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**CLOUGH, HARBOUR
& ASSOCIATES**

ENGINEERS, SURVEYORS, PLANNERS
& LANDSCAPE ARCHITECTS

**SUPPLEMENTAL SUBSURFACE INVESTIGATION
REPORT FOR THE
TOWN OF SAUGERTIES LANDFILL**

**SUPPLEMENTAL SUBSURFACE INVESTIGATION REPORT
FOR THE
TOWN OF SAUGERTIES LANDFILL**

March, 1995

CHA Project No. 3716.07.72

Prepared by:

**CLOUGH, HARBOUR & ASSOCIATES
ENGINEERS, SURVEYORS, PLANNERS &
LANDSCAPE ARCHITECTS**

**III Winners Circle
Albany, NY 12205**

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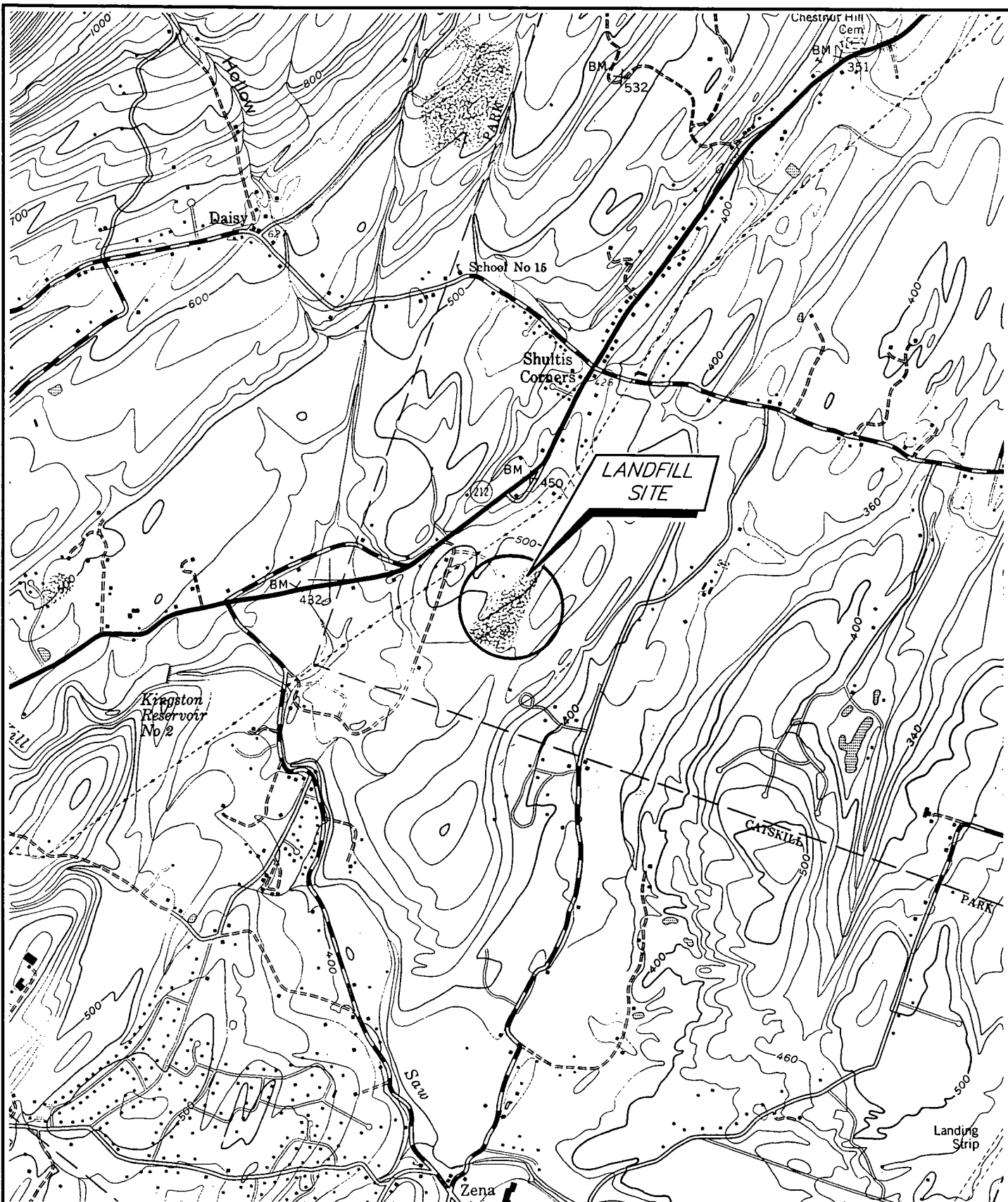
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1.0 INTRODUCTION

Clough, Harbour and Associates (CHA) has been retained by the Town of Saugerties to complete a Supplemental Subsurface Investigation Report (SSIR) for the Town of Saugerties Landfill. The Town of Saugerties Landfill is located directly east of NYS Rt. 212 in the southwest corner of the Town of Saugerties, Ulster County, New York (Figure 1-1). The work completed by CHA specifically addresses comments made by the New York State Department of Environmental Conservation (NYSDEC) regarding the SSIR previously submitted by Hazen and Sawyer in September 1993. The focus of NYSDEC comments, outlined in section 2.0 of this report, concerned the need to fully define the hydrogeology of the site. The investigations described in this report were performed in order to develop an understanding of the influence of site hydrogeology on groundwater contamination and potential offsite contaminant migration.

2.0 PROJECT BACKGROUND

In March of 1990, Gibbs and Hill submitted a Phase II Investigation of the Town of Saugerties Landfill to the NYSDEC. In September 1993, Hazen and Sawyer submitted a SSIR to the NYSDEC that was intended to address issues raised in Gibbs and Hill report. In January 1994, the NYSDEC provided comments regarding the adequacy of the Hazen and Sawyer SSIR to the Town of Saugerties. The comments focused on a fracture trace analysis, the need to supplement the existing monitoring network, and the need to resample both on-site monitoring wells and offsite residential wells. These comments are summarized below.



SOURCE: U.S.G.S. 7.5' Topographic
QUADRANGLE: WOODSTOCK, NY

SCALE: 1"=2000'



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SITE LOCATION MAP

TOWN OF SAUGERTIES LANDFILL
SAUGERTIES, NEW YORK

FIGURE 1-1

DATE: MARCH, 1995

The fracture trace analysis was incomplete because it did not include the following: copies of air photos used to identify fracture traces, individual fracture plane orientations (raw data), cumulative frequency plots (rose diagrams), or a detailed evaluation of rock fracture orientation as related to groundwater flow directions and the distribution of contaminants.

