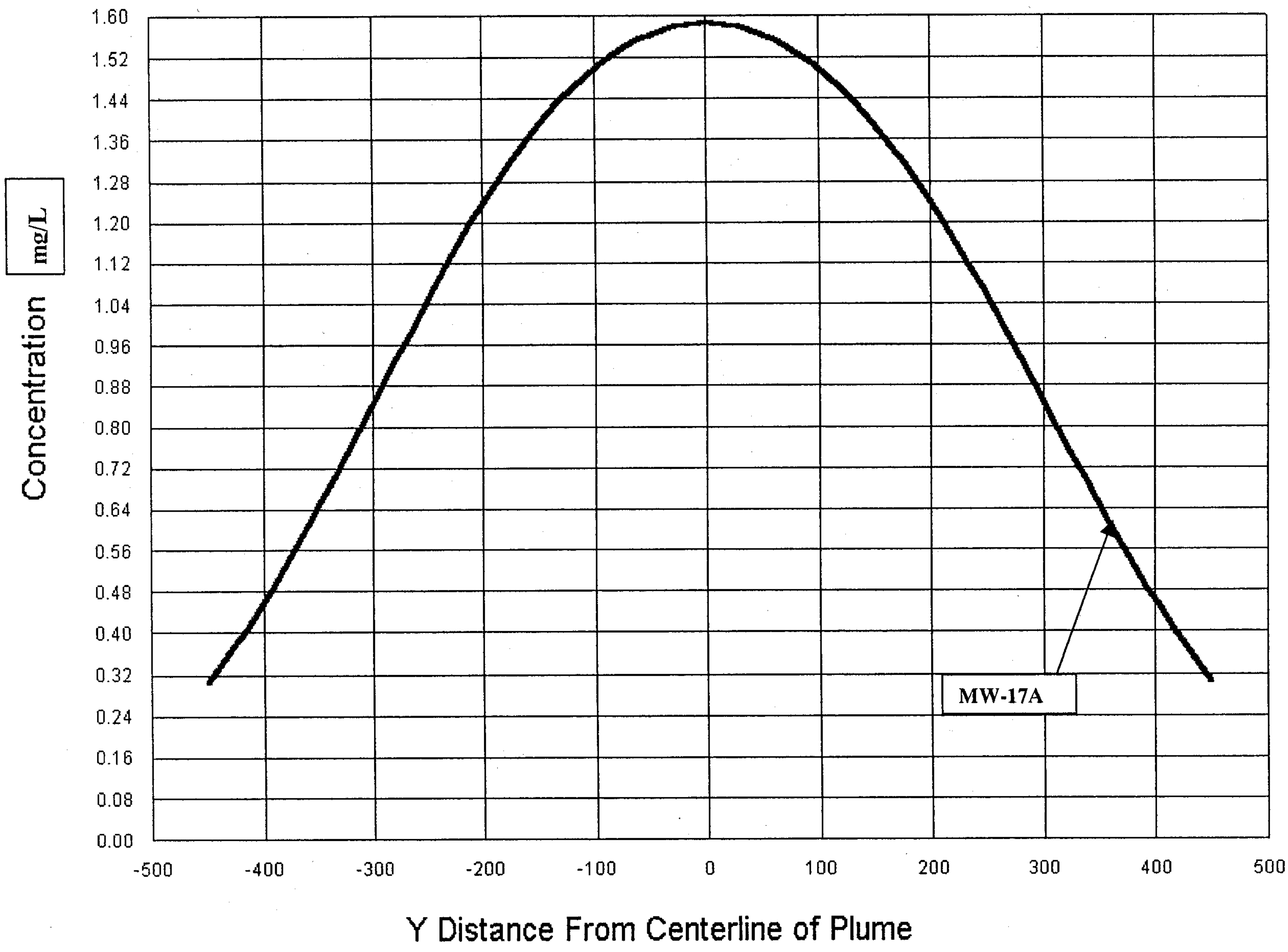
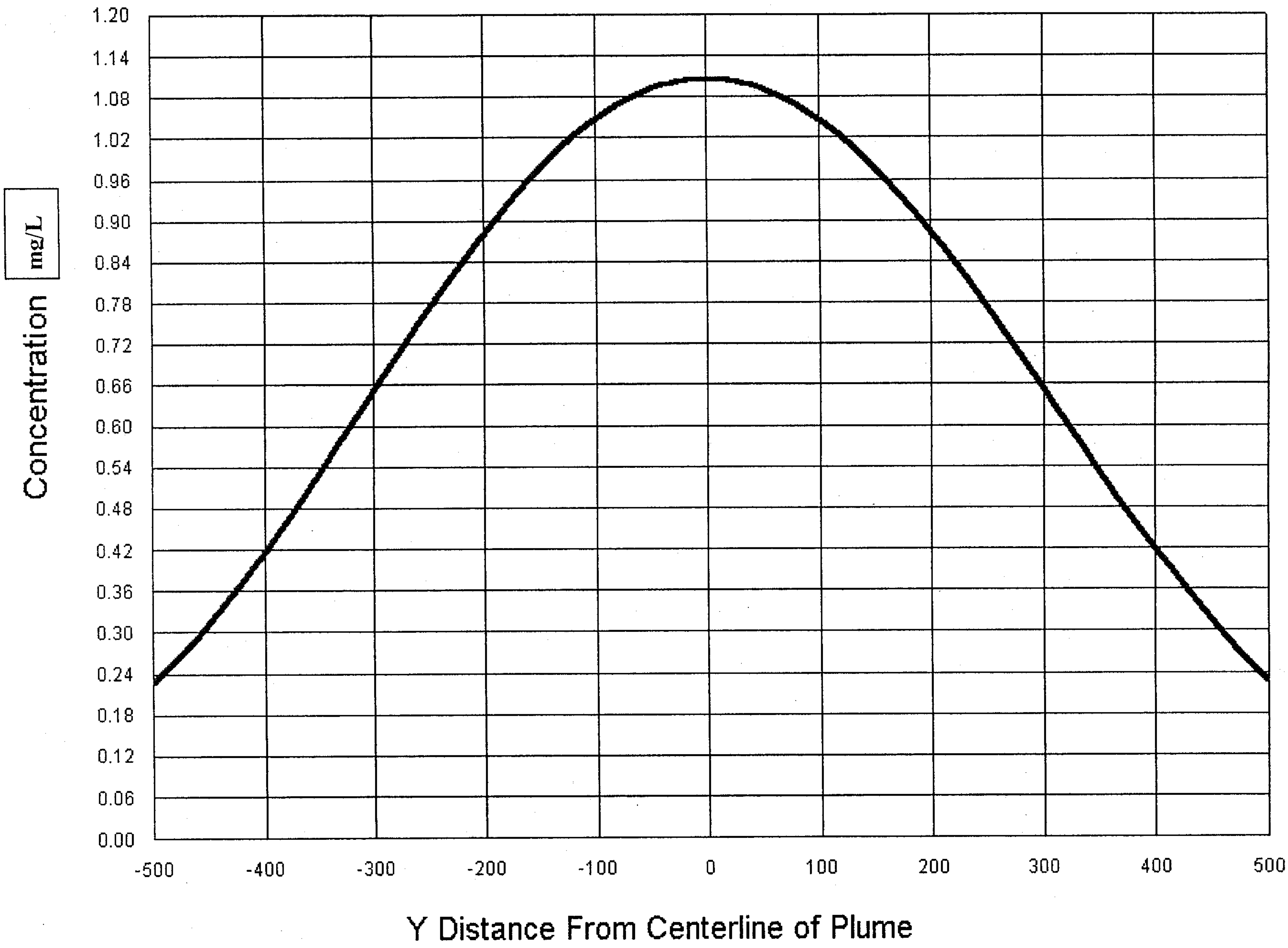


FIGURE 7 PREDICTED FLUORIDE CONCENTRATIONS 1,500 FEET DOWNGRADIENT OF LAGOON



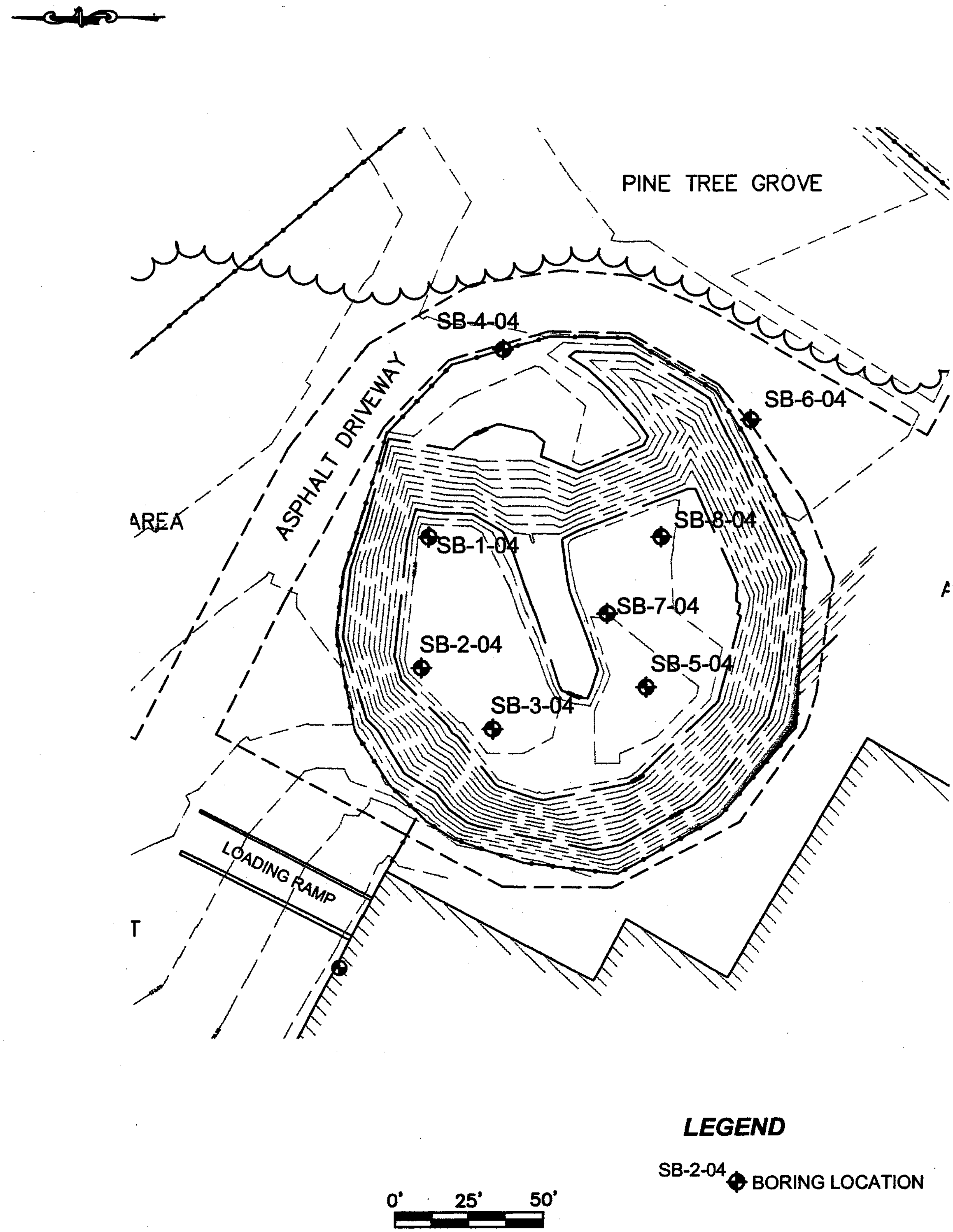


FIGURE 8

H:\Drawings\CD_TECH\LAGOON_ZONE.dwg 07/17/06

LAGOON SATURATED ZONE BORING LOCATIONS

C & D TECHNOLOGIES, INC.
HUGUENOT, NEW YORK

DATE:	11/11/04
DRAWN BY:	KJ
SCALE:	AS SHOWN
REVIEWED BY:	EF
DATE REVISED:	01/05/05

DELAWARE ENGINEERING, P.C.
CIVIL AND ENVIRONMENTAL ENGINEERING
ALBANY:
28 Madison Avenue Extension - Albany, NY 12203
Phone: (518) 452-1290 - Fax: (518) 452-1335
ONEONTA:
8-12 Dietz Street, Suite 303 - Oneonta, NY 13820
Phone: (607) 432-8073 - Fax: (607) 432-0432

Figure 9
Areas of Impacted Tributary D-1-7 Sediments
C&D Technologies, Inc.
Huguenot, New York Site

APPENDIX A

MONITORNG WELL

AND SOIL BORING

LOGS

Alpha Geoscience
679 Plank Road
Clifton Park, New York 12065

DRILLING LOG

Boring ID: MW-15A

Project Number/Name: 03124 /C&D Battery | Location: Huguenot, NY

Drilling Contractor/Personnel: Aquifer Drilling & Testing, Victor Champagne, Remy

Geologist/Inspector: John M. Nadeau | Start/ Finish Date: 8/27/03

Drilling Equip/Method: CME 550 Track Rig/HSA | Size/Type of Bit: 4 1/4" I.D. HSA

Sampling Method: 2 foot continuous split spoon | Well Installed? Yes

Elevation/Ground Surface:

Depth to Ground Water from Ground Surface (Date):

REMARKS:

Depth (Ft)	Sample No.	Blows Per 6 In.	Recovery (ft)	DESCRIPTION	REMARKS
1	SS-1	2 - 2 1 - 1	2.0	Brown very fine to fine sand, some silt, trace fine gravel; moist	3-inch root zone
2					
3	SS-2	wt 1 - 2	2.0	Mottled brown to orange-brown very fine to fine sand, and silt, trace(-) clay; wet	
4					
5	SS-3	1 - 1 1	2.0	5.9	
6				Grey silt, little very fine sand, trace clay; wet	
7	SS-4	wt 1 - 1	2.0		
8					
9	SS-5	wt 4 - 7	1.75	9.0 Grey coarse sand, little very fine to medium sand, trace silt; very wet	
10					
11	SS-6	10-15 14-21	1.1	11 Brown coarse sand, and fine to coarse gravel, cobble, little fine to medium sand; very wet	
12					
13	SS-7	25-37 32-10	1.0		
14					
15				Bottom of Boring at 15'	
16					
17				wt = sampler advanced 6-inches by weight of drill rods	
18					
19					
20					

Proportions Used: Trace=0-10% Little=10-20% Some=20-35% And-35-50%

Alpha Geoscience
679 Plank Road
Clifton Park, New York 12065

DRILLING LOG

Boring ID: MW-16

Project Number/Name: 03124 /C&D Battery   Location: Huguenot, NY

Drilling Contractor/Personnel: Aquifer Drilling & Testing, Victor Champagne, Remy

Geologist/Inspector: John M. Nadeau   Start/ Finish Date: 8/27/03

Drilling Equip/Method: CME 550 Track Rig/HSA   Size/Type of Bit: 4 1/4" I.D. HSA

Sampling Method: 2 foot continuous split spoon   Well Installed? Yes

Elevation/Ground Surface:

Depth to Ground Water from Ground Surface (Date):

REMARKS:

Depth (Ft)	Sample No.	Blows Per 6 In.	Recovery (ft)	DESCRIPTION	REMARKS
1	SS-1	1 - wt 1 - 2	0.67	Mottled Grey-brown to brown silt, some very fine sand, little clay; moist	3-inch root zone
2					
3	SS-2	2 - 2 3 - 3	1.9		3.0-3.25' wet zone
4					3.75-3.9' wet zone
5	SS-3	2 - 2 3 -4	1.75	5.9	very moist 5-5.9'
6					
7	SS-4	44-16 22-12	1.2	Grey very fine to coarse sand, some very fine to coarse gravel, little silt; wet 8.0	
8					
9	SS-5	wt - 3 7 - 11	1.75	Grey medium to coarse sand, some fine gravel, little (+) fine sand, trace silt; wet 9.0	
10				Grey medium to coarse sand, some (+) very fine to coarse gravel, cobble, little very fine to fine sand, trace silt; wet	
11	SS-6	2-10 11-9	1.1		
12					
13	SS-7	11-7 4 - 4	1.0		
14					
15				Bottom of Boring at 15'	
16					
17					
18				wt = sampler advanced 6-inches by weight of drill rods	
19					
20					

Proportions Used: Trace=0-10% Little=10-20% Some=20-35% And-35-50%

Alpha Geoscience
679 Plank Road
Clifton Park, New York 12065

DRILLING LOG

Boring ID: MW-17

Project Number/Name: 03124 /C&D Battery — Location: Huguenot, NY

Drilling Contractor/Personnel: Aquifer Drilling & Testing, Victor Champagne, Remy

Geologist/Inspector: John M. Nadeau — Start/ 8/26/03 Finish Date: 8/27/03

Drilling Equip/Method: CME 550 Track Rig/HSA — Size/Type of Bit: 4 1/4" I.D. HSA

Sampling Method: 2 foot continuous split spoon — Well Installed? Yes

Elevation/Ground Surface:

Depth to Ground Water from Ground Surface (Date):

REMARKS:

Depth (Ft)	Sample No.	Blows Per 6 In,	Recovery (ft)	DESCRIPTION	REMARKS
0–2	SS-1	Push	0.75	Brown very fine to medium sand, some silt, trace fine to coarse gravel (2.25)	3-inch root zone
				Reddish-brown coarse sand (2.50)	
2–4	SS-2	Push	0.75	Reddish-brown very fine to fine sand, some silt; moist (4.0)	
4–6	SS-3	Push	1.45	Interbedded layers of (< 1/4 inch) Reddish-brown very fine to fine sand, some silt; and red silt, some very fine sand; and occasional layers of coarse sand, little very fine gravel; moist (10)	
6–8	SS-4	Push	1.50		
8–10	SS-5	Push	0.60		7.5-9.0 very moist
10–12	SS-6	22-24 / 32-42	1.5	Reddish-brown very fine to coarse sand and medium to coarse gravel, cobble, little silt; very moist (12)	
12–14	SS-7	13-12 / 21-20	1.2	Reddish-brown coarse sand, and very fine to coarse gravel, cobble, little very fine to medium sand, trace silt; wet (14)	
14–16	SS-8	3-13 / 13-13	1.25	Brown medium to coarse sand, and very fine to coarse gravel, cobble, little very fine to fine sand, trace silt; very wet (17)	
16–18	SS-9	10-35 / 27-15	1.25	Brown medium to coarse sand, and very fine to fine gravel, little (+) very fine to fine sand, little (-) coarse gravel, trace silt; wet	
18–20	SS-10	1 - 1 / 3 -12	0.9		
				Bottom of Boring at 20'	

Proportions Used: Trace=0-10% Little=10-20% Some=20-35% And-35-50%

Alpha Geoscience
679 Plank Road
Clifton Park, New York 12065

DRILLING LOG

Boring ID: MW-17A

Project Number/Name: 03124 /C&D Battery   Location: Huguenot, NY

Drilling Contractor/Personnel: Aquifer Drilling & Testing, Victor Champagne, Rudy

Geologist/Inspector: John M. Nadeau   Start/ Finish Date: 8/28/03

Drilling Equip/Method: CME 550 Track Rig/HSA   Size/Type of Bit: 4 1/4" I.D. HSA

Sampling Method: 2 foot continuous split spoon   Well Installed? Yes

Elevation/Ground Surface:

Depth to Ground Water from Ground Surface (Date):

REMARKS:

Depth (Ft)	Sample No.	Blows Per 6 In.	Recovery (ft)	DESCRIPTION	REMARKS
0–2				Mottled Reddish-brown to orange-brown very fine to coarse sand, some(-) silt, trace very fine to fine gravel, moist	Augered 0'-2' without sampling
2–4	SS-1	5-5 6-6	2.0	(continued) 4.25	
4–6	SS-2	1-1 1-2	1.67	Mottled Reddish-brown to orange-brown very fine to fine sand, some silt, little(-) medium to coarse sand, wet 7.0	
6–8	SS-3	1-2 2-2	1.67	Mottled Grey to orange-brown silt, little very fine to fine sand, little(-) clay; wet 8.75	
8–10	SS-4	1-1 3-3	1.67	Grey-brown medium to coarse sand, some(-) very fine to fine gravel, little very fine to fine sand, trace silt; wet	
10–12	SS-5	wt-8 15-21	2.0	(continued) 11.5	
12–14	SS-6	50-25 14-12	0.9	Grey-brown medium to coarse sand, some very fine to coarse gravel, cobble, little very fine to fine sand, trace silt; wet	Rock fragments in bottom of SS-6
14–15					
15–20				Bottom of Boring at 15' wt = sampler advanced 6-inches by weight of drill rods	

Proportions Used: Trace=0-10% Little=10-20% Some=20-35% And-35-50%

ATTACHMENT 2

Well Completion Logs

Project: C&D Battery
Project No.: 01124
Client: Delaware Engineering
Location: Huguenot, NY
Geologist/Hydrogeologist: John Nadeau
Date Drilled: 7/23/01

Log of Borehole: MW-14

Sheet: 1 of 2

Depth BGS (ft)	Number	Blows Per 6 Inches	Recovery (ft)	DESCRIPTION (Trace=0-10%, Little=10-20%, Some=20-35%, And=35-50%)	Remarks
1	SS-1	5 6 5 3	0.1	brown very fine to coarse sand, and very fine to coarse gravel, some organic 0.5'	little coarse gravel 1-2 ft
3	SS-2	6 6 8 8	1.1		
5	SS-3	6 7 7 8	1.2	tan fine to coarse sand	moist at 4.5-10 ft
7	SS-4	6 5 6 6	1.7		
9	SS-5	5 4 5 10	1.4	10.0	
11	SS-6	14 17 21 23	0.1	cobble fragments 12.0	Rock fragment in split spoon
13	SS-7	21 18 14 15	1.7	brown fine to coarse sand and very fine to coarse gravel, cobble 14.5	
15	SS-8	8 9 10 12	1.9	light tan very fine to fine sand and silt	
17	SS-9	13 15 15 16	1.8	17.0 brown very fine to coarse sand, some fine to coarse gravel, trace silt 18.25	
19	SS-10	8 9 9 10	2.0	light brown very fine to fine sand and silt	

Drilling Contractor: ADT
Drilling Personnel: Richie, Kieth, Kim
Drilling Equipment: CME 55
Drilling Method: Hollow Stem Auger
Size/Type of Auger: 4 1/4
Sampling Method: Split Spoon
Well Installed?: Yes

ALPHA GEOSCIENCE
1071 Troy-Schenectady
Latham, New York
12110

Project: C&D Battery
Project No.: 01124
Client: Delaware Engineering
Location: Huguenot, NY
Geologist/Hydrogeologist: John Nadeau
Date Drilled: 7/23/01

Log of Borehole: MW-14

Sheet: 2 of 2

Depth BGS (ft)	Number	Blows Per 6 Inches	Recovery (ft)	DESCRIPTION (Trace=0-10%, Little=10-20%, Some=20-35%, And=35-50%)	Remarks
21	SS-11	8 9 9 10	1.9	light brown very fine to fine sand and silt	
22–24	SS-12	5 4 5 6	1.7		wet at 22.5 ft
24–26	SS-13	3 3 7 10	1.7	25.5 — brown very fine to coarse sand, little fine gravel, trace silt	
26–28	SS-14	9 10 5 14	1.9	26.5 — light brown very fine to fine sand and silt; 27.5 — brown fine to coarse sand, some very fine to coarse gravel, trace silt	
28–30	SS-15	8 7 8 9	0.9		
30–32	SS-16	1 2 5 7	1.2		percentage of fine gravel increases with depth
32–34	SS-17	6 9 12 15	1.9	33.5 — brown to grey fine to coarse gravel, some coarse sand	
34–36	SS-18	10 17 18 14	0.9		
36–38	SS-19	10 11 15 14	NR	37.0 — brown to fine to coarse sand, little very fine to coarse gravel; 37.5 — light brown very fine to fine sand and silt	
38–40					Bottom of boring at 40.0 ft

Drilling Contractor: ADT
Drilling Personnel: Richie, Kieth, Kim
Drilling Equipment: CME 55
Drilling Method: Hollow Stem Auger
Size/Type of Auger: 4 1/4
Sampling Method: Split Spoon
Well Installed?: Yes

ALPHA GEOSCIENCE
1071 Troy-Schenectady
Latham, New York
12110

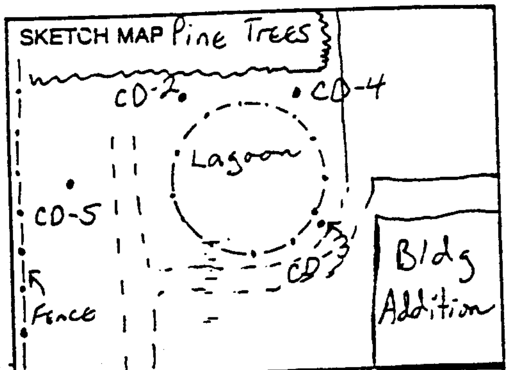
ENVIRONMENTAL RESOURCES MANAGEMENT, INC.

DRILLING LOG

PROJECT: C&D Batteries
LOCATION: Huguenot, New York
WELL NUMBER: CD-5
SURFACE ELEVATION:
DRILLING COMPANY: Emprie
DRILLING METHOD: Cable Tool
DATE DRILLED: 12-29-81
DRILLER: D.Diedrickson
HELPER: R.Beckwith
LOG BY: C. Werle

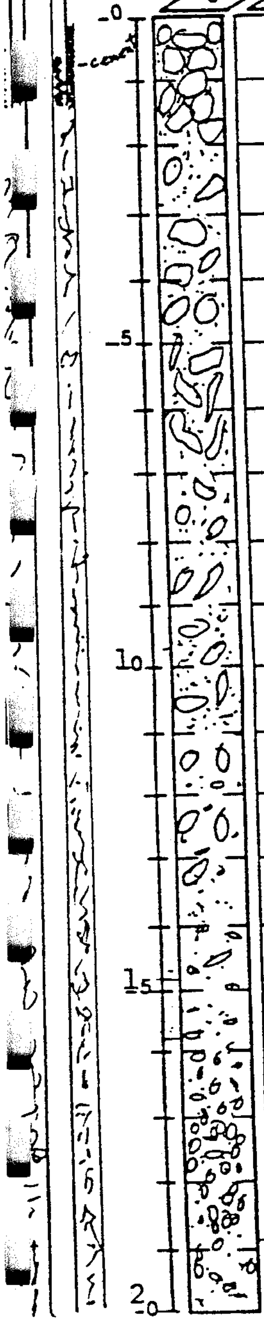
OWNER:
ADDRESS:
TOTAL DEPTH 45 feet
WATER LEVEL:

SKETCH MAP



NOTES:

-Protective Casing



DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS	DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
0	1			Dark brown medium to coarse sand with pebbles (shale and quartz).
5	2			Dark brown coarse sand and pebbles, minor amount of medium sand, 1% - 2% interstitial silt material dense & tightly packed.
10	3			Same as above with brown silty coating on pebbles.
15	4			Gravel with minor brownish gray interstitial silty clay.
20	5			Same as above with some fine sand.

ENVIRONMENTAL RESOURCES MANAGEMENT, INC.

DRILLING LOG

PROJECT: C&D Batteries
OWNER:
LOCATION: Huguenot New York
ADDRESS:
WELL NUMBER: CD-5 (CONT)
TOTAL DEPTH 45 feet
SURFACE ELEVATION:
WATER LEVEL:
DRILLING COMPANY: Empire
DRILLING METHOD: Cable Tool
DATE DRILLED: 12-29-81
DRILLER: D.Diedrickson
HELPER: R.Beckwith
LOG BY: C. Werle

SKETCH MAP

NOTES:

DEPTH (FEET)	GRAPHIC LOG	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS*	DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
20					
25		6			Coarse angular pebbles and small cobbles.
30		7			Pebbles and gravel, angular to subround. Repeated refusal with augers.
35		8			Grayish black coarse sand and fine gravel pebbles grading into 3" of fine sand with tan brown plastic clay at base of sample.
40		9			Gravel and pebbles with interstitial fine sand and silt.

* A.S.T.M. D1586

ENVIRONMENTAL RESOURCES MANAGEMENT, INC.

DRILLING LOG

PROJECT: C&D Batteries
OWNER:
LOCATION: Huguenot New York
ADDRESS:
WELL NUMBER: CD-5 (CONT)
TOTAL DEPTH: 45 feet
SURFACE ELEVATION:
WATER LEVEL:
DRILLING COMPANY: Emprie
DRILLING METHOD: Cable Tool
DATE DRILLED: 12-29-81
DRILLER: D.Diedrickson
HELPER: R.Beckwith
LOG BY: C. Werle

SKETCH MAP

NOTES:

DEPTH (FEET)	GRAPHIC LOG	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS*	DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
40					
45		10			Coarse sand and gravel, some pebbles 1% - 2% fine sand and silt.
-0					
-5					
-0					

* A.S.T.M. D1586

SHEET 3 OF 3

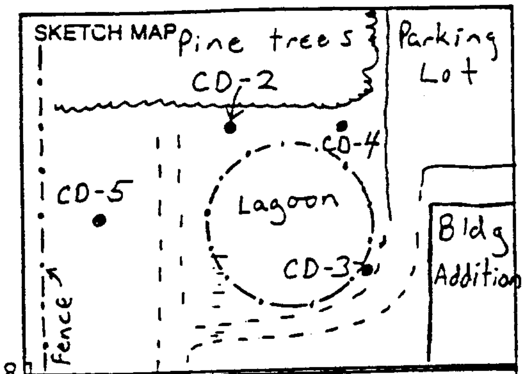
ENVIRONMENTAL RESOURCES MANAGEMENT, INC.

DRILLING LOG

PROJECT: C&D Batteries
LOCATION: Huguenot New York
WELL NUMBER: CD-2
SURFACE ELEVATION:
DRILLING COMPANY: Empire
DRILLING METHOD: Cable Tool
DATE DRILLED: 12-30-8
DRILLER: D.Diedrickson
HELPER: R.Beckwith
LOG BY: C. Werle

OWNER:
ADDRESS:
TOTAL DEPTH 40.5 feet
WATER LEVEL:

SKETCH MAP



NOTES:

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS*	DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
0	1			Dark brown fine and medium sand with pebbles.
5	2			Light tan fine to medium sand interbedded with tan silt. Individual units well sorted.
10	3			Brownish gray medium to coarse sand and gravel with subangular to subrounded shale and quartz pebbles.
15	4			Same as above.
20	5			Same as above.

* A.S.T.M. D1586

SHEET 1 OF 2

ENVIRONMENTAL RESOURCES MANAGEMENT, INC.

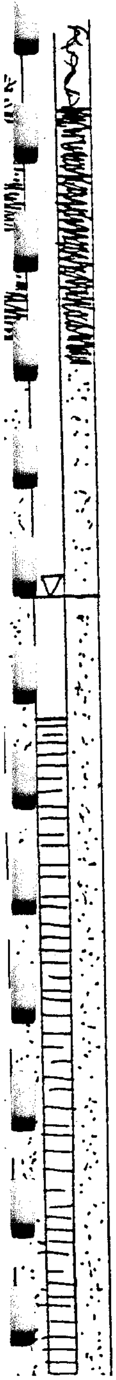
DRILLING LOG

PROJECT: C&D Batteries
LOCATION: Huguenot New York
WELL NUMBER: CD-2 (CONT)
SURFACE ELEVATION:
DRILLING COMPANY: Empire
DRILLER: D.Diedrickson
LOG BY: C. Werle

OWNER:
ADDRESS:
TOTAL DEPTH: 40.5 feet
WATER LEVEL:
DRILLING METHOD: Cable Tool
DATE DRILLED: 12-30-81
HELPER: R.Beckwith

SKETCH MAP

NOTES:



DEPTH (FEET)	GRAPHIC LOG	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS*	DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
20					
25		6			Medium to coarse sand and gravel, some fine sand, no pebbles.
30		7			Medium to coarse sand and gravel, small pebbles, angular to subangular.
35		8			Same as above.
40		9			Gravel with coarse sand and pebbles, tannish brown silt as coating on material.

* A.S.T.M. D1586

SHEET 2 OF 2

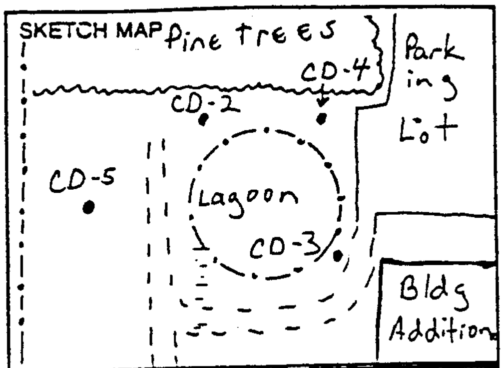
ENVIRONMENTAL RESOURCES MANAGEMENT, INC.

DRILLING LOG

PROJECT: C&D Batteries
LOCATION: Huguenot New York
WELL NUMBER: CD-3
SURFACE ELEVATION:
DRILLING COMPANY: Empire
DRILLER: D. Diedrickson
LOG BY: C. Werle

OWNER:
ADDRESS:
TOTAL DEPTH: 40.0 feet
WATER LEVEL:
DRILLING METHOD: Cable Tool
DATE DRILLED: 1-6-82
HELPER: R. Beckwith

SKETCH MAP



NOTES:

DEPTH (FEET)	GRAPHIC LOG	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS*	DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
0		1			Brown fine to medium sand with some silt and pebbles.
5		2			Tannish brown medium fine sand with gravel and pebbles.
10		3			Gravel with some coarse sand and small cobbles, very minor amounts of interstitial silt.
15		4			Coarse sand and gravel with pebbles and grayish brown interstitial clayey silt.
20		5			Coarse sand and gravel and pebbles, some cobbles sample very tightly packed.

* A.S.T.M. D1586

ENVIRONMENTAL RESOURCES MANAGEMENT, INC.

DRILLING LOG

PROJECT: C&D Batteries
OWNER:
LOCATION: Huguenot New York
ADDRESS:
WELL NUMBER: CD-3 (CONT)
TOTAL DEPTH: 40.0 feet
SURFACE ELEVATION:
WATER LEVEL:
DRILLING COMPANY: Emprie
DRILLING METHOD: Cable Tool
DATE DRILLED: 1-6-82
DRILLER: D.Diedrickson
HELPER: R. Beckwith
LOG BY: C. Werle

SKETCH MAP

NOTES:

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS*	DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
20				
25	6			Coarse sand, gravel, small cobbles with brownish gray silt coating, sample tightly packed.
30	7			Same as above.
35	8			Gravel and small cobbles with minor amounts of interstitial silt.
40	9			Same as above.

* A.S.T.M. D1586

SHEET 2 OF 2

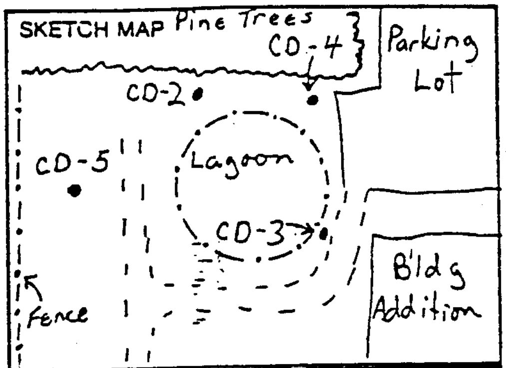
ENVIRONMENTAL RESOURCES MANAGEMENT, INC.

DRILLING LOG

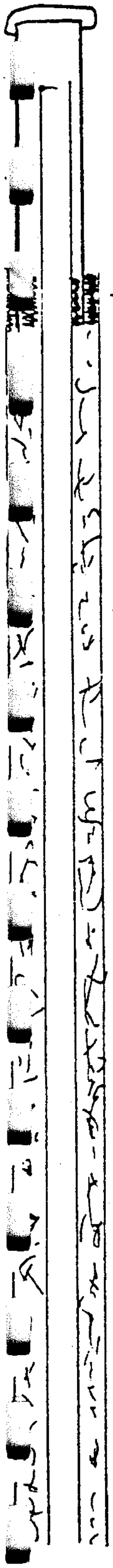
PROJECT: C&D Batteries
LOCATION: Huguenot New York
WELL NUMBER: CD-4
SURFACE ELEVATION:
DRILLING COMPANY: Emprie
DRILLER: D.Diedrickson
LOG BY: C. Werle

OWNER:
ADDRESS:
TOTAL DEPTH 41.6 feet
WATER LEVEL:
DRILLING METHOD: Cable ~~Tool~~
DATE DRILLED: 1-4-82
HELPER: R.Beckwith

SKETCH MAP



NOTES:



DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS*	DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
0	1			Tannish brown fine sand and silt with pebbles organic-rich soil at surface.
5	2			Tannish brown medium to fine sand with gravel.
10	3			Dark brown well sorted very fine sandy silt, material homogeneous.
15	4			Same as above.
20	5			Same as above.

* A.S.T.M. D1586

ENVIRONMENTAL RESOURCES MANAGEMENT, INC.

DRILLING LOG

PROJECT: C&D Batteries
OWNER:
LOCATION: Huguenot New York
ADDRESS:
WELL NUMBER: CD-4 (CONT)
TOTAL DEPTH: 41.6 feet
SURFACE ELEVATION:
WATER LEVEL:
DRILLING COMPANY: Emprie
DRILLING METHOD: Cable Tool
DATE DRILLED: 1-4-82
DRILLER: D. Diedrickson
HELPER: R. Beckwith
LOG BY: C. Werle

SKETCH MAP

NOTES:

DEPTH (FEET)	GRAPHIC LOG	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS*	DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
20					
25		6			Brown well sorted silt, as above, grading into medium to coarse sand and gravel.
30		7			Interbedded units of silt with dark gray medium to coarse sand and gravel.
35		8			Brown silty sand with infrequent pebbles.
40		9			Brown silty sand with some coarse sand and gravel.

* A.S.T.M. D1586

Environmental Resources Management, Inc.

DRILLER'S LOGS

GENERAL INFORMATION & KEY TO SUBSURFACE LOGS

The Subsurface Logs attached to this report present the observations and mechanical data collected by the driller while at the site, supplemented by classification of the materials removed from the borings as determined through visual identification by technicians in the laboratory. It is cautioned that the materials removed from the borings represent only a fraction of the total volume of the deposits at the site and may not necessarily be representative of the subsurface conditions between adjacent borings or between the sampled intervals. The data presented on the Subsurface Logs together with the recovered samples will provide a basis for evaluating the character of the subsurface conditions relative to the proposed construction. The evaluation must consider all the recorded details and their significance relative to each other. Often analyses of standard boring data indicate the need for additional testing and sampling procedures to more accurately evaluate the subsurface conditions. Any evalutions of the contents of this report and the recovered samples must be performed by Professionals having experience in Soil Mechanics and Foundation Engineering. The information presented in the following defines some of the procedures and terms used on the Subsurface Logs to describe the conditions encountered.

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① The figures in the Depth column defines the scale of the Subsurface Log.

② The Sample column shows, graphically, the exact depth range from which a sample was recovered. See Table I for a description of the symbols used to signify the various types of samples.

③ The Sample No. is used for identification on sample containers and/or Laboratory Test Reports.

④ Blows on Sampler – shows the results of the "Penetration Test", recording the number of blows required to drive a split spoon sampler into the soil beneath the casing. The number of blows required for each six inches penetration is recorded. The total number of blows required for the last 12 inches of penetration are summarized in the "N" column. The outside diameter of the sampler, the hammer weight and the length of drop are noted at the bottom of the Subsurface Log.

⑤ Blows on Casing — shows the number of blows required to advance the casing a distance of 12 inches. The casing size, the hammer weight and the length of drop are noted at the bottom of the Subsurface Log. If the casing is advanced by means other than driving, the method of advancement will be indicated in the Notes column or under Method of Investigation at the bottom of the Subsurface Log.

⑥ All recovered soil samples are reviewed in the laboratory by technicians. The visual descriptions are made on basis of the sample as recovered and in accordance with the Unified Classification System. Guide Lines for the terms used in descriptions are presented in Tables II and III. The description of the relative soil compactness or consistency is based upon the penetration records as defined in Table IV. The description of the soil moisture is based upon the condition of the sample as recovered. The moisture condition is described as dry, damp, moist or wet. Water used to advance the boring may have affected the in-situ moisture content of the sample. Special terms are used as required to describe materials in greater detail; several such terms are listed in Table V. When sampling gravelly soils with a standard two-inch diameter split spoon, the true percentage of gravel is often not recovered due to the relatively small sampler diameter. The presence of boulders and large gravel is sometimes, but not necessarily, detected by an evaluation of the casing and sampler blows or through the "action" of the drill rig as reported by the driller.

⑦ The description of rock shown is based upon the recovered rock core. Terms frequently used in the description are included in Table VI.

⑧ Miscellaneous observation and procedures noted by the driller are shown in this column, including water level observations. It is important to realize that the reliability of the water level observations depend upon the soil type (water does not readily stabilize in a hole through fine grained soils), and that drill water used to advance the borings may have influenced the observations. The ground water level typically will fluctuate seasonally. One or more perched or trapped water levels may exist in the ground seasonally. All the available readings should be evaluated. If definite conclusions cannot be made, it is often prudent to examine the conditions more thoroughly through test pit excavations or water observation installations.

⑨ The length of core run is defined as length of penetration between retrievals of the core barrel from the bore hole, expressed in feet and tenths of feet. The core recovery expresses the length of core recovered from the core barrel per core run, in percent. The size core barrel used is also noted. The more commonly used sizes of core barrels are denoted "AX" and "NX". The "NX" core, being larger in diameter than "AX" core, often produces better recovery, and is frequently utilized where accurate information regarding the geologic conditions and engineering properties is needed. The "NX" core barrel requires the use of four inch diameter casing.

-1-70
5-1-70
___ OF 1

EMPIRE SOILS INVESTIGATIONS, INC.