The NYSDEC stated that additional groundwater samples from monitoring wells and residential wells must be collected and analyzed. Analysis of arsenic and lead concentrations must be repeated because minimum detection limits utilized were greater than applicable groundwater quality standards. In addition, residential samples must be tested for volatile organic compounds (VOC) due to VOC detection in downgradient landfill monitoring wells.

As detailed in their January, 1994, letter to the Town, the NYSDEC stated that due to elevated parameters detected in bedrock monitoring well MW-6D, the location of MW-6D between the landfill and residences, and that MW-6D is the deeper monitoring well in a couplet (indicating downward contaminant migration), a deeper monitoring well must be installed adjacent to MW-6D. Through geophysical logging and discreet zone packer sampling, the vertical distribution of contaminants can be determined. Such information may be useful in evaluating the merits of lengthening residential well casings.

The Town of Saugerties retained the services of CHA to address these comments. CHA devised a work plan to complete the SSIR which was submitted to the NYSDEC on October 11, 1994.

3.0 PROJECT ELEMENTS

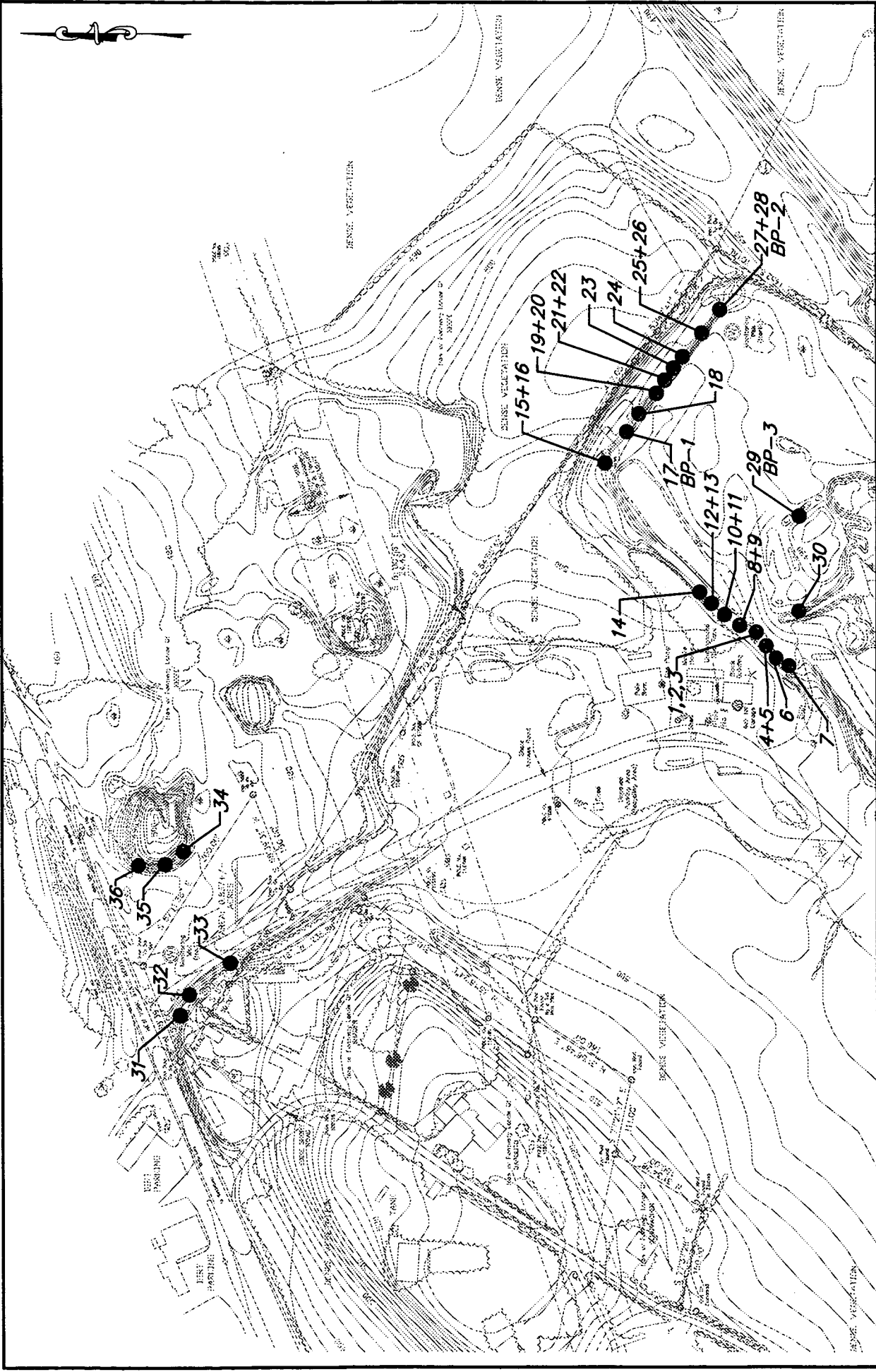
3.1 FRACTURE TRACE ANALYSIS

Objective - The objective of the fracture trace analysis was to determine the relationship between bedrock fracture orientation and predominant groundwater flow direction.

Method - There were two elements of work completed for the fracture trace analysis. The first work element consisted of field measurement of the orientation for joints and fractures observed in rock outcrops. The second work element consisted of examination of aerial photographs for presence of lineaments.

CHA investigated outcrops in the shale pit area to the northeast of the waste mass and in outcrops east and west of the landfill access road near route 212. Fracture locations are shown on Figure 3-1. The strike and dip of all observed fractures and joints were measured in the field by a CHA geologist on November 21, 1994. Measurements were taken on a total of 36 fractures. The strike and dip of bedding planes were also measured in three (3) locations. Measurements were taken using a Silva Ranger compass adjusted to compensate for the 13 degree westerly magnetic declination of the Saugerties area. Staining and any evidence of movement along fracture planes were noted.

The right hand rule was used in presenting the strike of fractures and bedding planes. Using the right hand rule, one orientation is selected for the strike of a linear feature (i.e. north, as opposed to north-south). The direction chosen is the line of sight of the observer looking down the



FRACTURE AND BEDDING PLANE LOCATION PLAN TOWN OF SAUGERTIES LANDFILL SAUGERTIES, NEW YORK

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strike of the fracture while viewing the fracture with the down dip direction oriented from right to left.

Aerial photos of the landfill vicinity were examined for the presence of lineaments indicative of faults or zones of increased fracturing. The horizontal scale of these photos is one (1) inch equals 700 feet. A field reconnaissance of lineaments identified in aerial photos was conducted on November 21, 1994, to determine the origins of the features noted. Aerial photos are included in Appendix I.

Results - A summary table of fracture and bedding orientations is presented in Table 3-1. A rose diagram plot of the strike and dip measurements is presented in Figure 3-2. The preferred fracture strike orientation is south-southwest. Of the 36 fractures measured, two-thirds, or 66 percent, occur between 180 and 240 degrees. Two (2) fractures from the 20 to 40 degree section were incorporated in this summation. Based on this analysis, the majority of fractures at the Town of Saugerties Landfill define a nearly vertical, subparallel fracture set which strikes south-southwest.

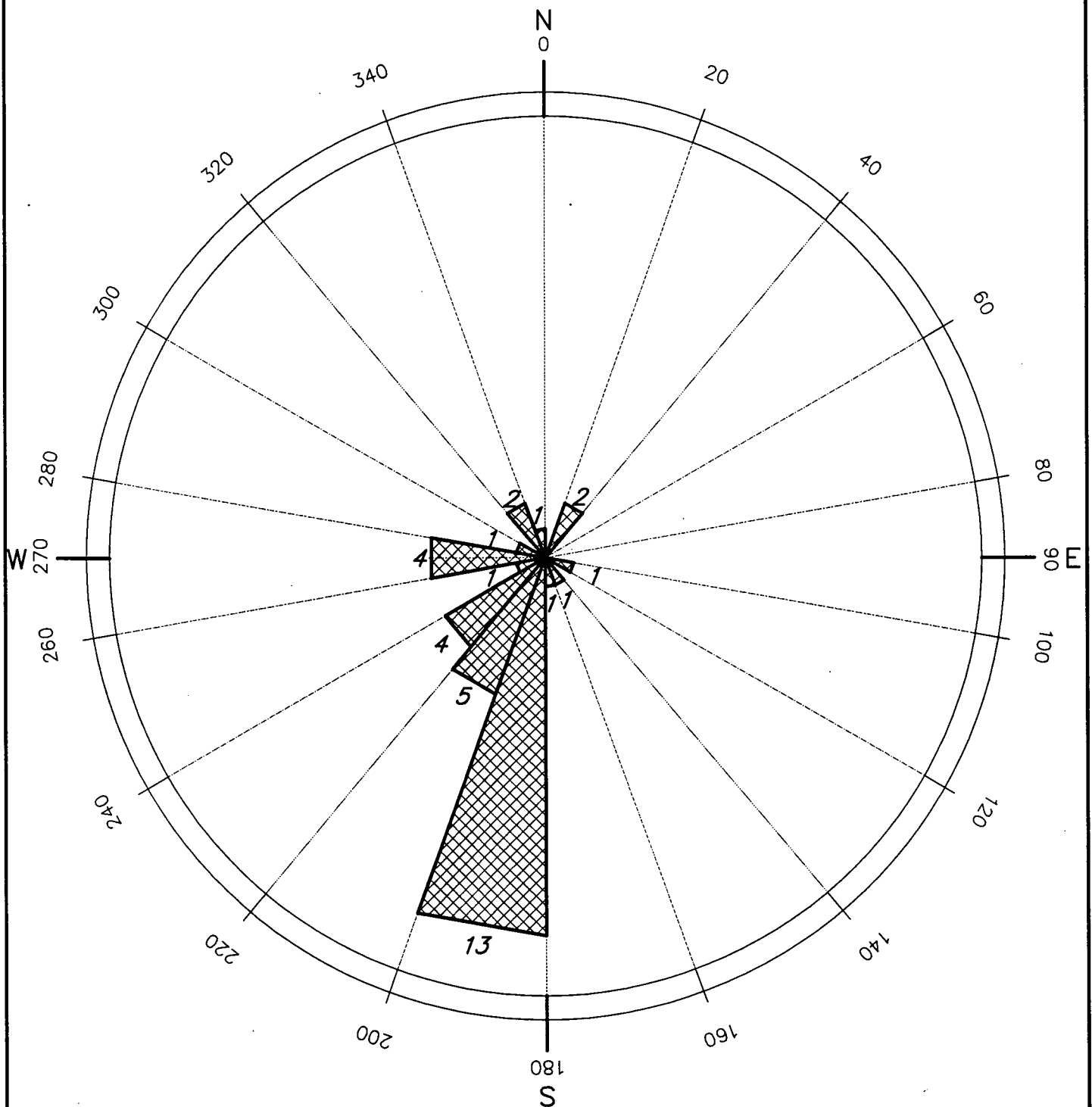
Two (2) lineaments were identified on aerial photos of the project vicinity. These features are located approximately 700 to 1400 feet east of the landfill. The lineaments appear as two (2) parallel bands of sparse tree coverage striking approximately northeast-southwest. Upon field examination it was determined that the areas of sparse tree coverage coincided with two (2) relatively steep slopes which decreased in elevation from west to east. The area between the slopes is a topographic bench. Relative to the more dense tree coverage on the topographically flat areas adjacent to the two (2) slopes, the sparse tree coverage on the slopes is attributed to the

TABLE 3-1

Fracture and Bedding Plane Orientations

Fracture	Strike	Dip	Notes
1	195°	82°	
2	275°	82°	
3	189°	84°	
4	202°	86°	
5	292°	90°	
6	188°	86°	
7	196°	86°	
8	152°	88°	
9	192°	88°	
10	198°	90°	
11	195°	80°	
12	197°	84°	
13	198°	86°	
14	198°	88°	
15	261°	76°	
16	176°	78°	
17	217°	79°	Orange staining
BP-1	81° ?	4°	
18	200°	76°	
19	222°	78°	
20	206°	82°	
21	222°	82°	
22	264°	80°	Orange staining
23	256°	84°	
24	220°	86°	

Fracture	Strike	Dip	Notes
25	260°	78°	
26	339°	84°	Possible slickensides
27	354°	90°	
BP-2	72° ?	3°	
28	208°	80°	
29	222°	84°	
BP-3	68° ?	3°	
30	328°	84°	
31	34°	80°	
32	38°	90°	
33	106°	80°	
34	184°	88°	
35	184°	86°	
36	186°	88	



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**ROSE DIAGRAM
FRACTURE ORIENTATIONS**
TOWN OF SAUGERTIES LANDFILL
SAUGERTIES, NEW YORK

FIGURE 3-2

DATE: MARCH, 1995

increased difficulty of tree development on sloped surfaces.