SUBSURFACE LOG

HOLE NO. 8-175
SURF. ELEV. 325.6
G. W. DEPTH See Note #1

XX

LOCATION YYY

BLOWS ON SAMPLER 0/6	6/12	12/18	N	BLOW ON CASING C	CROSS SECTION	SOIL OR ROCK CLASSIFICATION	NOTES
2	2	3	5	10		TOPSOIL 3"	Note #1 G.W. at 2.0' completion G.W. at 2.2' 24 hrs. after completion
				15		Brown SILT, some Sand, trace clay (Moist-Loose)	
				50/.5'		Gray SHALE, medium hard weathered, thin bedded some fractures	Cored 2.5'-5.0', Run #1 95% Recovery AX Core

4 5 6 7 8 9

plit Spoon Sample

elby Tube Sample

r or Pit Sample

Core

TABLE II

Identification of soil type is made on basis of an estimate of particle sizes, and in the case of fine grained soils also on basis of plasticity.

Soil Type	Soil Particle Size	
Boulder	>12"	Coarse Grained (Granular)
Cobble	3"-12"	
Gravel - Coarse	3"-3/4"	
- Fine	3/4"-#4	
Sand - Coarse	#4-#10	
- Medium	#10-#40	
- Fine	#40-#200	
Silt - Non Plastic (Granular) Clay - Plastic (Cohesive)	<#200	Fine Grained

TABLE III

The following terms are used in classifying soils consisting of mixtures of two or more soil types. The estimate is based on weight of total sample.

Term	Percent of Total Sample
"and"	35-50
"some"	20-35
"little"	10-20
"trace"	less than 10

(When sampling gravelly soils with a standard split spoon, the true percentage of gravel is often not recovered due to the relatively small sampler diameter.)

lative compactness or consistency is described in accord with the terms.

Granular Soils	Blows per Foot, N	Cohesive Soils Term	Blows per Foot, N
	< 10	Very Soft	< 2
	11-30	Soft	3-5
	31-50	Medium	6-15
pact	> 51	Stiff	16-25
		Hard	>26

particles in the soils will often significantly influence the blows per rded during the Penetration Test.)

TABLE V

Varved -	Alternating layers, seams, and partings of soils.
Layer -	Soil deposit more than 6" thick.
Seam -	Soil deposit less than 6" thick.
Parting -	Soil deposit less than 1/8" thick.
Uniform -	All grains are of about the same diameter.

VI
Classification Terms

	Term	Meaning
s	Soft	Scratched by fingernail
	Medium Hard	Scratched easily by penknife
	Hard	Scratched with difficulty by penknife
	Very Hard	Cannot be scratched by penknife
ring	Very Weathered, Weathered, Sound	Judged from the relative amounts of disintegrating iron staining, core recovery, clay seams, etc
ing	Laminated	Natural breaks in Rock Layers (<1")
	Thin bedded	(1"-4")
	Bedded	(4"-12")
	Thick bedded	(12"-36")
	Massive	(>36")

(Fracturing refers to natural breaks in the rock oriented at some angle to the rock layers.)

DATE STARTED 12/21/81
FINISHED 12/22/81
SHEET 1 OF 2

EMPIRE SOILS INVESTIGATIONS, INC.

SUBSURFACE LOG

HOLE NO B-CD-1
SURF ELEV
G. W. DEPTH

PROJECT Environmental Resource Management - C & D Battery

LOCATION Port Jervis, N.Y.

DEPTH	SAMPLES	SAMPLE NO	BLOWS ON SAMPLER 0/6	6/12	12/18	N	BLOW ON CASING C	SOIL OR ROCK CLASSIFICATION	NOTES
		1	15	16		39		Greyish Brown - fine GRAVEL and coarse-fine SAND, trace Silt, dry	Groundwater Observation Installation
				23	52				
								5.0'	2" diameter PVC screen and riser pipe. Tip at 37' screen from 37' to 27' Bentonite seal from 25' to 20'. PVC stick-up 2' above ground and covered with a threaded capped protective casing.
		2	17	23	28	51		Brown fine SAND, trace to little Silt, moist	
10		3	8	15	19	34			
								15.0'	
		4	9	17	22	39		Brown SILT, wet	
20		5	12	19	25	44		Brown SILT, some fine Sand, moist	
								25.0'	
		6	24	27	28	55		Brown - fine GRAVEL and coarse-fine SAND, trace Silt, moist	
30		7	7	18	20	38			
								35.0'	
		8	10	15	20	35		Brown coarse-fine SAND, some medium-fine Gravel, trace Silt, wet	
40									

N = No blows to drive 2 " spoon 12 " with 140 lb. pin wt falling 30 " per blow CLASSIFICATION

C = No blows to drive " casing " with lb weight falling " per blow

DATE STARTED 12/21/81 FINISHED 12/22/81 SHEET 1 OF 2	EMPIRE SOILS INVESTIGATIONS, INC. SUBSURFACE LOG	HOLE NO B-CD-1 SURF ELEV G. W. DEPTH

PROJECT Environmental Resource Management- C & D Battery

LOCATION Port Jervis, N.Y.

DEPTH	SAMPLES	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	N	BLOW ON CASING C	SOIL OR ROCK CLASSIFICATION	NOTES
								Brown c-f S, S+M-f G, +-S 41.5'	
								End of Boring	
45									

N = No blows to drive ____" spoon ____" with ____ lb pin wt falling ____" per blow

C = No blows to drive ____" casing ____" with ____ lb weight falling ____" per blow

CLASSIFICATION

DATE STARTED 12/30/81	EMPIRE SOILS INVESTIGATIONS, INC.		HOLE NO B-CD-2	
FINISHED 12/31/81	SUBSURFACE LOG		SURF ELEV	
SHEET 1 OF 2			G W DEPTH	

PROJECT Environmental Resource Management-C & D Battery   LOCATION Port Je[illegible]

DEPTH	SAMPLES	SAMPLE NO	BLOWS ON SAMPLER 0/6	6/12	12/18	N	BLOW ON CASING C	SOIL OR ROCK CLASSIFICATION	NOTES
		1	3	3	5	8		Brown Topsoil, moist 2.0'	Samples 4 through 8 were wash samples. Groundwater Observation Well 2" diameter PVC screen & riser pipe installed to 40.6'. Screen from 40.6'-30.6' Bentonite seal from 25'-22' PVC Stickup 2.5' inside Protective casing.
		2	8	8	8	16		Medium Brown SILT and fine SAND 10.0'	
10		3	24	19	29	48		Brown coarse-fine SAND, some medium-fine Gravel, trace SILT	
		4						Coarse Sand (Wash sample)	
20		5						Brown coarse-fine GRAVEL, some + coarse-fine Sand, trace- silt	
		6							
30		7							
		8							
40									

N = No blows to drive 2 " spoon 12 " with 140 lb pin wt. falling 30 "per blow   CLASSIFICATION

C = No blows to drive ___ " casing ___ " with ___ lb weight falling ___ "per blow

DATE			
STARTED 12/30/81	EMPIRE SOILS INVESTIGATIONS, INC.	HOLE NO B-CD-2
FINISHED 12/31/81	SUBSURFACE LOG	SURF ELEV
SHEET 2 OF 2		G. W. DEPTH

PROJECT Environmental Resource Management-C & D Battery

LOCATION Port Jervis, N.Y.

DEPTH	SAMPLES	SAMPLE NO	BLOWS ON SAMPLER 0/6	6/12	12/18	N	BLOW ON CASING C	SOIL OR ROCK CLASSIFICATION	NOTES
								Brown c-f G, s+ c-f S, +-S 41.5	
								End of Boring	

N = No blows to drive ______" spoon ______" with ______lb. pin wt. falling ______"per blow CLASSIFICATION ______

C = No blows to drive ______" casing ______" with ______lb weight falling ______"per blow

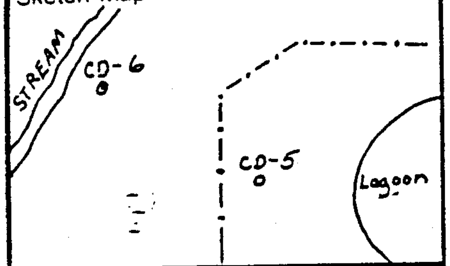
METHOD OF INVESTIGATION

Environmental Resources Management

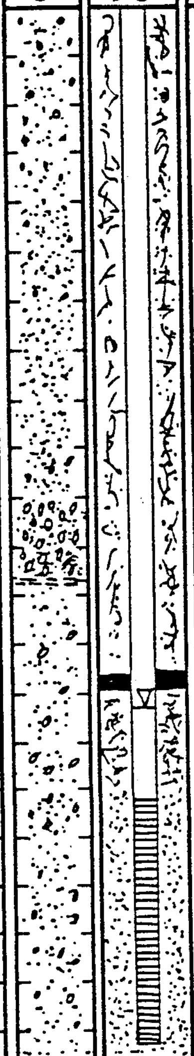
Drilling Log

Project: C&D Batteries
Owner:
Location: Huguenot, NY
W.O. Number:
Well Number: CD-6
Total Depth: 42.5'
Diameter: 6"
Surface Elevation: 470.62
Water Level: Initial: 29.8'
24-hrs.: 28.66'
Screen: Dia.: 2"
Length: 10'
Slot Size: .010
Casing Dia.: 2"
Length: 35'
Type: PVC
Drilling Company: Empire Soils
Drilling Method: Holl. Stem Auger
Driller: Mike Warner
Log By: C. Werle
Date Drilled: 3/1/82

Sketch Map



Notes



Depth (Feet)	Sample Number	Description/Soil Classification (Color, Texture, Structures)
	1	Grayish brown medium to coarse sand, gravel and small cobbles to 2"-minor fine sand and silt.
5	2	Coarse sand, gravel, cobbles with reddish silty clay coating.
10	3	Well sorted tannish brown medium to coarse sand, some pebbles - reddish silty coating.
15	4	Same as above.
20	5	Gravel and cobbles with minor medium and coarse sand - red silty clay stringer interbedded with coarse material.
25	6	Medium to coarse sand and gravel, some small stones, approximately 2%-3% fine sand and silt.
30	7	Coarse sand and gravel, some small cobbles, brown silty coating on all material; sample wet.
35	8	Dark tannish brown medium to coarse sand and gravel, some larger stones.
40	9	Same as above.
45		

Environmental Resources Management

Drilling Log

Project: C&D Batteries   Owner:

Location: Huguenot, NY   W.O. Number:

Well Number: CD-7   Total Depth: 29'   Diameter: 6"

Surface Elevation: 459.07   Water Level: Initial 17.0   24-hrs. 16.39

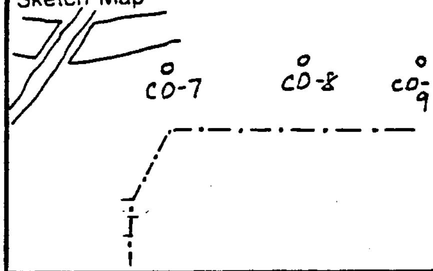
Screen: Dia. 2"   Length: 10'   Slot Size: .010

Casing: Dia. 2"   Length: 21'   Type: PVC

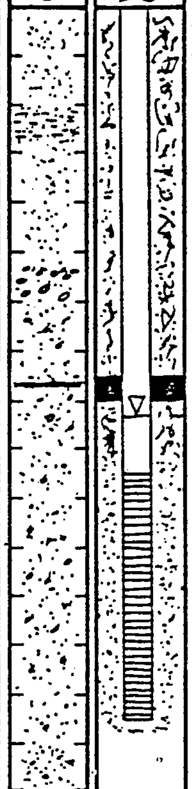
Drilling Company: Empire Soils   Drilling Method: Holl. Stem Auger

Driller: Mike Warner   Log By: C. Werle   Date Drilled: 3/3/82

Sketch Map



Notes



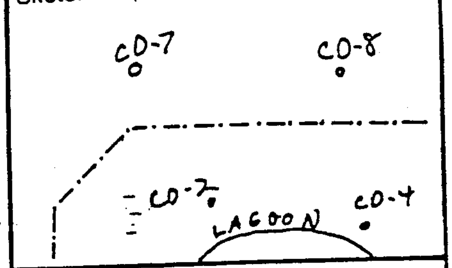
Depth (Feet)	Sample Number	Description/Soil Classification (Color, Texture, Structures)
	1	Well-sorted tannish brown very fine sand, small number of small (¼"-½") pebbles.
5	2	Tan brown very fine sand to coarse silt, totally homogeneous.
10	3	Tan very fine sand, sharp contact with coarse-horizon consisting of medium to coarse sand and gravel, some interstitial silt.
15	4	Coarse sand and gravel above 1" thick reddish tan clay - cohesive and plastic, below clay is brown well-sorted medium sand.
20	5	Medium and coarse sand, gravel, pebbles - silty coating on all material.
25	6	Medium to coarse sand with some gravel, grading into medium sand with minor interstitial silt.
30	7	Same as above.

Drilling Log

Environmental Resources Management

Project: C&D Batteries
Owner:
Location: Huguenot, NY
W.O. Number:
Well Number: CD-8
Total Depth: 33.0'
Diameter: 6"
Surface Elevation: 460.82
Water Level: Initial 23.5'
24-hrs.:
Screen: Dia. 2"
Length: 10'
Slot Size: .010
Casing: Dia. 2"
Length: 25'
Type: PVC
Drilling Company: Empire Soils
Drilling Method: Holl.Stem Auger
Driller: Mike Warner
Log By: C. Werle
Date Drilled: 3/4/82

Sketch Map



Notes

Depth (Feet)	Graphic Log	Well Construction	Sample Number	Description/Soil Classification (Color, Texture, Structures)
			1	Brown, organic-rich fine sand and silt, some pebbles, minor interstitial plastic brown clay.
5			2	Dark brown silty, clayey matrix with gravel and pebbles-material cohesive and moderately plastic.
10			3	Tan, very well sorted coarse silt.
15			4	Tan well sorted silt, as above, grading into tan silty clay - sample damp.
20			5	Brownish tan medium and fine sand with interstitial silt, grading into reddish tan, plastic, cohesive silty clay.
25			6	Well sorted brown fine sand and silt, occasional pebbles.
30			7	Same as above, no pebbles.
35			8	Brown fine sand and silt with slight grain size variation over length of sample.

Environmental Resources Management

Drilling Log

Project: C&D Batteries Owner: ______

Location: Huguenot, NY W.O. Number: ______

Well Number: CD-9 Total Depth: 33.0' Diameter: ______

Surface Elevation: 462.41 Water Level: Initial 24.35' 24-hrs. 20.56'

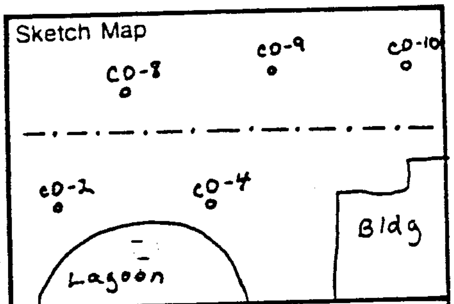
Screen: Dia. 2" Length: 10' Slot Size: .010

Casing: Dia. 2" Length: 25' Type: PVC

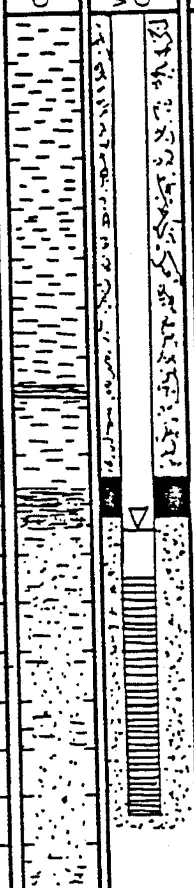
Drilling Company: Empire Soils Drilling Method: Holl. Stem Auger

Driller: Mike Warner Log By: C. Werle Date Drilled: 3/3/82

Sketch Map



Notes



Depth (Feet)	Sample Number	Description/Soil Classification (Color, Texture, Structures)
	1	Tannish brown fine sand and silt, some pebbles.
5	2	Dark tan, very well sorted silt, sample totally homogeneous.
10	3	Same as above.
15	4	Tan silt, as above, with interbedded laminae of lavender silty clay, sample wet.
20	5	Brown silty clay, sample cohesive and plastic interbedded horizons of brownish black medium sand with interstitial silt.
25	6	Brown fine and medium sand with interstitial silt sample somewhat cohesive.
30	7	Brown fine sand, percent silt in sample varies vertically.
35	8	Dark brown medium and fine sand with some interstitial silt.

Environmental Resources Management, Inc.

DRILLER'S LOGS

GENERAL INFORMATION & KEY TO SUBSURFACE LOGS

The Subsurface Logs attached to this report present the observations and mechanical data collected by the driller while at the site, supplemented by classification of the materials removed from the borings as determined through visual identification by technicians in the laboratory. It is cautioned that the materials removed from the borings represent only a fraction of the total volume of the deposits at the site and may not necessarily be representative of the subsurface conditions between adjacent borings or between the sampled intervals. The data presented on the Subsurface Logs together with the recovered samples will provide a basis for evaluating the character of the subsurface conditions relative to the proposed construction. The evaluation must consider all the recorded details and their significance relative to each other. Often anclyses of standard boring data indicate the need for additional testing and sampling procedures to more accurately evaluate the subsurface conditions. Any evalutions of the contents of this report and the recovered samples must be performed by Professionals having experience in Soil Mechanics and Foundation Engineering. The information presented in the following defines some of the procedures and terms used on the Subsurface Logs to describe the conditions encountered.

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⑤ Blows on Casing – shows the number of blows required to advance the casing a distance of 12 inches. The casing size, the hammer weight and the length of drop are noted at the bottom of the Subsurface Log. If the casing is advanced by means other than driving, the method of advancement will be indicated in the Notes column or under Method of Investigation at the bottom of the Subsurface Log.

⑥ All recovered soil samples are reviewed in the laboratory by technicians. The visual descriptions are made on basis of the sample as recovered and in accordance with the Unified Classification System. Guide Lines for the terms used in descriptions are presented in Tables II and III. The description of the relative soil compactness or consistency is based upon the penetration records as defined in Table IV. The description of the soil moisture is based upon the condition of the sample as recovered. The moisture condition is described as dry, damp, moist or wet. Water used to advance the boring may have affected the in-situ moisture content of the sample. Special terms are used as required to describe materials in greater detail; several such terms are listed in Table V. When sampling gravelly soils with a standard two-inch diameter split spoon, the true percentage of gravel is often not recovered due to the relatively small sampler diameter. The presence of boulders and large gravel is sometimes, but not necessarily, detected by an evaluation of the casing and sampler blows or through the "action" of the drill rig as reported by the driller.

⑦ The description of rock shown is based upon the recovered rock core. Terms frequently used in the description are included in Table VI.

⑧ Miscellaneous observation and procedures noted by the driller are shown in this column, including water level observations. It is important to realize that the reliability of the water level observations depend upon the soil type (water does not readily stabilize in a hole through fine grained soils), and that drill water used to advance the borings may have influenced the observations. The ground water level typically will fluctuate seasonally. One or more perched or trapped water levels may exist in the ground seasonally. All the available readings should be evaluated. If definite conclusions cannot be made, it is often prudent to examine the conditions more thoroughly through test pit excavations or water observation installations.

⑨ The length of core run is defined as length of penetration between retrievals of the core barrel from the bore hole, expressed in feet and tenths of feet. The core recovery expresses the length of core recovered from the core barrel per core run, in percent. The size core barrel used is also noted. The more commonly used sizes of core barrels are denoted "AX" and "NX". The "NX" core, being larger in diameter than "AX" core, often produces better recovery, and is frequently utilized where accurate information regarding the geologic conditions and engineering properties is needed.

ATE
ARTED 5-1-70
NISHED 5-1-70
HEET 1 OF 1

EMPIRE SOILS INVESTIGATIONS INC

SUBSURFACE LOG

HOLE NO. B-175
SURF. ELEV. 325.6
G. W. DEPTH See Note #1

ROJECT XXX

LOCATION YYY

DEPTH-FT.	SAMPLES	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	N	BLOW ON CASING C	CROSS SECTION	DESCRIPTION OF RECOVERED SAMPLES	REMARKS & WATER READINGS
0		1	2	2	3	5	10		TOPSOIL 3"	Note #1 G.W. at 2.0' completion
							15		Brown SILT, some Sand, trace clay (Moist - Loose)	G.W. at 2.2' 24 hrs. after completion
							50/.5'		Gray SHALE, medium hard weathered, thin bedded some fractures	Cored 2.5'-5.0', Run#1 95 % Recovery AX Core
5										

1 2 3 4 5 6 7 8 9

TABLE I

	Split Spoon Sample
	Shelby Tube Sample
	Auger or Pit Sample
	Rock Core

TABLE II

Identification of soil type is made on basis of an estimate of particle sizes, and in the case of fine grained soils also on basis of plasticity.

Soil Type	Soil Particle Size	
Boulder	>12"	Coarse Grained (Granular)
Cobble	3" - 12"	
Gravel - Coarse	3" - 3/4"	
- Fine	3/4" - #4	
Sand - Coarse	#4 - #10	
- Medium	#10 - #40	
- Fine	#40 - #200	
Silt - Non Plastic (Granular) / Clay - Plastic (Cohesive)	<#200	Fine Grained

TABLE III

The following terms are used in classifying soils consisting of mixtures of two or more soil types. The estimate is based on weight of total sample.

Term	Percent of Total Sample
"and"	35 - 50
"some"	20 - 35
"little"	10 - 20
"trace"	less than 10

(When sampling gravelly soils with a standard split spoon, the true percentage of gravel is often not recovered due to the relatively small sampler diameter.)

TABLE IV

The relative compactness or consistency is described in accord with the following terms.

Granular Soils Term	Blows per Foot, N	Cohesive Soils Term	Blows per Foot, N
Loose	< 10	Very Soft	< 2
Firm	11 - 30	Soft	3 - 5
Compact	31 - 50	Medium	6 - 15
Very Compact	> 51	Stiff	16 - 25
		Hard	>26

(Large particles in the soils will often significantly influence the blows per foot recorded during the Penetration Test.)

TABLE V

Varved -	Alternating layers, seams, and partings of soils.
Layer -	Soil deposit more than 6" thick.
Seam -	Soil deposit less than 6" thick.
Parting -	Soil deposit less than 1/8" thick.
Uniform -	All grains are of about the same diameter.

TABLE VI

Rock Classification Terms	Term	Meaning
Hardness	Soft	Scratched by fingernail
	Medium Hard	Scratched easily by penknife
	Hard	Scratched with difficulty by penknife
	Very Hard	Cannot be scratched by penknife
Weathering	Very Weathered / Weathered / Sound	Judged from the relative amounts of disintegrating iron staining, core recovery, clay seams, etc
Bedding	Laminated	Natural breaks in Rock Layers (<1")
	Thin bedded	(1" - 4")
	Bedded	(4" - 12")
	Thick bedded	(12" - 36")
	Massive	(> 36")

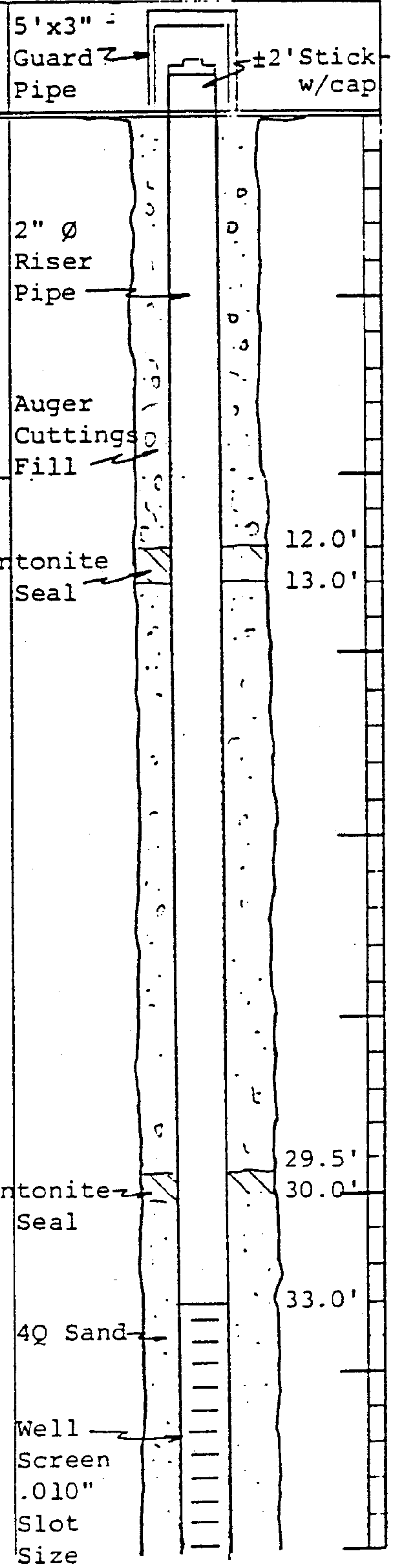
(Fracturing refers to natural breaks in the rock oriented at some angle to the rock layers.)

DATE STARTED 3-1-82	**EMPIRE SOILS INVESTIGATIONS INC.**	SUBSURFACE LOG	HOLE NO. CD-6
FINISHED 3-1-82			SURF. ELEV
SHEET 1 OF 2			G. W. DEPTH See Note

PROJECT Observation Well Installations
C & D Battery, Inc.

LOCATION Huguenot, New York

DEPTH	SAMPLES	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	N	BLOWS ON CASING	SOIL OR ROCK CLASSIFICATION
0	/	1	20	42				Brown, medium-coarse SAND & GRAVEL, Some Silt, roots
			34	15		76		(Damp-Very Compact)
5	/	2	15	12				grades similar
			12	12		24		(Moist-Firm)
								10.0'
10	/	3	10	5				Brown, medium-fine SAND, Some fine Gravel, trace silt
			6	5		11		(Moist-Firm)
15	/	4	7	4				grades similar with trace coarse gravel,grading to Some coarse Gravel
			5	10		9		(moist-Loose)
20	/	5	3	4				Brown, coarse-medium GRAVEL
			20	20		24		(Moist-Firm)
25	/	6	12	16				grades similar with Some Silt
			23	36		39		(Damp-Compact)
30	/	7	12	17				Brown, medium-fine SAND, Some coarse Gravel
			11	4		28		(Wet-Firm)
35	/	8	7	9				Brown, medium-fine SAND & GRAVEL, Some coarse Gravel
			11	7		20		(Wet-Firm)
40								



N = No. blows to drive 2 " spoon 12 " with 140 lb pin wt. falling 30 " per blow

CLASSIFICATION Visual by Driller

C = No. blows to drive ___ casing ___ " with ___ lb weight falling ___ " per blow

METHOD OF INVESTIGATION 3½" I.D. Hollow Stem Auger Casing

DATE STARTED 3-1-82

FINISHED 3-1-82

SHEET 2 OF 2

EMPIRE SOIL INVESTIGATIONS INC.

SUBSURFACE LOG

HOLE NO. CD-6 cont'd

SURF. ELEV

G. W. DEPTH See Note

PROJECT Observation Well Installations
C & D Battery, Inc.

LOCATION Huguenot, New York

DEPTH	SAMPLES	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	N	BLOWS ON CASING	SOIL OR ROCK CLASSIFICATION	NOTES
40		9	13	16	30	46		Brown coarse-medium SAND & GRAVEL (Running Sand up 1.5' into casing.) (Wet-Compact)	Plug 43.0'
								Boring Terminated @ 43.0'	
45								Note: Groundwater first encountered @ 29.8'. At completion of boring, water level @ 30.9'	

N = No. blows to drive 2 " spoon 12 " with 140 lb pin wt. falling 30 " per blow

C = No. blows to drive ____ " casing ____ " with ____ lb weight falling ____ " per blow

CLASSIFICATION Visual by Driller

METHOD OF INVESTIGATION 3¼" I.D. Hollow Stem Auger Casing

STARTED 3-3-82
FINISHED 3-3-82
SHEET 1 OF 1

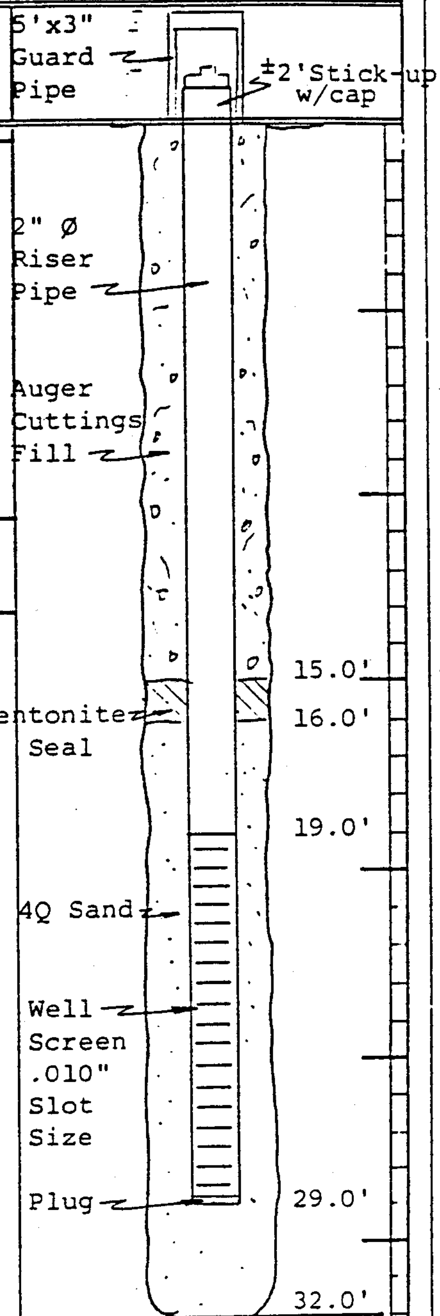
EMPIRE SOILS INVESTIGATIONS INC. SUBSURFACE LOG

HOLE NO. CD-7
SURF. ELEV.
G. W. DEPTH See Note

PROJECT Observation Well Installations
C & D Battery, Inc.

LOCATION Huguenot, New York

Depth	Sample No.	Blows on Sampler 0-6	6-12	12-18	N	Blows on Casing	Soil or Rock Classification
0	1	6	4				SILT, ROOTS & fine GRAVEL 0.5'
		4	3		8		Brown, SILT & fine SAND (Damp-Loose)
	2	4	5				grades similar
		4	4		9		COBBLES from 7.0'-8.0' — 10.5'
	3	4	15				Brown, coarse GRAVEL
		18	15		33		(Moist-Compact) 13.0'
							Brown, medium-fine SAND w/CLAY seam @ 15.0'-15.2'
15	4	3	5				(Moist-Firm)
		6	7		11		
20	5	7	12				Brown SILT & fine SAND COBBLE in tip of spoon
		14	15		26		(Wet-Firm)
	6	6	13				Brown, medium-fine SAND, Some fine Gravel-little recovery
		9	10		22		(Wet-Firm)
	7	4	5				Brown, medium-fine SAND
		7	9		12		(Wet-Firm)
							Boring Terminated @ 32.0'
25							Note: Water level @ 19.5' inside 20' of casing. At completion of boring water level @ 18.0'.



N = No. blows to drive 2 " spoon 12 " with 140 lb. pin wt. falling 30 " per blow
C = No. blows to drive casing " with ___ lb. weight falling ___ " per blow

CLASSIFICATION Visual by Driller

METHOD OF INVESTIGATION 3¼" I.D. Hollow Stem Auger Casing

DATE	
STARTED	3-4-82
FINISHED	3-4-82
SHEET	1 OF 1

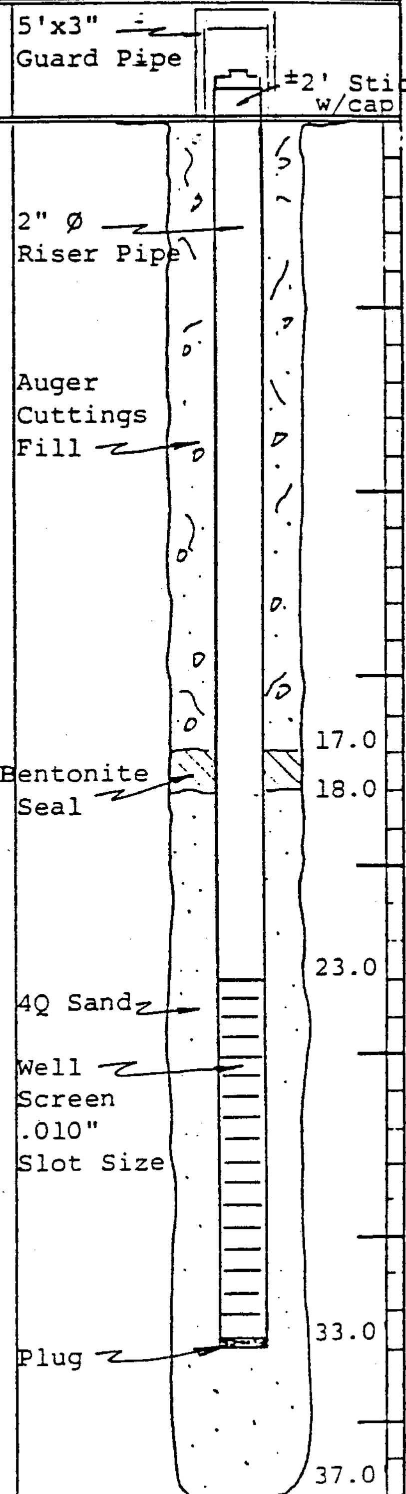
EMPIRE SOILS INVESTIGATIONS INC SUBSURFACE LOG

HOLE NO	CD-8
SURF. ELEV.	
G. W. DEPTH	See Note

PROJECT Observation Well Installations
C & D Battery, Inc.

LOCATION Huguenot, New York

DEPTH	SAMPLES	SAMPLE NO.	BLOWS ON SAMPLER 0-6	6-12	12-18	N	BLOWS ON CASING	SOIL OR ROCK CLASSIFICATION
0	/	1	4	4				Brown, coarse-medium GRAVEL & SILT ROOTS
			6	7		10		(Damp-Firm)
5	/	2	6	6				Brown, coarse-medium SAND, GRAVEL & SILT (Possible Fill)
			7	21		13		(Damp-Firm) Note: Auger Refusal @ 6.5', Moved borehole and proceeded sampling at 10.0'
10	/	3	5	5				Brown, SILT & fine SAND
			4	5		9		(Damp-Loose)
15	/	4	3	4				grades similar with Some Clay
			5	5		9		(Wet-Loose)
20	/	5	2	4				Brown, SILT & fine SAND w/medium-fine SAND seams and CLAY seams
			6	7		10		(Wet-Firm)
25	/	6	2	4				Brown, SILT & fine SAND, trace fine gravel
			4	5		8		(Wet-Loose)
30	/	7	4	3				grades similar-no gravel
			5	6		8		(Wet-Loose)
35	/	8	3	4				grades, damp
			5	5		9		
40								Boring Terminated @ 37.0' Note: Water level @ 23.5' inside 30' of casing.



N = No. blows to drive 2 " spoon 12 " with 140 lb pin wt. falling 30 " per blow

C = No. blows to drive casing with lb weight falling " per blow

CLASSIFICATION Visual by Driller

METHOD OF INVESTIGATION 3¼" I.D. Hollow Stem Auger Casing

DATE STARTED 3-2-82
FINISHED 3-3-82
SHEET 1 OF 1

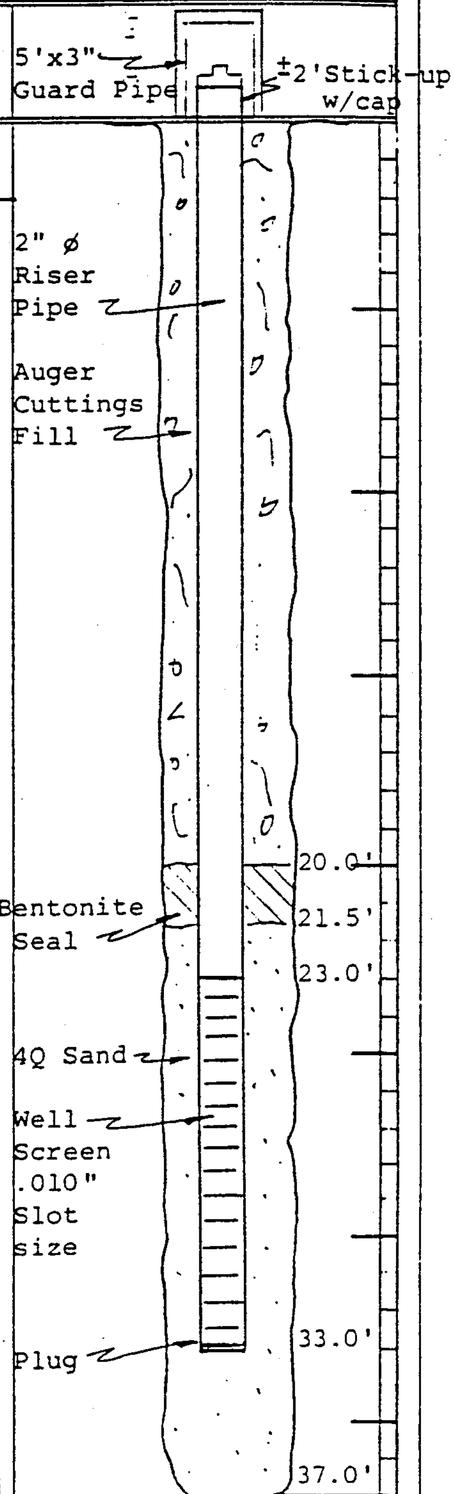
EMPIRE SOILS INVESTIGATIONS INC — SUBSURFACE LOG

HOLE NO CD-9
SURF. ELEV
G. W. DEPTH See Note

PROJECT Observation Well Installations
C & D Battery, Inc.

LOCATION Huguenot, New York

DEPTH	SAMPLES	SAMPLE NO	BLOWS ON SAMPLER 0/6	6/12	12/18	N	BLOWS ON CASING C	SOIL OR ROCK CLASSIFICATION
0		1	10	6				Brown, medium-fine SAND & GRAVEL,
			16	18		22		Some Silt, roots (Damp-Firm) 2.0'
								Brown, SILT & fine SAND (Damp-Firm)
5		2	5	6				
			5	5		11		
10		3	8	5				grades similar
			6	7		11		
15		4	4	5				grades similar w/CLAY seam @ 16.5'
			4	5		9		(Wet-Loose)
20		5	3	6				grades similar with medium-fine SAND seam @ 21.0'-21.2'
			7	6		13		(Wet-Firm)
25		6	1	1				Brown, medium-fine SAND
			3	3		4		(Wet-Loose)
30		7	3	2				grades similar w/trace silt & fine gravel
			3	5		5		Brown, medium-fine SAND & SILT w/ medium-fine SAND seam @ 36.5'-36.7' (Wet-Loose)
35		8	2	2				
			4	3		6		Boring Terminated @ 37.0'
40								Note: Water level @ 28.0' inside 30' of casing. At completion of boring water level @ 24.2' inside 30' of casing



N = No. blows to drive 2" spoon 12" with 140 lb pin wt falling 30" per blow
C = No. blows to drive casing with ______ lb weight falling ______" per blow
METHOD OF INVESTIGATION 3¼" I.D. Hollow Stem Auger Casing

CLASSIFICATION Visual by Driller

LANSING ENGINEERING, PC
7 HEMPHILL PLACE, SUITE 230, MALTA, NY 12020
TEL. (518) 899-5243 – FAX. (518) 899-5245

SUBSURFACE LOG

HOLE No.: SB-1-05

PROJECT:
Subsurface Investigation
C & D Technologies

LOCATION:
NYS Route 209
Huguenot, New York

PROJECT No.: 404.10
DATE STARTED: 2/28/05
DATE FINISHED: 2/28/05

SURFACE ELEV.: 457.3'
GW DEPTH: See Notes
REFERENCE PT.: Ground Surf.

SMPL. No.	0/6	6/12	12/18	18/24	N	REC. (ft)	SOIL CLASSIFICATION	NOTES
S-1	12	19	21	18	40	1.0	Topsoil becomes Brown SAND & GRAVEL, little silt (Frozen - Moist)	Located in basin, north side.
S-2	23	33	16	24	49	1.2	Brown-Gray coarse SAND & GRAVEL, little reddish brown silt (gravel portion predominantly shale fragments, poorly-sorted) (Moist)	Water level @ 11.9' in augers upon completion of S-9.
S-3	14	13	26	32	39	1.4	- similar	
S-4	19	23	26	21	49	1.4	- similar ±8'	
S-5	20	21	30	50/.3	51	0.7	Brown-Gray fine SAND & SILT w/ embedded coarser sands, gravel & shale fragments (Moist)	
S-6	50/.3					0.1	- similar	Very hard augering 10'-11.5' (30 min. for 18" advance - boulder?) Move 4' south, attempt #2
S-7	50/.5					0.4	- similar ±14'	Auger refusal @ 8' on cobble Move another 4' south, attempt #3
S-8	38	20	12	10	32	0.3	Brown GRAVEL & SAND, little silt (Saturated)	Advance samples 7-12 at attempt #3
S-9	8	14	12	6	26	NR	- no recovery	
S-10	50/.3					0.1		No visual or olfactory indications of contamination were noted.
S-11	44	33	30	40	63	0.6	Brown GRAVEL & SAND (Saturated)	Abandoned with cement-bentonite grout mixture
S-12	14	18	50/.4			0.5	Brown fine-coarse GRAVEL (Saturated) **(GLACIAL OUTWASH)**	
							End of Boring @ 23.4'	

DEPTH (ft): 5, 10, 15, 20, 25, 30, 35, 40, 45, 50

Split Spoon Sample
Shelby Tube Sample
Auger or Test Pit Sample
Rock Core

N = NUMBER OF BLOWS TO DRIVE 3" SPOON 12" WITH 140 lb. HAMMER FALLING 30" PER BLOW
DRILLING CONTRACTOR: Parratt Wolff, Inc.
DRILLER: Glenn Lansing
INVESTIGATION METHOD: 4 1/4" Hollow Stem Augers
RIG TYPE: CME 850x

CLASSIFICATION: JH
SHEET: 1 of 1

LANSING ENGINEERING, PC
7 HEMPHILL PLACE, SUITE 230, MALTA, NY 12020
TEL. (518) 899-5243 – FAX. (518) 899-5245

SUBSURFACE LOG

HOLE No.: SB-2-05

PROJECT:
Subsurface Investigation
C & D Technologies

LOCATION:
NYS Route 209
Huguenot, New York

PROJECT No.: 404.10
DATE STARTED: 2/25/05
DATE FINISHED: 2/28/05

SURFACE ELEV.: 456.0'
GW DEPTH: See Notes
REFERENCE PT.: Ground Surf.