3.2 MONITORING WELL MW-6X

3.2.1 Boring Advancement

Objective - A deeper monitoring well, designated MW-6X, was advanced at the MW-6 cluster location to address both hydrogeologic and groundwater geochemical concerns. In their comment letter dated January 26, 1994, the NYSDEC stated that contamination detected in MW-6D during the July, 1993, sampling event was of special concern for two reasons: MW-6D is directly upgradient of residences showing water quality impacts, and MW-6D is the deep well in a cluster indicating that contamination has migrated downward in the bedrock aquifer. MW-6X was advanced to a depth of 200 feet to approximate the depth of the adjacent residential wells.

Additionally, shallow monitoring well MW-6S has been observed to be dry following installation. Therefore, because the two (2) wells previously installed in the well cluster do not screen separate hydrostratigraphic units, hydraulic head and water quality monitoring of two (2) discrete intervals could not be conducted. The advancement of MW-6X will allow for both vertical hydraulic head determinations and discrete water quality monitoring.

Methods - Advancement of MW-6X commenced on October 26, 1994, under the full time supervision of a CHA geologist. All drilling equipment was decontaminated with a high pressure steam cleaner prior to coming in contact with the subsurface. MW-6X is located approximately 20 feet south of existing wells MW-6S and MW-6D. Monitoring well locations are shown on Figure

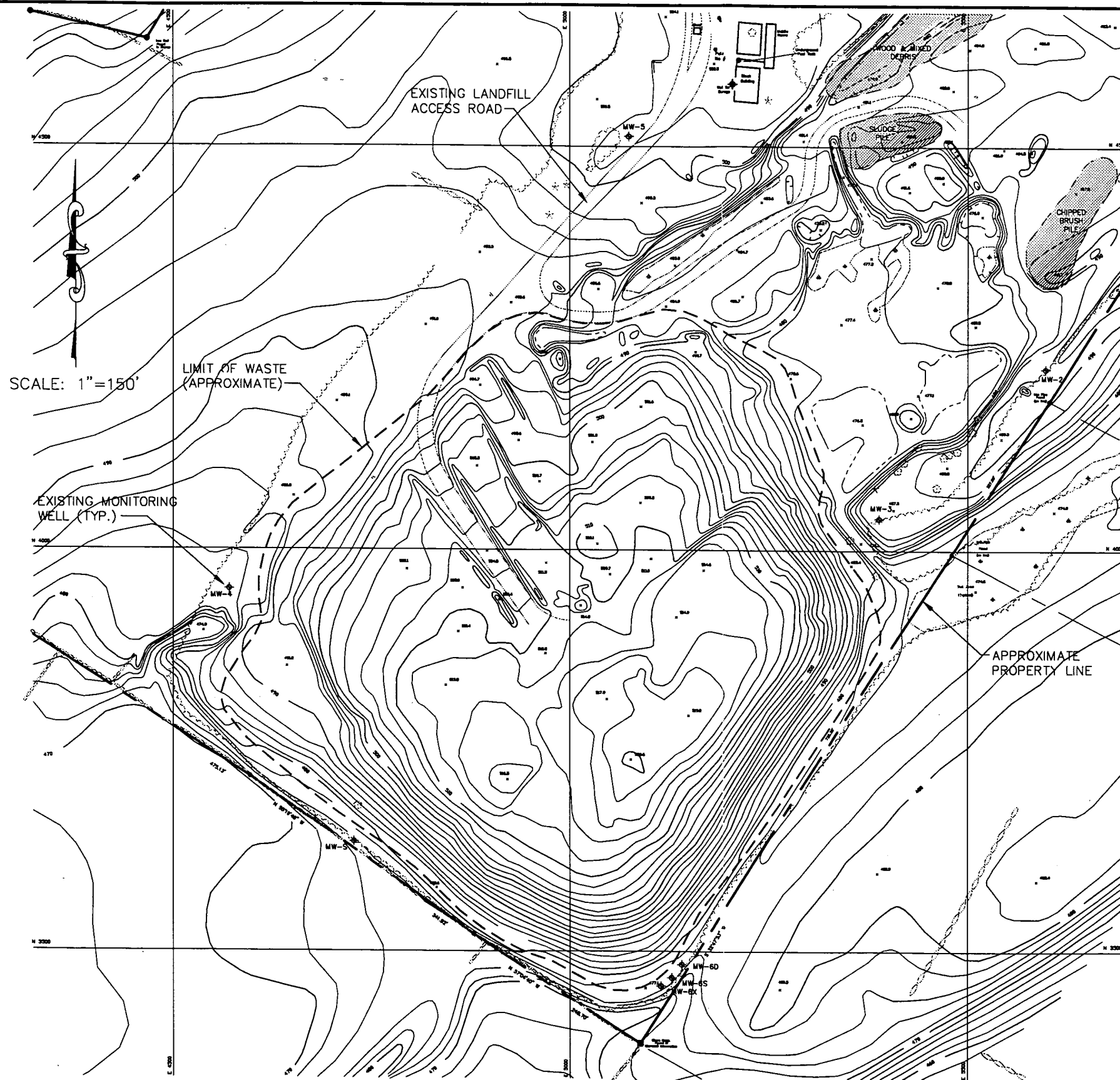
3-3. A six (6) inch diameter borehole was advanced with an air rotary drill rig from ground surface to a depth 50 feet. Four-inch diameter steel casing was installed and grouted in place to a depth of 50 feet (equivalent to total depth of MW-6D). After allowing the grout to set overnight, the borehole was advanced to a total depth of 200 feet. During drilling, a log of the borehole was kept through examination of drill cuttings.

Results - Stratigraphy encountered during drilling of MW-6X consisted of a thin veneer (10 ft) of overburden overlying interbedded siltstone and shale, with a sandstone unit from approximately 37 feet to 70 feet. A boring log of MW-6X is included in Appendix II. As was the case for MW-6D, an apparent water bearing fracture zone was identified approximately 24 feet below grade. An additional water bearing fracture was identified by the presence of water gain at a depth of 85 feet.

The static water level in the borehole after sealing the upper 24 foot fracture zone is at a depth of approximately 71 feet below ground surface.

3.2.2 Geophysical Logging

Objective - The objective of performing geophysical logging was to identify water-bearing fracture zones in the bedrock unit.



SURVEY NOTES:

1. SURVEYED BY PRAETORIUS AND CONRAD, P.C., SAUGERTIES N.Y. IN ACCORDANCE WITH DEEDS OF RECORD; PHYSICAL FEATURES FOUND AT THE TIME OF THE FIELD SURVEY; AND AS IN POSSESSION.
 2. DATE OF FIELD SURVEY: 14 DECEMBER 1992.
 3. BEARING DATUM IS MAGNETIC AND WAS DETERMINED AT THE TIME OF THE FIELD SURVEY.
 4. SUBJECT TO THE RIGHTS OF THE PUBLIC IN AND TO THE PUBLIC ROADS KNOWN AS NEW YORK STATE ROUTE 212 AND EDDIE SHORT ROAD.
 5. DEEDS OF RECORD: a) CHARLES E. KEEFE TO THE TOWN OF SAUGERTIES, DATED 14 OCTOBER 1969, LIBER 1234 PAGE 1184; b) FREDERICK C. SHADER TO THE TOWN OF SAUGERTIES, DATED 31 MARCH 1970, LIBER 1301 PAGE 675.
- THIS PARCEL OF LAND WAS SURVEYED IN ACCORDANCE WITH THE ABOVE REFERENCED DEEDS OF RECORD AND IS SUBJECT TO ANY STATE OF FACTS WHICH AN ACTUAL EXAMINATION OF TITLE WOULD SHOW.
6. THE LOCATION OF MW-5, MW-6, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-21, MW-22, MW-23, MW-24, MW-25, MW-26, MW-27, MW-28, MW-29, MW-30, MW-31, MW-32, MW-33, MW-34, MW-35, MW-36, MW-37, MW-38, MW-39, MW-40, MW-41, MW-42, MW-43, MW-44, MW-45, MW-46, MW-47, MW-48, MW-49, MW-50, MW-51, MW-52, MW-53, MW-54, MW-55, MW-56, MW-57, MW-58, MW-59, MW-60, MW-61, MW-62, MW-63, MW-64, MW-65, MW-66, MW-67, MW-68, MW-69, MW-70, MW-71, MW-72, MW-73, MW-74, MW-75, MW-76, MW-77, MW-78, MW-79, MW-80, MW-81, MW-82, MW-83, MW-84, MW-85, MW-86, MW-87, MW-88, MW-89, MW-90, MW-91, MW-92, MW-93, MW-94, MW-95, MW-96, MW-97, MW-98, MW-99, MW-100 HAVE NOT BEEN SURVEYED AND ARE ONLY SHOWN IN THEIR APPROXIMATE LOCATIONS.
 7. MONITORING WELLS MW-4 AND MW-1 LOCATED OUTSIDE LIMITS OF PLAN.



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SITE PLAN **TOWN OF SAUGERTIES LANDFILL** **SAUGERTIES, NEW YORK**

FIGURE 3-3

DATE: MARCH, 1995

Methods - Geophysical borehole logging was performed on the open borehole of MW-6X by Hager-Richter Geoscience, Inc. on November 1, 1994, under the full time supervision of a CHA geologist. A Colog MGX Digital logging system was used. The automatic cable spool used to lower and raise tools in the borehole was operated at a rate of ten (10) feet per minute. The Hager Richter report is presented in Appendix III.

The logs run included temperature, caliper, resistivity, spontaneous potential, single point resistivity, and natural gamma. Temperature logs are used in determining depths of water bearing fractures based on the assumption that fresh water entering the borehole will have a different temperature than stagnant water stored in the borehole. Caliper logs measure the diameter of the borehole. Borehole diameter increases are indicative of potentially fractured intervals. The natural gamma log is used to crudely differentiate lithology based on the assumption that clays contain a higher proportion of radioactive minerals than other particles. The resistivity logs are generally reflective of the porosity and electrical conductivity of pore fluids.

Two temperature logs were run on the borehole. Prior to starting the second log, the borehole was pumped for a period of approximately 20 minutes to partially purge the standing well volume and induce increased flow from contributing fractures.

Results - The geophysical logging indicated that potential fracture zones were present at depths of 82, 106, 110, and 124 feet below grade. However, a deflection in the caliper log noted

at 124 feet below grade did not correlate with any change in temperature. The natural gamma log showed little variation with depth and therefore was not particularly useful in further defining the subsurface stratigraphy. The resistivity logs did not indicate any correlation with the temperature or caliper logs and, therefore, were not helpful in locating fractures.

The results of this work indicate that water-bearing fractures are located at 82 and 106 feet below grade. Other apparent fractures at depths of 110 and 124 feet below grade do not appear to be water-bearing.

3.2.3 Discreet Zone Packer Sampling

Objective - Discrete water samples were collected from fracture zones identified through interpretation of the drilling and geophysical logs in order to determine the vertical distribution of contaminants in the bedrock aquifer. Determination of potential contaminant transport in the deeper portion of the bedrock aquifer is an integral part of evaluating site hydrogeology and residential groundwater quality.

Methods - Samples were collected on November 2, 1994. The sampling device used was a double packer system designed for a four (4) inch diameter borehole with a Grundfos Rediflow 2 submersible pump mounted between the packers. All equipment was decontaminated with a high pressure steam cleaner. Samples were collected from three (3) discrete intervals after 60 to 80

gallons of water were removed from each interval. During sample collection, the water level in the borehole above the upper packer was monitored to determine whether the test interval was completely isolated. The discharge water from each interval was analyzed in the field for temperature, specific conductance, pH, Eh, turbidity, and dissolved oxygen. Samples were submitted to Adirondack Environmental Services (AES), a laboratory approved by the New York State Department of Health for analysis of 6 NYCRR 360- 2.11(d)(6) Routine parameters, plus arsenic.

Water samples were collected from the intervals of 79-87, 104.5-112.5, and 121-129 feet below grade. The 121-129 foot interval was tested first. It should be noted that as this test was being run, a drop in water level of 0.79 feet was recorded in the borehole which may indicate that the test interval did not produce a substantial quantity of water. The vacuum created between the packers may have drawn water from outside the sampling interval past the packers.

The results of the field analyses are shown on the Field Data Sheets included in Appendix IV. Little to no difference is noted in the pH, conductivity, or dissolved oxygen content between the test intervals. The Eh and temperature of the water from the interval of 104.5-112.5 feet were different from the values of those two (2) parameters in pther two (2) intervals tested. The turbidity of all samples was 17 NTU, or below, at the time of collection.

A summary of the laboratory analysis results from the three (3) samples is presented in Table 3-2. The complete set of laboratory test data is included in Appendix V. The laboratory results show little to no difference between the three (3) test intervals with two exceptions; iron and sodium. The concentration of iron in the interval 104.5-112.5 feet below grade was less than half that measured in the other intervals and the concentration of sodium in the interval from 79-87 feet below grade was almost 20% higher than that measured in the other two intervals.