DEPTH (ft)	SMPL. No.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	REC. (ft)	SOIL CLASSIFICATION	NOTES
	S-1	6	11	14	23	25	0.2	Topsoil (Frozen)	Located in basin, northwest side.
	S-2	26	8	10	14	18	0.8	Brown GRAVEL & fine-coarse SAND, little silt (poorly-sorted, Moist)	Water level @ 11.9' in augers upon completion of sampling.
5	S-3	10	19	15	21	34	1.2	- similar	No auger cuttings returned.
	S-4	24	29	21	16	50	1.2	- similar	No visual or olfactory indications of contamination were noted.
	S-5	17	22	24	32	46	0.9	- similar	
10	S-6	10	14	16	38	30	0.3	Brown-Gray coarse GRAVEL, some fine-coarse Sand (poorly-sorted, Moist)	Abandoned with cement-bentonite grout mixture
	S-7	50/.4					NR	- no recovery	
15	S-8	24	31	34	21	65	1.1	- similar (Wet)	
	S-9	14	18	16	24	34	0.3	- similar	
	S-10	15	30	37	49	67	0.9	Brown-Gray GRAVEL & fine-coarse SAND (Wet)	
20	S-11	39	50/.4				NR	- no recovery **(GLACIAL OUTWASH)**	
								End of Boring @ 20.9'	
25									
30									
35									
40									
45									
50									

Split Spoon Sample
Shelby Tube Sample
Auger or Test Pit Sample
Rock Core

N = NUMBER OF BLOWS TO DRIVE 3" SPOON 12" WITH 140 lb. HAMMER FALLING 30" PER BLOW
DRILLING CONTRACTOR: Parratt Wolff, Inc.
DRILLER: Glenn Lansing
INVESTIGATION METHOD: 4 1/4" Hollow Stem Augers
RIG TYPE: CME 850x

CLASSIFICATION: JH
SHEET: 1 of 1

LANSING ENGINEERING, PC
7 HEMPHILL PLACE, SUITE 230, MALTA, NY 12020
TEL. (518) 899-5243 – FAX. (518) 899-5245

SUBSURFACE LOG

HOLE No.: SB-3-05

PROJECT:
Subsurface Investigation
C & D Technologies

LOCATION:
NYS Route 209
Huguenot, New York

PROJECT No.: 404.10
DATE STARTED: 2/25/05
DATE FINISHED: 2/25/05

SURFACE ELEV.: 458.3'
GW DEPTH: See Notes
REFERENCE PT.: Ground Surf.

DEPTH (ft)	SMPL. No.	0/6	6/12	12/18	18/24	N	REC. (ft)	SOIL CLASSIFICATION	NOTES
	S-1	10	13	12	16	25	0.7	Light Brown fine SAND & SILT (Frozen)	Located in basin, west side.
	S-2	16	29	31	32	60	1.5	Reddish-Brown coarse angular GRAVEL & SAND, little silt trace organics (Moist)	Water level @ 13.5' in augers upon completion of sampling.
5	S-3	11	23	23	41	46	1.6	- similar	
	S-4	42	60	63	33	123	1.5	Reddish-Brown GRAVEL & SAND, little silt (poorly-sorted, Moist)	
	S-5	21	50/.4				0.9	- similar (Very Moist)	
10	S-6	40	50/.1				0.1	-recovered a single piece of coarse gravel (cobble fragment?)	Driller notes occasional cobbles.
	S-7	40	36	50/.3			1.0	Brown coarse GRAVEL, some sand (Moist)	Minimal auger cuttings returned.
15	S-8	50/.2					0.2	Brown-Gray GRAVEL & fine-coarse SAND, little silt	No visual or olfactory indications of contamination noted.
	S-9	30	50/.1				0.2	- becomes wet	Abandoned with cement-bentonite grout mixture
	S-10	71	50/.4				0.2	- similar	
20	S-11	23	19	15	25	34	1.0	Brown-Gray GRAVEL & SAND, trace silt (poorly-sorted, Wet)	
	S-12	17	26	27	29	53	1.0	- similar (GLACIAL OUTWASH)	
25								End of Boring @ 24.0'	
30									
35									
40									
45									
50									

Split Spoon Sample
Shelby Tube Sample
Auger or Test Pit Sample
Rock Core

N = NUMBER OF BLOWS TO DRIVE 3" SPOON 12" WITH 140 lb. HAMMER FALLING 30" PER BLOW
DRILLING CONTRACTOR: Parratt Wolff, Inc.
DRILLER: Glenn Lansing
INVESTIGATION METHOD: 4 1/4" Hollow Stem Augers
RIG TYPE: CME 850x

CLASSIFICATION: JH
SHEET: 1 of 1

LANSING ENGINEERING, PC

7 HEMPHILL PLACE, SUITE 230, MALTA, NY 12020
TEL. (518) 899-5243 - FAX. (518) 899-5245

SUBSURFACE LOG

HOLE No.: SB-4-05

PROJECT: Subsurface Investigation C & D Technologies	LOCATION: NYS Route 209 Huguenot, New York	PROJECT No.: 404.10 DATE STARTED: 2/22/05 DATE FINISHED: 2/22/05	SURFACE ELEV.: 472.5' GW DEPTH: See Notes REFERENCE PT.: Ground Surf.

SMPL. No.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	REC. (ft)	SOIL CLASSIFICATION
S-1	50/.4					0.4	Asphalt pavement over Brown SAND & GRAVEL (Moist)
S-2	22	17	37	27	54	1.0	- similar, little silt
S-3	16	27	16	9	43	0.7	- similar (Fill?)
S-4	8	7	5	4	12	1.1	Brown SAND & GRAVEL (Moist)
S-5	2	3	3	6	6	1.1	- similar
S-6	2	4	4	4	8	1.0	- similar
S-7	4	6	5	7	11	0.6	- similar, trace organics (rootlets) (Moist)
S-8	4	9	11	18	20	0.9	Brown SAND & GRAVEL (Moist)
S-9	14	16	15	15	31	1.4	- becomes coarser (Slightly Moist)
S-10	14	21	24	28	45	0.4	- similar
S-11	18	20	17	12	37	1.0	Brown-Gray coarse GRAVEL & SAND, trace organics (rootlets), seam shale fragments noted
S-12	13	22	7	18	29	0.7	- similar, shale fragments wetted with Red-Brown saturated silt
S-13	13	21	16	9	37	0.4	- coarse GRAVEL (Moist)
S-14	12	12	12	23	24	0.3	- similar, little fine-coarse sand
S-15	13	13	12	8	25	0.4	- coarse GRAVEL (becomes Wet)
S-16	9	15	13	17	28	0.3	- coarse GRAVEL (Wet)
S-17	9	13	12	21	25	0.4	- similar
S-18	21	23	22	16	45	0.1	- coarse Shale fragments
S-19	23	28	31	26	59	1.0	- coarse GRAVEL (Wet)
S-20	12	16	21	38	37	0.4	- similar (GLACIAL OUTWASH)
							End of Boring @ 40.0'

DEPTH (ft): 5, 10, 15, 20, 25, 30, 35, 40, 45, 50

NOTES

Located on basin rim, north side.

Water level @ 27.8' in augers upon completion of sampling.

Hole grouted with bentonite-cement mix. Encountered some difficulty while doing so due to coarse nature of formation

Filled 1 drum w/ auger cuttings.

No visual or olfactory indications of contamination noted.

- Split Spoon Sample
- Shelby Tube Sample
- Auger or Test Pit Sample
- Rock Core

N = NUMBER OF BLOWS TO DRIVE 3" SPOON 12" WITH 140 lb. HAMMER FALLING 30" PER BLOW

DRILLING CONTRACTOR: Parratt Wolff, Inc. DRILLER: Glenn Lansing

INVESTIGATION METHOD: 4 1/4" Hollow Stem Augers RIG TYPE: CME 850x

CLASSIFICATION: JH

LANSING ENGINEERING, PC
7 HEMPHILL PLACE, SUITE 230, MALTA, NY 12020
TEL. (518) 899-5243 – FAX. (518) 899-5245

SUBSURFACE LOG

HOLE No.: SB-5-05

PROJECT:
Subsurface Investigation
C & D Technologies

LOCATION:
NYS Route 209
Huguenot, New York

PROJECT No.: 404.10
DATE STARTED: 2/24/05
DATE FINISHED: 2/24/05

SURFACE ELEV.: 458.2'
GW DEPTH: See Notes
REFERENCE PT.: Ground Surf.

DEPTH (ft)	SMPL. No.	0/6	6/12	12/18	18/24	N	REC. (ft)	SOIL CLASSIFICATION	NOTES
	S-1	3	2	6	11	8	0.4	Topsoil over Brown-Gray GRAVEL & SAND, some Silt (Gravel portion includes shale fragments; Very Moist)	Located in basin, south side.
	S-2	16	18	16	15	34	0.6	Glacial Outwash: Gray-Brown-Red coarse-fine GRAVEL, some Sand and Silt (Poorly sorted; Moist)	Water level @ 13.2' in augers upon completion of sample S-9.
5	S-3	18	28	22	23	50	0.6	- similar (Moist w/ Wet seams)	
	S-4	16	18	19	21	37	0.5	- similar (Gravel portion Wet)	
	S-5	11	13	9	8	22	0.3	- similar	
10	S-6	19	21	27	5	48	0.2	- similar (Moist-Wet)	No cuttings returned. Large hole opened up at surface. Used 12 bags cement, 2 bags bentonite, and 1 bag sand to fill.
	S-7	16	14	14	16	28	0.1	- similar (Wet)	
15	S-8	24	8	10	43	18	0.2	- similar (Wet)	Abandoned with cement-bentonite grout mixture
	S-9	7	16	18	21	34	0.3	- similar	
	S-10	50/.2					0.1	- similar w/ thin seam Red-Brown clayey SILT noted End of Boring @ 18.5'	Spoon refusal @ 18.2' Auger Refusal @ 18.5'
20									
25									
30									
35									
40									
45									
50									

Split Spoon Sample
Shelby Tube Sample
Auger or Test Pit Sample
Rock Core

N = NUMBER OF BLOWS TO DRIVE 3" SPOON 12" WITH 140 lb. HAMMER FALLING 30" PER BLOW
DRILLING CONTRACTOR: Parratt Wolff, Inc.
DRILLER: Glenn Lansing
INVESTIGATION METHOD: 4 1/4" Hollow Stem Augers
RIG TYPE: CME 850x

CLASSIFICATION: JH
SHEET: 1 of 1

LANSING ENGINEERING, PC
7 HEMPHILL PLACE, SUITE 230, MALTA, NY 12020
TEL. (518) 899-5243 – FAX. (518) 899-5245

SUBSURFACE LOG

HOLE No.: SB-6-05

PROJECT:
Subsurface Investigation
C & D Technologies

LOCATION:
NYS Route 209
Huguenot, New York

PROJECT No.: 404.10
DATE STARTED: 2/21/05
DATE FINISHED: 2/22/05

SURFACE ELEV.: 473.0'
GW DEPTH: See Notes
REFERENCE PT.: Ground Surf.

DEPTH (ft)	SMPL. No.	0/6	6/12	12/18	18/24	N	REC. (ft)	SOIL CLASSIFICATION	NOTES
	S-1	21	25	18		43	1.4	Asphalt pavement over Light Brown fine SAND, trace silt (Slightly Moist)	Located on basin rim, southeast side.
	S-2	9	11	12	13	23	0.4	- similar	Water level @ 31.2' in augers @ 0715 morning of 2/22/05.
5	S-3	6	9	15	10	24	1.4	- similar, occasional seams fine-coarse SAND, trace coarse gravel	Hole grouted with bentonite-cement mix.
	S-4	12	15	18	16	33	1.2	- similar to S-3, seam very fine sand noted	
	S-5	7	10	10	12	20	1.0	- similar	
10	S-6	12	10	11	13	21	1.8	- becomes Light Brown very fine SAND (Slightly Moist)	Filled 2 drums w/ auger cuttings.
	S-7	13	16	16	19	32	1.7	- similar	
15	S-8	11	13	14	18	27	2.0	- similar	No visual or olfactory indications of contamination noted.
	S-9	13	13	15	14	28	1.6	- similar	Abandoned with cement-bentonite grout mixture
	S-10	9	18	17	17	35	1.2	- similar	
20	S-11	12	15	17	16	32	2.0	- similar	
	S-12	12	15	14	19	29	1.2	Light Brown very fine SAND, some Silt (Moist)	
25	S-13	8	13	18	14	31	2.0	- becomes Brown SAND & GRAVEL @ 25.0' (Moist)	
	S-14	8	9	14	16	23	1.8	Interbedded seams SAND / SAND & GRAVEL (Moist-Wet)	
	S-15	14	16	7	9	23	1.0	Brown fine-medium SAND, little coarse sand (Moist-Wet)	
30	S-16	11	21	31	29	52	2.0	- becomes Brown GLACIAL OUTWASH: SAND & GRAVEL, some Silt (Wet)	
	S-17	17	19	22	29	41	2.0	- similar	
35	S-18	16	25	26	29	51	2.0	Brown SAND & GRAVEL, trace silt	
	S-19	15	12	16	26	28	2.0	Gray-Brown fine-coarse SAND, some Gravel, trace silt	
	S-20	12	19	21	31	40	2.0	- similar, occasional silty fine sand seam noted (GLACIAL OUTWASH)	
40								End of Boring @ 40.0'	
45									
50									

Split Spoon Sample
Shelby Tube Sample
Auger or Test Pit Sample
Rock Core

N = NUMBER OF BLOWS TO DRIVE 3" SPOON 12" WITH 140 lb. HAMMER FALLING 30" PER BLOW
DRILLING CONTRACTOR: Parratt Wolff, Inc. DRILLER: Glenn Lansing
INVESTIGATION METHOD: 4 1/4" Hollow Stem Augers RIG TYPE: CME 850x

CLASSIFICATION: JH
SHEET: 1 of 1

LANSING ENGINEERING, PC
7 HEMPHILL PLACE, SUITE 230, MALTA, NY 12020
TEL. (518) 899-5243 - FAX. (518) 899-5245

SUBSURFACE LOG

HOLE No.: SB-7-05

PROJECT:
Subsurface Investigation
C & D Technologies

LOCATION:
NYS Route 209
Huguenot, New York

PROJECT No.: 404.10
DATE STARTED: 2/23/05
DATE FINISHED: 2/23/05

SURFACE ELEV.: 458.5'
GW DEPTH: See Notes
REFERENCE PT.: Ground Surf.

DEPTH (ft)	SMPL. No.	0/6	6/12	12/18	18/24	N	REC. (ft)	SOIL OR ROCK CLASSIFICATION	NOTES
	S-1	4	2	3	4	5	0.5	Topsoil: Dark Brown SAND & SILT (Frozen) becomes	Located in middle of basin.
	S-2	4	6	6	10	12	0.1	Brown SAND & GRAVEL, little silt (Moist)	Water level @ 13.7' in augers upon completion of sample S-8.
5	S-3	10	10	10	11	20	0.2	Brown coarse GRAVEL & SAND (Gravel portion includes shale fragments) (Moist)	Hole grouted with bentonite-cement mix. Encountered some difficulty while doing so due to coarse formation.
	S-4	9	13	10	13	23	0.5	- similar, becomes Red-Brown (Wet)	
	S-5	5	8	12	10	20	0.5	- similar, silty (Wet-Moist)	
10	S-6	6	10	9	19	19	0.1	- similar, (Moist-Wet)	No cuttings returned.
	S-7	5	14	9	6	23	0.1	- similar	
15	S-8	10	11	14	18	25	NR	- no recovery (spoon Wet)	
	S-9	14	14	18	16	32	NR	- no recovery	
	S-10	50/.4					NR	- no recovery (GLACIAL OUTWASH)	
20	S-11	62					0.5	Brown-Gray angular fine-coarse SAND, little silt (Brown silt seam in shoe)	Possible mild chem odor and/or thin seam dark staining noted in sample S-11.
								End of Boring @ 20.5'	
25									
30									
35									
40									
45									
50									

Split Spoon Sample
Shelby Tube Sample
Auger or Test Pit Sample
Rock Core

N = NUMBER OF BLOWS TO DRIVE 3" SPOON 12" WITH 140 lb. HAMMER FALLING 30" PER BLOW
DRILLING CONTRACTOR: Parratt Wolff, Inc.
DRILLER: Glenn Lansing
INVESTIGATION METHOD: 4 1/4" Hollow Stem Augers
RIG TYPE: CME 850x

CLASSIFICATION: JH
SHEET: 1 of 1

LANSING ENGINEERING, PC
7 HEMPHILL PLACE, SUITE 230, MALTA, NY 12020
TEL. (518) 899-5243 – FAX. (518) 899-5245

SUBSURFACE LOG

HOLE No.: SB-8-05

PROJECT:
Subsurface Investigation
C & D Technologies

LOCATION:
NYS Route 209
Huguenot, New York

PROJECT No.: 404.10
DATE STARTED: 2/24/05
DATE FINISHED: 2/24/05

SURFACE ELEV.: 459.8'
GW DEPTH: See Notes
REFERENCE PT.: Ground Surf.

DEPTH (ft)	SMPL. No.	0/6	6/12	12/18	18/24	N	REC. (ft)	SOIL CLASSIFICATION
	S-1	5	5	6	6	11	0.4	Topsoil (Frozen)
	S-2	5	3	3	4	6	0.3	- becomes Gravelly (Moist)
5	S-3	7	7	8	7	15	0.3	similar (silty SAND & GRAVEL w/ organics; Moist)
	S-4	15	17	16	18	33	NR	- no recovery
	S-5	17	16	12	14	28	1.1	Light Brown medium SAND w/ occasional seams coarse sand (Slightly Moist)
10	S-6	9	21	20	23	41	1.6	Light Brown fine-medium SAND, little gravel (Moist)
	S-7	12	14	12	19	26	NR	- no recovery
15	S-8	14	12	10	28	22	2.0	- similar to sample S-6 (Moist)
	S-9	9	11	14	24	25	1.0	Brown medium-coarse SAND, trace gravel (Wet)
	S-10	12	18	26	31	44	1.4	- similar, becomes fine-medium SAND, trace gravel
20	S-11	20	24	48	41	72	0.8	Brown coarse GRAVEL & SAND (poorly sorted; Wet)
	S-12	28	33	30	49	63	1.1	- similar
25	S-13	75/.1					0.1	- similar
	S-14	77	45	50/.2			0.9	(GLACIAL OUTWASH)
								End of Boring @ 26.2'
30								
35								
40								
45								
50								

NOTES

Located in basin, east side

Water level @ 14.9' in augers upon completion of sample S-12.

Water level @ 17.02' below top of PVC upon completion of well; 17.12' on 2/28/05.

No cuttings returned.

2" PVC monitoring well installed upon completion of boring:
- bottom of auger hole @ 25.0'
- 10' 0.010" well screen to 14.5'
- riser to surface
- #0 sand to 12.5'
- #00 sand to 12.0'
- bentonite chips to 9.0'
- #00 sand to 8.5'
- #0 sand to 25.0'
- grout to surface
- top of PVC elevation at 461.76'
- locking guard pipe installed

Split Spoon Sample
Shelby Tube Sample
Auger or Test Pit Sample
Rock Core

N = NUMBER OF BLOWS TO DRIVE 3" SPOON 12" WITH 140 lb. HAMMER FALLING 30" PER BLOW
DRILLING CONTRACTOR: Parratt Wolff, Inc.
DRILLER: Glenn Lansing
INVESTIGATION METHOD: 4 1/4" Hollow Stem Augers
RIG TYPE: CME 850x

CLASSIFICATION: JH
SHEET: 1 of 1

APPENDIX B

WELL COMPLETION LOGS

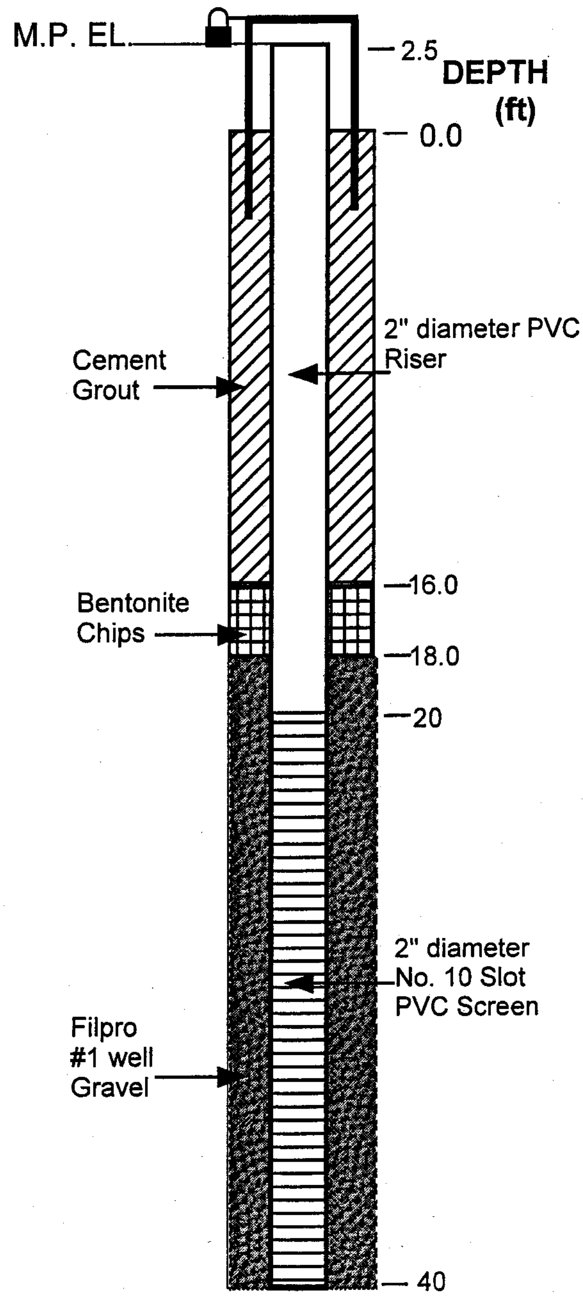
MONITORING WELL COMPLETION LOG

1071 Troy-Schenectady Road
Latham, NY 12110
(518) 783-1805

ALPHA
GEOSCIENCE

Well: MW-14
Project: C&D Battery
Project No.: 01124
Client: Delaware Engineering
Date Drilled: 7/23/01
Date Developed: 7/23/01

WELL CONSTRUCTION DETAILS



INSPECTION NOTES

Inspector: John M. Nadeau
Drilling Contractor: ADT
Type of Well: Monitoring
Static Water Level: 31.71 Date: 7/23/01
Measuring Point: Top of PVC
Total Well Depth: 40.0 feet

Riser Pipe
Material: Schedule 40 PVC Diameter: 2 inch
Length: 22.5 feet Joint Type: Threaded

Screen
Material: Schedule 40 PVC Diameter: 2 inch
Slot Size: 10 Length: 20 feet
Stratigraphic Unit Screened: Sand and Gravel

Packing
Sand: ____ Gravel: #1 Natural: ____
Amount: 5 bags Interval: 18-40 feet

Seal
Type: Bentonite Chips Interval: 16.0-18.0 feet

Locking Case: ____ Yes [X] No [ ]
Diameter: 4 inch

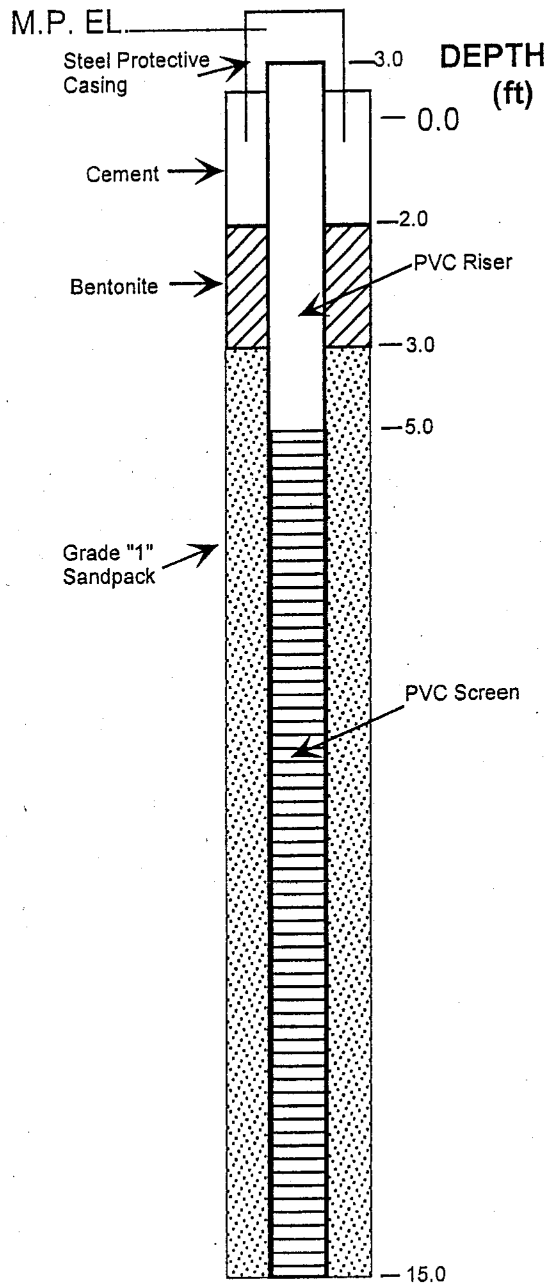
Notes:

MONITORING WELL COMPLETION LOG

ALPHA GEOSCIENCE
679 Plank Road
Clifton Park, NY 12065
(518) 348-6995

Well MW-15A
Project C&D Battery
Project No. 03124
Client Delaware Engineering
Date Drilled 8/27/03
Date Developed 8/27/03

WELL CONSTRUCTION DETAILS



INSPECTION NOTES

Inspector John M. Nadeau
Drilling Contractor Aquifer Drilling and Testing
Type of Well Monitoring
Static Water Level 7.08 Date 8/28/03
Measuring Point Top of PVC
Total Well Depth 15.0 feet below grade

Riser Pipe
Material Schedule 40 PVC Diameter 2-inch
Length 8 ft (including 3 ft stick-up) Joint Type Threaded

Screen
Material Schedule 40 PVC Diameter 2-inch
Slot Size No. 10 Length 10 feet
Stratigraphic Unit Screened Sand and Gravel

Packing
Sand Grade "1" Gravel ______ Natural ______
Amount 3 bags Interval 3.0 - 15.0 ft

Seal
Type Bentonite Chips Interval 2.0-3.0 ft

Locking Case: ______ Yes [X] No [ ]
Diameter 4-inch

Notes:

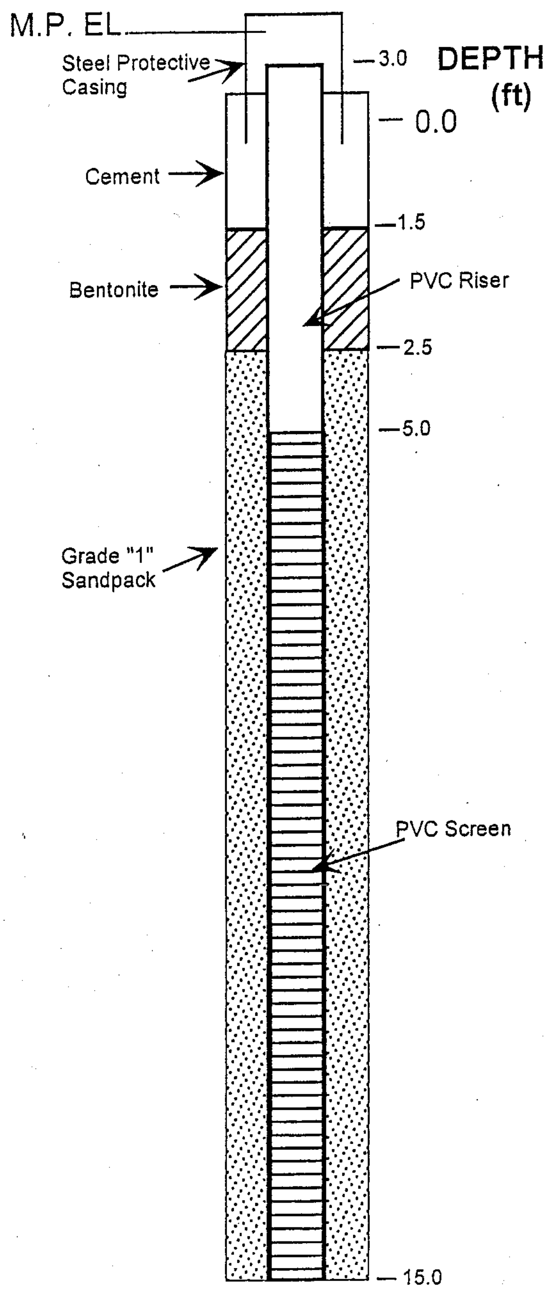
MONITORING WELL COMPLETION LOG

679 Plank Road
Clifton Park, NY 12065
(518) 348-6995

ALPHA GEOSCIENCE

Well MW-16
Project C&D Battery
Project No. 03124
Client Delaware Engineering
Date Drilled 8/27/03
Date Developed 8/27/03

WELL CONSTRUCTION DETAILS



INSPECTION NOTES

Inspector John M. Nadeau
Drilling Contractor Aquifer Drilling and Testing
Type of Well Monitoring
Static Water Level 4.68 ft Date 8/28/03
Measuring Point Top of PVC
Total Well Depth 15.0 feet below grade

Riser Pipe
Material Schedule 40 PVC Diameter 2-inch
Length 8 ft (including 3 ft stick-up) Joint Type Threaded

Screen
Material Schedule 40 PVC Diameter 2-inch
Slot Size No. 10 Length 10 feet
Stratigraphic Unit Screened Sand and Gravel

Packing
Sand Grade "1" Gravel ______ Natural ______
Amount 3 bags Interval 2.5 - 15.0 ft

Seal
Type Bentonite Chips Interval 1.5-2.5 ft

Locking Case: ______ Yes [X] No [ ]
Diameter 4-inch

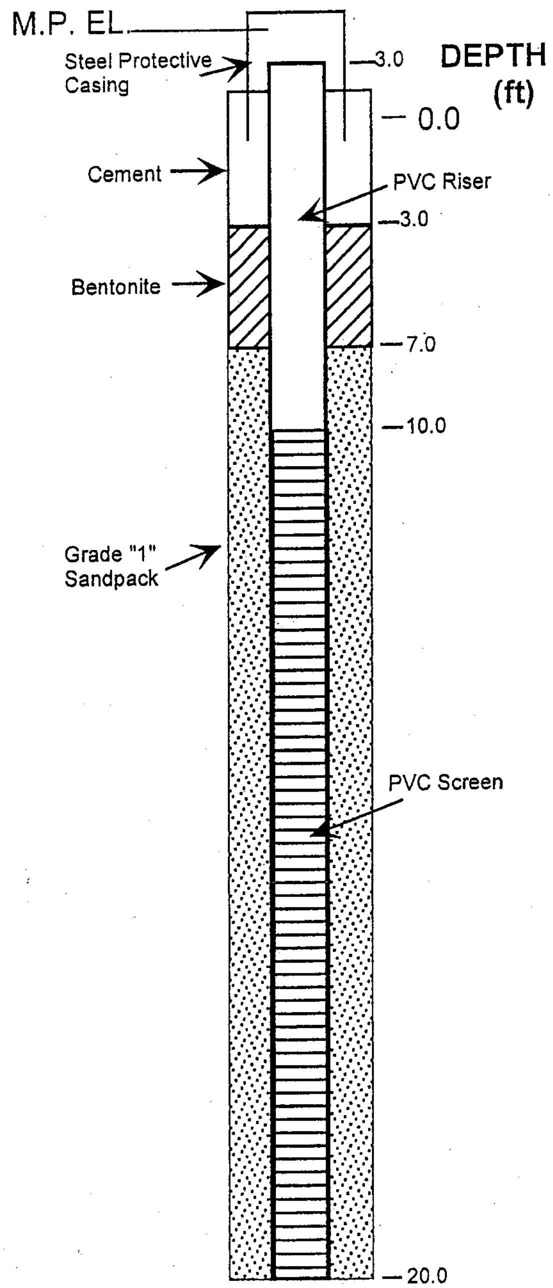
Notes:

MONITORING WELL COMPLETION LOG

ALPHA GEOSCIENCE
679 Plank Road
Clifton Park, NY 12065
(518) 348-6995

Well: MW-17
Project: C&D Battery
Project No.: 03124
Client: Delaware Engineering
Date Drilled: 8/27/03
Date Developed: 8/27/03

WELL CONSTRUCTION DETAILS



INSPECTION NOTES

Inspector: John M. Nadeau
Drilling Contractor: Aquifer Drilling and Testing
Type of Well: Monitoring
Static Water Level: 14.92 Date: 8/28/03
Measuring Point: Top of PVC
Total Well Depth: 20.0 feet below grade

Riser Pipe
Material: Schedule 40 PVC Diameter: 2-inch
Length: 13 ft (including 3 ft stick up) Joint Type: Threaded

Screen
Material: Schedule 40 PVC Diameter: 2-inch
Slot Size: No. 10 Length: 10 feet
Stratigraphic Unit Screened: Sand and Gravel

Packing
Sand: Grade "1" Gravel: ______ Natural: ______
Amount: 3 bags Interval: 7.0 - 20.0 ft

Seal
Type: Bentonite Chips Interval: 3-7 ft

Locking Case: ______ Yes [X] No [ ]
Diameter: 4-inch

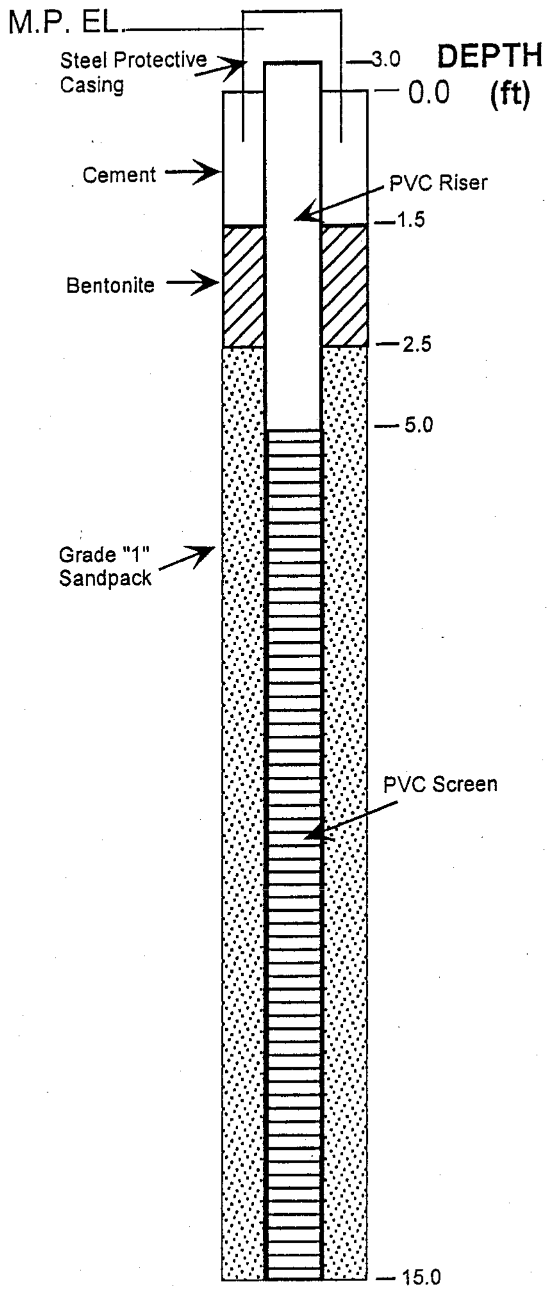
Notes:

MONITORING WELL COMPLETION LOG

ALPHA GEOSCIENCE
679 Plank Road
Clifton Park, NY 12065
(518) 348-6995

Well MW-17A
Project C&D Battery
Project No. 03124
Client Delaware Engineering
Date Drilled 8/28/03
Date Developed 8/28/03

WELL CONSTRUCTION DETAILS



INSPECTION NOTES

Inspector John M. Nadeau
Drilling Contractor Aquifer Drilling and Testing
Type of Well Monitoring
Static Water Level 8.08 ft Date 8/28/03
Measuring Point Top of PVC
Total Well Depth 15.0 feet below grade

Riser Pipe
Material Schedule 40 PVC Diameter 2-inch
Length 8.0 feet Joint Type Threaded

Screen
Material Schedule 40 PVC Diameter 2-inch
Slot Size No. 10 Length 10 feet
Stratigraphic Unit Screened Sand and Gravel

Packing
Sand Grade "1" Gravel ______ Natural ______
Amount 3 bags Interval 2.5-15.0 ft

Seal
Type Bentonite Chips Interval 1.5-2.5 ft

Locking Case: ______ Yes [X] No [ ]
Diameter 4-inch

Notes:

H2H ASSOCIATES, LLC
7 Hemphill Place, Suite 138 Malta, NY 12020
Tel. (518) 899-3484 Fax (518) 899-3487

WELL CONSTRUCTION FORM

MW-18
Well No.: SB-8-05

PROJECT: C&D Technologies, Inc. - Lagoon Area	PROJECT NO.: 404.10
CLIENT: Delaware Engineering, P.C.	DATE DRILLED: 2/24/05
LOCATION: Huguenot, Orange County, New York	DATE DEVELOPED:
DRILLING CONTRACTOR: Parratt-Wolff, Inc.	PURPOSE: Environmental Montoring Well Installation
INSPECTOR: John S. Hutchison	

Type of Well: Environmental
Static Water Level: 17.12 Date: 2/24/05
Measuring Point (M.P.): Top of PVC
Total Depth of Well: 24.5' below grade
Total Depth of Boring: 26.2' below grade

Drilling Method
Type: Hollow Stem Auger Diameter: 41/4" I.D.
Casing: Steel

Sampling Method
Type: Split Spoon Diameter: 3" O.D.
Weight: 140 pound Fall: 30-inch
Interval Continuous

Riser Pipe Left in Place
Material: Schedule 40 PVC Diameter: 2" I.D.
Length: 16.46' Joint Type: Flush, threaded

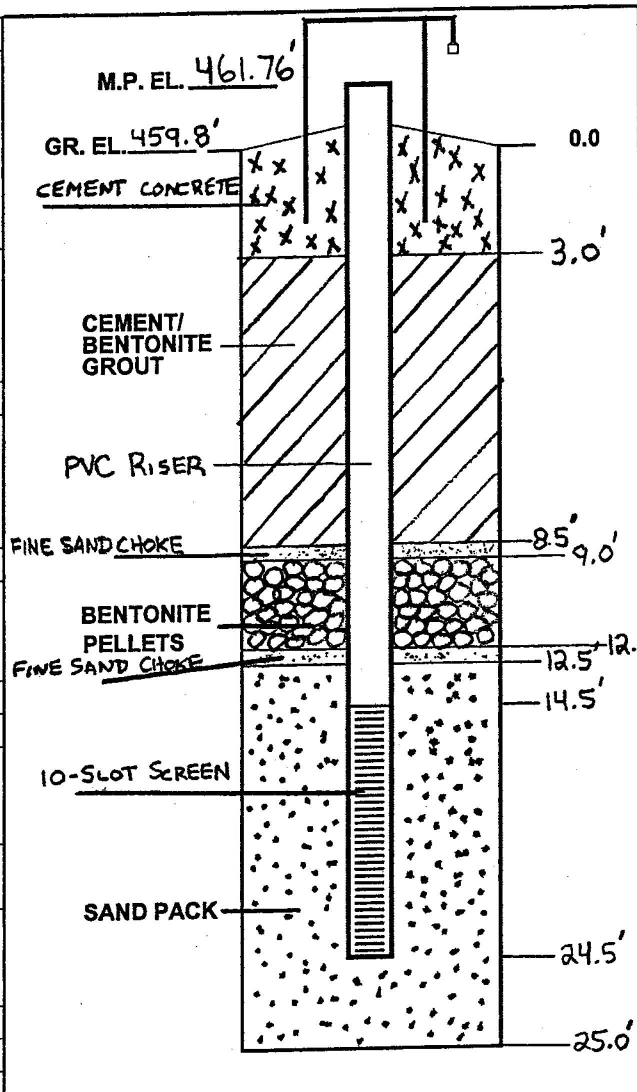
Screen
Material: Schedule 40 PVC Diameter: 2" I.D.
Slot Size: 10-slot Length: 10 feet(14.5 - 24.5' BGS)
Stratigraphic Unit Screened: Glacial Outwash

Filter Pack
Sand: X Gravel: Natural:
Grade: Unimin #0 / Unimin #00
Amount: Interval: 12.5 - 25.0' BGS (#0)
12.0 - 12.5' BGS / 8.5 - 9.0' BGS (#00)

Seal(s)
Type: Cement Concrete Interval: 0 - 3' BGS
Type: Cement-Bentonite Interval: 3 - 8.5' BGS
Type: Bentonie Interval: 9 - 12' BGS