Of significance, the concentration of arsenic ranged between 0.021 and 0.026 mg/l; close to the regulatory standard of 0.025 mg/l. Lead was not detected in any of the water samples above the detection limit of 0.005 mg/l. Concentrations of total dissolved solids, total Kjeldahl nitrogen, iron, manganese, sodium, and chloride all exceed water quality standards. However, the concentration of iron and manganese measured from the three (3) test intervals in MW-6X are significantly lower than those measured in the three (3) residential wells closest to the landfill (Kanover, Lerner, and Perez). On the other hand, concentrations of sodium, chloride, and total dissolved solids in the three (3) samples from MW-6X are much higher than the concentrations measured in the same three (3) residential wells mentioned above.

TABLE 3-2
LABORATORY WATER QUALITY DATA
PACKER SAMPLING OF MW-6X

PARAMETER	79-87 ft.	104.5-112.5 ft	121-129 ft.	STANDARD
pH (su)	7.2	7.1	7.1	6.5-8.5
Eh (mv)	202	195	194	None
Turbidity (ntu)	27	11	40	50
Spec. Conductance (umhos/cm)	2410	2410	2430	None
TDS (mg/l)	1500	1440	1450	500
COD (mg/l)	102	104	104	None
TOC (mg/l)	37	37	37	None
Sulfate (mg/l)	31	32	31	250
Alkalinity (mg/l)	860	860	750	None
Chloride (mg/l)	250	245	294	250
TKN (mg/l)	2.0	1.7	5.0	0.5
BOD (mg/l)	4	4	<2	None
Bromide (mg/l)	1.7	1.8	1.5	2
Hardness (mg/l)	168	170	161	None
Ammonia-N (mg/l)	0.2	0.3	0.4	2
Nitrate-N (mg/l)	<0.02	<0.02	<0.02	10
Tot. Phenols (mg/l)	<0.002	<0.002	<0.002	0.001
Calcium (mg/l)	56.6	56.4	53.8	None
Cadmium (mg/l)	<0.005	<0.005	<0.005	0.01
Iron (mg/l)	1.20	0.57	1.34	.300
Lead (mg/l)	<0.005	<0.005	<0.005	0.025
Manganese (mg/l)	0.71	0.82	0.70	.300
Magnesium (mg/l)	6.6	6.9	6.6	35
Potassium (mg/l)	2.6	2.9	2.3	None
Sodium (mg/l)	662	561	565	20-270
Arsenic (mg/l)	0.026	0.021	0.024	0.025

The water chemistry appears to be virtually the same from the two (2) water-bearing fracture zones. Comparison of the water chemistry from MW-6X to that of downgradient residential wells shows that the water from MW-6X is much lower in iron and manganese but much higher in sodium and chloride than the residential wells.

3.2.4 Rock Pressure Hydraulic Conductivity Testing

Objective - Rock pressure hydraulic conductivity testing was conducted to determine the hydraulic conductivity of the fractures identified through geophysical logging and to test for the presence of fractures not identified previously. The hydraulic conductivity of fractures is important in evaluating contaminant transport.

Methods - On November 7, 1994, rock pressure hydraulic conductivity tests were performed on the entire open interval of the borehole. For these tests, potable water was pumped into discrete intervals of the borehole, isolated by a double packer system. All downhole equipment was decontaminated with a high pressure steam cleaner. The pressure and rate of water pumped into the test section were recorded and the data was used to calculate hydraulic conductivity.

Results - The results of the packer permeability testing showed that only two (2) test intervals took any water. Those intervals were 78-85.5 and 100.5-108 feet below grade respectively. In both intervals, water was pumped into the section at the highest rate the drilling rig was capable of

pumping. Consequently, the hydraulic conductivity calculated for each interval (1.87×10^{-3} cm/sec and 1.68×10^{-3} cm/sec, respectively) noted on Table 3-3 represent minimum values. Rock pressure test logs are included in Appendix VI.

Of note, the intervals from 108-115.5 and 122-129.5 feet below grade did not take water. Therefore, even though the caliper log indicated a widening of the borehole at depths of 110 and 124 feet below grade, it seems apparent that water-bearing fractures do not exist at these depths.

3.3 MONITORING WELL SAMPLING

Objective - Groundwater samples were collected from the on-site monitoring wells to supplement the existing groundwater quality database for the site. Previous sampling events were either limited in scope or considered inadequate by the NYSDEC because laboratory method detection limits were greater than applicable regulatory limits. A complete database of on site water quality is integral part of assessing landfill-derived impacts on local and regional groundwater quality.

Methods - Monitoring wells MW-N, MW-S, MW-1, MW-2, MW-3, MW-4, MW-6D, and MW-6X were sampled from December 12 through 14, 1994. Monitoring well locations are shown on Figure 3-3. Monitoring wells MW-5 and MW-6S were found to be collapsed and could not be sampled. Groundwater sampling methodologies are described in Standard Operating Procedures

TABLE 3-3
CALCULATION OF HYDRAULIC CONDUCTIVITY
FROM ROCK PRESSURE TESTS
FOR TEST SECTIONS BELOW WATER TABLE

$K = Q / (2 \cdot \pi \cdot L \cdot H) \cdot \ln(L/r)$ where: K = hydraulic conductivity (cm/sec) Q = flow rate (gpm) L = length of test section (ft) ** H = differential head (ft) r = radius of hole (in) ** H = distance from water table to swivel plus applied pressure (psi) converted to feet of water				
To Convert to equivalent units, Enter Raw Data in Columns A and C.				
	A	B	C	D
HOLE NO.		MW-6X		MW-6X
TEST NO.		16		13
TEST SECTION INTERVAL		78.0-85.5		100.5-108
DATE		11/7/94		11/7/94
Flow Rate (gpm to cubic m/sec)	18.5	0.001851	16.28	0.001629
Length of Section (ft to m)	7.5	2.286	7.5	2.286
Radius of hole (in to m)	2	0.0508	2	0.0508
Depth to Water (ft to m)	80.55	24.55164	80.55	24.55164
Height of Swivel (ft to m)	5.5	1.6764	3.5	1.0668
Pressure (psi to m)	0	0	0	0
Calculate H (m)		26.22804		25.61844
Calculate Permeability (m/sec)		0.000019		0.000017
Calculate Permeability (cm/sec)		1.87e-03		1.68e-03

(SOP) 207, 313, 501, 609, and 613 included in Appendix VII. As detailed in SOP 313, Groundwater Sampling, an inertial pump system was used to collect the groundwater samples. Wells were purged until field parameters stabilized and the lowest possible turbidity in the groundwater discharged from the well was obtained. Field data sheets are included in Appendix VIII.

Samples were analyzed for 6 NYCRR 360-2.11(d)(6) Expanded Parameters. Samples were delivered to Adirondack Environmental Services Inc. (AES) in Albany, New York, for analysis. Data validation was conducted on samples MW-4 and MW-6D by ERM-Northeast. The validation report is presented in Appendix X.