Locking Casing: X Yes ☐ No

Well Installation Detail

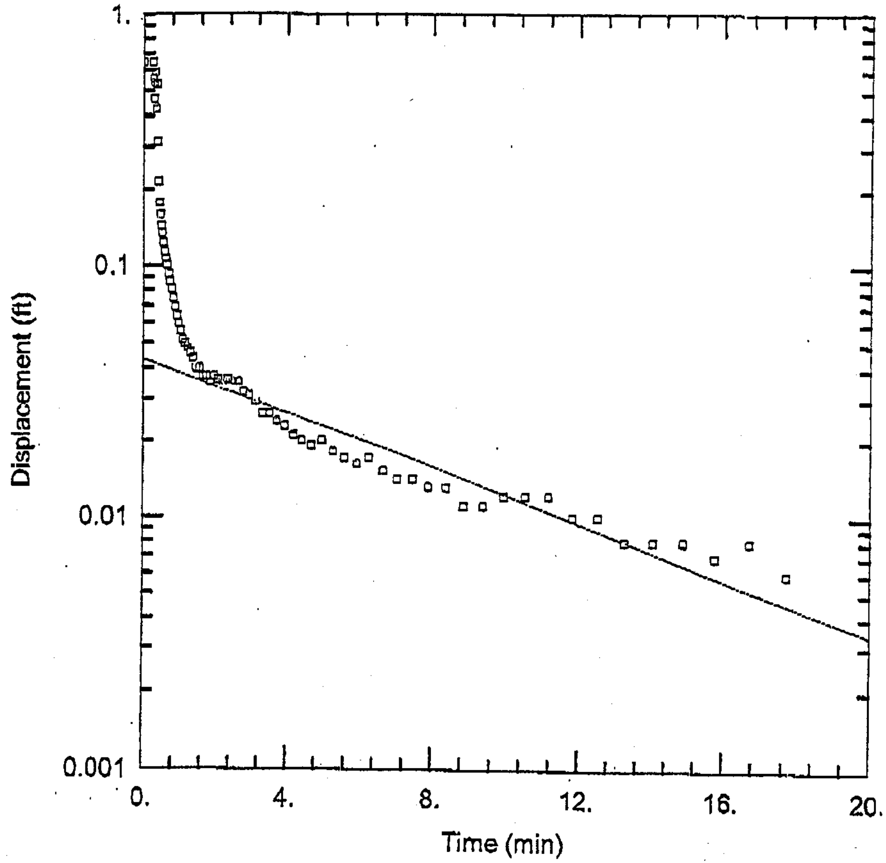


NOT TO SCALE

Notes:

APPENDIX C

HYDRAULIC CONDUCTIVITY TEST REPORTS



WELL MW-14 K-TEST #1

Data Set: \\Server\Main Station\projects\2001\01121-01140\01124-Delaware C&D\K-Test\K-Test #1.aqt
Date: 07/24/01 Time: 11:54:48

PROJECT INFORMATION

Company: Alpha Geoscience
Client: Delaware Engineering
Project: 01124
Test Location: Huegenot, NY
Test Well: MW-14
Test Date: 7/23/01

AQUIFER DATA

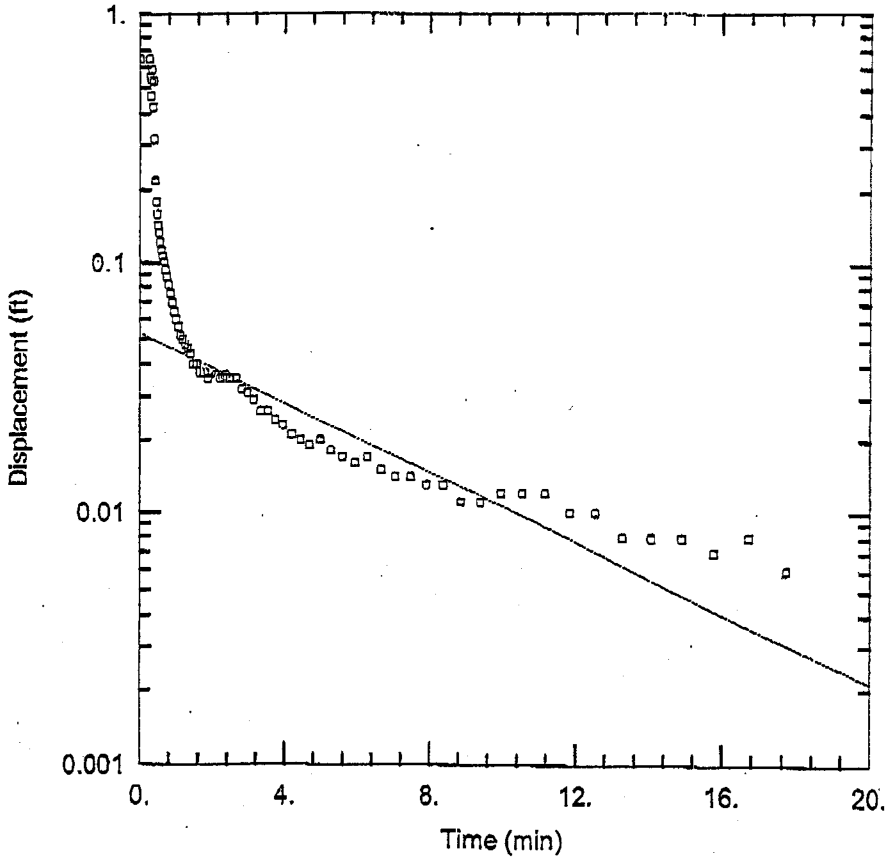
Saturated Thickness: 150. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-14)

Initial Displacement: 0.647 ft
Wellbore Radius: 0.354 ft
Screen Length: 20. ft
Gravel Pack Porosity: 0.35
Casing Radius: 0.083 ft
Well Skin Radius: 0.354 ft
Total Well Penetration Depth: 10.79 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.0001794 cm/sec
y0 = 0.04335 ft



WELL MW-14 K-TEST #1

Data Set: \\Server\Main Station\projects\2001\01121-01140\01124-Delaware C&D\K-Test\K-Test #1.aqt
Date: 07/24/01 Time: 11:53:39

PROJECT INFORMATION

Company: Alpha Geoscience
Client: Delaware Engineering
Project: 01124
Test Location: Huegenot, NY
Test Well: MW-14
Test Date: 7/23/01

AQUIFER DATA

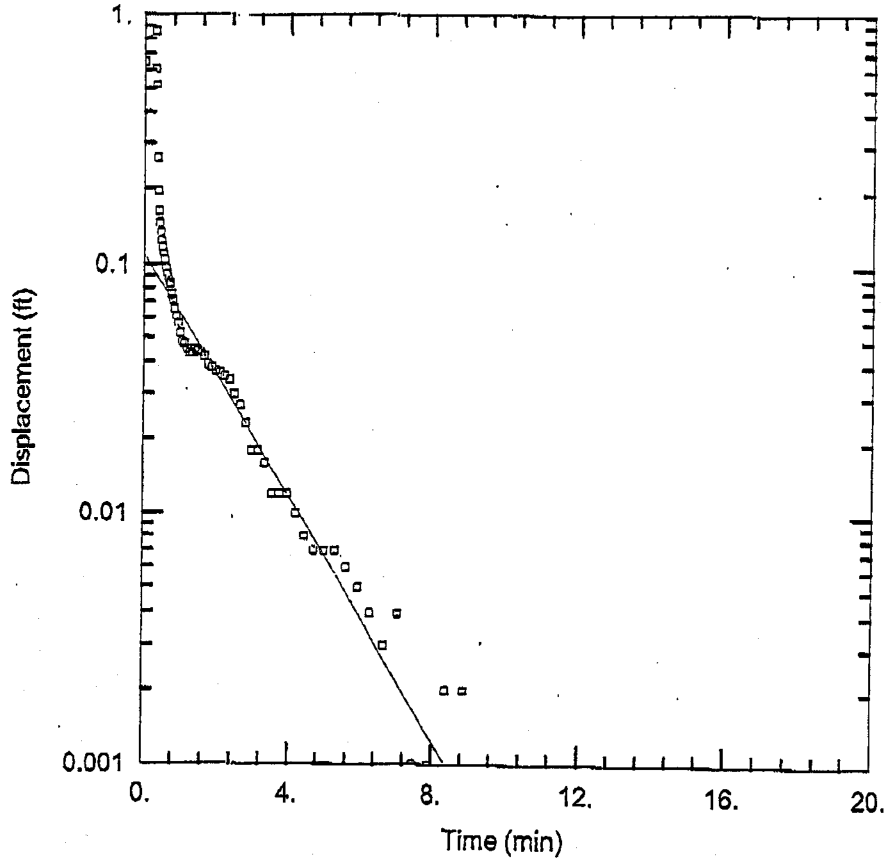
Saturated Thickness: 150. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-14)

Initial Displacement: 0.647 ft
Wellbore Radius: 0.354 ft
Screen Length: 20. ft
Gravel Pack Porosity: 0.35
Casing Radius: 0.083 ft
Well Skin Radius: 0.354 ft
Total Well Penetration Depth: 10.79 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.0003988 cm/sec
y0 = 0.05306 ft



WELL MW-14 K-TEST #2

Data Set: \...\K-Test #2 br.aqt
Date: 07/24/01 Time: 12:01:24

PROJECT INFORMATION

Company: Alpha Geoscience
Client: Delaware Engineering
Project: 01124
Test Location: Huegenot, NY
Test Well: MW-14
Test Date: 7/23/01

AQUIFER DATA

Saturated Thickness: 150. ft Anisotropy Ratio (Kz/Kr): 1.

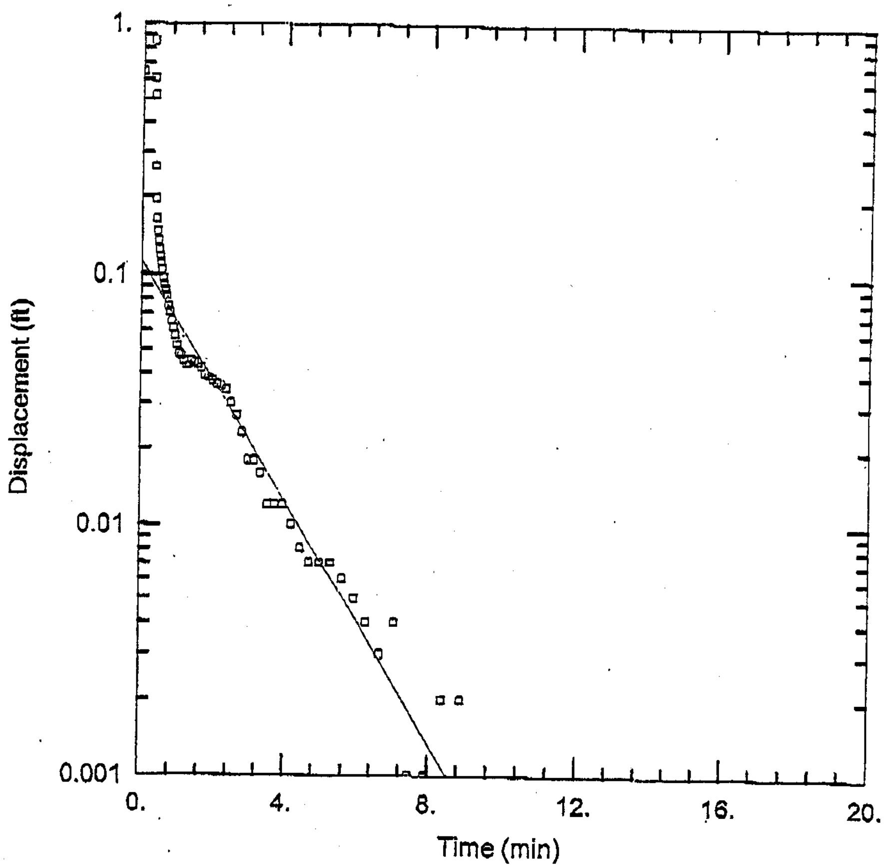
WELL DATA (MW-14)

Initial Displacement: 0.647 ft
Wellbore Radius: 0.354 ft
Screen Length: 20. ft
Gravel Pack Porosity: 0.35

Casing Radius: 0.083 ft
Well Skin Radius: 0.354 ft
Total Well Penetration Depth: 10.79 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
K = 0.0007883 cm/sec y0 = 0.1083 ft



WELL MW-14 K-TEST #2

Data Set: \\Server\Main Station\projects\2001\01121-01140\01124-Delaware C&D\K-Test\K-Test #2.aqt
Date: 07/24/01 Time: 12:01:49

PROJECT INFORMATION

Company: Alpha Geoscience
Client: Delaware Engineering
Project: 01124
Test Location: Huegenot, NY
Test Well: MW-14
Test Date: 7/23/01

AQUIFER DATA

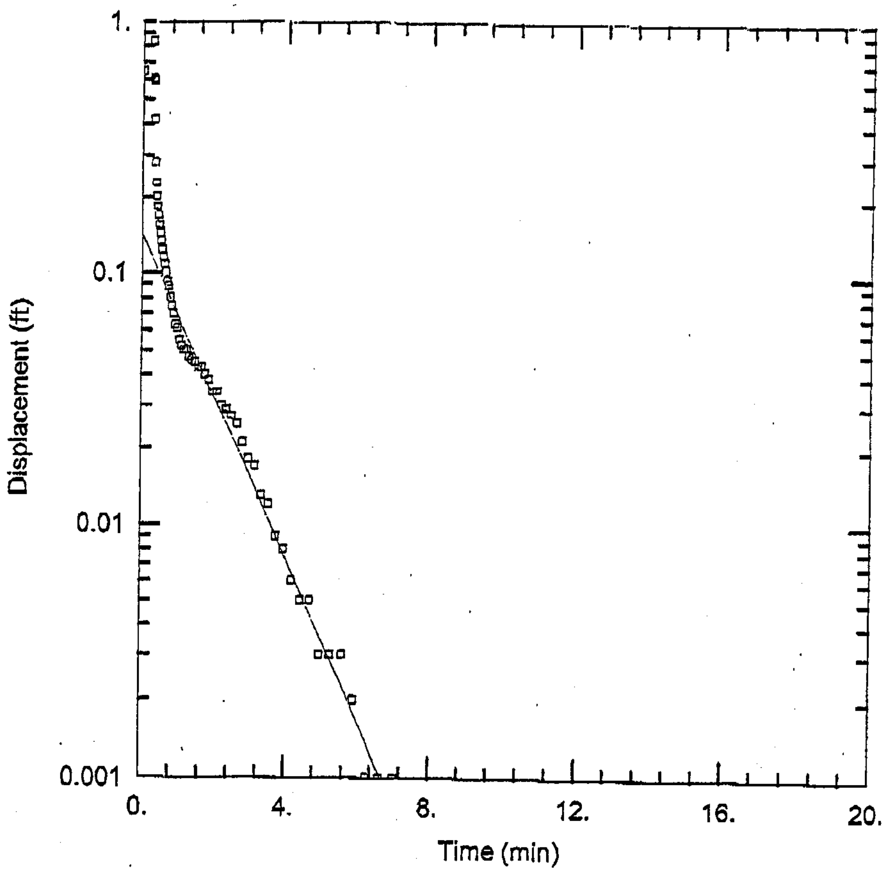
Saturated Thickness: 150. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-14)

Initial Displacement: 0.647 ft
Wellbore Radius: 0.354 ft
Screen Length: 20. ft
Gravel Pack Porosity: 0.35
Casing Radius: 0.083 ft
Well Skin Radius: 0.354 ft
Total Well Penetration Depth: 10.79 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.001369 cm/sec
y0 = 0.1116 ft



WELL MW-14 K-TEST #3

Data Set: \\Server\Main Station\projects\2001\01121-01140\01124-Delaware C&D\K-Test\K-Test #3.aqt
Date: 07/24/01 Time: 12:02:14

PROJECT INFORMATION

Company: Alpha Geoscience
Client: Delaware Engineering
Project: 01124
Test Location: Huegenot, NY
Test Well: MW-14
Test Date: 7/23/01

AQUIFER DATA

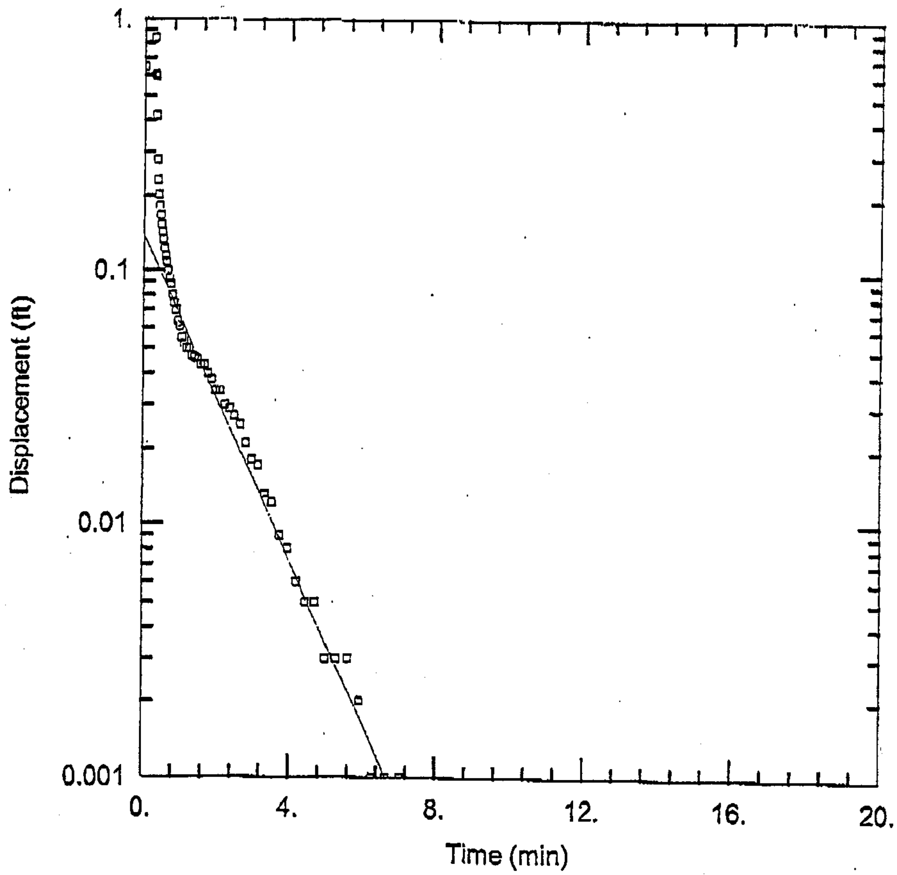
Saturated Thickness: 150. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-14)

Initial Displacement: 0.647 ft
Wellbore Radius: 0.354 ft
Screen Length: 20. ft
Gravel Pack Porosity: 0.35
Casing Radius: 0.083 ft
Well Skin Radius: 0.354 ft
Total Well Penetration Depth: 10.79 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.001834 cm/sec
y0 = 0.142 ft



WELL MW-14 K-TEST #3

Data Set: \...\K-Test #3 br.aqt
Date: 07/24/01 Time: 12:02:49

PROJECT INFORMATION

Company: Alpha Geoscience
Client: Delaware Engineering
Project: 01124
Test Location: Huegenot, NY
Test Well: MW-14
Test Date: 7/23/01

AQUIFER DATA

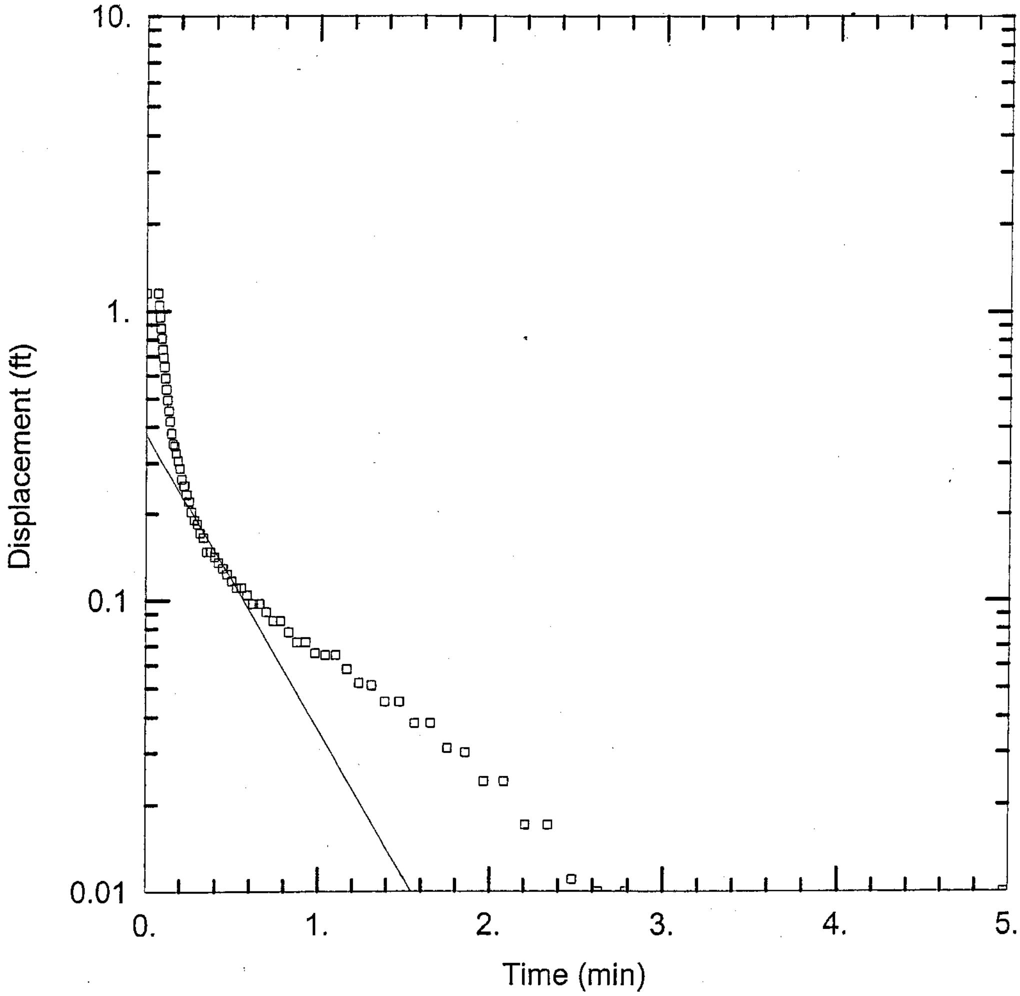
Saturated Thickness: 150. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-14)

Initial Displacement: 0.647 ft
Wellbore Radius: 0.354 ft
Screen Length: 20. ft
Gravel Pack Porosity: 0.35
Casing Radius: 0.083 ft
Well Skin Radius: 0.354 ft
Total Well Penetration Depth: 10.79 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.001045 cm/sec
y0 = 0.1378 ft



C&D BATTERY MW-15A TEST #1 (BOUWER-RICE)

Data Set: D:\...\MW-15A Test #1 Rice.aqt
Date: 09/18/03
Time: 09:22:30

PROJECT INFORMATION

Company: Alpha Geoscience
Client: Delaware Engineering
Project: 03124
Test Location: Huguenot, New York
Test Well: MW-15A
Test Date: 8/28/03

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

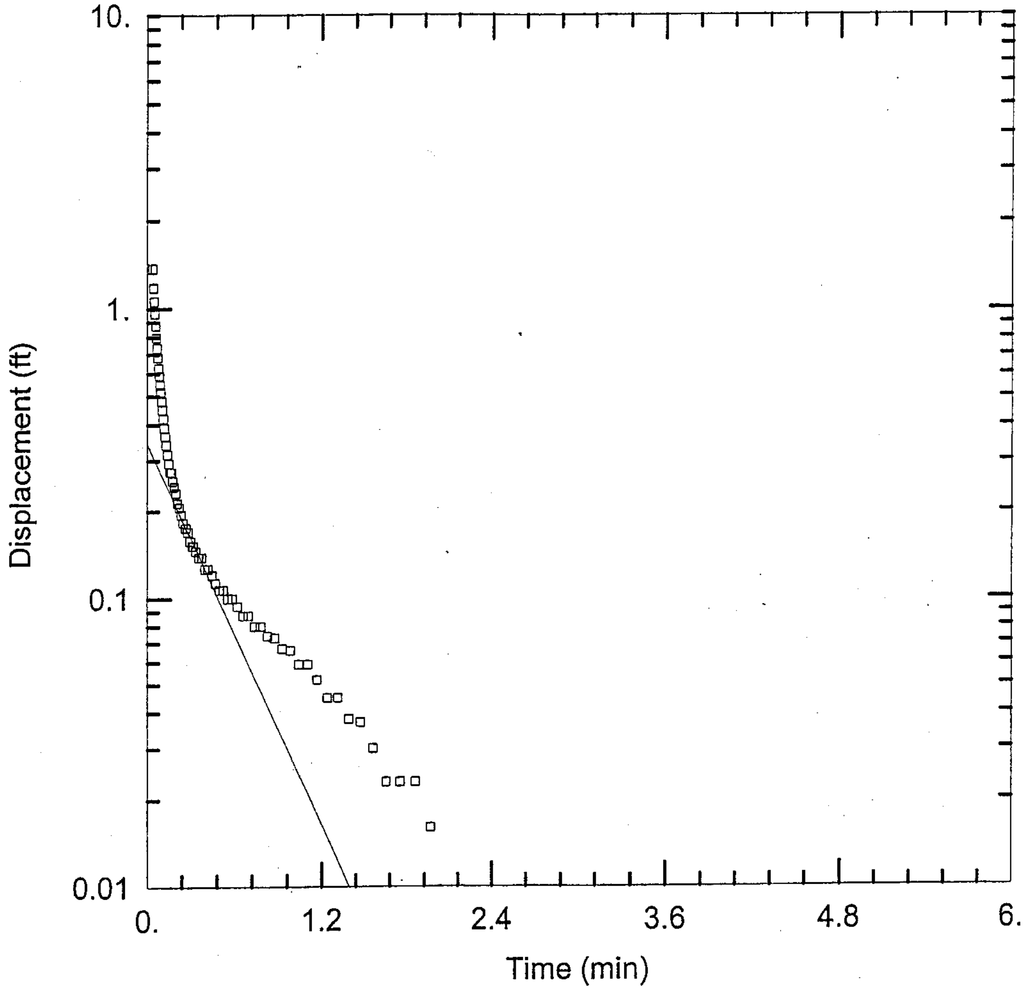
WELL DATA (MW-15A)

Initial Displacement: 1.149 ft
Wellbore Radius: 0.344 ft
Screen Length: 10. ft
Gravel Pack Porosity: 0.35
Casing Radius: 0.083 ft
Well Skin Radius: 0.344 ft
Total Well Penetration Depth: 10.78 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.0008619 cm/sec
y0 = 0.3776 ft



C&D BATTERY MW-15A TEST #2 (BOUWER-RICE)

Data Set: D:\...\MW-15A Test #2 Rice.aqt
Date: 09/18/03 Time: 09:29:45

PROJECT INFORMATION

Company: Alpha Geoscience
Client: Delaware Engineering
Project: 03124
Test Location: Huguenot, New York
Test Well: MW-15A
Test Date: 8/28/03

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

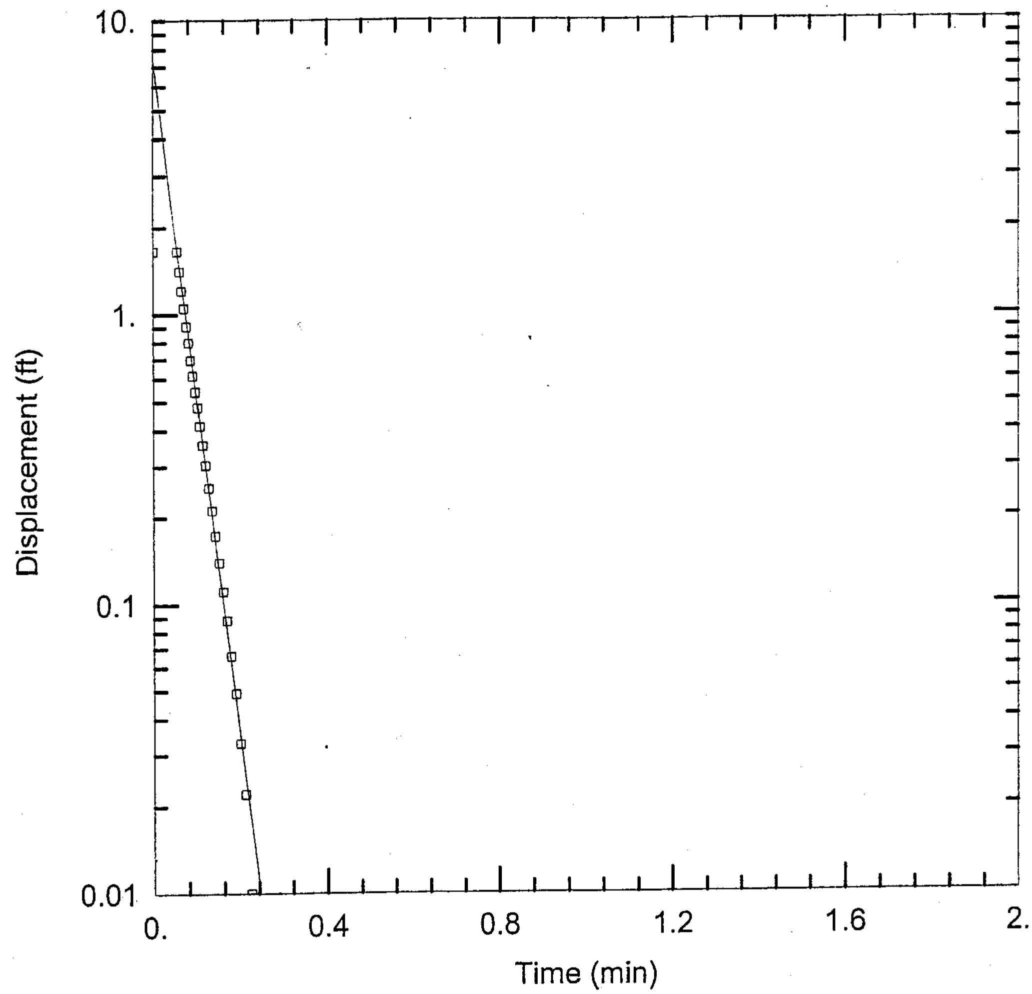
WELL DATA (MW-15A)

Initial Displacement: 1.365 ft
Wellbore Radius: 0.344 ft
Screen Length: 10. ft
Gravel Pack Porosity: 0.35
Casing Radius: 0.083 ft
Well Skin Radius: 0.344 ft
Total Well Penetration Depth: 10.78 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.0009299 cm/sec
y0 = 0.3443 ft



C&D BATTERY MW-16 TEST #1 (BOUWER-RICE)

Data Set: D:\...\MW-16 Test #1 Rice.aqt
Date: 09/18/03
Time: 09:21:05

PROJECT INFORMATION

Company: Alpha Geoscience
Client: Delaware Engineering
Project: 03124
Test Location: Huguenot, New York
Test Well: MW-16
Test Date: 8/27/03

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

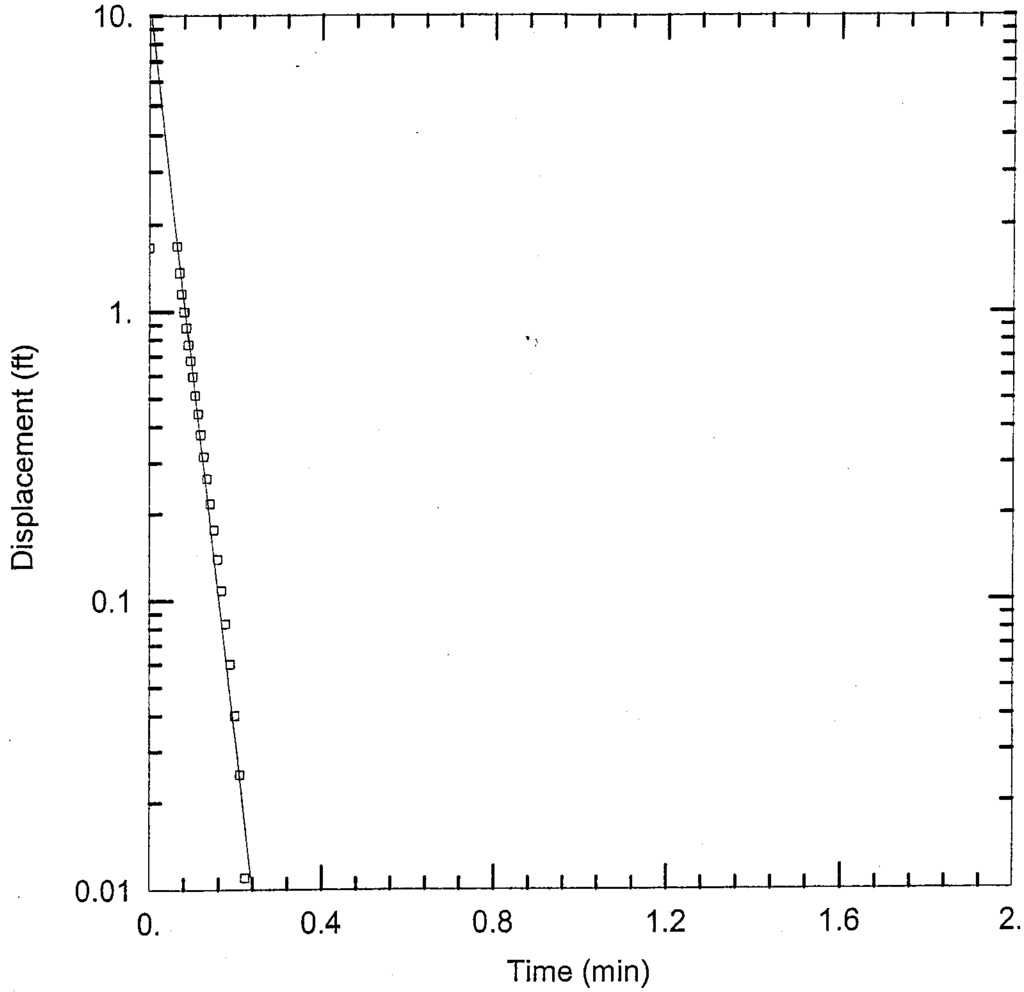
WELL DATA (MW-16)

Initial Displacement: 1.656 ft
Wellbore Radius: 0.344 ft
Screen Length: 10. ft
Gravel Pack Porosity: 0.35
Casing Radius: 0.083 ft
Well Skin Radius: 0.344 ft
Total Well Penetration Depth: 13.37 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.01034 cm/sec
y0 = 7.416 ft



C&D BATTERY MW-16 TEST #2 (BOUWER-RICE)

Data Set: D:\...\MW-16 Test #2 Rice.aqt
Date: 09/18/03 Time: 09:20:26

PROJECT INFORMATION

Company: Alpha Geoscience
Client: Delaware Engineering
Project: 03124
Test Location: Huguenot, New York
Test Well: MW-16
Test Date: 8/27/03

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

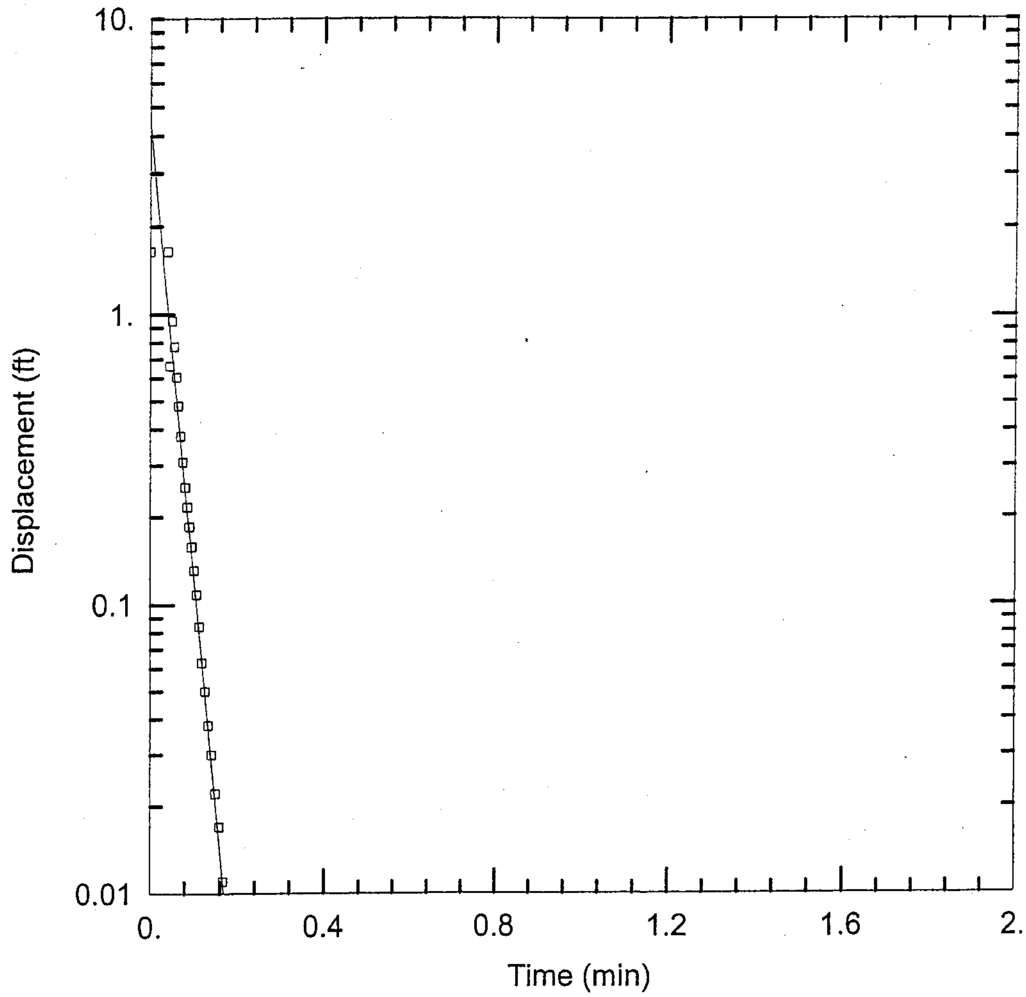
WELL DATA (MW-16)

Initial Displacement: 1.656 ft
Wellbore Radius: 0.344 ft
Screen Length: 10. ft
Gravel Pack Porosity: 0.35
Casing Radius: 0.083 ft
Well Skin Radius: 0.344 ft
Total Well Penetration Depth: 13.37 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.01121 cm/sec
y0 = 11.36 ft



C&D BATTERY MW-17 TEST #1 (BOUWER-RICE)

Data Set: D:\...\MW-17 Test #1 Rice.aqt
Date: 09/18/03 Time: 09:33:08

PROJECT INFORMATION

Company: Alpha Geoscience
Client: Delaware Engineering
Project: 03124
Test Location: Huguenot, New York
Test Well: MW-17
Test Date: 8/28/03

AQUIFER DATA

Saturated Thickness: 100. ft Anisotropy Ratio (Kz/Kr): 1.

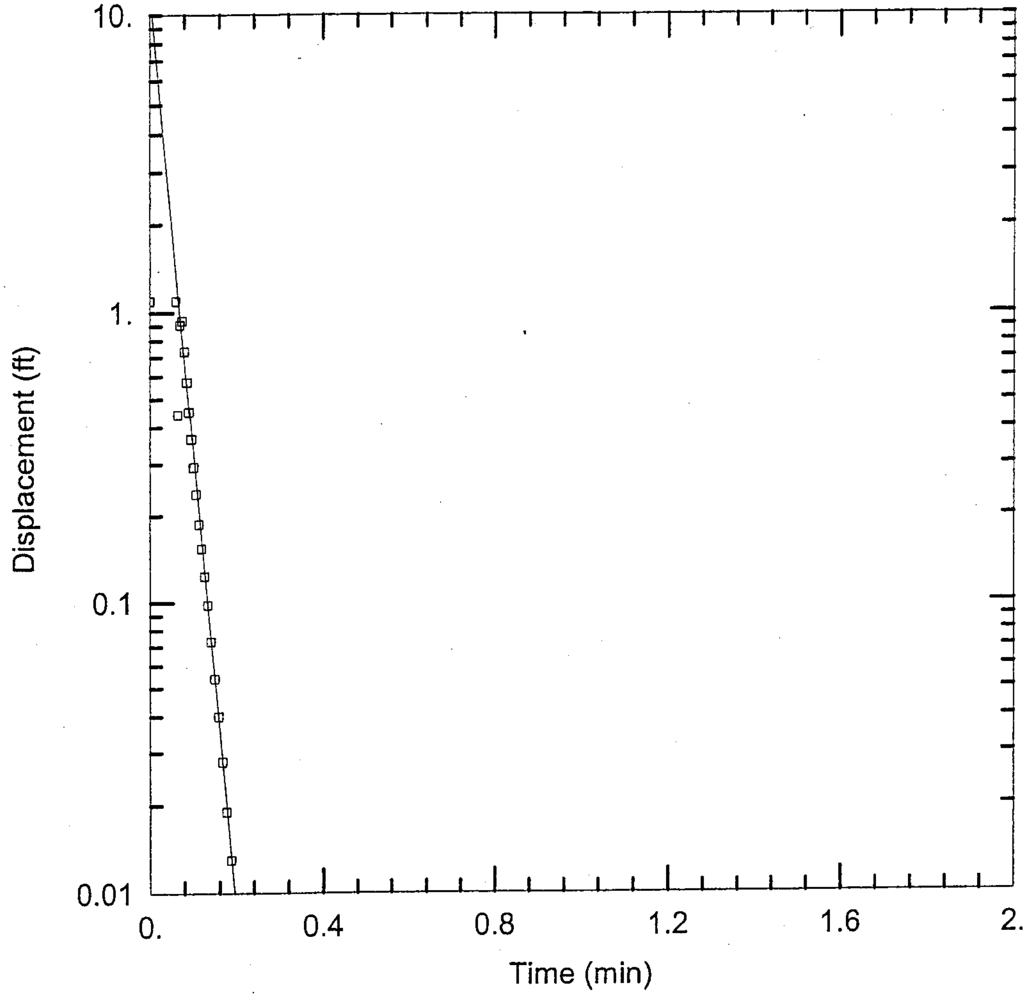
WELL DATA (MW-17)

Initial Displacement: 1.642 ft
Wellbore Radius: 0.344 ft
Screen Length: 10. ft
Gravel Pack Porosity: 0.35
Casing Radius: 0.083 ft
Well Skin Radius: 0.344 ft
Total Well Penetration Depth: 7.26 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.08094 cm/sec y0 = 4.42 ft



C&D BATTERY MW-17 TEST #2 (BOUWER-RICE)

Data Set: D:\...\MW-17 Test #2 Rice.aqt
Date: 09/18/03
Time: 09:34:09

PROJECT INFORMATION

Company: Alpha Geoscience
Client: Delaware Engineering
Project: 03124
Test Location: Huguenot, New York
Test Well: MW-17
Test Date: 8/28/03

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

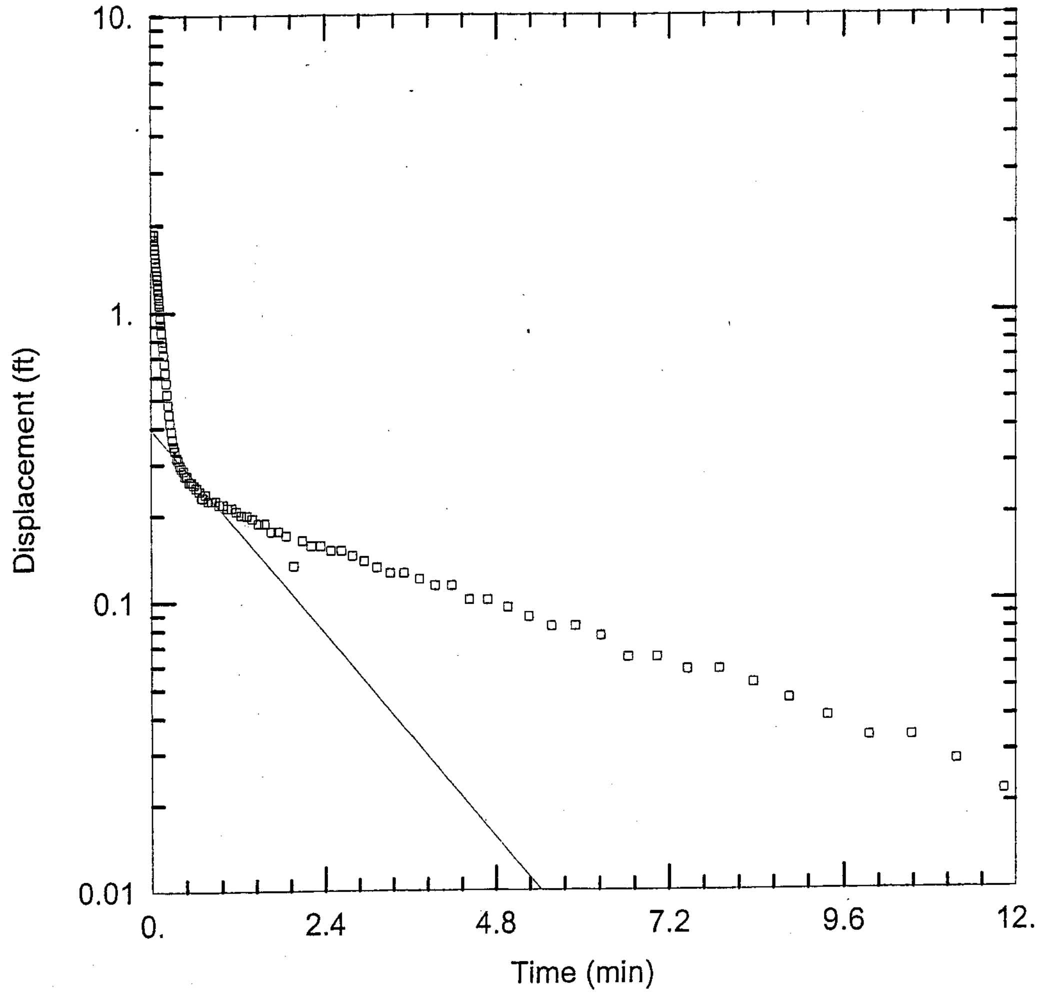
WELL DATA (MW-17)

Initial Displacement: 1.096 ft
Wellbore Radius: 0.344 ft
Screen Length: 10. ft
Gravel Pack Porosity: 0.35
Casing Radius: 0.083 ft
Well Skin Radius: 0.344 ft
Total Well Penetration Depth: 7.26 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.08155 cm/sec
y0 = 12.3 ft



C&D BATTERY MW-17A TEST #1 (BOUWER-RICE)

Data Set: D:\...\MW-17A Test #1 Rice.aqt
Date: 09/18/03 Time: 09:34:41

PROJECT INFORMATION

Company: Alpha Geoscience
Client: Delaware Engineering
Project: 03124
Test Location: Huguenot, New York
Test Well: MW-17A
Test Date: 8/28/03

AQUIFER DATA

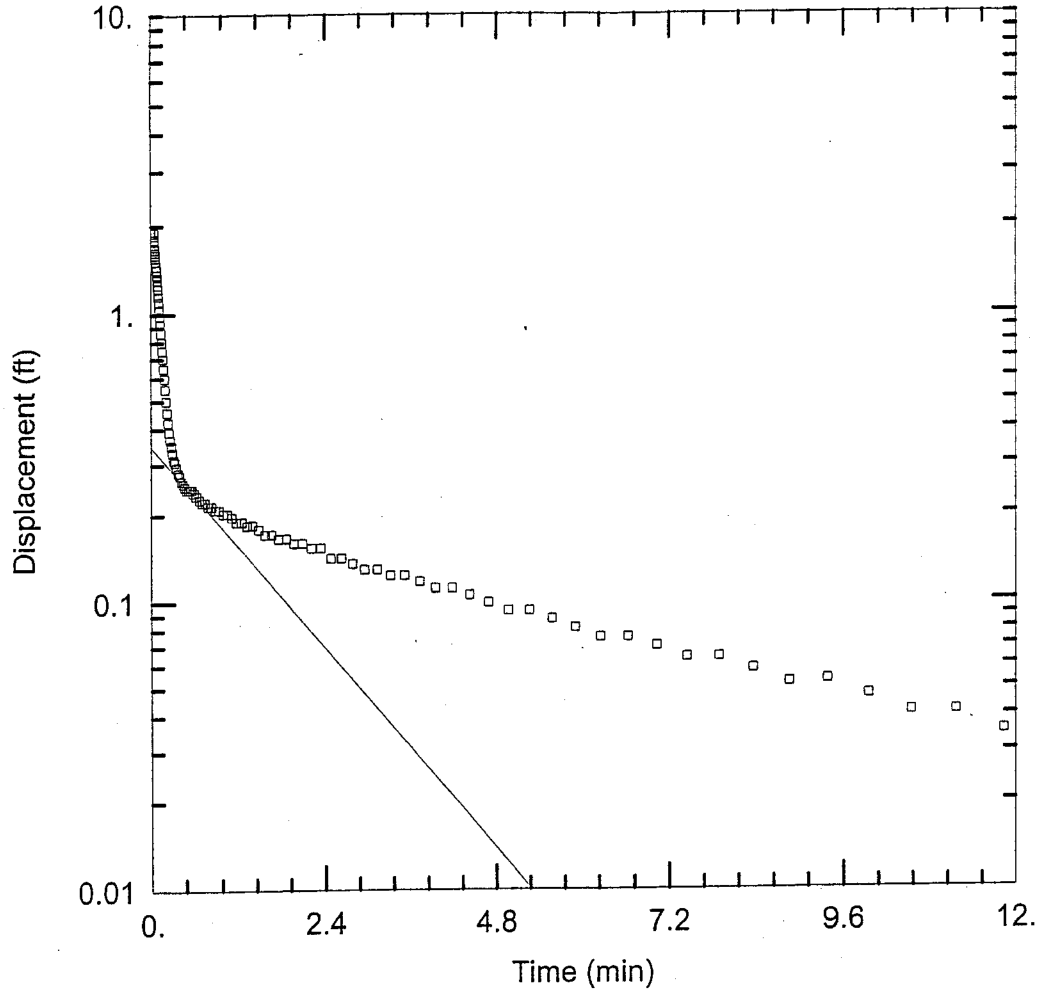
Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-17A)

Initial Displacement: 1.861 ft
Wellbore Radius: 0.344 ft
Screen Length: 10. ft
Gravel Pack Porosity: 0.35
Casing Radius: 0.083 ft
Well Skin Radius: 0.344 ft
Total Well Penetration Depth: 9.82 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.001621 cm/sec
y0 = 0.3959 ft



C&D BATTERY MW-17A TEST #2 (BOUWER-RICE)

Data Set: D:\...\MW-17A Test #2 Rice.aqt
Date: 09/18/03 Time: 10:27:52

PROJECT INFORMATION

Company: Alpha Geoscience
Client: Delaware Engineering
Project: 03124
Test Location: Huguenot, New York
Test Well: MW-17A
Test Date: 8/28/03

AQUIFER DATA

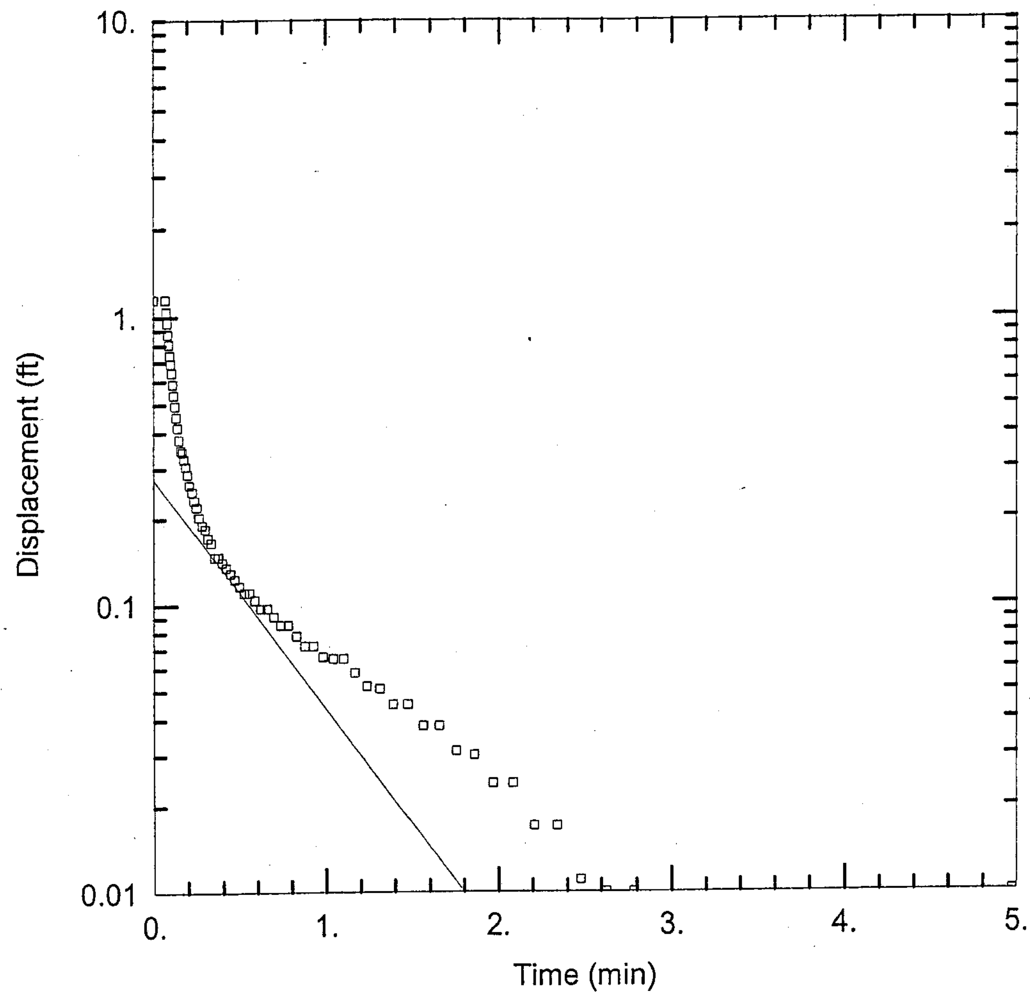
Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-17A)

Initial Displacement: 1.893 ft
Wellbore Radius: 0.344 ft
Screen Length: 10. ft
Gravel Pack Porosity: 0.35
Casing Radius: 0.083 ft
Well Skin Radius: 0.344 ft
Total Well Penetration Depth: 9.82 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.001606 cm/sec
y0 = 0.3469 ft



C&D BATTERY MW-15A TEST #1 (HVORSLEV)

Data Set: D:\...\MW-15A Test #1 Hv.aqt
Date: 09/18/03 Time: 10:59:40

PROJECT INFORMATION

Company: Alpha Geoscience
Client: Delaware Engineering
Project: 03124
Test Location: Huguenot, New York
Test Well: MW-15A
Test Date: 8/28/03

AQUIFER DATA

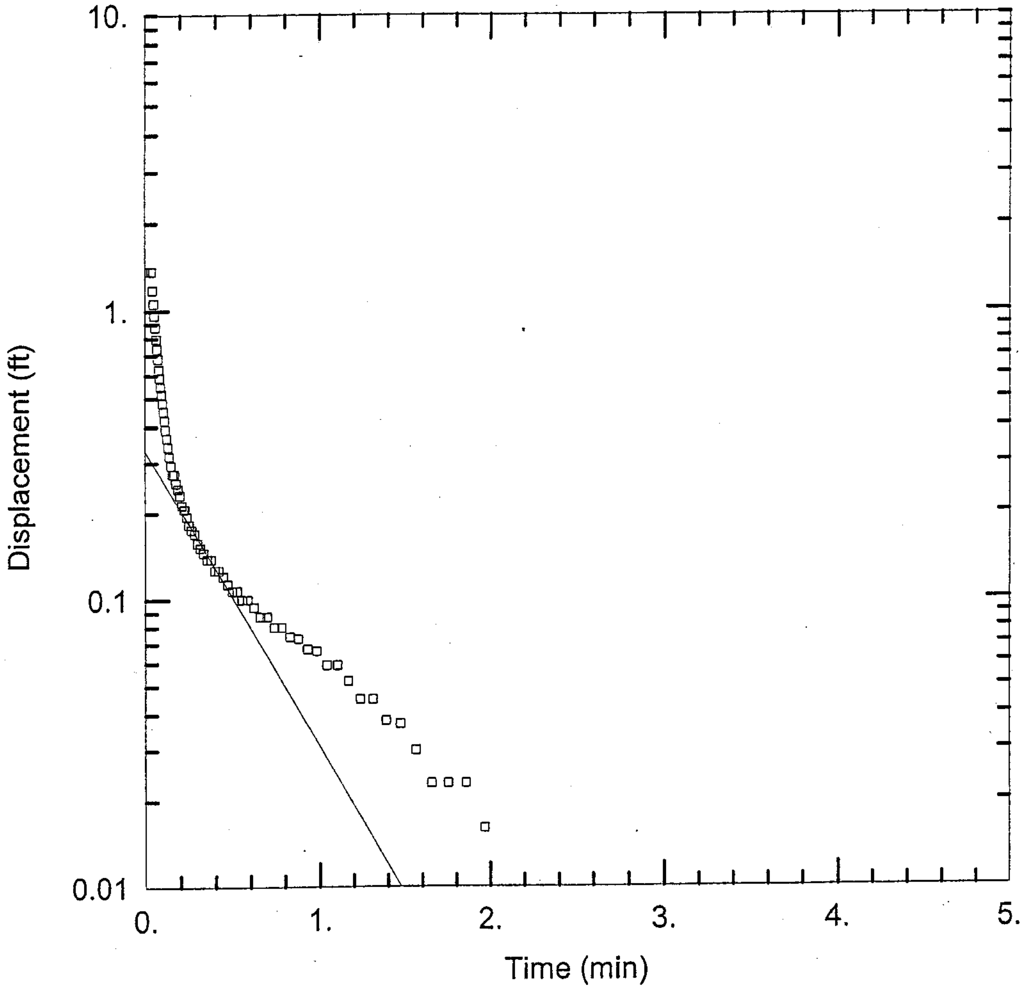
Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-15A)

Initial Displacement: 1.149 ft
Wellbore Radius: 0.344 ft
Screen Length: 10. ft
Gravel Pack Porosity: 0.35
Casing Radius: 0.083 ft
Well Skin Radius: 0.344 ft
Total Well Penetration Depth: 10.78 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.001089 cm/sec
y0 = 0.2763 ft



C&D BATTERY MW-15A TEST #2 (HVORSLEV)

Data Set: D:\...\MW-15A Test #2 Hv.aqt
Date: 09/18/03 Time: 11:00:17

PROJECT INFORMATION

Company: Alpha Geoscience
Client: Delaware Engineering
Project: 03124
Test Location: Huguenot, New York
Test Well: MW-15A
Test Date: 8/28/03

AQUIFER DATA

Saturated Thickness: 100. ft Anisotropy Ratio (Kz/Kr): 1.

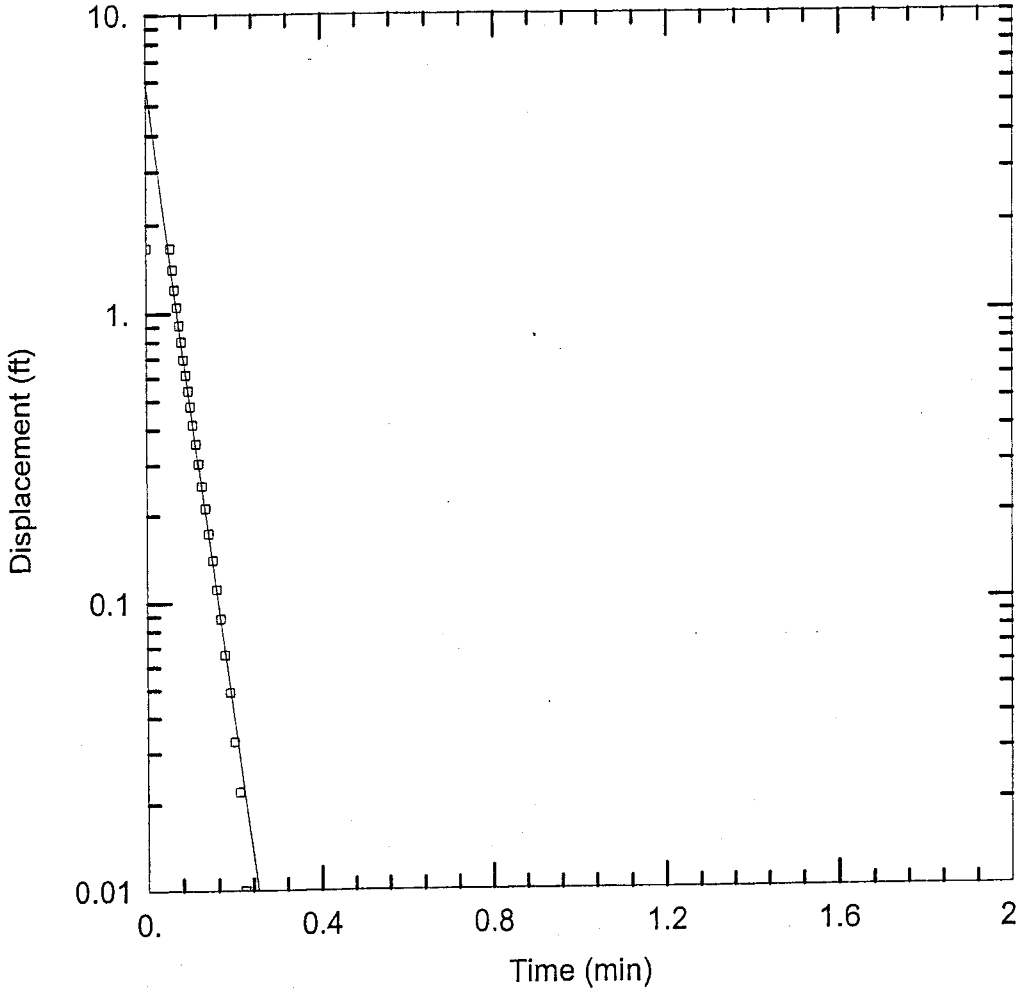
WELL DATA (MW-15A)

Initial Displacement: 1.365 ft
Wellbore Radius: 0.344 ft
Screen Length: 10. ft
Gravel Pack Porosity: 0.35
Casing Radius: 0.083 ft
Well Skin Radius: 0.344 ft
Total Well Penetration Depth: 10.78 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.001396 cm/sec y0 = 0.3307 ft



C&D BATTERY MW-16 TEST #1 (HVORSLEV)

Data Set: D:\...\MW-16 Test #1 Hv.aqt
Date: 09/18/03 Time: 11:01:03

PROJECT INFORMATION

Company: Alpha Geoscience
Client: Delaware Engineering
Project: 03124
Test Location: Huguenot, New York
Test Well: MW-16
Test Date: 8/27/03

AQUIFER DATA

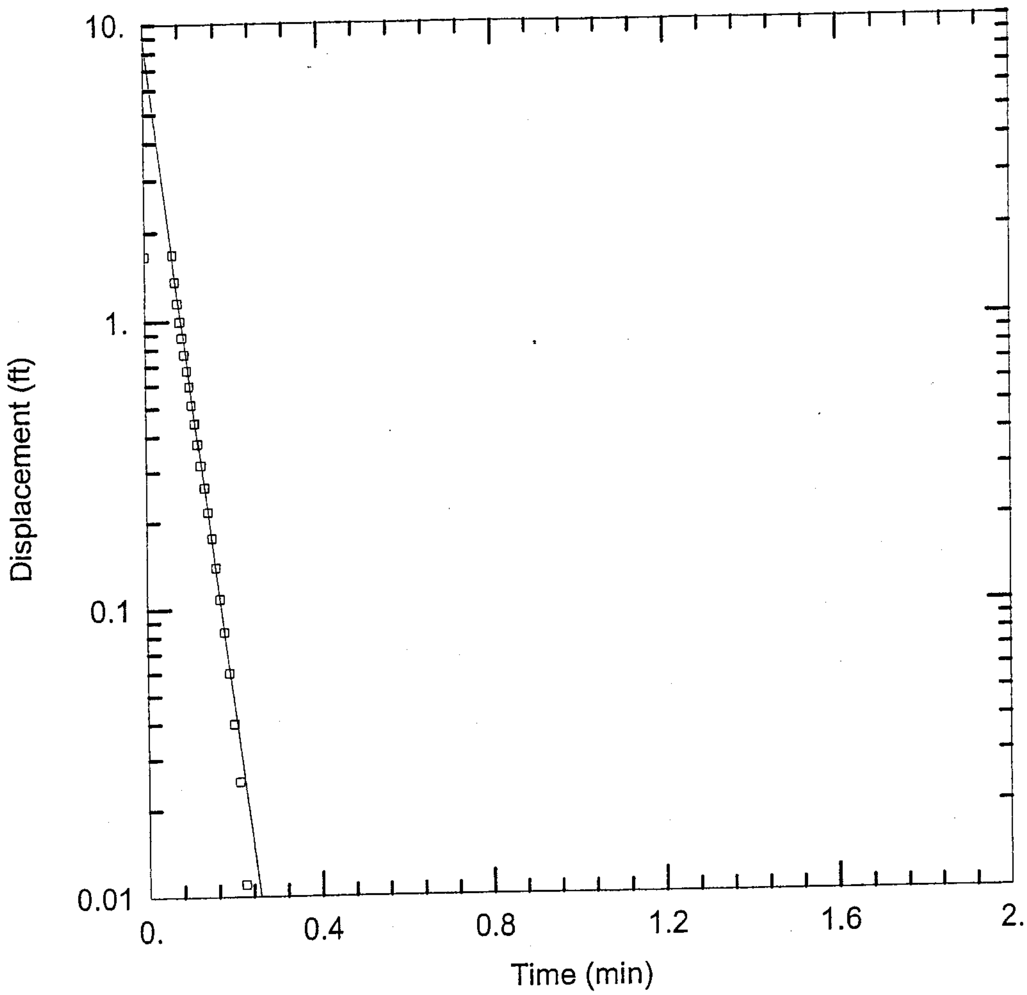
Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-16)

Initial Displacement: 1.656 ft
Wellbore Radius: 0.344 ft
Screen Length: 10. ft
Gravel Pack Porosity: 0.35
Casing Radius: 0.083 ft
Well Skin Radius: 0.344 ft
Total Well Penetration Depth: 13.37 ft

SOLUTION

Aquifer Model: Unconfined
K = 0.01493 cm/sec
Solution Method: Hvorslev
y0 = 5.935 ft



C&D BATTERY MW-16 TEST #2 (HVORSLEV)

Data Set: D:\...\MW-16 Test #2 Hv.aqt
Date: 09/18/03 Time: 11:01:27

PROJECT INFORMATION

Company: Alpha Geoscience
Client: Delaware Engineering
Project: 03124
Test Location: Huguenot, New York
Test Well: MW-16
Test Date: 8/27/03

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-16)

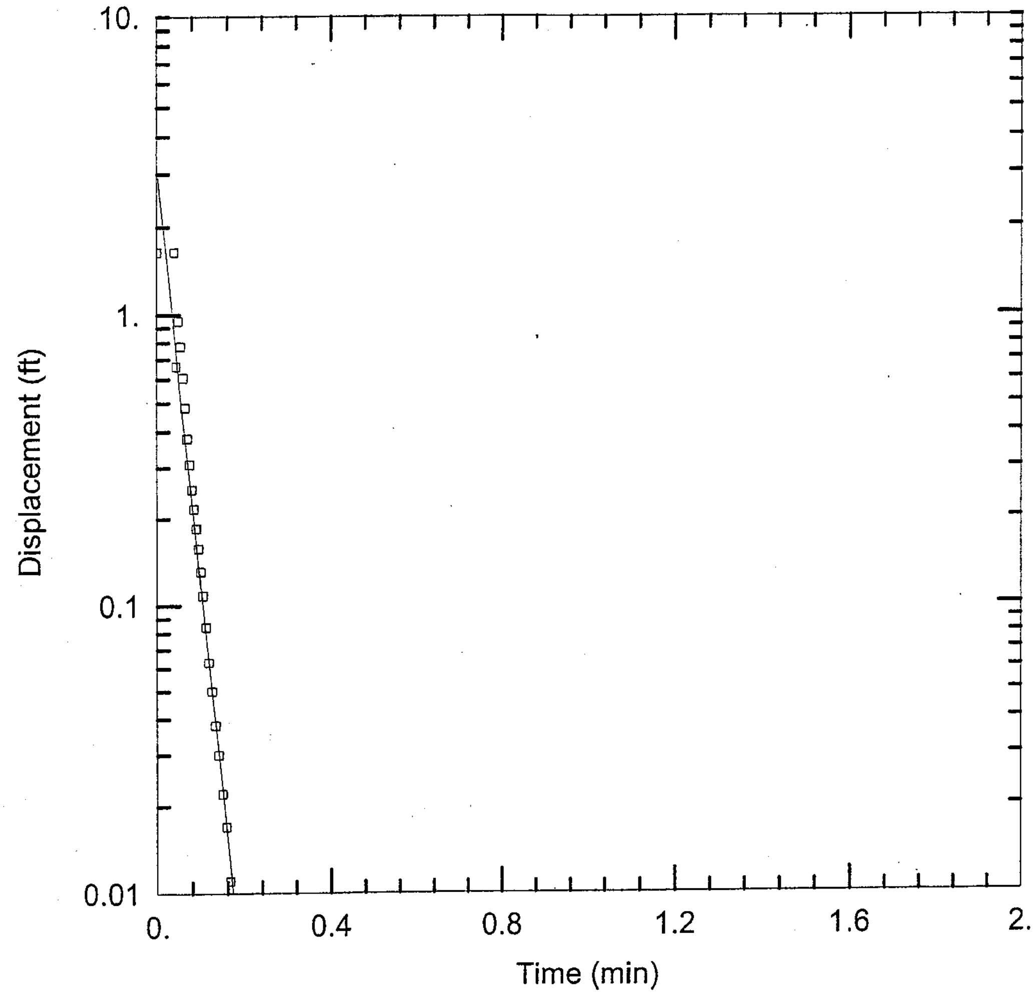
Initial Displacement: 1.656 ft
Wellbore Radius: 0.344 ft
Screen Length: 10. ft
Gravel Pack Porosity: 0.35

Casing Radius: 0.083 ft
Well Skin Radius: 0.344 ft
Total Well Penetration Depth: 13.37 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 0.01558 cm/sec
y0 = 8.871 ft



C&D BATTERY MW-17 TEST #1 (HVORSLEV)

Data Set: D:\...\MW-17 Test #1 Hv.aqt
Date: 09/18/03 Time: 11:01:52

PROJECT INFORMATION

Company: Alpha Geoscience
Client: Delaware Engineering
Project: 03124
Test Location: Huguenot, New York
Test Well: MW-17
Test Date: 8/28/03

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

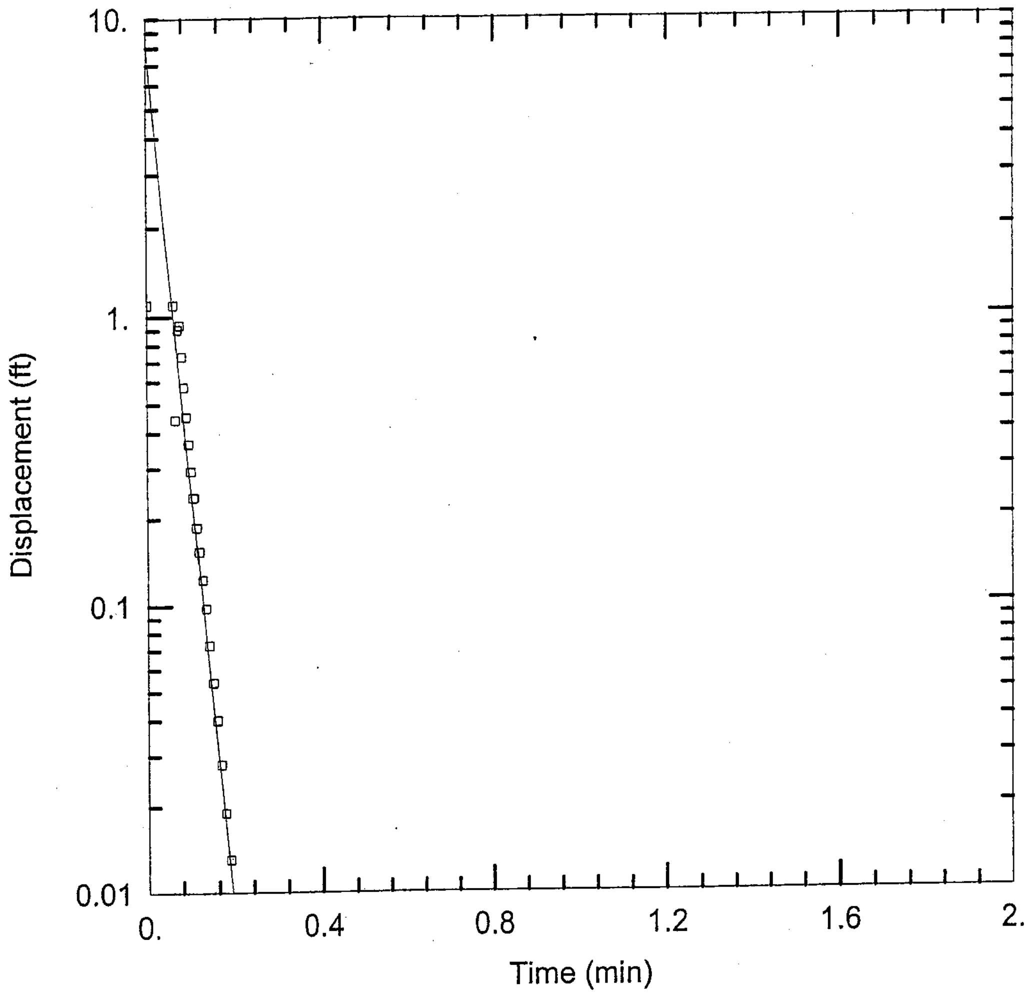
WELL DATA (MW-17)

Initial Displacement: 1.642 ft
Wellbore Radius: 0.344 ft
Screen Length: 10. ft
Gravel Pack Porosity: 0.35
Casing Radius: 0.083 ft
Well Skin Radius: 0.344 ft
Total Well Penetration Depth: 7.26 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 0.1308 cm/sec
y0 = 3.26 ft



C&D BATTERY MW-17 TEST #2 (HVORSLEV)

Data Set: D:\...\MW-17 Test #2 Hv.aqt
Date: 09/18/03 Time: 11:09:39

PROJECT INFORMATION

Company: Alpha Geoscience
Client: Delaware Engineering
Project: 03124
Test Location: Huguenot, New York
Test Well: MW-17
Test Date: 8/28/03

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-17)

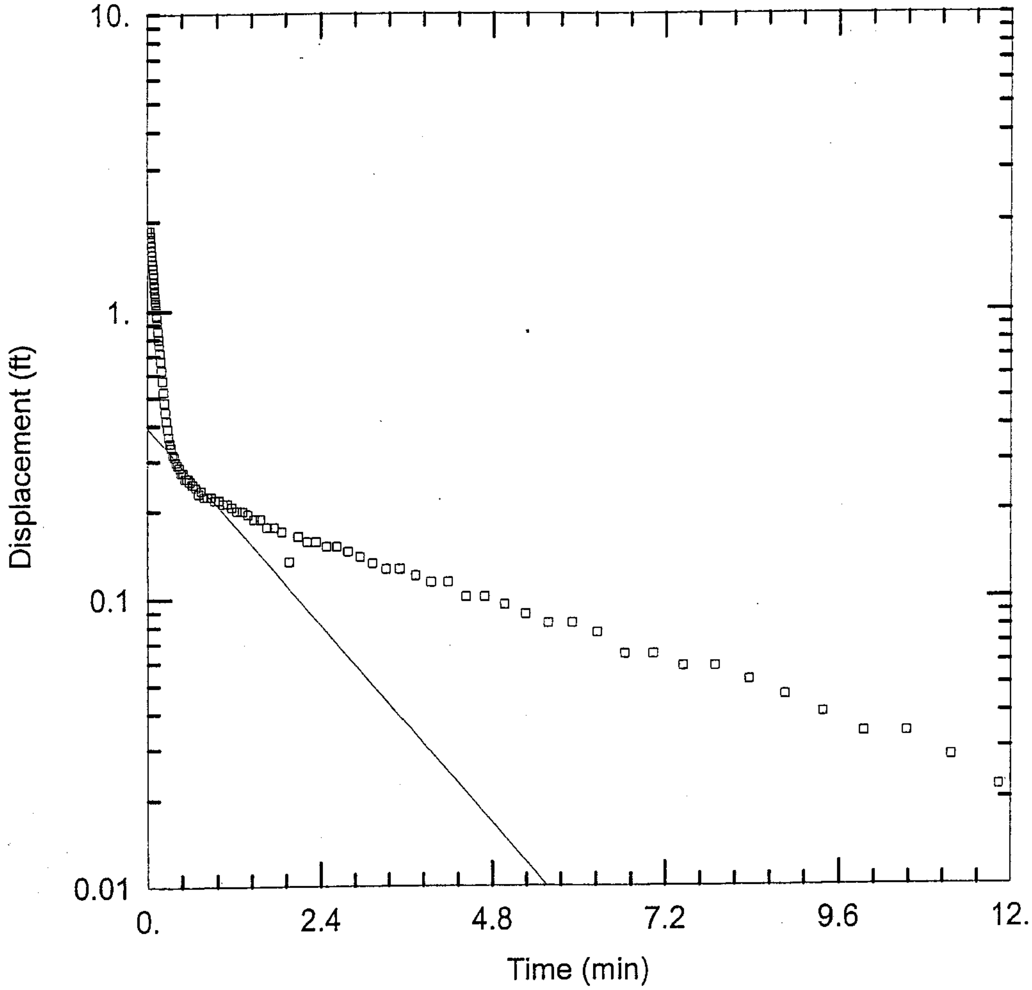
Initial Displacement: 1.096 ft
Wellbore Radius: 0.344 ft
Screen Length: 10. ft
Gravel Pack Porosity: 0.35

Casing Radius: 0.083 ft
Well Skin Radius: 0.344 ft
Total Well Penetration Depth: 7.26 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 0.1366 cm/sec
y0 = 8.084 ft



C&D BATTERY MW-17A TEST #1 (HVORSLEV)

Data Set: D:\...\MW-17A Test #1 Hv.aqt
Date: 09/18/03 Time: 11:02:26

PROJECT INFORMATION

Company: Alpha Geoscience
Client: Delaware Engineering
Project: 03124
Test Location: Huguenot, New York
Test Well: MW-17A
Test Date: 8/28/03

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

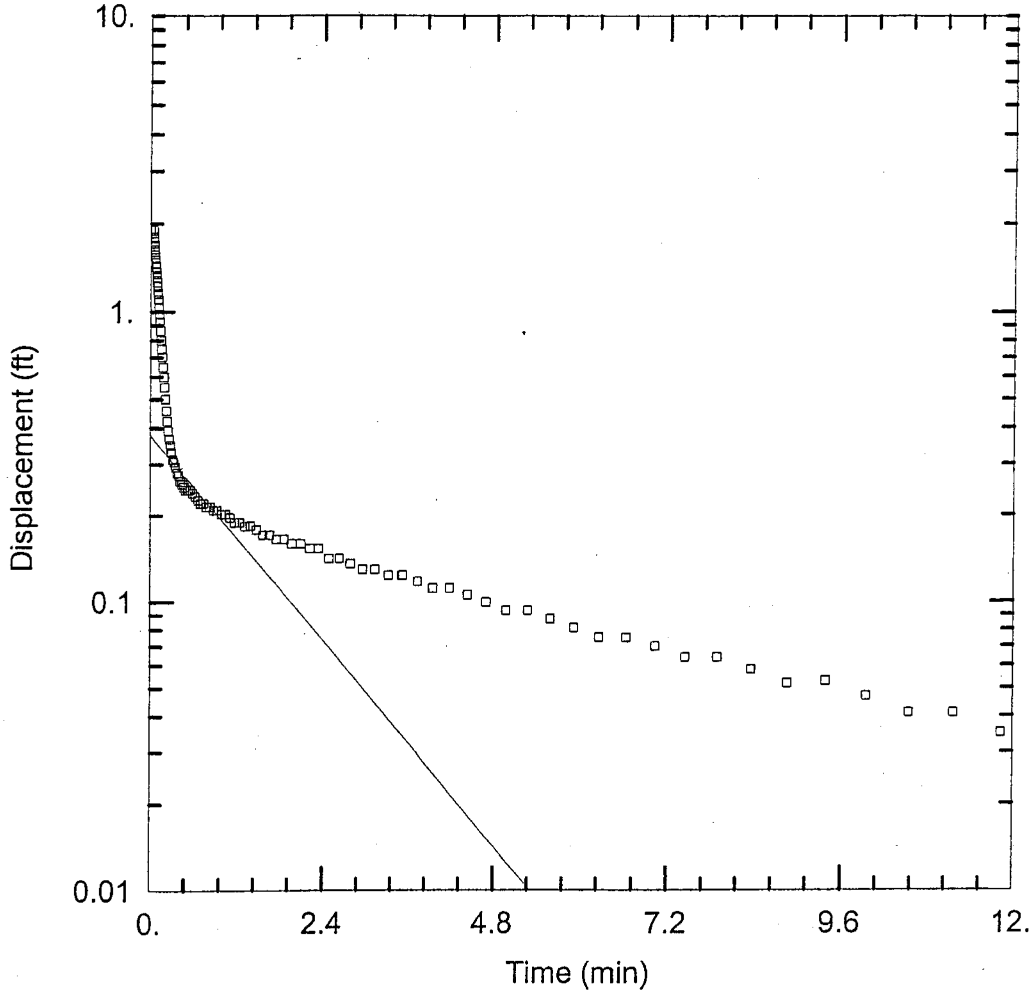
WELL DATA (MW-17A)

Initial Displacement: 1.861 ft
Wellbore Radius: 0.344 ft
Screen Length: 10. ft
Gravel Pack Porosity: 0.35
Casing Radius: 0.083 ft
Well Skin Radius: 0.344 ft
Total Well Penetration Depth: 9.82 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 0.00259 cm/sec
y0 = 0.3936 ft



C&D BATTERY MW-17A TEST #1 (HVORSLEV)

Data Set: D:\...\MW-17A Test #2 Hv.aqt
Date: 09/18/03 Time: 11:02:46

PROJECT INFORMATION

Company: Alpha Geoscience
Client: Delaware Engineering
Project: 03124
Test Location: Huguenot, New York
Test Well: MW-17A
Test Date: 8/28/03

AQUIFER DATA

Saturated Thickness: 100. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-17A)

Initial Displacement: 1.893 ft
Wellbore Radius: 0.344 ft
Screen Length: 10. ft
Gravel Pack Porosity: 0.35
Casing Radius: 0.083 ft
Well Skin Radius: 0.344 ft
Total Well Penetration Depth: 9.82 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.002685 cm/sec y0 = 0.3783 ft

APPENDIX D

LABORATORY REPORTING SHEET

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-6

ab Name: AES,INC.   Contract:

a Code: AES   Case No.: DE0105   SAS No.:   SDG No.: MW-6

atrix: (soil/water) WATER   Lab Sample ID: MW-6

ample wt/vol: 1000.0 (g/mL) ML   Lab File ID: 010801 B04

e el: (low/med) LOW   Date Received: 8/01/01

Moisture: not dec. 100. dec.______   Date Extracted: 8/02/01

:traction: (SepF/Cont/Sonc) SEPF   Date Analyzed: 8/02/01

PC Cleanup: (Y/N) N   pH: 6.0   Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.065	U
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.23	
11096-82-5	-----Arochlor-1260	.065	U

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-6 MP

ab Name: AES,INC. Contract:

ab Code: AES Case No.: DE0105 SAS No.: SDG No.: MW-6

latrix: (soil/water) WATER Lab Sample ID: MW-6 MP

ample wt/vol: 1000.0 (g/mL) ML Lab File ID: 010801 B03

evel: (low/med) LOW Date Received: 8/01/01

Moisture: not dec. 100. dec.______ Date Extracted: 8/02/01

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 8/02/01

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.065	U
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.051	J
11096-82-5	-----Arochlor-1260	.065	U

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-7

ab Name: AES,INC. Contract:

a Code: AES Case No.: DE0105 SAS No.: SDG No.: MW-6

atrix: (soil/water) WATER Lab Sample ID: MW-7

ample wt/vol: 1000.0 (g/mL) ML Lab File ID: 010801 B02

evel: (low/med) LOW Date Received: 8/01/01

Moisture: not dec. 100. dec.______ Date Extracted: 8/02/01

raction: (SepF/Cont/Sonc) SEPF Date Analyzed: 8/02/01

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.065	U
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.31	
11096-82-5	-----Arochlor-1260	.065	U

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-7 MP

ab Name: AES,INC. Contract:

ab Code: AES Case No.: DE0105 SAS No.: SDG No.: MW-6

atrix: (soil/water) WATER Lab Sample ID: MW-7 MP

ample wt/vol: 1000.0 (g/mL) ML Lab File ID: 010801 B01

evel: (low/med) LOW Date Received: 8/01/01

Moisture: not dec. 100. dec.______ Date Extracted: 8/02/01

xtraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 8/02/01

PC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.065	U
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.14	
11096-82-5	-----Arochlor-1260	.065	U

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE0105 SAS No.: SDG No.: MW-6

Matrix: (soil/water) WATER Lab Sample ID: MW-8

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 010801 B11

Level: (low/med) LOW Date Received: 8/01/01

% Moisture: not dec. 100. dec.______ Date Extracted: 8/02/01

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 8/03/01

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.065	U
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.065	U
11096-82-5	-----Arochlor-1260	.065	U

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-9

ab Name: AES,INC. Contract:

ab Code: AES Case No.: DE0105 SAS No.: SDG No.: MW-6

latrix: (soil/water) WATER Lab Sample ID: MW-9

ample wt/vol: 1000.0 (g/mL) ML Lab File ID: 010801 B12

evel: (low/med) LOW Date Received: 8/01/01

Moisture: not dec. 100. dec.______ Date Extracted: 8/02/01

xtraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 8/03/01

PC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.065	U
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.065	U
11096-82-5	-----Arochlor-1260	.065	U

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-10

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE0105 SAS No.: SDG No.: MW-6

Matrix: (soil/water) WATER Lab Sample ID: MW-10

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 010801 B13

Level: (low/med) LOW Date Received: 8/01/01

% Moisture: not dec. 100. dec.______ Date Extracted: 8/02/01

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 8/03/01

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.065	U
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.065	U
11096-82-5	-----Arochlor-1260	.065	U

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EPA SAMPLE NO.