Results - Complete analytical laboratory results are included in Appendix IX. Results are summarized in Table 3-4. Groundwater results have been evaluated by comparing water quality at downgradient wells to an upgradient well and against applicable state and federal water quality.

Previous reports have designated monitoring well MW-5 as the upgradient monitoring point. This designation has been based on the fact that MW-5 appears to be located near a groundwater divide for the site and is hydraulically upgradient of all other locations. However, review of historical water quality sampling results have shown elevated levels of leachate indicators in this well which may be attributed to the proximity of the well to the waste mass. Furthermore, as mentioned above, well MW-5 has apparently collapsed preventing collection of any samples from the well.

TABLE 3-4

LABORATORY RESULTS
MONITORING WELL SAMPLING
DECEMBER 1994

TEST PARAMETER	MONITORING WELL							
	MW-N	MW-S	MW-1	MW-2	MW-3	MW-4	MW-6D	MW-6X
pH	7.0	6.6	7.7	6.1	6.2	6.7	6.7	6.9
Eh	226	267	209	217	264	247	245	249
(Turbidity)	41	(59)	44	26	30	34	(51)	17
Color	30	40	15	20	25	10	20	25
Specific Conductance	4 768	2 2200	2 404	1 151	5 975	3 612	7 1820	6 1680
Total Dissolved Solids	5 575	7 (1090)	2 233	1 93	4 540	3 368	8 (1150)	6 (985)
Chemical Oxygen Demand	2 22	2 160	7 90	3 38	5 72	1 12.4	4 66	6 72.6
Biochemical Oxygen Demand	1 <2	2 11	1 <2	1 <2	6 3	1 <2	1 <2	7 5
Total Organic Carbon	4 10	2 49	1 1.7	2 3.7	5 12	3 4.7	6 22	7 23
(Sulfate)	2 (262)	4 46.5	1 13.2	2 20.8	6 110	7 138	5 51.8	3 30.5
Alkalinity	3 170	7 576	4 188	1 32	5 352	2 116	6 546	2 592
(Chloride)	2 9	6 81.5	2 9	1 4	4 40	5 43	8 (250)	7 190
Bromide	<1	2.4	<1	1.2	<1	1.6	1.2	2.6
Total Kjeldahl Nitrogen	5 1.4	2 61.3	1 <1	1 <1	7 14	1 <1	4 1.12	6 1.68
(Ammonia)	1 <0.1	2 (6.02)	1 <0.1	1 <0.1	7 1.41	1 M0.1	1 <0.1	6 0.252
Nitrate	4 0.14	7 1.94	1 0.045	8 2.0	3 0.079	5 0.16	6 0.69	2 0.051
Phenols	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cyanide	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sulfide	<0.1	<0.1	<0.1	<0.1	1.36	<0.1	<0.1	<0.1
Hexavalent Chromium	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Hardness	6 325	7 482	1 11	2 47	5 271	4 224	8 685	3 159
Aluminum	0.744	0.478	0.425	0.28	0.082	0.253	0.302	0.07
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
(Arsenic)	1 <0.005	1 (<0.037)	1 <0.005	1 <0.005	1 <0.005	1 <0.005	7 0.018	8 0.023
Barium	6 0.289	5 0.270	2 0.079	1 0.037	4 0.268	3 0.086	8 0.874	7 0.426
Beryllium	0.001	<0.0007	<0.0007	0.0009	0.001	0.0009	<0.0007	<0.0007
(Boron)	2 0.188	7 0.867	1 0.153	8 (1.07)	4 0.325	3 0.232	5 0.432	6 0.606
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Calcium	102	142	3.67	13.5	79.7	69.8	219	52.4
Chromium	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.006
	54	99	28	34	71	38	84	88

54 99 28 34 71 38 84 28

TEST PARAMETER	MONITORING WELL							
	MW-N	MW-S	MW-1	MW-2	MW-3	MW-4	MW-6D	MW-6X
Cobalt	<0.007	0.008	<0.007	<0.007	<0.007	<0.007	0.007	<0.007
Copper	0.011	0.028	<0.002	0.013	0.005	<0.002	0.036	<0.002
Iron	4 17.55	7 5.91	2 0.696	1 0.494	8 6.23	3 0.73	6 3.91	5 1.87
Lead	0.003	0.003	<0.003	<0.003	<0.003	0.004	<0.003	<0.003
Magnesium	17	31	0.368	3.29	17.4	12	33.5	6.83
Manganese	3 0.104	8 9.2	1 0.054	2 0.08	7 7.96	5 1.69	6 4.05	4 0.745
Mercury	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004
Nickel	0.015	0.036	<0.01	<0.01	<0.01	0.016	0.028	0.022
Potassium	1.65	59.5	<0.61	2.06	18.3	3.78	2.52	2.29
Selenium	0.003	<0.002	<0.002	<0.011	<0.002	<0.002	<0.002	<0.002
Silver	0.004	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Sodium	2 12.5	7 167	5 87.5	1 3.95	4 62.4	3 25.3	6 98.9	8 334
Thallium	<0.004	<0.034	<0.004	<0.004	<0.004	<0.004	<0.034	<0.034
Tin	0.514	0.418	0.504	0.536	0.396	0.708	0.537	0.842
Vanadium	<0.004	0.023	<0.004	<0.004	<0.004	<0.004	0.02	<0.004
Zinc	0.06	0.062	0.03	0.018	0.01	0.005	0.039	0.032
Volatile Organics ug/L	<MDL		<MDL	<MDL			<MDL	<MDL
Benzene		1			1			
Chlorobenzene		6			1			
1,1-Dichloroethane						5		
1,1,1-Trichloroethane						4		
Semivolatile Organics	<MDL	<MDL	<MDL	<MDL		<MDL	<MDL	<MDL
1,4-Dichlorobenzene					2			
PCBs	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Pesticides ug/L	<MDL		<MDL	<MDL				
Phorate ND		0.25			0.19		0.19	0.098
Dimethoate		0.10					0.075	
Disulfoton ND		2.4			0.30			0.15
Methyl Parathion 1.5		0.18						
Parathion 1.5		0.048						
Kepone ND		0.06				0.014	0.011	
Herbicides	<MDL	<MDL	<MDL	<MDL		<MDL		
Dinoseb 1.0					18		30	15

WRONG → All concentrations expressed in milligrams per liter (mg/l).