MW-12

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE0105 SAS No.: SDG No.: MW-6

Matrix: (soil/water) WATER Lab Sample ID: MW-12

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 010801 B07

Level: (low/med) LOW Date Received: 8/01/01

% Moisture: not dec. 100. dec.______ Date Extracted: 8/02/01

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 8/02/01

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.065	U
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.041	J
11096-82-5	-----Arochlor-1260	.065	U

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EPA SAMPLE NO.

MW-13

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE0105 SAS No.: SDG No.: MW-6

Matrix: (soil/water) WATER Lab Sample ID: MW-13

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 010801 B09

Level: (low/med) LOW Date Received: 8/01/01

% Moisture: not dec. 100. dec._____ Date Extracted: 8/02/01

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 8/02/01

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.065	U
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.065	U
11096-82-5	-----Arochlor-1260	.065	U

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EPA SAMPLE NO.

MW-14

ab Name: AES,INC.   Contract:

ab Code: AES   Case No.: DE0105   SAS No.:   SDG No.: MW-6

latrix: (soil/water) WATER   Lab Sample ID: MW-14

ample wt/vol: 1000.0 (g/mL) ML   Lab File ID: 010801 B06

evel: (low/med) LOW   Date Received: 8/01/01

Moisture: not dec. 100. dec.______   Date Extracted: 8/02/01

xtraction: (SepF/Cont/Sonc) SEPF   Date Analyzed: 8/02/01

GPC Cleanup: (Y/N) N   pH: 6.0   Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.065	U
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.25	
11096-82-5	-----Arochlor-1260	.065	U

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EPA SAMPLE NO.

MW-14 MP

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE0105 SAS No.: SDG No.: MW-6

Matrix: (soil/water) WATER Lab Sample ID: MW-14 MP

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 010801 B05

Level: (low/med) LOW Date Received: 8/01/01

% Moisture: not dec. 100. dec._____ Date Extracted: 8/02/01

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 8/02/01

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.065	U
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.15	
11096-82-5	-----Arochlor-1260	.065	U

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X-1

ab Name: AES,INC. Contract:

ab Code: AES Case No.: DE0105 SAS No.: SDG No.: MW-6

latrix: (soil/water) WATER Lab Sample ID: X-1

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 010801 B08

Level: (low/med) LOW Date Received: 8/01/01

% Moisture: not dec. 100. dec._____ Date Extracted: 8/02/01

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 8/02/01

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.065	U
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.065	U
11096-82-5	-----Arochlor-1260	.065	U

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-6

Lab Name: ADIRONDACK_ENVIRONMENTAL   Contract: ________

Lab Code: AES__   Case No.: DE_0105   SAS No.: _____   SDG No.: MW-6_

Matrix (soil/water): WATER_   Lab Sample ID: MW-6______

Level (low/med): LOW___   Date Received: 08/01/01

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	39.1	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.40	B		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	3.0	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: ________   Clarity Before: ______   Texture: ______

Color After: ________   Clarity After: ______   Artifacts: ______

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-6MP

Lab Name: ADIRONDACK_ENVIRONMENTAL   Contract: ________

Lab Code: AES__   Case No.: DE_0105   SAS No.: _____   SDG No.: MW-6_

Matrix (soil/water): WATER_   Lab Sample ID: MW-6MP_____

Level (low/med): LOW___   Date Received: 08/01/01

% Solids: _______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	22.8	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.8	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: ________   Clarity Before: ______   Texture: ______

Color After: ________   Clarity After: ______   Artifacts: ______

Comments:

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EPA SAMPLE NO.

MW-7

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0105 SAS No.: _____ SDG No.: MW-6_

Matrix (soil/water): WATER_ Lab Sample ID: MW-7______

Level (low/med): LOW___ Date Received: 08/01/01

Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	855			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	5.6			P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.8	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: ________ Clarity Before: ______ Texture: ______

Color After: ________ Clarity After: ______ Artifacts: ______

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-7MP

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0105 SAS No.: _____ SDG No.: MW-6_

Matrix (soil/water): WATER_ Lab Sample ID: MW-7MP_____

Level (low/med): LOW___ Date Received: 08/01/01

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	25.4	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.47	B		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.8	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: ________ Clarity Before: ______ Texture: ______

Color After: ________ Clarity After: ______ Artifacts: ______

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0105 SAS No.: _____ SDG No.: MW-6_

Matrix (soil/water): WATER_ Lab Sample ID: MW-8______

Level (low/med): LOW___ Date Received: 08/01/01

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	21.6	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.8	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: ________ Clarity Before: ______ Texture: ______

Color After: ________ Clarity After: ______ Artifacts: ______

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8F

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0105 SAS No.: _____ SDG No.: MW-6_

Matrix (soil/water): WATER_ Lab Sample ID: MW-8F_____

Level (low/med): LOW___ Date Received: 08/01/01

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	14.2	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.8	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: ________ Clarity Before: ______ Texture: ______

Color After: ________ Clarity After: ______ Artifacts: ______

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-9

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES___ Case No.: DE_0105 SAS No.: _____ SDG No.: MW-6_

Matrix (soil/water): WATER_ Lab Sample ID: MW-9_______

Level (low/med): LOW___ Date Received: 08/01/01

% Solids: _______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	34.1	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	4.7			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: ________ Clarity Before: ______ Texture: ______

Color After: ________ Clarity After: ______ Artifacts: ______

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-9F

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0105 SAS No.: _____ SDG No.: MW-6_

Matrix (soil/water): WATER_ Lab Sample ID: MW-9F_____

Level (low/med): LOW___ Date Received: 08/01/01

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	16.6	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.8	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: ________ Clarity Before: ______ Texture: _____

Color After: ________ Clarity After: ______ Artifacts: _____

Comments:

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EPA SAMPLE NO.

MW-10

Lab Name: ADIRONDACK_ENVIRONMENTAL   Contract: ________

Lab Code: AES__   Case No.: DE_0105   SAS No.: _____   SDG No.: MW-6_

Matrix (soil/water): WATER_   Lab Sample ID: MW-10______

Level (low/med): LOW___   Date Received: 08/01/01

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	115	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.75	B		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.8	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: ________   Clarity Before: ______   Texture: ______

Color After: ________   Clarity After: ______   Artifacts: ______

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-10F

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0105 SAS No.: _____ SDG No.: MW-6_

Matrix (soil/water): WATER_ Lab Sample ID: MW-10F____

Level (low/med): LOW___ Date Received: 08/01/01

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	60.7	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.8	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: ________ Clarity Before: _______ Texture: ______

Color After: ________ Clarity After: _______ Artifacts: ______

Comments:

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EPA SAMPLE NO.

MW-12

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0105 SAS No.: _____ SDG No.: MW-6_

Matrix (soil/water): WATER_ Lab Sample ID: MW-12_____

Level (low/med): LOW___ Date Received: 08/01/01

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	9.5	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.8	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: ________ Clarity Before: ______ Texture: ______

Color After: ________ Clarity After: ______ Artifacts: ______

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-13

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0105 SAS No.: _____ SDG No.: MW-6_

Matrix (soil/water): WATER_ Lab Sample ID: MW-13______

Level (low/med): LOW___ Date Received: 08/01/01

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	13.7	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.8	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: ________ Clarity Before: ______ Texture: ______

Color After: ________ Clarity After: ______ Artifacts: ______

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-14

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0105 SAS No.: _____ SDG No.: MW-6_

Matrix (soil/water): WATER_ Lab Sample ID: MW-14_____

Level (low/med): LOW___ Date Received: 08/01/01

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	117	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.99	B		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	18.5			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: ________ Clarity Before: ______ Texture: ______

Color After: ________ Clarity After: ______ Artifacts: ______

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-14MP

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0105 SAS No.: _____ SDG No.: MW-6_

Matrix (soil/water): WATER_ Lab Sample ID: MW-14MP___

Level (low/med): LOW___ Date Received: 08/01/01

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	13.7	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.8	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: ________ Clarity Before: ______ Texture: ______

Color After: ________ Clarity After: ______ Artifacts: ______

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X-1

Lab Name: ADIRONDACK_ENVIRONMENTAL   Contract: ________

Lab Code: AES__   Case No.: DE_0105   SAS No.: _____   SDG No.: MW-6_

Matrix (soil/water): WATER_   Lab Sample ID: X-1________

Level (low/med): LOW___   Date Received: 08/01/01

% Solids: _______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	13.4	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.8	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: ________   Clarity Before: ______   Texture: ______

Color After: ________   Clarity After: ______   Artifacts: ______

Comments:

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CONVENTIONALS ANALYSIS DATA SHEET

MW-6

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0105 SAS No.: SDG No.: MW-6

Matrix (soil/water): Water Lab Sample ID: 010801B-04

Level (Low/Med): Low Date Received: 8/1/01

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	1100			EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

MW-6MP

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0105 SAS No.: SDG No.: MW-6

Matrix (soil/water): Water Lab Sample ID: 010801B-03

Level (Low/Med): Low Date Received: 8/1/01

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	580			EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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MW-7

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0105 SAS No.: SDG No.: MW-6

Matrix (soil/water): Water Lab Sample ID: 010801B-02

Level (Low/Med): Low Date Received: 8/1/01

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	8700			EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

MW-7MP

LAB NAME: Adirondack Environmental   CONTRACT:

LAB CODE: AES   Case No.: DE 0105   SAS No.:   SDG No.: MW-6

Matrix (soil/water): Water   Lab Sample ID: 010801B-01

Level (Low/Med): Low   Date Received: 8/1/01

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	8600			EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

MW-8

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0105 SAS No.: SDG No.: MW-6

Matrix (soil/water): Water Lab Sample ID: 010801B-11

Level (Low/Med): Low Date Received: 8/1/01

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 353.1
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	6300			EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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MW-9

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0105 SAS No.: SDG No.: MW-6

Matrix (soil/water): Water Lab Sample ID: 010801B-12

Level (Low/Med): Low Date Received: 8/1/01

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 353.1
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	6200			EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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MW-10

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0105 SAS No.: SDG No.: MW-6

Matrix (soil/water): Water Lab Sample ID: 010801B-13

Level (Low/Med): Low Date Received: 8/1/01

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 353.1
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	3160			EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

MW-12

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0105 SAS No.: SDG No.: MW-6

Matrix (soil/water): Water Lab Sample ID: 010801B-07

Level (Low/Med): Low Date Received: 8/1/01

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	310			EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

MW-13

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0105 SAS No.: SDG No.: MW-6

Matrix (soil/water): Water Lab Sample ID: 010801B-09

Level (Low/Med): Low Date Received: 8/1/01

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	220			EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

MW-14

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0105 SAS No.: SDG No.: MW-6

Matrix (soil/water): Water Lab Sample ID: 010801B-06

Level (Low/Med): Low Date Received: 8/1/01

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	4100			EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

MW-14MP

LAB NAME: Adirondack Environmental   CONTRACT:

LAB CODE: AES   Case No.: DE 0105   SAS No.:   SDG No.: MW-6

Matrix (soil/water): Water   Lab Sample ID: 010801B-05

Level (Low/Med): Low   Date Received: 8/1/01

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	4300			EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

Swartwout

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0105 SAS No.: SDG No.: MW-6

Matrix (soil/water): Water Lab Sample ID: 010801B-10

Level (Low/Med): Low Date Received: 8/1/01

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 353.1
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	450			EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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EPA SAMPLE NO.

SED-5

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE0104 SAS No.: SDG No.: SED-5

Matrix: (soil/water) SOIL Lab Sample ID: SED-5

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 010724 B06

Level: (low/med) LOW Date Received: 7/24/01

% Moisture: not dec. 47. dec.______ Date Extracted: 7/25/01

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/26/01

GPC Cleanup: (Y/N) N pH: 6.7 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	-----Arochlor-1016	63.	U
11104-28-2	-----Arochlor-1221	63.	U
11141-16-5	-----Arochlor-1232	63.	U
53469-21-9	-----Arochlor-1242	63.	U
12672-29-6	-----Arochlor-1248	63.	U
11097-69-1	-----Arochlor-1254	63.	U
11096-82-5	-----Arochlor-1260	31.	J

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SED-6

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE0104 SAS No.: SDG No.: SED-5

Matrix: (soil/water) SOIL Lab Sample ID: SED-6

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 010725 B05

Level: (low/med) LOW Date Received: 7/24/01

% Moisture: not dec. 64. dec._____ Date Extracted: 7/25/01

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/26/01

GPC Cleanup: (Y/N) N pH: 6.2 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	-----Arochlor-1016	93.	U
11104-28-2	-----Arochlor-1221	93.	U
11141-16-5	-----Arochlor-1232	93.	U
53469-21-9	-----Arochlor-1242	93.	U
12672-29-6	-----Arochlor-1248	93.	U
11097-69-1	-----Arochlor-1254	15.	J
11096-82-5	-----Arochlor-1260	37.	J

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SED-7

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE0104 SAS No.: SDG No.: SED-5

Matrix: (soil/water) SOIL Lab Sample ID: SED-7

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 010724 B04

Level: (low/med) LOW Date Received: 7/24/01

% Moisture: not dec. 63. dec.______ Date Extracted: 7/25/01

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/26/01

GPC Cleanup: (Y/N) N pH: 6.4 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	-----Arochlor-1016	90.	U
11104-28-2	-----Arochlor-1221	90.	U
11141-16-5	-----Arochlor-1232	90.	U
53469-21-9	-----Arochlor-1242	90.	U
12672-29-6	-----Arochlor-1248	90.	U
11097-69-1	-----Arochlor-1254	170.	
11096-82-5	-----Arochlor-1260	150.	

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EPA SAMPLE NO.

SED-8

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE0104 SAS No.: SDG No.: SED-5

Matrix: (soil/water) SOIL Lab Sample ID: SED-8

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 010724 B03

Level: (low/med) LOW Date Received: 7/24/01

% Moisture: not dec. 69. dec.______ Date Extracted: 7/25/01

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/26/01

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	-----Arochlor-1016	110.	U
11104-28-2	-----Arochlor-1221	110.	U
11141-16-5	-----Arochlor-1232	110.	U
53469-21-9	-----Arochlor-1242	110.	U
12672-29-6	-----Arochlor-1248	110.	U
11097-69-1	-----Arochlor-1254	210.	
11096-82-5	-----Arochlor-1260	140.	

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EPA SAMPLE NO.

SED-9

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE0104 SAS No.: SDG No.: SED-5

Matrix: (soil/water) SOIL Lab Sample ID: SED-9

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 010724 B02

Level: (low/med) LOW Date Received: 7/24/01

% Moisture: not dec. 47. dec.______ Date Extracted: 7/25/01

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/26/01

GPC Cleanup: (Y/N) N pH: 6.4 Dilution Factor: 2.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	-----Arochlor-1016	130.	U
11104-28-2	-----Arochlor-1221	130.	U
11141-16-5	-----Arochlor-1232	130.	U
53469-21-9	-----Arochlor-1242	130.	U
12672-29-6	-----Arochlor-1248	130.	U
11097-69-1	-----Arochlor-1254	350.	
11096-82-5	-----Arochlor-1260	720.	

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EPA SAMPLE NO.

SED-10

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE0104 SAS No.: SDG No.: SED-5

Matrix: (soil/water) SOIL Lab Sample ID: SED-10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 010724 B01

Level: (low/med) LOW Date Received: 7/24/01

% Moisture: not dec. 60. dec._____ Date Extracted: 7/25/01

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/26/01

GPC Cleanup: (Y/N) N pH: 6.5 Dilution Factor: 2.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	-----Arochlor-1016	170.	U
11104-28-2	-----Arochlor-1221	170.	U
11141-16-5	-----Arochlor-1232	170.	U
53469-21-9	-----Arochlor-1242	170.	U
12672-29-6	-----Arochlor-1248	170.	U
11097-69-1	-----Arochlor-1254	1100.	
11096-82-5	-----Arochlor-1260	370.	

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EPA SAMPLE NO.

SOIL CMP

Lab Name: AES,INC.   Contract:

Lab Code: AES   Case No.: DE0104   SAS No.:   SDG No.: SED-5

Matrix: (soil/water) SOIL   Lab Sample ID: SOIL CMP

Sample wt/vol: 30.0 (g/mL) G   Lab File ID: 010724 B13

Level: (low/med) LOW   Date Received: 7/24/01

% Moisture: not dec. 4. dec.______   Date Extracted: 7/25/01

Extraction: (SepF/Cont/Sonc) SONC   Date Analyzed: 7/26/01

GPC Cleanup: (Y/N) N   pH: 4.5   Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	-----Arochlor-1016	35.	U
11104-28-2	-----Arochlor-1221	35.	U
11141-16-5	-----Arochlor-1232	35.	U
53469-21-9	-----Arochlor-1242	35.	U
12672-29-6	-----Arochlor-1248	35.	U
11097-69-1	-----Arochlor-1254	35.	U
11096-82-5	-----Arochlor-1260	130.	

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EPA SAMPLE NO.

SW-1

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE0104 SAS No.: SDG No.: SED-5

Matrix: (soil/water) WATER Lab Sample ID: SW-1

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 010724 B07

Level: (low/med) LOW Date Received: 7/24/01

% Moisture: not dec. 100. dec._____ Date Extracted: 7/25/01

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 7/26/01

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: .20

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.065	U
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.065	U
11096-82-5	-----Arochlor-1260	.065	U

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EPA SAMPLE NO.

SW-2

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE0104 SAS No.: SDG No.: SED-5

Matrix: (soil/water) WATER Lab Sample ID: SW-2

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 010724 B08

Level: (low/med) LOW Date Received: 7/24/01

% Moisture: not dec. 100. dec.______ Date Extracted: 7/25/01

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 7/26/01

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: .20

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.065	U
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.065	U
11096-82-5	-----Arochlor-1260	.065	U

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EPA SAMPLE NO.

SW-3

Lab Name: AES,INC.   Contract:

Lab Code: AES   Case No.: DE0104   SAS No.:   SDG No.: SED-5

Matrix: (soil/water) WATER   Lab Sample ID: SW-3

Sample wt/vol: 1000.0 (g/mL) ML   Lab File ID: 010724 B09

Level: (low/med) LOW   Date Received: 7/24/01

% Moisture: not dec. 100. dec.______   Date Extracted: 7/25/01

Extraction: (SepF/Cont/Sonc) SEPF   Date Analyzed: 7/26/01

GPC Cleanup: (Y/N) N   pH: 6.0   Dilution Factor: .20

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.065	U
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.065	U
11096-82-5	-----Arochlor-1260	.065	U

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EPA SAMPLE NO.

SW-4

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE0104 SAS No.: SDG No.: SED-5

Matrix: (soil/water) WATER Lab Sample ID: SW-4

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 010724 B10

Level: (low/med) LOW Date Received: 7/24/01

% Moisture: not dec. 100. dec.______ Date Extracted: 7/25/01

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 7/26/01

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: .20

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.065	U
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.065	U
11096-82-5	-----Arochlor-1260	.065	U

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EPA SAMPLE NO.

SW-5

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE0104 SAS No.: SDG No.: SED-5

Matrix: (soil/water) WATER Lab Sample ID: SW-5

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 010724 B11

Level: (low/med) LOW Date Received: 7/24/01

% Moisture: not dec. 100. dec.______ Date Extracted: 7/25/01

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 7/26/01

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: .20

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.065	U
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.065	U
11096-82-5	-----Arochlor-1260	.065	U

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EPA SAMPLE NO.

SW-6

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE0104 SAS No.: SDG No.: SED-5

Matrix: (soil/water) WATER Lab Sample ID: SW-6

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 010724 B12

Level: (low/med) LOW Date Received: 7/24/01

% Moisture: not dec. 100. dec.______ Date Extracted: 7/25/01

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 7/26/01

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: .20

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.065	U
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.065	U
11096-82-5	-----Arochlor-1260	.065	U

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EPA SAMPLE NO.

SED-5

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: SED-5 SAS No.: ____ SDG No.: SED-5_

Matrix (soil/water): SOIL__ Lab Sample ID: SED-5_

Level (low/med): LOW___ Date Received: 07/24/01

% Solids: 52.9__

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	97.5			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.076	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	24.6		N	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: ________ Clarity Before: ________ Texture: ________

Color After: ________ Clarity After: ________ Artifacts: ________

Comments:

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EPA SAMPLE NO.

SED-6

Lab Name: ADIRONDACK_ENVIRONMENTAL   Contract: ________

Lab Code: AES__   Case No.: SED-5   SAS No.: ____   SDG No.: SED-5_

Matrix (soil/water): SOIL__   Lab Sample ID: SED-6_

Level (low/med): LOW___   Date Received: 07/24/01

% Solids: 35.8__

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	84.6	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.47	B		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	27.9		N	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: ________   Clarity Before: ________   Texture: ________

Color After: ________   Clarity After: ________   Artifacts: ________

Comments:

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EPA SAMPLE NO.

SED-7

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: SED-5 SAS No.: ____ SDG No.: SED-5_

Matrix (soil/water): SOIL__ Lab Sample ID: SED-7_

Level (low/med): LOW___ Date Received: 07/24/01

% Solids: 37.2__

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	97.4	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.58	B		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	38.3		N	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: ________ Clarity Before: ______ Texture: ______

Color After: ________ Clarity After: ______ Artifacts: ______

Comments:

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EPA SAMPLE NO.

SED-8

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: SED-5 SAS No.: ____ SDG No.: SED-5_

Matrix (soil/water): SOIL__ Lab Sample ID: SED-8_

Level (low/med): LOW___ Date Received: 07/24/01

% Solids: 30.8__

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5_	Aluminum__				NR
7440-36-0_	Antimony__				NR
7440-38-2_	Arsenic___				NR
7440-39-3_	Barium_____	206_			P_
7440-41-7_	Beryllium_				NR
7440-43-9_	Cadmium____	1.4_	B		P_
7440-70-2_	Calcium___				NR
7440-47-3_	Chromium__				NR
7440-48-4_	Cobalt_____				NR
7440-50-8_	Copper_____				NR
7439-89-6_	Iron_______				NR
7439-92-1_	Lead_______	71.9_		_N____	P_
7439-95-4_	Magnesium_				NR
7439-96-5_	Manganese_				NR
7439-97-6_	Mercury___				NR
7440-02-0_	Nickel_____				NR
7440-09-7_	Potassium_				NR
7782-49-2_	Selenium__				NR
7440-22-4_	Silver_____				NR
7440-23-5_	Sodium_____				NR
7440-28-0_	Thallium__				NR
7440-62-2_	Vanadium__				NR
7440-66-6_	Zinc_______				NR
	Cyanide___				NR

Color Before: ________ Clarity Before: ________ Texture: ________

Color After: ________ Clarity After: ________ Artifacts: ________

Comments:

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EPA SAMPLE NO.

SED-9

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ____

Lab Code: AES__ Case No.: SED-5 SAS No.: ____ SDG No.: SED-5_

Matrix (soil/water): SOIL__ Lab Sample ID: SED-9_

Level (low/med): LOW___ Date Received: 07/24/01

% Solids: 53.0__

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	29.1	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.3			P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	396		N	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: ____ Clarity Before: ____ Texture: ____

Color After: ____ Clarity After: ____ Artifacts: ____

Comments:

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EPA SAMPLE NO.

SED-10

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: SED-5 SAS No.: ____ SDG No.: SED-5_

Matrix (soil/water): SOIL__ Lab Sample ID: SED-10_

Level (low/med): LOW___ Date Received: 07/24/01

% Solids: 39.8__

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	137			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	3.7			P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	48.6		N	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: ________ Clarity Before: ________ Texture: ________

Color After: ________ Clarity After: ________ Artifacts: ________

Comments:

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EPA SAMPLE NO.

SOIL CMP

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: SED-5 SAS No.: ____ SDG No.: SED-5_

Matrix (soil/water): SOIL__ Lab Sample ID: SOIL_CMP_

Level (low/med): LOW___ Date Received: 07/24/01

% Solids: 95.9__

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	33.7	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.042	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	20.8		N	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: ________ Clarity Before: ________ Texture: ________

Color After: ________ Clarity After: ________ Artifacts: ________

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-1

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: SED-5 SAS No.: ____ SDG No.: SED-5_

Matrix (soil/water): WATER_ Lab Sample ID: SW-1_______

Level (low/med): LOW___ Date Received: 07/24/01

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	16.7	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.8	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: ________ Clarity Before: ________ Texture: ______

Color After: ________ Clarity After: ________ Artifacts: ______

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-2

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: SED-5 SAS No.: ____ SDG No.: SED-5_

Matrix (soil/water): WATER_ Lab Sample ID: SW-2_______

Level (low/med): LOW___ Date Received: 07/24/01

% Solids: _______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	8.2	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.8	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: ________ Clarity Before: _______ Texture: _______

Color After: ________ Clarity After: _______ Artifacts: _______

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-3

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: SED-5 SAS No.: ____ SDG No.: SED-5_

Matrix (soil/water): WATER_ Lab Sample ID: SW-3_______

Level (low/med): LOW___ Date Received: 07/24/01

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	10.5	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.8	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: ________ Clarity Before: ________ Texture: ________

Color After: ________ Clarity After: ________ Artifacts: ________

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-4

Lab Name: ADIRONDACK_ENVIRONMENTAL   Contract: ________

Lab Code: AES__   Case No.: SED-5   SAS No.: ____   SDG No.: SED-5_

Matrix (soil/water): WATER_   Lab Sample ID: SW-4_______

Level (low/med): LOW___   Date Received: 07/24/01

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5_	Aluminum__		_		NR
7440-36-0_	Antimony__		_		NR
7440-38-2_	Arsenic___		_		NR
7440-39-3_	Barium____	9.7_	B		P_
7440-41-7_	Beryllium_		_		NR
7440-43-9_	Cadmium___	0.20_	U		P_
7440-70-2_	Calcium___		_		NR
7440-47-3_	Chromium__		_		NR
7440-48-4_	Cobalt____		_		NR
7440-50-8_	Copper____		_		NR
7439-89-6_	Iron______		_		NR
7439-92-1_	Lead______	2.8_	U		P_
7439-95-4_	Magnesium_		_		NR
7439-96-5_	Manganese_		_		NR
7439-97-6_	Mercury___		_		NR
7440-02-0_	Nickel____		_		NR
7440-09-7_	Potassium_		_		NR
7782-49-2_	Selenium__		_		NR
7440-22-4_	Silver____		_		NR
7440-23-5_	Sodium____		_		NR
7440-28-0_	Thallium__		_		NR
7440-62-2_	Vanadium__		_		NR
7440-66-6_	Zinc______		_		NR
	Cyanide___		_		NR
			_		

Color Before: ________   Clarity Before: _______   Texture: ______

Color After: ________   Clarity After: _______   Artifacts: ______

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-5

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: SED-5 SAS No.: ____ SDG No.: SED-5_

Matrix (soil/water): WATER_ Lab Sample ID: SW-5_______

Level (low/med): LOW___ Date Received: 07/24/01

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	12.4	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	10.4			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: ________ Clarity Before: _______ Texture: _______

Color After: ________ Clarity After: _______ Artifacts: _______

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-6

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: SED-5 SAS No.: ____ SDG No.: SED-5_

Matrix (soil/water): WATER_ Lab Sample ID: SW-6_______

Level (low/med): LOW___ Date Received: 07/24/01

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	12.3	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.8	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: ________ Clarity Before: ________ Texture: ________

Color After: ________ Clarity After: ________ Artifacts: ________

Comments:

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CONVENTIONALS ANALYSIS DATA SHEET

SED-5

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0104 SAS No.: SDG No.: SED-5

Matrix (soil/water): Soil Lab Sample ID: 010724B-06

Level (Low/Med): Low Date Received: 7/24/01

% Solids: 53

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 9056
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 9056
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 9056
Fluoride	4.5			EPA 9056
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

SED-6

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0104 SAS No.: SDG No.: SED-5

Matrix (soil/water): Soil Lab Sample ID: 010724B-05

Level (Low/Med): Low Date Received: 7/24/01

% Solids: 36

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 9056
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 9056
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 9056
Fluoride	11			EPA 9056
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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SED-7

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0104 SAS No.: SDG No.: SED-5

Matrix (soil/water): Soil Lab Sample ID: 010724B-04

Level (Low/Med): Low Date Received: 7/24/01

% Solids: 37

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 9056
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 9056
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 9056
Fluoride	38			EPA 9056
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

SED-8

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0104 SAS No.: SDG No.: SED-5

Matrix (soil/water): Soil Lab Sample ID: 010724B-03

Level (Low/Med): Low Date Received: 7/24/01

% Solids: 31

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 9056
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 9056
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 9056
Fluoride	51			EPA 9056
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

SED-9

LAB NAME: Adirondack Environmental   CONTRACT:

LAB CODE: AES   Case No.: DE 0104   SAS No.:   SDG No.: SED-5

Matrix (soil/water): Soil   Lab Sample ID: 010724B-02

Level (Low/Med): Low   Date Received: 7/24/01

% Solids: 53

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 9056
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 9056
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 9056
Fluoride	5.3			EPA 9056
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

SED-10

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0104 SAS No.: SDG No.: SED-5

Matrix (soil/water): Soil Lab Sample ID: 010724B-01

Level (Low/Med): Low Date Received: 7/24/01

% Solids: 40

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 9056
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 9056
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 9056
Fluoride	17			EPA 9056
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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Soil CMP

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0104 SAS No.: SDG No.: SED-5

Matrix (soil/water): Soil Lab Sample ID: 010724B-13

Level (Low/Med): Low Date Received: 7/24/01

% Solids: 96

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 353.1
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 9056
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 9056
Fluoride	2.1	U		EPA 9056
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

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SW-1

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0104 SAS No.: SDG No.: SED-5

Matrix (soil/water): Water Lab Sample ID: 010724B-07

Level (Low/Med): Low Date Received: 7/24/01

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	100	U		EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

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SW-2

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0104 SAS No.: SDG No.: SED-5

Matrix (soil/water): Water Lab Sample ID: 010724B-08

Level (Low/Med): Low Date Received: 7/24/01

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	100	U		EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

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SW-3

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0104 SAS No.: SDG No.: SED-5

Matrix (soil/water): Water Lab Sample ID: 010724B-09

Level (Low/Med): Low Date Received: 7/24/01

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	170			EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

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SW-4

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0104 SAS No.: SDG No.: SED-5

Matrix (soil/water): Water Lab Sample ID: 010724B-10

Level (Low/Med): Low Date Received: 7/24/01

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 353.1
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	240			EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

SW-5

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0104 SAS No.: SDG No.: SED-5

Matrix (soil/water): Water Lab Sample ID: 010724B-11

Level (Low/Med): Low Date Received: 7/24/01

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 353.1
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	220			EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

SW-6

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0104 SAS No.: SDG No.: SED-5

Matrix (soil/water): Water Lab Sample ID: 010724B-12

Level (Low/Med): Low Date Received: 7/24/01

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 353.1
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	360			EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FP-1
0-6"

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE 0309 SAS No.: SDG No.: FP-1

Matrix: (soil/water) SOIL Lab Sample ID: FP-1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 030828010-008

Level: (low/med) LOW Date Received: 08/28/03

% Moisture: not dec. 42. dec.______ Date Extracted: 08/29/03

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/30/03

GPC Cleanup: (Y/N) N pH: 5.7 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	58.	U
11104-28-2	Arochlor-1221	58.	U
11141-16-5	Arochlor-1232	58.	U
53469-21-9	Arochlor-1242	58.	U
12672-29-6	Arochlor-1248	58.	U
11097-69-1	Arochlor-1254	58.	U
11096-82-5	Arochlor-1260	18.	J

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FP-2
0-6"

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE 0309 SAS No.: SDG No.: FP-1

Matrix: (soil/water) SOIL Lab Sample ID: FP-2

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 030828010-006

Level: (low/med) LOW Date Received: 08/28/03

% Moisture: not dec. 32. dec._____ Date Extracted: 08/29/03

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/30/03

GPC Cleanup: (Y/N) N pH: 5.6 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	-----Arochlor-1016	49.	U
11104-28-2	-----Arochlor-1221	49.	U
11141-16-5	-----Arochlor-1232	49.	U
53469-21-9	-----Arochlor-1242	49.	U
12672-29-6	-----Arochlor-1248	49.	U
11097-69-1	-----Arochlor-1254	49.	U
11096-82-5	-----Arochlor-1260	24.	J

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FP-3
0-6"

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE 0309 SAS No.: SDG No.: FP-1

Matrix: (soil/water) SOIL Lab Sample ID: FP-3

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 030828010-009

Level: (low/med) LOW Date Received: 08/28/03

% Moisture: not dec. 36 dec.______ Date Extracted: 08/29/03

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/30/03

GPC Cleanup: (Y/N) N pH: 4.9 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	-----Arochlor-1016	52.	U
11104-28-2	-----Arochlor-1221	52.	U
11141-16-5	-----Arochlor-1232	52.	U
53469-21-9	-----Arochlor-1242	52.	U
12672-29-6	-----Arochlor-1248	52.	U
11097-69-1	-----Arochlor-1254	52.	U
11096-82-5	-----Arochlor-1260	52.	U

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FP-4
0-6"

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE 0309 SAS No.: SDG No.: FP-1

Matrix: (soil/water) SOIL Lab Sample ID: FP-4

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 030828010-005

Level: (low/med) LOW Date Received: 08/28/03

% Moisture: not dec. 56. dec.______ Date Extracted: 08/29/03

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/30/03

GPC Cleanup: (Y/N) N pH: 5.6 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	-----Arochlor-1016	76.	U
11104-28-2	-----Arochlor-1221	76.	U
11141-16-5	-----Arochlor-1232	76.	U
53469-21-9	-----Arochlor-1242	76.	U
12672-29-6	-----Arochlor-1248	76.	U
11097-69-1	-----Arochlor-1254	90	
11096-82-5	-----Arochlor-1260	76.	U

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FS-1
0-6"

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE 0309 SAS No.: SDG No.: FP-1

Matrix: (soil/water) SOIL Lab Sample ID: FS-1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 030828010-007

Level: (low/med) LOW Date Received: 08/28/03

% Moisture: not dec. 35. dec._____ Date Extracted: 08/29/03

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/30/03

GPC Cleanup: (Y/N) N pH: 5.5 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	51.	U
11104-28-2	Arochlor-1221	51.	U
11141-16-5	Arochlor-1232	51.	U
53469-21-9	Arochlor-1242	51.	U
12672-29-6	Arochlor-1248	51.	U
11097-69-1	Arochlor-1254	51.	U
11096-82-5	Arochlor-1260	26.	J

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-6

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE 0309 SAS No.: SDG No.: FP-1

Matrix: (soil/water) WATER Lab Sample ID: MW-6

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 030828010-012

Level: (low/med) LOW Date Received: 08/28/03

% Moisture: not dec. dec.______ Date Extracted: 08/29/03

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 08/29/03

GPC Cleanup: (Y/N) N pH: 7 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.065	U
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.065	U
11096-82-5	-----Arochlor-1260	.065	U

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-7

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE 0309 SAS No.: SDG No.: FP-1

Matrix: (soil/water) WATER Lab Sample ID: MW-7

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 030828010-015

Level: (low/med) LOW Date Received: 08/28/03

% Moisture: not dec. dec.______ Date Extracted: 08/29/03

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 08/29/03

GPC Cleanup: (Y/N) N pH: 7 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.065	U
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.065	U
11096-82-5	-----Arochlor-1260	.065	U

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE 0309 SAS No.: SDG No.: FP-1

Matrix: (soil/water) WATER Lab Sample ID: MW-8

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 030828010-016

Level: (low/med) LOW Date Received: 08/28/03

% Moisture: not dec. dec.______ Date Extracted: 08/29/03

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 08/29/03

GPC Cleanup: (Y/N) N pH: 7 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.065	U
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.065	U
11096-82-5	-----Arochlor-1260	.065	U

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-9

Lab Name: AES,INC.   Contract:

Lab Code: AES   Case No.: DE 0309   SAS No.:   SDG No.: FP-1

Matrix: (soil/water) WATER   Lab Sample ID: MW-9

Sample wt/vol: 1000.0 (g/mL) ML   Lab File ID: 030828010-017

Level: (low/med) LOW   Date Received: 08/28/03

% Moisture: not dec.   dec.______   Date Extracted: 08/29/03

Extraction: (SepF/Cont/Sonc) SepF   Date Analyzed: 08/29/03

GPC Cleanup: (Y/N) N   pH: 7   Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.065	U
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.065	U
11096-82-5	-----Arochlor-1260	.065	U

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-10

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE 0309 SAS No.: SDG No.: FP-1

Matrix: (soil/water) WATER Lab Sample ID: MW-10

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 030828010-018

Level: (low/med) LOW Date Received: 08/28/03

% Moisture: not dec. dec.______ Date Extracted: 08/29/03

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 08/30/03

GPC Cleanup: (Y/N) N pH: 7 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Arochlor-1016	.065	U
11104-28-2	Arochlor-1221	.065	U
11141-16-5	Arochlor-1232	.065	U
53469-21-9	Arochlor-1242	.065	U
12672-29-6	Arochlor-1248	.065	U
11097-69-1	Arochlor-1254	.065	U
11096-82-5	Arochlor-1260	.065	U

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-12

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE 0309 SAS No.: SDG No.: FP-1

Matrix: (soil/water) WATER Lab Sample ID: MW-12

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 030828010-010

Level: (low/med) LOW Date Received: 08/28/03

% Moisture: not dec. dec.______ Date Extracted: 08/29/03

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 08/29/03

GPC Cleanup: (Y/N) N pH: 7 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.065	U
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.065	U
11096-82-5	-----Arochlor-1260	.065	U

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-13

Lab Name: AES,INC.   Contract:

Lab Code: AES   Case No.: DE 0309   SAS No.:   SDG No.: FP-1

Matrix: (soil/water) WATER   Lab Sample ID: MW-13

Sample wt/vol: 1000.0 (g/mL) ML   Lab File ID: 030828010-011

Level: (low/med) LOW   Date Received: 08/28/03

% Moisture: not dec.   dec.______   Date Extracted: 08/29/03

Extraction: (SepF/Cont/Sonc) SepF   Date Analyzed: 08/29/03

GPC Cleanup: (Y/N) N   pH: 7   Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.065	U
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.065	U
11096-82-5	-----Arochlor-1260	.065	U

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-14

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE 0309 SAS No.: SDG No.: FP-1

Matrix: (soil/water) water Lab Sample ID: MW-14

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 030828010-013

Level: (low/med) LOW Date Received: 08/28/03

% Moisture: not dec. dec.______ Date Extracted: 08/29/03

Extraction: (SepF/Cont/Sonc) Sept Date Analyzed: 08/30/03

GPC Cleanup: (Y/N) N pH: 7. Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.065	U
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.088	
11096-82-5	-----Arochlor-1260	.065	U

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SED-11
0-6"

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE 0309 SAS No.: SDG No.: FP-1

Matrix: (soil/water) SOIL Lab Sample ID: SED-11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 030828010-004

Level: (low/med) LOW Date Received: 08/28/03

% Moisture: not dec. 26. dec.______ Date Extracted: 08/29/03

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/30/03

GPC Cleanup: (Y/N) N pH: 5.8 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	-----Arochlor-1016	45.	U
11104-28-2	-----Arochlor-1221	45.	U
11141-16-5	-----Arochlor-1232	45.	U
53469-21-9	-----Arochlor-1242	45.	U
12672-29-6	-----Arochlor-1248	45.	U
11097-69-1	-----Arochlor-1254	68.	
11096-82-5	-----Arochlor-1260	45.	U

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SED-12
0-6"

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE 0309 SAS No.: SDG No.: FP-1

Matrix: (soil/water) SOIL Lab Sample ID: SED-12

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 030828010-003

Level: (low/med) LOW Date Received: 08/28/03

% Moisture: not dec. 30. dec.______ Date Extracted: 08/29/03

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/30/03

GPC Cleanup: (Y/N) N pH: 5.6 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	-----Arochlor-1016	48.	U
11104-28-2	-----Arochlor-1221	48.	U
11141-16-5	-----Arochlor-1232	48.	U
53469-21-9	-----Arochlor-1242	48.	U
12672-29-6	-----Arochlor-1248	48.	U
11097-69-1	-----Arochlor-1254	52.	
11096-82-5	-----Arochlor-1260	48.	U

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SED-13
0-6"

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE 0309 SAS No.: SDG. No.: FP-1

Matrix: (soil/water) SOIL Lab Sample ID: SED-13

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 030828010-002

Level: (low/med) LOW Date Received: 08/28/03

% Moisture: not dec. 58. dec.______ Date Extracted: 08/29/03

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/30/03

GPC Cleanup: (Y/N) N pH: 6.3 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	-----Arochlor-1016	79.	U
11104-28-2	-----Arochlor-1221	79.	U
11141-16-5	-----Arochlor-1232	79.	U
53469-21-9	-----Arochlor-1242	79.	U
12672-29-6	-----Arochlor-1248	79.	U
11097-69-1	-----Arochlor-1254	79.	U
11096-82-5	-----Arochlor-1260	130.	

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SED-14
0-6"

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE 0309 SAS No.: SDG No.: FP-1

Matrix: (soil/water) SOIL Lab Sample ID: SED-14

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 030828010-001

Level: (low/med) LOW Date Received: 08/28/03

% Moisture: not dec. 43. dec.______ Date Extracted: 08/29/03

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/30/03

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	-----Arochlor-1016	58.	U
11104-28-2	-----Arochlor-1221	58.	U
11141-16-5	-----Arochlor-1232	58.	U
53469-21-9	-----Arochlor-1242	58.	U
12672-29-6	-----Arochlor-1248	58.	U
11097-69-1	-----Arochlor-1254	58.	U
11096-82-5	-----Arochlor-1260	72.	

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SWARTOUT

Lab Name: AES, INC. Contract:

Lab Code: AES Case No.: DE 0309 SAS No.: SDG No.: FP-1

Matrix: (soil/water) WATER Lab Sample ID: SWARTOUT

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 030828010-014

Level: (low/med) LOW Date Received: 08/28/03

% Moisture: not dec. dec.______ Date Extracted: 08/29/03

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 08/29/03

GPC Cleanup: (Y/N) N pH: 7 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.065	U
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.065	U
11096-82-5	-----Arochlor-1260	.065	U

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

FP-1
0-6"

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ______

Lab Code: AES__ Case No.: DE_0309 SAS No.: ____ SDG No.: FP-1__

Matrix (soil/water): SOIL__ Lab Sample ID: FP-1______

Level (low/med): LOW___ Date Received: 08/28/03

% Solids: 58.0__

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	122			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.21	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	67.5			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ______ Clarity Before: ______ Texture: ______

Color After: ______ Clarity After: ______ Artifacts: ______

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

FP-2
0-6"

Lab Name: ADIRONDACK_ENVIRONMENTAL   Contract: ______

Lab Code: AES__   Case No.: DE_0309   SAS No.: ____   SDG No.: FP-1__

Matrix (soil/water): SOIL__   Lab Sample ID: FP-2______

Level (low/med): LOW___   Date Received: 08/28/03

% Solids: 68.0__

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	73.5			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.18	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	26.2			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ______   Clarity Before: ______   Texture: ______

Color After: ______   Clarity After: ______   Artifacts: ______

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

FP-3
0-6"

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0309 SAS No.: ____ SDG No.: FP-1__

Matrix (soil/water): SOIL__ Lab Sample ID: FP-3______

Level (low/med): LOW___ Date Received: 08/28/03

% Solids: 64.0__

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	94.2			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.19	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	46.8			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ________ Clarity Before: ________ Texture: ________

Color After: ________ Clarity After: ________ Artifacts: ________

Comments:

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

FP-4
0-6"

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0309 SAS No.: ____ SDG No.: FP-1__

Matrix (soil/water): SOIL__ Lab Sample ID: FP-4_______

Level (low/med): LOW___ Date Received: 08/28/03

% Solids: 44.0__

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	116			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.27	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	89.2			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ________ Clarity Before: ________ Texture: ________

Color After: ________ Clarity After: ________ Artifacts: ________

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

FS-1
0-6"

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0309 SAS No.: ____ SDG No.: FP-1__

Matrix (soil/water): SOIL__ Lab Sample ID: FS-1_______

Level (low/med): LOW___ Date Received: 08/28/03

% Solids: 65.0__

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	100			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.18	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	39.2			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ________ Clarity Before: ________ Texture: ________

Color After: ________ Clarity After: ________ Artifacts: ________

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-6

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0309 SAS No.: ____ SDG No.: FP-1__

Matrix (soil/water): WATER_ Lab Sample ID: MW-6_______

Level (low/med): LOW___ Date Received: 08/28/03

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	7.8	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.60	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.1	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ________ Clarity Before: ________ Texture: ______

Color After: ________ Clarity After: ________ Artifacts: ______

Comments:

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-7

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0309 SAS No.: ____ SDG No.: FP-1__

Matrix (soil/water): WATER_ Lab Sample ID: MW-7_______

Level (low/med): LOW___ Date Received: 08/28/03

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	25.1	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.60	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.1	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ________ Clarity Before: ______ Texture: ______

Color After: ________ Clarity After: ______ Artifacts: ______

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0309 SAS No.: ____ SDG No.: FP-1__

Matrix (soil/water): WATER_ Lab Sample ID: MW-8_______

Level (low/med): LOW___ Date Received: 08/28/03

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	15.2	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.60	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.1	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ________ Clarity Before: ________ Texture: ________

Color After: ________ Clarity After: ________ Artifacts: ________

Comments:

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-9

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0309 SAS No.: ____ SDG No.: FP-1__

Matrix (soil/water): WATER_ Lab Sample ID: MW-9________

Level (low/med): LOW___ Date Received: 08/28/03

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	18.7	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.60	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.1	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ________ Clarity Before: ________ Texture: ________

Color After: ________ Clarity After: ________ Artifacts: ________

Comments:

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-10

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0309 SAS No.: ____ SDG No.: FP-1__

Matrix (soil/water): WATER_ Lab Sample ID: MW-10______

Level (low/med): LOW___ Date Received: 08/28/03

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	48.5	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.60	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.1	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ________ Clarity Before: ________ Texture: ________

Color After: ________ Clarity After: ________ Artifacts: ________

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-12

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0309 SAS No.: ____ SDG No.: FP-1__

Matrix (soil/water): WATER_ Lab Sample ID: MW-12______

Level (low/med): LOW___ Date Received: 08/28/03

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	16.4	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.60	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.1	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ________ Clarity Before: ________ Texture: ________

Color After: ________ Clarity After: ________ Artifacts: ________

Comments:

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-13

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0309 SAS No.: ____ SDG No.: FP-1__

Matrix (soil/water): WATER_ Lab Sample ID: MW-13______

Level (low/med): LOW___ Date Received: 08/28/03

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	20.3	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.60	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.1	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ________ Clarity Before: ________ Texture: ______

Color After: ________ Clarity After: ________ Artifacts: ______

Comments:

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-14

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0309 SAS No.: ____ SDG No.: FP-1__

Matrix (soil/water): WATER_ Lab Sample ID: MW-14______

Level (low/med): LOW___ Date Received: 08/28/03

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	26.4	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.60	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.1	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ________ Clarity Before: ________ Texture: ______

Color After: ________ Clarity After: ________ Artifacts: ______

Comments:

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SED-11
0-6"

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0309 SAS No.: ____ SDG No.: FP-1__

Matrix (soil/water): SOIL__ Lab Sample ID: SED-11_____

Level (low/med): LOW___ Date Received: 08/28/03

% Solids: 74.0__

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	45.7	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.16	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	6.4			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ________ Clarity Before: ________ Texture: ________

Color After: ________ Clarity After: ________ Artifacts: ________

Comments:

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SED-12
0-6"

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0309 SAS No.: ____ SDG No.: FP-1__

Matrix (soil/water): SOIL__ Lab Sample ID: SED-12_____

Level (low/med): LOW___ Date Received: 08/28/03

% Solids: 70.0__

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	50.1	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.17	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	5.8			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ________ Clarity Before: ________ Texture: ______

Color After: ________ Clarity After: ________ Artifacts: ______

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SED-13
0-6"

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0309 SAS No.: ____ SDG No.: FP-1__

Matrix (soil/water): SOIL__ Lab Sample ID: SED-13_____

Level (low/med): LOW___ Date Received: 08/28/03

% Solids: 42.0__

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	60.2	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	3.3			P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	208			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ________ Clarity Before: ________ Texture: ______

Color After: ________ Clarity After: ________ Artifacts: ______

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SED-14
0-6"

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0309 SAS No.: ____ SDG No.: FP-1__

Matrix (soil/water): SOIL__ Lab Sample ID: SED-14_____

Level (low/med): LOW___ Date Received: 08/28/03

% Solids: 57.0__

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	32.7	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0			P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	112			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ________ Clarity Before: ________ Texture: ______

Color After: ________ Clarity After: ________ Artifacts: ______

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SWARTOUT

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0309 SAS No.: ____ SDG No.: FP-1__

Matrix (soil/water): WATER_ Lab Sample ID: SWARTOUT___

Level (low/med): LOW___ Date Received: 08/28/03

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	129	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.60	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.1	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ________ Clarity Before: ________ Texture: ______

Color After: ________ Clarity After: ________ Artifacts: ______

Comments:

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CONVENTIONALS ANALYSIS DATA SHEET

FP-1
0-6"

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0309 SAS No.: SDG No.: FP-1

Matrix (soil/water): Soil Lab Sample ID: 030828010-008

Level (Low/Med): Low Date Received: 8/28/03

% Solids: 58.1

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)	39800			Lloyd Kahn
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	3.44			EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

FP-2
0-6"

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0309 SAS No.: SDG No.: FP-1

Matrix (soil/water): Soil Lab Sample ID: 030828010-006

Level (Low/Med): Low Date Received: 8/28/03

% Solids: 68.3

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)	24300			Lloyd Kahn
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	14.3			EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

FP-3
0-6"

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0309 SAS No.: SDG No.: FP-1

Matrix (soil/water): Soil Lab Sample ID: 030828010-009

Level (Low/Med): Low Date Received: 8/28/03

% Solids: 64.2

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)	26600			Lloyd Kahn
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	3.11	U		EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

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CONVENTIONALS ANALYSIS DATA SHEET

FP-4
0-6"

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0309 SAS No.: SDG No.: FP-1

Matrix (soil/water): Soil Lab Sample ID: 030828010-005

Level (Low/Med): Low Date Received: 8/28/03

% Solids: 43.7

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)	78700			Lloyd Kahn
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	9.61			EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

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FS-1
0-6"

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0309 SAS No.: SDG No.: FP-1

Matrix (soil/water): Soil Lab Sample ID: 030828010-007

Level (Low/Med): Low Date Received: 8/28/03

% Solids: 65.4

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)	22100			Lloyd Kahn
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	3.06	U		EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

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MW-6

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0309 SAS No.: SDG No.: FP-1

Matrix (soil/water): Water Lab Sample ID: 030828010-012

Level (Low/Med): Low Date Received: 8/28/03

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				Lloyd Kahn
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	140			EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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MW-7

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0309 SAS No.: SDG No.: FP-1

Matrix (soil/water): Water Lab Sample ID: 030828010-015

Level (Low/Med): Low Date Received: 8/28/03

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				Lloyd Kahn
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	7870			EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

MW-8

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0309 SAS No.: SDG No.: FP-1

Matrix (soil/water): Water Lab Sample ID: 030828010-016

Level (Low/Med): Low Date Received: 8/28/03

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				Lloyd Kahn
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	6560			EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

MW-9

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0309 SAS No.: SDG No.: FP-1

Matrix (soil/water): Water Lab Sample ID: 030828010-017

Level (Low/Med): Low Date Received: 8/28/03

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				Lloyd Kahn
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	6520			EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

MW-10

LAB NAME: Adirondack Environmental   CONTRACT:

LAB CODE: AES   Case No.: DE 0309   SAS No.:   SDG No.: FP-1

Matrix (soil/water): Water   Lab Sample ID: 030828010-018

Level (Low/Med): Low   Date Received: 8/28/03

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				Lloyd Kahn
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	5530			EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

MW-12

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0309 SAS No.: SDG No.: FP-1

Matrix (soil/water): Water Lab Sample ID: 030828010-010

Level (Low/Med): Low Date Received: 8/28/03

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				Lloyd Kahn
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	290			EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

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CONVENTIONALS ANALYSIS DATA SHEET

MW-13

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0309 SAS No.: SDG No.: FP-1

Matrix (soil/water): Water Lab Sample ID: 030828010-011

Level (Low/Med): Low Date Received: 8/28/03

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				Lloyd Kahn
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	100	U		EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

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CONVENTIONALS ANALYSIS DATA SHEET

MW-14

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0309 SAS No.: SDG No.: FP-1

Matrix (soil/water): Water Lab Sample ID: 030828010-013

Level (Low/Med): Low Date Received: 8/28/03

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				Lloyd Kahn
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	6540			EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

SED-11
0-6"

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0309 SAS No.: SDG No.: FP-1

Matrix (soil/water): Soil Lab Sample ID: 030828010-004

Level (Low/Med): Low Date Received: 8/28/03

% Solids: 73.5

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)	17600			Lloyd Kahn
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	5.99			EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

SED-12
0-6"

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0309 SAS No.: SDG No.: FP-1

Matrix (soil/water): Soil Lab Sample ID: 030828010-003

Level (Low/Med): Low Date Received: 8/28/03

% Solids: 70.4

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)	16200			Lloyd Kahn
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	6.53			EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

SED-13
0-6"

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0309 SAS No.: SDG No.: FP-1

Matrix (soil/water): Soil Lab Sample ID: 030828010-002

Level (Low/Med): Low Date Received: 8/28/03

% Solids: 42.4

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)	40200			Lloyd Kahn
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	4.72	U		EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

SED-14
0-6"

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0309 SAS No.: SDG No.: FP-1

Matrix (soil/water): Soil Lab Sample ID: 030828010-001

Level (Low/Med): Low Date Received: 8/28/03

% Solids: 56.8

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)	25400			Lloyd Kahn
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	3.52	U		EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

Swartout

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0309 SAS No.: SDG No.: FP-1

Matrix (soil/water): Water Lab Sample ID: 030828010-014

Level (Low/Med): Low Date Received: 8/28/03

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				Lloyd Kahn
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	710			EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

FORM I - CONV

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FP1-612

Lab Name: AES,INC.   Contract:

ab Code: AES   Case No.: DE 0310   SAS No.:   SDG No.: FP1-612

Matrix: (soil/water) SOIL   Lab Sample ID: FP1-612

ample wt/vol: 30.0 (g/mL) G   Lab File ID: 030904045-009

evel: (low/med) LOW   Date Received: 09/04/03

% Moisture: not dec. 27. dec.______   Date Extracted: 09/04/03

xtraction: (SepF/Cont/Sonc) SONC   Date Analyzed: 09/06/03

GPC Cleanup: (Y/N) N   pH: 5.5   Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	-----Arochlor-1016	45.	U
11104-28-2	-----Arochlor-1221	45.	U
11141-16-5	-----Arochlor-1232	45.	U
53469-21-9	-----Arochlor-1242	45.	U
12672-29-6	-----Arochlor-1248	45.	U
11097-69-1	-----Arochlor-1254	45.	U
11096-82-5	-----Arochlor-1260	10.	J

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FP2-612

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE 0310 SAS No.: SDG No.: FP1-612

Matrix: (soil/water) SOIL Lab Sample ID: FP2-612

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 030904045-010

Level: (low/med) LOW Date Received: 09/04/03

% Moisture: not dec. 30. dec._____ Date Extracted: 09/04/03

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 09/06/03

GPC Cleanup: (Y/N) N pH: 5.8 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	-----Arochlor-1016	47.	U
11104-28-2	-----Arochlor-1221	47.	U
11141-16-5	-----Arochlor-1232	47.	U
53469-21-9	-----Arochlor-1242	47.	U
12672-29-6	-----Arochlor-1248	47.	U
11097-69-1	-----Arochlor-1254	47.	U
11096-82-5	-----Arochlor-1260	47.	U

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FP3-612

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE 0310 SAS No.: SDG No.: FP1-612

Matrix: (soil/water) SOIL Lab Sample ID: FP3-612

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 030904045-011

Level: (low/med) LOW Date Received: 09/04/03

% Moisture: not dec. 24. dec.______ Date Extracted: 09/04/03

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 09/06/03

GPC Cleanup: (Y/N) N pH: 5.5 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	-----Arochlor-1016	43.	U
11104-28-2	-----Arochlor-1221	43.	U
11141-16-5	-----Arochlor-1232	43.	U
53469-21-9	-----Arochlor-1242	43.	U
12672-29-6	-----Arochlor-1248	43.	U
11097-69-1	-----Arochlor-1254	43.	U
11096-82-5	-----Arochlor-1260	17.	J

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FP4-612

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE 0310 SAS No.: SDG No.: FP1-612

Matrix: (soil/water) SOIL Lab Sample ID: FP4-612

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 030904045-012

Level: (low/med) LOW Date Received: 09/04/03

% Moisture: not dec. 26. dec._____ Date Extracted: 09/04/03

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 09/06/03

GPC Cleanup: (Y/N) N pH: 5.6 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	-----Arochlor-1016	45.	U
11104-28-2	-----Arochlor-1221	45.	U
11141-16-5	-----Arochlor-1232	45.	U
53469-21-9	-----Arochlor-1242	45.	U
12672-29-6	-----Arochlor-1248	45.	U
11097-69-1	-----Arochlor-1254	45.	U
11096-82-5	-----Arochlor-1260	45.	U

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EPA SAMPLE NO.

FS1-612

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE 0310 SAS No.: SDG No.: FP1-612

Matrix: (soil/water) SOIL Lab Sample ID: FS1-612

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 030904045-013

Level: (low/med) LOW Date Received: 09/04/03

% Moisture: not dec. 29. dec.______ Date Extracted: 09/04/03

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 09/06/03

GPC Cleanup: (Y/N) N pH: 5.7 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	-----Arochlor-1016	46.	U
11104-28-2	-----Arochlor-1221	46.	U
11141-16-5	-----Arochlor-1232	46.	U
53469-21-9	-----Arochlor-1242	46.	U
12672-29-6	-----Arochlor-1248	46.	U
11097-69-1	-----Arochlor-1254	46.	U
11096-82-5	-----Arochlor-1260	10.	J

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EPA SAMPLE NO.

MW-15

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE 0310 SAS No.: SDG No.: FP1-612

Matrix: (soil/water) WATER Lab Sample ID: MW-15

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 030904045-003

Level: (low/med) LOW Date Received: 09/04/03

% Moisture: not dec. dec.______ Date Extracted: 09/04/03

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 09/05/03

GPC Cleanup: (Y/N) N pH: 7. Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.078	
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.065	U
11096-82-5	-----Arochlor-1260	.065	U

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EPA SAMPLE NO.

MW-16

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE 0310 SAS No.: SDG No.: FP1-612

Matrix: (soil/water) WATER Lab Sample ID: MW-16

Sample wt/vol: 970.0 (g/mL) ML Lab File ID: 030904045-004

Level: (low/med) LOW Date Received: 09/04/03

% Moisture: not dec. dec.______ Date Extracted: 09/04/03

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 09/05/03

GPC Cleanup: (Y/N) N pH: 7. Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.067	U
11104-28-2	-----Arochlor-1221	.067	U
11141-16-5	-----Arochlor-1232	.067	U
53469-21-9	-----Arochlor-1242	.035	J
12672-29-6	-----Arochlor-1248	.067	U
11097-69-1	-----Arochlor-1254	.067	U
11096-82-5	-----Arochlor-1260	.067	U

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EPA SAMPLE NO.

MW-17

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE 0310 SAS No.: SDG No.: FP1-612

Matrix: (soil/water) WATER Lab Sample ID: MW-17

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 030904045-001

Level: (low/med) LOW Date Received: 09/04/03

% Moisture: not dec. dec.______ Date Extracted: 09/04/03

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 09/05/03

GPC Cleanup: (Y/N) N pH: 7. Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.063	J
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.065	U
11096-82-5	-----Arochlor-1260	.065	U

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-17A

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE 0310 SAS No.: SDG No.: FP1-612

Matrix: (soil/water) WATER Lab Sample ID: MW-17A

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 030904045-002

Level: (low/med) LOW Date Received: 09/04/03

% Moisture: not dec. dec.______ Date Extracted: 09/04/03

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 09/05/03

GPC Cleanup: (Y/N) N pH: 7. Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.032	J
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.065	U
11096-82-5	-----Arochlor-1260	.065	U

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EPA SAMPLE NO.

SD11-612

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE 0310 SAS No.: SDG No.: FP1-612

Matrix: (soil/water) SOIL Lab Sample ID: SD11-612

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 030904045-008

Level: (low/med) LOW Date Received: 09/04/03

% Moisture: not dec. 20. dec._____ Date Extracted: 09/04/03

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 09/06/03

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	-----Arochlor-1016	41.	U
11104-28-2	-----Arochlor-1221	41.	U
11141-16-5	-----Arochlor-1232	41.	U
53469-21-9	-----Arochlor-1242	41.	U
12672-29-6	-----Arochlor-1248	41.	U
11097-69-1	-----Arochlor-1254	41.	U
11096-82-5	-----Arochlor-1260	41.	U

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EPA SAMPLE NO.

SD12-612

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE 0310 SAS No.: SDG No.: FP1-612

Matrix: (soil/water) SOIL Lab Sample ID: SD12-612

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 030904045-007

Level: (low/med) LOW Date Received: 09/04/03

% Moisture: not dec. 24. dec.______ Date Extracted: 09/04/03

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 09/06/03

GPC Cleanup: (Y/N) N pH: 5.5 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	-----Arochlor-1016	43.	U
11104-28-2	-----Arochlor-1221	43.	U
11141-16-5	-----Arochlor-1232	43.	U
53469-21-9	-----Arochlor-1242	43.	U
12672-29-6	-----Arochlor-1248	43.	U
11097-69-1	-----Arochlor-1254	43.	U
11096-82-5	-----Arochlor-1260	43.	U

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EPA SAMPLE NO.

SD13-612

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE 0310 SAS No.: SDG No.: FP1-612

Matrix: (soil/water) SOIL Lab Sample ID: SD13-612

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 030904045-006

Level: (low/med) LOW Date Received: 09/04/03

% Moisture: not dec. 11. dec.______ Date Extracted: 09/04/03

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 09/06/03

GPC Cleanup: (Y/N) N pH: 5.4 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	-----Arochlor-1016	37.	U
11104-28-2	-----Arochlor-1221	37.	U
11141-16-5	-----Arochlor-1232	37.	U
53469-21-9	-----Arochlor-1242	37.	U
12672-29-6	-----Arochlor-1248	37.	U
11097-69-1	-----Arochlor-1254	37.	U
11096-82-5	-----Arochlor-1260	37.	U

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD14-612

Lab Name: AES,INC.   Contract:

Lab Code: AES   Case No.: DE 0310   SAS No.:   SDG No.: FP1-612

Matrix: (soil/water) SOIL   Lab Sample ID: SD14-612

Sample wt/vol: 30.0 (g/mL) G   Lab File ID: 030904045-005

Level: (low/med) LOW   Date Received: 09/04/03

% Moisture: not dec. 28. dec._____   Date Extracted: 09/04/03

Extraction: (SepF/Cont/Sonc) SONC   Date Analyzed: 09/06/03

GPC Cleanup: (Y/N) N   pH: 6.1   Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	-----Arochlor-1016	46.	U
11104-28-2	-----Arochlor-1221	46.	U
11141-16-5	-----Arochlor-1232	46.	U
53469-21-9	-----Arochlor-1242	46.	U
12672-29-6	-----Arochlor-1248	46.	U
11097-69-1	-----Arochlor-1254	170.	
11096-82-5	-----Arochlor-1260	46.	U

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

FP1-612

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0310 SAS No.: _____ SDG No.: FP1-612

Matrix (soil/water): SOIL__ Lab Sample ID: FP1-612____

Level (low/med): LOW___ Date Received: 09/04/03

% Solids: 73.0__

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	106			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.16	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	13.4			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ________ Clarity Before: ________ Texture: ________

Color After: ________ Clarity After: ________ Artifacts: ________

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

FP2-612

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0310 SAS No.: ____ SDG No.: FP1-612

Matrix (soil/water): SOIL__ Lab Sample ID: FP2-612____

Level (low/med): LOW___ Date Received: 09/04/03

% Solids: 70.0__

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	57.0	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.17	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	3.1			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ________ Clarity Before: ________ Texture: ________

Color After: ________ Clarity After: ________ Artifacts: ________

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

FP3-612

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0310 SAS No.: ____ SDG No.: FP1-612

Matrix (soil/water): SOIL__ Lab Sample ID: FP3-612____

Level (low/med): LOW___ Date Received: 09/04/03

% Solids: 76.0__

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	103			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.16	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	18.8			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ________ Clarity Before: ________ Texture: ______

Color After: ________ Clarity After: ________ Artifacts: ______

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

FP4-612

Lab Name: ADIRONDACK_ENVIRONMENTAL   Contract: ________

Lab Code: AES__   Case No.: DE_0310   SAS No.: ____   SDG No.: FP1-612

Matrix (soil/water): SOIL__   Lab Sample ID: FP4-612____

Level (low/med): LOW___   Date Received: 09/04/03

% Solids: 74.0__

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	54.1			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.16	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	4.1			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ________   Clarity Before: ________   Texture: ________

Color After: ________   Clarity After: ________   Artifacts: ________

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

FS1-612

Lab Name: ADIRONDACK_ENVIRONMENTAL   Contract: ________

Lab Code: AES__   Case No.: DE_0310   SAS No.: ____   SDG No.: FP1-612

Matrix (soil/water): SOIL__   Lab Sample ID: FS1-612____

Level (low/med): LOW___   Date Received: 09/04/03

% Solids: 71.0__

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	99.5			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.17	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	14.4			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ________   Clarity Before: ________   Texture: ________

Color After: ________   Clarity After: ________   Artifacts: ________

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-15

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0310 SAS No.: ____ SDG No.: FP1-612

Matrix (soil/water): WATER_ Lab Sample ID: MW-15______

Level (low/med): LOW___ Date Received: 09/04/03

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	80.6	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.60	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.1	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ________ Clarity Before: ________ Texture: ______

Color After: ________ Clarity After: ________ Artifacts: ______

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-16

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ______

Lab Code: AES__ Case No.: DE_0310 SAS No.: ____ SDG No.: FP1-612

Matrix (soil/water): WATER_ Lab Sample ID: MW-16______

Level (low/med): LOW___ Date Received: 09/04/03

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	16.1	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.60	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.1	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ______ Clarity Before: ______ Texture: ______

Color After: ______ Clarity After: ______ Artifacts: ______

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-17

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0310 SAS No.: ____ SDG No.: FP1-612

Matrix (soil/water): WATER_ Lab Sample ID: MW-17______

Level (low/med): LOW___ Date Received: 09/04/03

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	51.8	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.60	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.1	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ________ Clarity Before: ________ Texture: ________

Color After: ________ Clarity After: ________ Artifacts: ________

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-17A

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0310 SAS No.: ____ SDG No.: FP1-612

Matrix (soil/water): WATER_ Lab Sample ID: MW-17A_____

Level (low/med): LOW___ Date Received: 09/04/03

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5_	Aluminum__				NR
7440-36-0_	Antimony__				NR
7440-38-2_	Arsenic___				NR
7440-39-3_	Barium____	72.5_	B		P_
7440-41-7_	Beryllium_				NR
7440-43-9_	Cadmium___	0.60_	U		P_
7440-70-2_	Calcium___				NR
7440-47-3_	Chromium__				NR
7440-48-4_	Cobalt____				NR
7440-50-8_	Copper____				NR
7439-89-6_	Iron______				NR
7439-92-1_	Lead______	2.1_	U		P_
7439-95-4_	Magnesium_				NR
7439-96-5_	Manganese_				NR
7439-97-6_	Mercury___				NR
7440-02-0_	Nickel____				NR
7440-09-7_	Potassium_				NR
7782-49-2_	Selenium__				NR
7440-22-4_	Silver____				NR
7440-23-5_	Sodium____				NR
7440-28-0_	Thallium__				NR
7440-62-2_	Vanadium__				NR
7440-66-6_	Zinc______				NR
7440-42-8_	Boron_____				NR

Color Before: ________ Clarity Before: ________ Texture: ______

Color After: ________ Clarity After: ________ Artifacts: ______

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD11-612

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0310 SAS No.: ____ SDG No.: FP1-612

Matrix (soil/water): SOIL__ Lab Sample ID: SD11-612___

Level (low/med): LOW___ Date Received: 09/04/03

% Solids: 80.0__

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	21.5	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.15	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	0.52	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ________ Clarity Before: ________ Texture: ______

Color After: ________ Clarity After: ________ Artifacts: ______

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD12-612

Lab Name: ADIRONDACK_ENVIRONMENTAL   Contract: ______

Lab Code: AES__   Case No.: DE_0310   SAS No.: ____   SDG No.: FP1-612

Matrix (soil/water): SOIL__   Lab Sample ID: SD12-612___

Level (low/med): LOW___   Date Received: 09/04/03

% Solids: 76.0__

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	20.6	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.16	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1.3			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ______   Clarity Before: ______   Texture: ______

Color After: ______   Clarity After: ______   Artifacts: ______

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD13-612

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0310 SAS No.: _____ SDG No.: FP1-612

Matrix (soil/water): SOIL__ Lab Sample ID: SD13-612___

Level (low/med): LOW___ Date Received: 09/04/03

% Solids: 89.0__

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	27.8	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.13	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	7.2			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ________ Clarity Before: ________ Texture: ________

Color After: ________ Clarity After: ________ Artifacts: ________

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD14-612

Lab Name: ADIRONDACK_ENVIRONMENTAL   Contract: ________

Lab Code: AES__   Case No.: DE_0310   SAS No.: ____   SDG No.: FP1-612

Matrix (soil/water): SOIL__   Lab Sample ID: SD14-612___

Level (low/med): LOW___   Date Received: 09/04/03

% Solids: 72.0__

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	31.3	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.23	B		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	13.2			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ________   Clarity Before: ________   Texture: ________

Color After: ________   Clarity After: ________   Artifacts: ________

Comments:

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CONVENTIONALS ANALYSIS DATA SHEET

FP1-612

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0310 SAS No.: SDG No.: FP1-612

Matrix (soil/water): Soil Lab Sample ID: 030904045-009

Level (Low/Med): Low Date Received: 9/4/03

% Solids: 72.8

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)	15400			Lloyd Kahn
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	2.75	U		EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

FP2-612

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0310 SAS No.: SDG No.: FP1-612

Matrix (soil/water): Soil Lab Sample ID: 030904045-010

Level (Low/Med): Low Date Received: 9/4/03

% Solids: 69.8

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)	13500			Lloyd Kahn
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	2.87	U		EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

FP3-612

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0310 SAS No.: SDG No.: FP1-612

Matrix (soil/water): Soil Lab Sample ID: 030904045-011

Level (Low/Med): Low Date Received: 9/4/03

% Solids: 75.5

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)	9820			Lloyd Kahn
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	2.65	U		EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

FP4-612

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0310 SAS No.: SDG No.: FP1-612

Matrix (soil/water): Soil Lab Sample ID: 030904045-012

Level (Low/Med): Low Date Received: 9/4/03

% Solids: 73.8

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)	9340			Lloyd Kahn
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	5.96			EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

FS1-612

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0310 SAS No.: SDG No.: FP1-612

Matrix (soil/water): Soil Lab Sample ID: 030904045-013

Level (Low/Med): Low Date Received: 9/4/03

% Solids: 71.3

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)	11000			Lloyd Kahn
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	2.81	U		EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

MW-15

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0310 SAS No.: SDG No.: FP1-612

Matrix (soil/water): Water Lab Sample ID: 030904045-003

Level (Low/Med): Low Date Received: 9/4/03

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				Lloyd Kahn
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	120			EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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U.S. EPA - CLP

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CONVENTIONALS ANALYSIS DATA SHEET

MW-16

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0310 SAS No.: SDG No.: FP1-612

Matrix (soil/water): Water Lab Sample ID: 030904045-004

Level (Low/Med): Low Date Received: 9/4/03

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				Lloyd Kahn
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	100	U		EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

MW-17

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0310 SAS No.: SDG No.: FP1-612

Matrix (soil/water): Water Lab Sample ID: 030904045-001

Level (Low/Med): Low Date Received: 9/4/03

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				Lloyd Kahn
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	1800			EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

MW-17A

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0310 SAS No.: SDG No.: FP1-612

Matrix (soil/water): Water Lab Sample ID: 030904045-002

Level (Low/Med): Low Date Received: 9/4/03

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				Lloyd Kahn
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	100	U		EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

SD11-612

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0310 SAS No.: SDG No.: FP1-612

Matrix (soil/water): Soil Lab Sample ID: 030904045-008

Level (Low/Med): Low Date Received: 9/4/03

% Solids: 80.1

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)	6590			Lloyd Kahn
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	2.50	U		EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

SD12-612

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0310 SAS No.: SDG No.: FP1-612

Matrix (soil/water): Soil Lab Sample ID: 030904045-007

Level (Low/Med): Low Date Received: 9/4/03

% Solids: 76.4

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)	9750			Lloyd Kahn
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	2.62	U		EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

SD13-612

LAB NAME: Adirondack Environmental   CONTRACT:

LAB CODE: AES   Case No.: DE 0310   SAS No.:   SDG No.: FP1-612

Matrix (soil/water): Soil   Lab Sample ID: 030904045-006

Level (Low/Med): Low   Date Received: 9/4/03

% Solids: 88.6

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)	11100			Lloyd Kahn
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	2.26	U		EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

SD14-612

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0310 SAS No.: SDG No.: FP1-612

Matrix (soil/water): Soil Lab Sample ID: 030904045-005

Level (Low/Med): Low Date Received: 9/4/03

% Solids: 72.3

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)	15400			Lloyd Kahn
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Fluoride	4.98			EPA 300.0
Eh				
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

FORM I - CONV

Adirondack Environmental Services, Inc

Date: *15-Mar-05*

CLIENT:	Delaware Engineering	**Client Sample ID:**	SB-6-05(0-2 BGW)
Work Order:	050301024	**Collection Date:**	2/21/2005
Project:	Metals in Soil	**Lab Sample ID:**	050301024-001
PO#: 01-179		**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B(SW3050A)						Analyst: **SM**
Barium	18.5	0.50		µg/g	1	3/11/2005 5:36:00 PM
Cadmium	< 0.25	0.25		µg/g	1	3/11/2005 5:36:00 PM
Lead	< 0.25	0.25		µg/g	1	3/11/2005 5:36:00 PM
ICP METALS, TCLP SW1311/6010A(SW1311)						Analyst: **SM**
Barium-TCLP	< 0.10	0.10		mg/L	1	3/10/2005 5:51:00 PM
Cadmium-TCLP	< 0.05	0.05		mg/L	1	3/10/2005 5:51:00 PM
Lead-TCLP	< 0.05	0.05		mg/L	1	3/10/2005 5:51:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *15-Mar-05*

CLIENT:	Delaware Engineering	**Client Sample ID:**	SB-6-05(2-4 BGW)
Work Order:	050301024	**Collection Date:**	2/21/2005
Project:	Metals in Soil	**Lab Sample ID:**	050301024-002
PO#: 01-179		**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B(SW3050A)						Analyst: **SM**
Barium	20.7	0.50		µg/g	1	3/11/2005 5:49:00 PM
Cadmium	< 0.25	0.25		µg/g	1	3/11/2005 5:49:00 PM
Lead	< 0.25	0.25		µg/g	1	3/11/2005 5:49:00 PM
ICP METALS, TCLP SW1311/6010A(SW1311)						Analyst: **SM**
Barium-TCLP	< 0.10	0.10		mg/L	1	3/10/2005 5:55:00 PM
Cadmium-TCLP	< 0.05	0.05		mg/L	1	3/10/2005 5:55:00 PM
Lead-TCLP	< 0.05	0.05		mg/L	1	3/10/2005 5:55:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *15-Mar-05*

CLIENT:	Delaware Engineering	**Client Sample ID:**	SB-6-05(4-6 BGW)
Work Order:	050301024	**Collection Date:**	2/21/2005
Project:	Metals in Soil	**Lab Sample ID:**	050301024-003
PO#:	01-179	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B(SW3050A)						Analyst: **SM**
Barium	24.6	0.50		µg/g	1	3/11/2005 5:53:00 PM
Cadmium	< 0.25	0.25		µg/g	1	3/11/2005 5:53:00 PM
Lead	< 0.25	0.25		µg/g	1	3/11/2005 5:53:00 PM
ICP METALS, TCLP SW1311/6010A(SW1311)						Analyst: **SM**
Barium-TCLP	0.11	0.10		mg/L	1	3/10/2005 5:58:00 PM
Cadmium-TCLP	< 0.05	0.05		mg/L	1	3/10/2005 5:58:00 PM
Lead-TCLP	< 0.05	0.05		mg/L	1	3/10/2005 5:58:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *15-Mar-05*

CLIENT:	Delaware Engineering	**Client Sample ID:**	SB-6-05(8-10 BGW)
Work Order:	050301024	**Collection Date:**	2/21/2005
Project:	Metals in Soil	**Lab Sample ID:**	050301024-004
PO#:	01-179	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B(SW3050A)						Analyst: **SM**
Barium	25.9	0.50		µg/g	1	3/11/2005 5:56:00 PM
Cadmium	< 0.25	0.25		µg/g	1	3/11/2005 5:56:00 PM
Lead	< 0.25	0.25		µg/g	1	3/11/2005 5:56:00 PM
ICP METALS, TCLP SW1311/6010A(SW1311)						Analyst: **SM**
Barium-TCLP	< 0.10	0.10		mg/L	1	3/10/2005 6:01:00 PM
Cadmium-TCLP	< 0.05	0.05		mg/L	1	3/10/2005 6:01:00 PM
Lead-TCLP	< 0.05	0.05		mg/L	1	3/10/2005 6:01:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *15-Mar-05*

CLIENT:	Delaware Engineering	**Client Sample ID:**	SB-4-05(0-2 BGW)
Work Order:	050301024	**Collection Date:**	2/22/2005
Project:	Metals in Soil	**Lab Sample ID:**	050301024-005
PO#:	01-179	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B(SW3050A)						Analyst: **SM**
Barium	47.4	0.50		µg/g	1	3/11/2005 6:00:00 PM
Cadmium	< 0.25	0.25		µg/g	1	3/11/2005 6:00:00 PM
Lead	< 0.25	0.25		µg/g	1	3/11/2005 6:00:00 PM
ICP METALS, TCLP SW1311/6010A(SW1311)						Analyst: **SM**
Barium-TCLP	0.65	0.10		mg/L	1	3/10/2005 6:06:00 PM
Cadmium-TCLP	< 0.05	0.05		mg/L	1	3/10/2005 6:06:00 PM
Lead-TCLP	< 0.05	0.05		mg/L	1	3/10/2005 6:06:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *15-Mar-05*

CLIENT:	Delaware Engineering	**Client Sample ID:**	SB-4-05(2-4 BGW)
Work Order:	050301024	**Collection Date:**	2/22/2005
Project:	Metals in Soil	**Lab Sample ID:**	050301024-006
PO#: 01-179		**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B(SW3050A)						Analyst: **SM**
Barium	377	0.50		µg/g	1	3/11/2005 6:03:00 PM
Cadmium	2.16	0.25		µg/g	1	3/11/2005 6:03:00 PM
Lead	17.3	0.25		µg/g	1	3/11/2005 6:03:00 PM
ICP METALS, TCLP SW1311/6010A(SW1311)						Analyst: **SM**
Barium-TCLP	2.82	0.10		mg/L	1	3/10/2005 6:14:00 PM
Cadmium-TCLP	< 0.05	0.05		mg/L	1	3/10/2005 6:14:00 PM
Lead-TCLP	< 0.05	0.05		mg/L	1	3/10/2005 6:14:00 PM

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quanititation limits
- B - Analyte detected in the associated Method Blank
- * - Value exceeds Maximum Contaminant Level
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *15-Mar-05*

CLIENT:	Delaware Engineering	**Client Sample ID:**	SB-4-05(4-6 BGW)
Work Order:	050301024	**Collection Date:**	2/22/2005
Project:	Metals in Soil	**Lab Sample ID:**	050301024-007
PO#:	01-179	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B(SW3050A)						Analyst: **SM**
Barium	429	0.50		µg/g	1	3/11/2005 6:25:00 PM
Cadmium	6.25	0.25		µg/g	1	3/11/2005 6:25:00 PM
Lead	10.0	0.25		µg/g	1	3/11/2005 6:25:00 PM
ICP METALS, TCLP SW1311/6010A(SW1311)						Analyst: **SM**
Barium-TCLP	3.47	0.10		mg/L	1	3/10/2005 6:18:00 PM
Cadmium-TCLP	< 0.05	0.05		mg/L	1	3/10/2005 6:18:00 PM
Lead-TCLP	< 0.05	0.05		mg/L	1	3/10/2005 6:18:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *15-Mar-05*

CLIENT:	Delaware Engineering	**Client Sample ID:**	SB-4-05(8-10 BGW)
Work Order:	050301024	**Collection Date:**	2/22/2005
Project:	Metals in Soil	**Lab Sample ID:**	050301024-008
PO#:	01-179	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B(SW3050A)						Analyst: **SM**
Barium	53.0	0.50		µg/g	1	3/11/2005 6:35:00 PM
Cadmium	0.29	0.25		µg/g	1	3/11/2005 6:35:00 PM
Lead	< 0.25	0.25		µg/g	1	3/11/2005 6:35:00 PM
ICP METALS, TCLP SW1311/6010A(SW1311)						Analyst: **SM**
Barium-TCLP	1.74	0.10		mg/L	1	3/11/2005 2:10:00 PM
Cadmium-TCLP	< 0.05	0.05		mg/L	1	3/11/2005 2:10:00 PM
Lead-TCLP	< 0.05	0.05		mg/L	1	3/11/2005 2:10:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *15-Mar-05*

CLIENT:	Delaware Engineering	**Client Sample ID:**	SB-7-05(0-2 BGW)
Work Order:	050301024	**Collection Date:**	2/23/2005
Project:	Metals in Soil	**Lab Sample ID:**	050301024-009
PO#:	01-179	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B(SW3050A)						Analyst: **SM**
Barium	334	0.50		µg/g	1	3/11/2005 6:39:00 PM
Cadmium	5.24	0.25		µg/g	1	3/11/2005 6:39:00 PM
Lead	5.81	0.25		µg/g	1	3/11/2005 6:39:00 PM
ICP METALS, TCLP SW1311/6010A(SW1311)						Analyst: **SM**
Barium-TCLP	3.13	0.10		mg/L	1	3/11/2005 2:15:00 PM
Cadmium-TCLP	0.10	0.05		mg/L	1	3/11/2005 2:15:00 PM
Lead-TCLP	< 0.05	0.05		mg/L	1	3/11/2005 2:15:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *15-Mar-05*

CLIENT:	Delaware Engineering	**Client Sample ID:**	SB-7-05(2-4 BGW)
Work Order:	050301024	**Collection Date:**	2/23/2005
Project:	Metals in Soil	**Lab Sample ID:**	050301024-010
PO#:	01-179	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B(SW3050A)						Analyst: **SM**
Barium	259	0.50		µg/g	1	3/11/2005 6:43:00 PM
Cadmium	8.75	0.25		µg/g	1	3/11/2005 6:43:00 PM
Lead	35.8	0.25		µg/g	1	3/11/2005 6:43:00 PM
ICP METALS, TCLP SW1311/6010A(SW1311)						Analyst: **SM**
Barium-TCLP	2.91	0.10		mg/L	1	3/11/2005 2:19:00 PM
Cadmium-TCLP	0.10	0.05		mg/L	1	3/11/2005 2:19:00 PM
Lead-TCLP	0.08	0.05		mg/L	1	3/11/2005 2:19:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *15-Mar-05*

CLIENT:	Delaware Engineering	**Client Sample ID:**	SB-7-05(4-6 BGW)
Work Order:	050301024	**Collection Date:**	2/23/2005
Project:	Metals in Soil	**Lab Sample ID:**	050301024-011
PO#:	01-179	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B(SW3050A)						Analyst: **SM**
Barium	236	0.50		µg/g	1	3/11/2005 6:47:00 PM
Cadmium	13.2	0.25		µg/g	1	3/11/2005 6:47:00 PM
Lead	30.1	0.25		µg/g	1	3/11/2005 6:47:00 PM
ICP METALS, TCLP SW1311/6010A(SW1311)						Analyst: **SM**
Barium-TCLP	2.27	0.10		mg/L	1	3/11/2005 2:23:00 PM
Cadmium-TCLP	0.07	0.05		mg/L	1	3/11/2005 2:23:00 PM
Lead-TCLP	< 0.05	0.05		mg/L	1	3/11/2005 2:23:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *15-Mar-05*

CLIENT: Delaware Engineering
Work Order: 050301024
Project: Metals in Soil
PO#: 01-179

Client Sample ID: SB-7-05(8-10 BGW)
Collection Date: 2/23/2005
Lab Sample ID: 050301024-012
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B(SW3050A)						Analyst: **SM**
Barium	567	0.50		µg/g	1	3/11/2005 6:53:00 PM
Cadmium	30.5	0.25		µg/g	1	3/11/2005 6:53:00 PM
Lead	32.9	0.25		µg/g	1	3/11/2005 6:53:00 PM
ICP METALS, TCLP SW1311/6010A(SW1311)						Analyst: **SM**
Barium-TCLP	5.42	0.10		mg/L	1	3/11/2005 2:27:00 PM
Cadmium-TCLP	0.40	0.05		mg/L	1	3/11/2005 2:27:00 PM
Lead-TCLP	0.06	0.05		mg/L	1	3/11/2005 2:27:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *15-Mar-05*

CLIENT:	Delaware Engineering	**Client Sample ID:**	SB-8-05(0-2 BGW)
Work Order:	050301024	**Collection Date:**	2/24/2005
Project:	Metals in Soil	**Lab Sample ID:**	050301024-013
PO#:	01-179	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B(SW3050A)						Analyst: **SM**
Barium	53.6	0.50		µg/g	1	3/14/2005 2:31:00 PM
Cadmium	0.26	0.25		µg/g	1	3/14/2005 2:31:00 PM
Lead	< 0.25	0.25		µg/g	1	3/14/2005 2:31:00 PM
ICP METALS, TCLP SW1311/6010A(SW1311)						Analyst: **SM**
Barium-TCLP	0.31	0.10		mg/L	1	3/11/2005 2:33:00 PM
Cadmium-TCLP	< 0.05	0.05		mg/L	1	3/11/2005 2:33:00 PM
Lead-TCLP	< 0.05	0.05		mg/L	1	3/11/2005 2:33:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *15-Mar-05*

CLIENT:	Delaware Engineering	**Client Sample ID:**	SB-8-05(2-4 BGW)
Work Order:	050301024	**Collection Date:**	2/24/2005
Project:	Metals in Soil	**Lab Sample ID:**	050301024-014
PO#:	01-179	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B(SW3050A)						Analyst: **SM**
Barium	139	0.50		µg/g	1	3/14/2005 3:02:00 PM
Cadmium	7.68	0.25		µg/g	1	3/14/2005 3:02:00 PM
Lead	< 0.25	0.25		µg/g	1	3/14/2005 3:02:00 PM
ICP METALS, TCLP SW1311/6010A(SW1311)						Analyst: **SM**
Barium-TCLP	1.75	0.10		mg/L	1	3/11/2005 2:37:00 PM
Cadmium-TCLP	0.10	0.05		mg/L	1	3/11/2005 2:37:00 PM
Lead-TCLP	< 0.05	0.05		mg/L	1	3/11/2005 2:37:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *15-Mar-05*

CLIENT:	Delaware Engineering	**Client Sample ID:**	SB-8-05(4-6 BGW)
Work Order:	050301024	**Collection Date:**	2/24/2005
Project:	Metals in Soil	**Lab Sample ID:**	050301024-015
PO#:	01-179	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B(SW3050A)						Analyst: **SM**
Barium	167	0.50		µg/g	1	3/14/2005 3:14:00 PM
Cadmium	2.71	0.25		µg/g	1	3/14/2005 3:14:00 PM
Lead	0.84	0.25		µg/g	1	3/14/2005 3:14:00 PM
ICP METALS, TCLP SW1311/6010A(SW1311)						Analyst: **SM**
Barium-TCLP	2.14	0.10		mg/L	1	3/11/2005 2:45:00 PM
Cadmium-TCLP	< 0.05	0.05		mg/L	1	3/11/2005 2:45:00 PM
Lead-TCLP	< 0.05	0.05		mg/L	1	3/11/2005 2:45:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *15-Mar-05*

CLIENT:	Delaware Engineering	**Client Sample ID:**	SB-8-05(8-10 BGW)
Work Order:	050301024	**Collection Date:**	2/24/2005
Project:	Metals in Soil	**Lab Sample ID:**	050301024-016
PO#:	01-179	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B(SW3050A)						Analyst: **SM**
Barium	229	0.50		µg/g	1	3/14/2005 3:17:00 PM
Cadmium	3.07	0.25		µg/g	1	3/14/2005 3:17:00 PM
Lead	1.26	0.25		µg/g	1	3/14/2005 3:17:00 PM
ICP METALS, TCLP SW1311/6010A(SW1311)						Analyst: **SM**
Barium-TCLP	3.49	0.10		mg/L	1	3/11/2005 2:49:00 PM
Cadmium-TCLP	0.08	0.05		mg/L	1	3/11/2005 2:49:00 PM
Lead-TCLP	< 0.05	0.05		mg/L	1	3/11/2005 2:49:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *15-Mar-05*

CLIENT:	Delaware Engineering	**Client Sample ID:**	SB-5-05(0-2 BGW)
Work Order:	050301024	**Collection Date:**	2/24/2005
Project:	Metals in Soil	**Lab Sample ID:**	050301024-017
PO#: 01-179		**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B(SW3050A)						Analyst: **SM**
Barium	600	0.50		µg/g	1	3/14/2005 3:26:00 PM
Cadmium	2310	2.50		µg/g	10	3/14/2005 5:51:00 PM
Lead	1020	0.25		µg/g	1	3/14/2005 3:26:00 PM
ICP METALS, TCLP SW1311/6010A(SW1311)						Analyst: **SM**
Barium-TCLP	8.12	0.10		mg/L	1	3/11/2005 3:17:00 PM
Cadmium-TCLP	5.63	0.05	*	mg/L	1	3/11/2005 3:17:00 PM
Lead-TCLP	0.86	0.05		mg/L	1	3/11/2005 3:17:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *15-Mar-05*

CLIENT:	Delaware Engineering	**Client Sample ID:**	SB-5-05(2-4 BGW)
Work Order:	050301024	**Collection Date:**	2/24/2005
Project:	Metals in Soil	**Lab Sample ID:**	050301024-018
PO#: 01-179		**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B(SW3050A)						Analyst: **SM**
Barium	775	0.50		µg/g	1	3/14/2005 3:35:00 PM
Cadmium	369	0.25		µg/g	1	3/14/2005 3:35:00 PM
Lead	240	0.25		µg/g	1	3/14/2005 3:35:00 PM
ICP METALS, TCLP SW1311/6010A(SW1311)						Analyst: **SM**
Barium-TCLP	11.5	0.10		mg/L	1	3/11/2005 3:22:00 PM
Cadmium-TCLP	5.34	0.05	*	mg/L	1	3/11/2005 3:22:00 PM
Lead-TCLP	0.73	0.05		mg/L	1	3/11/2005 3:22:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *15-Mar-05*

CLIENT:	Delaware Engineering	**Client Sample ID:**	SB-5-05(~~4-6~~ 6-8 BGW) GCF 3/28/05
Work Order:	050301024	**Collection Date:**	2/24/2005
Project:	Metals in Soil	**Lab Sample ID:**	050301024-019
PO#: 01-179		**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B(SW3050A)						Analyst: **SM**
Barium	909	0.50		µg/g	1	3/14/2005 3:51:00 PM
Cadmium	286	0.25		µg/g	1	3/14/2005 3:51:00 PM
Lead	169	0.25		µg/g	1	3/14/2005 3:51:00 PM
ICP METALS, TCLP SW1311/6010A(SW1311)						Analyst: **SM**
Barium-TCLP	10.9	0.10		mg/L	1	3/11/2005 3:26:00 PM
Cadmium-TCLP	1.94	0.05	*	mg/L	1	3/11/2005 3:26:00 PM
Lead-TCLP	0.15	0.05		mg/L	1	3/11/2005 3:26:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *15-Mar-05*

CLIENT:	Delaware Engineering	**Client Sample ID:**	SB-5-05(8-10 BGW)
Work Order:	050301024	**Collection Date:**	2/24/2005
Project:	Metals in Soil	**Lab Sample ID:**	050301024-020
PO#:	01-179	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B(SW3050A)						Analyst: **SM**
Barium	914	0.50		µg/g	1	3/14/2005 4:26:00 PM
Cadmium	402	0.25		µg/g	1	3/14/2005 4:26:00 PM
Lead	168	0.25		µg/g	1	3/14/2005 4:26:00 PM
ICP METALS, TCLP SW1311/6010A(SW1311)						Analyst: **SM**
Barium-TCLP	12.5	0.10		mg/L	1	3/11/2005 3:30:00 PM
Cadmium-TCLP	1.94	0.05	*	mg/L	1	3/11/2005 3:30:00 PM
Lead-TCLP	0.25	0.05		mg/L	1	3/11/2005 3:30:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *15-Mar-05*

CLIENT:	Delaware Engineering	**Client Sample ID:**	SB-3-05(0-2 BGW)
Work Order:	050301024	**Collection Date:**	2/25/2005
Project:	Metals in Soil	**Lab Sample ID:**	050301024-021
PO#:	01-179	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B(SW3050A)						Analyst: **SM**
Barium	590	0.50		µg/g	1	3/14/2005 4:33:00 PM
Cadmium	11.8	0.25		µg/g	1	3/14/2005 4:33:00 PM
Lead	26.0	0.25		µg/g	1	3/14/2005 4:33:00 PM
ICP METALS, TCLP SW1311/6010A(SW1311)						Analyst: **SM**
Barium-TCLP	4.51	0.10		mg/L	1	3/11/2005 3:49:00 PM
Cadmium-TCLP	0.11	0.05		mg/L	1	3/11/2005 3:49:00 PM
Lead-TCLP	0.08	0.05		mg/L	1	3/11/2005 3:49:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *15-Mar-05*

CLIENT:	Delaware Engineering	**Client Sample ID:**	SB-3-05(2-4 BGW)
Work Order:	050301024	**Collection Date:**	2/25/2005
Project:	Metals in Soil	**Lab Sample ID:**	050301024-022
PO#:	01-179	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B(SW3050A)						Analyst: **SM**
Barium	359	0.50		µg/g	1	3/14/2005 4:49:00 PM
Cadmium	4.14	0.25		µg/g	1	3/14/2005 4:49:00 PM
Lead	9.39	0.25		µg/g	1	3/14/2005 4:49:00 PM
ICP METALS, TCLP SW1311/6010A(SW1311)						Analyst: **SM**
Barium-TCLP	3.76	0.10		mg/L	1	3/11/2005 3:53:00 PM
Cadmium-TCLP	0.09	0.05		mg/L	1	3/11/2005 3:53:00 PM
Lead-TCLP	0.06	0.05		mg/L	1	3/11/2005 3:53:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *15-Mar-05*

CLIENT:	Delaware Engineering	**Client Sample ID:**	SB-3-05(~~4-6~~ 6-8' BGW)
Work Order:	050301024	**Collection Date:**	2/25/2005
Project:	Metals in Soil	**Lab Sample ID:**	050301024-023
PO#:	01-179	**Matrix:**	SOIL

GGF 3/12/05

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B(SW3050A)						Analyst: **SM**
Barium	666	0.50		µg/g	1	3/14/2005 4:53:00 PM
Cadmium	7.42	0.25		µg/g	1	3/14/2005 4:53:00 PM
Lead	53.3	0.25		µg/g	1	3/14/2005 4:53:00 PM
ICP METALS, TCLP SW1311/6010A(SW1311)						Analyst: **SM**
Barium-TCLP	5.50	0.10		mg/L	1	3/11/2005 3:57:00 PM
Cadmium-TCLP	0.06	0.05		mg/L	1	3/11/2005 3:57:00 PM
Lead-TCLP	< 0.05	0.05		mg/L	1	3/11/2005 3:57:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *15-Mar-05*

CLIENT:	Delaware Engineering	**Client Sample ID:**	SB-3-05(8-10 BGW)
Work Order:	050301024	**Collection Date:**	2/25/2005
Project:	Metals in Soil	**Lab Sample ID:**	050301024-024
PO#:	01-179	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B(SW3050A)						Analyst: **SM**
Barium	429	0.50		µg/g	1	3/14/2005 4:57:00 PM
Cadmium	3.87	0.25		µg/g	1	3/14/2005 4:57:00 PM
Lead	18.0	0.25		µg/g	1	3/14/2005 4:57:00 PM
ICP METALS, TCLP SW1311/6010A(SW1311)						Analyst: **SM**
Barium-TCLP	4.17	0.10		mg/L	1	3/11/2005 4:02:00 PM
Cadmium-TCLP	< 0.05	0.05		mg/L	1	3/11/2005 4:02:00 PM
Lead-TCLP	< 0.05	0.05		mg/L	1	3/11/2005 4:02:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *15-Mar-05*

CLIENT:	Delaware Engineering	**Client Sample ID:**	SB-2-05(0-2 BGW)
Work Order:	050301024	**Collection Date:**	2/28/2005
Project:	Metals in Soil	**Lab Sample ID:**	050301024-025
PO#:	01-179	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B(SW3050A)						Analyst: **SM**
Barium	1030	0.50		µg/g	1	3/14/2005 5:01:00 PM
Cadmium	316	0.25		µg/g	1	3/14/2005 5:01:00 PM
Lead	780	0.25		µg/g	1	3/14/2005 5:01:00 PM
ICP METALS, TCLP SW1311/6010A(SW1311)						Analyst: **SM**
Barium-TCLP	4.18	0.10		mg/L	1	3/11/2005 4:26:00 PM
Cadmium-TCLP	1.13	0.05	*	mg/L	1	3/11/2005 4:26:00 PM
Lead-TCLP	0.66	0.05		mg/L	1	3/11/2005 4:26:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *15-Mar-05*

CLIENT:	Delaware Engineering	**Client Sample ID:**	SB-2-05(~~2-4~~ 4-6' BGW) GG F 3/28/05
Work Order:	050301024	**Collection Date:**	2/28/2005
Project:	Metals in Soil	**Lab Sample ID:**	050301024-026
PO#: 01-179		**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B(SW3050A)						Analyst: **SM**
Barium	1370	0.50		µg/g	1	3/14/2005 5:06:00 PM
Cadmium	57.2	0.25		µg/g	1	3/14/2005 5:06:00 PM
Lead	143	0.25		µg/g	1	3/14/2005 5:06:00 PM
ICP METALS, TCLP SW1311/6010A(SW1311)						Analyst: **SM**
Barium-TCLP	11.8	0.10		mg/L	1	3/11/2005 4:30:00 PM
Cadmium-TCLP	0.15	0.05		mg/L	1	3/11/2005 4:30:00 PM
Lead-TCLP	0.32	0.05		mg/L	1	3/11/2005 4:30:00 PM

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quanititation limits
- B - Analyte detected in the associated Method Blank
- * - Value exceeds Maximum Contaminant Level
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *15-Mar-05*

CLIENT:	Delaware Engineering	**Client Sample ID:**	SB-2-05(4-6 BGW)
Work Order:	050301024	**Collection Date:**	2/28/2005
Project:	Metals in Soil	**Lab Sample ID:**	050301024-027
PO#:	01-179	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B(SW3050A)						Analyst: **SM**
Barium	739	0.50		µg/g	1	3/14/2005 5:18:00 PM
Cadmium	42.6	0.25		µg/g	1	3/14/2005 5:18:00 PM
Lead	73.6	0.25		µg/g	1	3/14/2005 5:18:00 PM
ICP METALS, TCLP SW1311/6010A(SW1311)						Analyst: **SM**
Barium-TCLP	5.61	0.10		mg/L	1	3/11/2005 4:37:00 PM
Cadmium-TCLP	0.32	0.05		mg/L	1	3/11/2005 4:37:00 PM
Lead-TCLP	0.14	0.05		mg/L	1	3/11/2005 4:37:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *15-Mar-05*

CLIENT:	Delaware Engineering	**Client Sample ID:**	SB-2-05(8-10 BGW)
Work Order:	050301024	**Collection Date:**	2/28/2005
Project:	Metals in Soil	**Lab Sample ID:**	050301024-028
PO#:	01-179	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B(SW3050A)						Analyst: **SM**
Barium	673	0.50		µg/g	1	3/14/2005 5:22:00 PM
Cadmium	21.3	0.25		µg/g	1	3/14/2005 5:22:00 PM
Lead	55.4	0.25		µg/g	1	3/14/2005 5:22:00 PM
ICP METALS, TCLP SW1311/6010A(SW1311)						Analyst: **SM**
Barium-TCLP	6.52	0.10		mg/L	1	3/11/2005 4:41:00 PM
Cadmium-TCLP	0.24	0.05		mg/L	1	3/11/2005 4:41:00 PM
Lead-TCLP	0.15	0.05		mg/L	1	3/11/2005 4:41:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *15-Mar-05*

CLIENT:	Delaware Engineering	**Client Sample ID:**	SB-1-05(0-2 BGW)
Work Order:	050301024	**Collection Date:**	2/28/2005
Project:	Metals in Soil	**Lab Sample ID:**	050301024-029
PO#: 01-179		**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B(SW3050A)						Analyst: **SM**
Barium	930	0.50		µg/g	1	3/14/2005 5:26:00 PM
Cadmium	175	0.25		µg/g	1	3/14/2005 5:26:00 PM
Lead	92.2	0.25		µg/g	1	3/14/2005 5:26:00 PM
ICP METALS, TCLP SW1311/6010A(SW1311)						Analyst: **SM**
Barium-TCLP	6.98	0.10		mg/L	1	3/11/2005 4:45:00 PM
Cadmium-TCLP	1.26	0.05	*	mg/L	1	3/11/2005 4:45:00 PM
Lead-TCLP	0.13	0.05		mg/L	1	3/11/2005 4:45:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *15-Mar-05*

CLIENT:	Delaware Engineering	**Client Sample ID:**	SB-1-05(2-4 BGW)
Work Order:	050301024	**Collection Date:**	2/28/2005
Project:	Metals in Soil	**Lab Sample ID:**	050301024-030
PO#:	01-179	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B(SW3050A)						Analyst: **SM**
Barium	991	0.50		µg/g	1	3/14/2005 5:29:00 PM
Cadmium	112	0.25		µg/g	1	3/14/2005 5:29:00 PM
Lead	72.4	0.25		µg/g	1	3/14/2005 5:29:00 PM
ICP METALS, TCLP SW1311/6010A(SW1311)						Analyst: **SM**
Barium-TCLP	8.57	0.10		mg/L	1	3/11/2005 4:50:00 PM
Cadmium-TCLP	0.90	0.05		mg/L	1	3/11/2005 4:50:00 PM
Lead-TCLP	0.14	0.05		mg/L	1	3/11/2005 4:50:00 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *15-Mar-05*

CLIENT:	Delaware Engineering	**Client Sample ID:**	SB-1-05(4-6 BGW)
Work Order:	050301024	**Collection Date:**	2/28/2005
Project:	Metals in Soil	**Lab Sample ID:**	050301024-031
PO#:	01-179	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B(SW3050A)						Analyst: **SM**
Barium	711	0.50		µg/g	1	3/14/2005 5:33:00 PM
Cadmium	74.9	0.25		µg/g	1	3/14/2005 5:33:00 PM
Lead	56.2	0.25		µg/g	1	3/14/2005 5:33:00 PM
ICP METALS, TCLP SW1311/6010A(SW1311)						Analyst: **SM**
Barium-TCLP	5.86	0.10		mg/L	1	3/11/2005 4:54:00 PM
Cadmium-TCLP	0.83	0.05		mg/L	1	3/11/2005 4:54:00 PM
Lead-TCLP	0.09	0.05		mg/L	1	3/11/2005 4:54:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *15-Mar-05*

CLIENT:	Delaware Engineering	**Client Sample ID:**	SB-1-05(8-10 BGW)
Work Order:	050301024	**Collection Date:**	2/28/2005
Project:	Metals in Soil	**Lab Sample ID:**	050301024-032
PO#: 01-179		**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B(SW3050A)						Analyst: **SM**
Barium	440	0.50		µg/g	1	3/14/2005 5:46:00 PM
Cadmium	80.8	0.25		µg/g	1	3/14/2005 5:46:00 PM
Lead	94.5	0.25		µg/g	1	3/14/2005 5:46:00 PM
ICP METALS, TCLP SW1311/6010A(SW1311)						Analyst: **SM**
Barium-TCLP	3.53	0.10		mg/L	1	3/11/2005 4:58:00 PM
Cadmium-TCLP	0.39	0.05		mg/L	1	3/11/2005 4:58:00 PM
Lead-TCLP	0.08	0.05		mg/L	1	3/11/2005 4:58:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

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EPA SAMPLE NO.

MW-6

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE 0501 SAS No.: SDG No.: MW-6

Matrix: (soil/water) WATER Lab Sample ID: MW-6

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 050401035-001C

Level: (low/med) LOW Date Received: 04/01/05

% Moisture: not dec. dec.______ Date Extracted: 04/01/05

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 04/07/05

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.065	U
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.24	
11096-82-5	-----Arochlor-1260	.065	U

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EPA SAMPLE NO.

MW-7

Lab Name: AES,INC.   Contract:

Lab Code: AES   Case No.: DE 0501   SAS No.:   SDG No.: MW-6

Matrix: (soil/water) WATER   Lab Sample ID: MW-7

Sample wt/vol: 1000.0 (g/mL) ML   Lab File ID: 050401035-002C

Level: (low/med) LOW   Date Received: 04/01/05

% Moisture: not dec.   dec.______   Date Extracted: 04/01/05

Extraction: (SepF/Cont/Sonc) SEPF   Date Analyzed: 04/07/05

GPC Cleanup: (Y/N) N   pH: 6.0   Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.065	U
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.065	U
11096-82-5	-----Arochlor-1260	.065	U

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EPA SAMPLE NO.

MW-8

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE 0501 SAS No.: SDG No.: MW-6

Matrix: (soil/water) WATER Lab Sample ID: MW-8

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 050401035-003C

Level: (low/med) LOW Date Received: 04/01/05

% Moisture: not dec. dec._____ Date Extracted: 04/01/05

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 04/07/05

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.065	U
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.065	U
11096-82-5	-----Arochlor-1260	.065	U

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EPA SAMPLE NO.

MW-9

Lab Name: AES,INC.   Contract:

Lab Code: AES   Case No.: DE 0501   SAS No.:   SDG No.: MW-6

Matrix: (soil/water) WATER   Lab Sample ID: MW-9

Sample wt/vol: 1000.0 (g/mL) ML   Lab File ID: 050401035-004C

Level: (low/med) LOW   Date Received: 04/01/05

% Moisture: not dec.   dec.______   Date Extracted: 04/01/05

Extraction: (SepF/Cont/Sonc) SEPF   Date Analyzed: 04/07/05

GPC Cleanup: (Y/N) N   pH: 6.0   Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.065	U
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.065	U
11096-82-5	-----Arochlor-1260	.065	U

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EPA SAMPLE NO.

MW-10

Lab Name: AES,INC.   Contract:

Lab Code: AES   Case No.: DE 0501   SAS No.:   SDG No.: MW-6

Matrix: (soil/water) WATER   Lab Sample ID: MW-10

Sample wt/vol: 1000.0 (g/mL) ML   Lab File ID: 050401035-005C

Level: (low/med) LOW   Date Received: 04/01/05

% Moisture: not dec.   dec.______   Date Extracted: 04/01/05

Extraction: (SepF/Cont/Sonc) SEPF   Date Analyzed: 04/07/05

GPC Cleanup: (Y/N) N   pH: 6.0   Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.065	U
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.065	U
11096-82-5	-----Arochlor-1260	.065	U

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EPA SAMPLE NO.

MW-12

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE 0501 SAS No.: SDG No.: MW-6

Matrix: (soil/water) WATER Lab Sample ID: MW-12

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 050401035-014C

Level: (low/med) LOW Date Received: 04/01/05

% Moisture: not dec. dec.______ Date Extracted: 04/01/05

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 04/07/05

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.065	U
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.065	U
11096-82-5	-----Arochlor-1260	.065	U

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EPA SAMPLE NO.

MW-13

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE 0501 SAS No.: SDG No.: MW-6

Matrix: (soil/water) WATER Lab Sample ID: MW-13

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 050401035-006C

Level: (low/med) LOW Date Received: 04/01/05

% Moisture: not dec. dec.______ Date Extracted: 04/01/05

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 04/07/05

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.065	U
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.065	U
11096-82-5	-----Arochlor-1260	.065	U

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EPA SAMPLE NO.

MW-14

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE 0501 SAS No.: SDG No.: MW-6

Matrix: (soil/water) WATER Lab Sample ID: MW-14

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 050401035-008C

Level: (low/med) LOW Date Received: 04/01/05

% Moisture: not dec. dec.______ Date Extracted: 04/01/05

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 04/07/05

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.065	U
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.20	
11096-82-5	-----Arochlor-1260	.065	U

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EPA SAMPLE NO.

MW-15

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE 0501 SAS No.: SDG No.: MW-6

Matrix: (soil/water) WATER Lab Sample ID: MW-15

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 050401035-009C

Level: (low/med) LOW Date Received: 04/01/05

% Moisture: not dec. dec.______ Date Extracted: 04/01/05

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 04/07/05

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.065	U
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.065	U
11096-82-5	-----Arochlor-1260	.065	U

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EPA SAMPLE NO.

MW-16

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE 0501 SAS No.: SDG No.: MW-6

Matrix: (soil/water) WATER Lab Sample ID: MW-16

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 050401035-010C

Level: (low/med) LOW Date Received: 04/01/05

% Moisture: not dec. dec.______ Date Extracted: 04/01/05

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 04/07/05

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.065	U
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.065	U
11096-82-5	-----Arochlor-1260	.065	U

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EPA SAMPLE NO.

MW-17

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE 0501 SAS No.: SDG No.: MW-6

Matrix: (soil/water) WATER Lab Sample ID: MW-17

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 050401035-011C

Level: (low/med) LOW Date Received: 04/01/05

% Moisture: not dec. dec.______ Date Extracted: 04/01/05

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 04/07/05

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.065	U
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.065	U
11096-82-5	-----Arochlor-1260	.065	U

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EPA SAMPLE NO.

MW-17A

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE 0501 SAS No.: SDG No.: MW-6

Matrix: (soil/water) WATER Lab Sample ID: MW-17A

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 050401035-012C

Level: (low/med) LOW Date Received: 04/01/05

% Moisture: not dec. dec.______ Date Extracted: 04/01/05

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 04/07/05

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.065	U
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.065	U
11096-82-5	-----Arochlor-1260	.065	U

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EPA SAMPLE NO.

MW-18

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE 0501 SAS No.: SDG No.: MW-6

Matrix: (soil/water) WATER Lab Sample ID: MW-18

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 050401035-013C

Level: (low/med) LOW Date Received: 04/01/05

% Moisture: not dec. dec.______ Date Extracted: 04/01/05

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 04/07/05

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.065	U
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.065	U
11096-82-5	-----Arochlor-1260	.065	U

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EPA SAMPLE NO.

X-1

Lab Name: AES,INC. Contract:

Lab Code: AES Case No.: DE 0501 SAS No.: SDG No.: MW-6

Matrix: (soil/water) WATER Lab Sample ID: X-1

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 050401035-007C

Level: (low/med) LOW Date Received: 04/01/05

% Moisture: not dec. dec.______ Date Extracted: 04/01/05

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 04/07/05

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	-----Arochlor-1016	.065	U
11104-28-2	-----Arochlor-1221	.065	U
11141-16-5	-----Arochlor-1232	.065	U
53469-21-9	-----Arochlor-1242	.065	U
12672-29-6	-----Arochlor-1248	.065	U
11097-69-1	-----Arochlor-1254	.065	U
11096-82-5	-----Arochlor-1260	.065	U

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EPA SAMPLE NO.

MW-6

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0501 SAS No.: ____ SDG No.: MW-6__

Matrix (soil/water): WATER_ Lab Sample ID: MW-6_______

Level (low/med): LOW___ Date Received: 04/01/05

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	131	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.35	B		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	6.8			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ________ Clarity Before: ________ Texture: ________

Color After: ________ Clarity After: ________ Artifacts: ________

Comments:

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EPA SAMPLE NO.

MW-7

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ______

Lab Code: AES__ Case No.: DE_0501 SAS No.: ____ SDG No.: MW-6__

Matrix (soil/water): WATER_ Lab Sample ID: MW-7______

Level (low/med): LOW___ Date Received: 04/01/05

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	9.2	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.67	B		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.9	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ______ Clarity Before: ______ Texture: ______

Color After: ______ Clarity After: ______ Artifacts: ______

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ______

Lab Code: AES__ Case No.: DE_0501 SAS No.: ____ SDG No.: MW-6__

Matrix (soil/water): WATER_ Lab Sample ID: MW-8_______

Level (low/med): LOW___ Date Received: 04/01/05

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	12.5	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	4.8			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ______ Clarity Before: ______ Texture: ______

Color After: ______ Clarity After: ______ Artifacts: ______

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-9

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0501 SAS No.: ____ SDG No.: MW-6__

Matrix (soil/water): WATER_ Lab Sample ID: MW-9_______

Level (low/med): LOW___ Date Received: 04/01/05

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	18.5	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.9	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ________ Clarity Before: ________ Texture: ________

Color After: ________ Clarity After: ________ Artifacts: ________

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-10

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0501 SAS No.: ____ SDG No.: MW-6__

Matrix (soil/water): WATER_ Lab Sample ID: MW-10______

Level (low/med): LOW___ Date Received: 04/01/05

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	28.2	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.9	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ________ Clarity Before: ________ Texture: ________

Color After: ________ Clarity After: ________ Artifacts: ________

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-12

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ______

Lab Code: AES__ Case No.: DE_0501 SAS No.: _____ SDG No.: MW-6__

Matrix (soil/water): WATER_ Lab Sample ID: MW-12______

Level (low/med): LOW___ Date Received: 04/01/05

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	17.7	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.9	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ______ Clarity Before: ______ Texture: ______

Color After: ______ Clarity After: ______ Artifacts: ______

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-13

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0501 SAS No.: ____ SDG No.: MW-6__

Matrix (soil/water): WATER_ Lab Sample ID: MW-13______

Level (low/med): LOW___ Date Received: 04/01/05

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	11.8	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.9	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ________ Clarity Before: ________ Texture: ________

Color After: ________ Clarity After: ________ Artifacts: ________

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-14

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0501 SAS No.: ____ SDG No.: MW-6__

Matrix (soil/water): WATER_ Lab Sample ID: MW-14______

Level (low/med): LOW___ Date Received: 04/01/05

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	27.3	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.9	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ________ Clarity Before: ________ Texture: ______

Color After: ________ Clarity After: ________ Artifacts: ______

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-15

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0501 SAS No.: ____ SDG No.: MW-6__

Matrix (soil/water): WATER_ Lab Sample ID: MW-15______

Level (low/med): LOW___ Date Received: 04/01/05

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	132	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.9	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ________ Clarity Before: ________ Texture: ________

Color After: ________ Clarity After: ________ Artifacts: ________

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-16

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0501 SAS No.: ____ SDG No.: MW-6__

Matrix (soil/water): WATER_ Lab Sample ID: MW-16______

Level (low/med): LOW___ Date Received: 04/01/05

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5_	Aluminum__		_		NR
7440-36-0_	Antimony__		_		NR
7440-38-2_	Arsenic___		_		NR
7440-39-3_	Barium____	42.7_	B		P_
7440-41-7_	Beryllium_		_		NR
7440-43-9_	Cadmium___	0.30_	U		P_
7440-70-2_	Calcium___		_		NR
7440-47-3_	Chromium__		_		NR
7440-48-4_	Cobalt____		_		NR
7440-50-8_	Copper____		_		NR
7439-89-6_	Iron______		_		NR
7439-92-1_	Lead______	6.3_	_		P_
7439-95-4_	Magnesium_		_		NR
7439-96-5_	Manganese_		_		NR
7439-97-6_	Mercury___		_		NR
7440-02-0_	Nickel____		_		NR
7440-09-7_	Potassium_		_		NR
7782-49-2_	Selenium__		_		NR
7440-22-4_	Silver____		_		NR
7440-23-5_	Sodium____		_		NR
7440-28-0_	Thallium__		_		NR
7440-62-2_	Vanadium__		_		NR
7440-66-6_	Zinc______		_		NR
7440-42-8_	Boron_____		_		NR

Color Before: ________ Clarity Before: ________ Texture: ________

Color After: ________ Clarity After: ________ Artifacts: ________

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-17

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ______

Lab Code: AES__ Case No.: DE_0501 SAS No.: ____ SDG No.: MW-6__

Matrix (soil/water): WATER_ Lab Sample ID: MW-17______

Level (low/med): LOW___ Date Received: 04/01/05

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	110	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.9	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ______ Clarity Before: ______ Texture: ______

Color After: ______ Clarity After: ______ Artifacts: ______

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-17A

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: ________

Lab Code: AES__ Case No.: DE_0501 SAS No.: ____ SDG No.: MW-6__

Matrix (soil/water): WATER_ Lab Sample ID: MW-17A_____

Level (low/med): LOW___ Date Received: 04/01/05

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	49.0	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.9	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ________ Clarity Before: ________ Texture: ________

Color After: ________ Clarity After: ________ Artifacts: ________

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-18

Lab Name: ADIRONDACK_ENVIRONMENTAL   Contract: ________

Lab Code: AES__   Case No.: DE_0501   SAS No.: ____   SDG No.: MW-6__

Matrix (soil/water): WATER_   Lab Sample ID: MW-18______

Level (low/med): LOW___   Date Received: 04/01/05

% Solids: ______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	1420			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	42.2			P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.9	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ________   Clarity Before: ________   Texture: ________

Color After: ________   Clarity After: ________   Artifacts: ________

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X-1

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: _________

Lab Code: AES__ Case No.: DE_0501 SAS No.: _____ SDG No.: MW-6__

Matrix (soil/water): WATER_ Lab Sample ID: X-1________

Level (low/med): LOW___ Date Received: 04/01/05

% Solids: _______

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium	11.9	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.9	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: ________ Clarity Before: _______ Texture: _______

Color After: ________ Clarity After: _______ Artifacts: _______

Comments:

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CONVENTIONALS ANALYSIS DATA SHEET

MW-6

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0501 SAS No.: SDG No.: MW-6

Matrix (soil/water): Water Lab Sample ID: 050401035-001

Level (Low/Med): Low Date Received: 04/01/05

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Fluoride	2360			EPA 300.0
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.2
Hexavalent Chromium				SW 7196

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

MW-7

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0501 SAS No.: SDG No.: MW-6

Matrix (soil/water): Water Lab Sample ID: 050401035-002

Level (Low/Med): Low Date Received: 04/01/05

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Fluoride	6440			EPA 300.0
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.2
Hexavalent Chromium				SW 7196

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

MW-8

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0501 SAS No.: SDG No.: MW-6

Matrix (soil/water): Water Lab Sample ID: 050401035-003

Level (Low/Med): Low Date Received: 04/01/05

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Fluoride	5320			EPA 300.0
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.2
Hexavalent Chromium				SW 7196

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MW-9

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0501 SAS No.: SDG No.: MW-6

Matrix (soil/water): Water Lab Sample ID: 050401035-004

Level (Low/Med): Low Date Received: 04/01/05

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Fluoride	5180			EPA 300.0
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.2
Hexavalent Chromium				SW 7196

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MW-10

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0501 SAS No.: SDG No.: MW-6

Matrix (soil/water): Water Lab Sample ID: 050401035-005

Level (Low/Med): Low Date Received: 04/01/05

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Fluoride	6160			EPA 300.0
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.2
Hexavalent Chromium				SW 7196

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MW-12

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0501 SAS No.: SDG No.: MW-6

Matrix (soil/water): Water Lab Sample ID: 050401035-014

Level (Low/Med): Low Date Received: 04/01/05

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Fluoride	170			EPA 300.0
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.2
Hexavalent Chromium				SW 7196

Comments

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MW-13

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0501 SAS No.: SDG No.: MW-6

Matrix (soil/water): Water Lab Sample ID: 050401035-006

Level (Low/Med): Low Date Received: 04/01/05

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Fluoride	100	U		EPA 300.0
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.2
Hexavalent Chromium				SW 7196

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CONVENTIONALS ANALYSIS DATA SHEET

MW-14

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0501 SAS No.: SDG No.: MW-6

Matrix (soil/water): Water Lab Sample ID: 050401035-008

Level (Low/Med): Low Date Received: 04/01/05

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Fluoride	6590			EPA 300.0
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.2
Hexavalent Chromium				SW 7196

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MW-15

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0501 SAS No.: SDG No.: MW-6

Matrix (soil/water): Water Lab Sample ID: 050401035-009

Level (Low/Med): Low Date Received: 04/01/05

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Fluoride	100	U		EPA 300.0
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.2
Hexavalent Chromium				SW 7196

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MW-16

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0501 SAS No.: SDG No.: MW-6

Matrix (soil/water): Water Lab Sample ID: 050401035-010

Level (Low/Med): Low Date Received: 04/01/05

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Fluoride	100	U		EPA 300.0
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.2
Hexavalent Chromium				SW 7196

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MW-17

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0501 SAS No.: SDG No.: MW-6

Matrix (soil/water): Water Lab Sample ID: 050401035-011

Level (Low/Med): Low Date Received: 04/01/05

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Fluoride	2120			EPA 300.0
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.2
Hexavalent Chromium				SW 7196

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CONVENTIONALS ANALYSIS DATA SHEET

MW-17A

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0501 SAS No.: SDG No.: MW-6

Matrix (soil/water): Water Lab Sample ID: 050401035-012

Level (Low/Med): Low Date Received: 04/01/05

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Fluoride	100	U		EPA 300.0
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.2
Hexavalent Chromium				SW 7196

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MW-18

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0501 SAS No.: SDG No.: MW-6

Matrix (soil/water): Water Lab Sample ID: 050401035-013

Level (Low/Med): Low Date Received: 04/01/05

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Fluoride	10400			EPA 300.0
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.2
Hexavalent Chromium				SW 7196

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CONVENTIONALS ANALYSIS DATA SHEET

X-1

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0501 SAS No.: SDG No.: MW-6

Matrix (soil/water): Water Lab Sample ID: 050401035-007

Level (Low/Med): Low Date Received: 04/01/05

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				EPA 351.3
Ammonia, as N				EPA 350.1
Nitrate				EPA 300.0
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)				EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate				EPA 300.0
Alkalinity				EPA 310.1
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Fluoride	100	U		EPA 300.0
Specific Conductance				EPA 120.1
Cyanide				EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.2
Hexavalent Chromium				SW 7196

Comments