63 121 36 38 90 49 102 105

MW-S > MW6X > MW6D > MW3 > MW-N > MW4 > MW2 > MW1

As an alternative to using well MW-5 as an upgradient monitoring point, after review of laboratory results, it is apparent that monitoring well MW-1 has the lowest concentration for a majority of the parameters tested and that groundwater geochemistry in the vicinity of MW-1 is free of leachate indicator parameters. This is likely a result of the distance between MW-1 and the main landfill waste body. Therefore, parameter concentrations in MW-1 are considered representative of background water quality in the region and will be used for comparison purposes.

Table 3-5 summarizes the parameters that exceed the background concentrations by greater than three (3) times and the parameters that exceed water quality standards. In general, all wells surrounding the landfill indicate there has been an impact to groundwater quality. Well MW-S located along the southern boundary of the landfill appears to show the greatest impact. Wells MW-6D and MW-6X show similar concentrations of many parameters, but MW-6X is different than MW-6D in that it contains much lower concentrations of iron, manganese, calcium, and magnesium, but a much higher concentration of sodium. Wells MW-6D and MW-6X were the only 2 landfill wells that contained arsenic. Several monitoring wells, including MW-S, MW-3, and MW-4 contained volatile organic compounds. These same three wells and MW-6D and MW-6X also contained pesticides.

TABLE 3-5

ELEVATED PARAMETER LIST ^a
MONITORING WELL SAMPLING
DECEMBER 1994

TEST PARAMETER	MONITORING WELL							
	MW-N	MW-S	MW-1	MW-2	MW-3	MW-4	MW-6D	MW-6X
pH			7.7	6.1	6.2			
Turbidity		59	44				51	
Specific Conductance	768	2200	404		975		1820	1680
Total Dissolved Solids	575	1090	233		540		1150	985
Chemical Oxygen Demand	22	160	90	38	72	12.4	66	72.6
Biochemical Oxygen Demand		11	<2					5
Total Organic Carbon	10	49	1.7		12	4.7	22	23
Sulfate	262	46.5	13.2		110	138	51.8	30.5
Alkalinity	170	576	188		352		546	592
Chloride		81.5	(9)		40	43	250	190
Total Kjeldahl Nitrogen		61.3	<1		14			
Ammonia		6.02	<0.1		1.41			0.252
Nitrate		1.94	0.045	2.0		0.16	0.69	
Sulfide			<0.1		1.36			
Hardness	325	482	11	47	271	224	685	159
Arsenic			<0.005				0.018	0.023
Barium	0.289	0.270	0.079		0.268		0.874	0.426
Boron		0.867	0.153	1.07				0.606
Calcium	102	142	3.67	13.5	79.7	69.8	219	52.4
Iron		5.91	0.696		6.23		3.91	
Magnesium	17	31	0.368	3.29	17.4	12	33.5	6.83
Manganese		9.2	0.054		7.96	1.69	4.05	0.745
Potassium	1.65	59.5	<0.61	2.06	18.3	3.78	2.52	2.29
Sodium		167	87.5		62.4	25.3	98.9	334
Vanadium		0.023	<0.004			0.02		
Benzene		1	<.010		1			
Chlorobenzene		6	<.010		1			
1,1-Dichloroethane			<.010			5		
1,1,1-Trichloroethane			<.010			4		
1,4-Dichlorobenzene			<.010		2			
Phorate		0.25	<.0005		0.19		0.19	0.098
Dimethoate		0.10	<.0005				0.075	
Disulfoton		2.4	<.0005		0.30			0.15
Kepone		0.06	<.0005			0.014	0.011	
Dinoseb			<.0005		18		30	15

^a Elevated Parameters defined as those greater than 3x the concentration in MW-1. All values are listed for MW-1.

Shaded Values Exceed Water Quality Concentrations.

All concentrations expressed in milligrams per liter (mg/l).

3.3 RESIDENTIAL WELL SAMPLING

Objective - The objective of collecting groundwater samples from the residential wells adjacent to the Town landfill was to extend the database for residential water quality. Further, the most recent round of sample results is to be used in combination with results from the landfill monitoring wells to better understand regional water quality.

Methods - Residential water quality samples were collected by the New York State Department of Health (NYSDOH) on January 5, 1995. Samples were collected from the Abrams, Arsenak (formerly Salyer), Heller, Lerner, Mullen, Perez, and Sharpe residences, all located on Sawood Lane southeast of the landfill. Samples were collected prior to any groundwater treatment systems.

Results - A summary of residential water quality results is presented in Table 3-6. An historical summation for key parameters is presented in Table 3-7. The complete laboratory data set is included in Appendix XI.

Concentrations of total dissolved solids, iron, and manganese exceeded water quality standards at the Abrams, Lerner, and Perez residences. In addition, ammonia and arsenic exceeded water quality standards at the Lerner residence; manganese exceeded the water quality standard at

TABLE 3-6

LABORATORY RESULTS
RESIDENTIAL WELL SAMPLING
JANUARY 1995

TEST PARAMETER	RESIDENCE						
	ABRAMS	ARSENAK	HELLER	LERNER	MULLEN	PEREZ	SHARPE
pH	7.03	6.79	6.80	6.78	6.74	7.00	6.76
Total Dissolved Solids	551	178	245	627	351	666	297
Chemical Oxygen Demand	35	7.1	2.4	29	9.5	41	3.6
Sulfate	30.7	24.6	24.9	39.4	26.0	32.4	35.0
Alkalinity to pH 4.5	277	54	94	286	156	352	104
Chloride	128	52.2	46.0	160	98.8	151	65.6
Nitrogen, Ammonia, as N	0.44	0.023	0.015	2.71	0.050	1.18	0.12
Nitrogen, Nitrate (+NO ₂) As N	0.55	0.78	1.07	<0.02	0.41	0.23	<0.02
Hardness	197	70	133	323	154	267	4
Aluminum	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Antimony	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075
Arsenic	<0.010	<0.010	<0.010	0.041	<0.010	<0.010	<0.010
Barium	0.345	0.031	0.129	0.480	0.158	0.493	0.028
Beryllium	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Calcium	63.3	20.1	40.5	103	48.1	86.5	1.4
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.021	0.066	0.036	0.014	0.035	0.053	0.007
Iron	1.340	0.023	0.036	2.080	<0.010	1.630	0.605
Lead	0.009	<0.005	<0.005	0.006	<0.005	0.016	<0.005
Magnesium	9.4	4.7	7.7	15.8	8.3	12.3	<0.5

TEST PARAMETER	RESIDENCE						
	ABRAMS	ARSENAK	HELLER	LERNER	MULLEN	PEREZ	SHARPE
Manganese	4.470	<0.005	0.055	8.190	0.357	2.800	0.040
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Nickel	<0.005	<0.005	<0.005	0.007	<0.005	0.006	<0.005
Potassium	1.8	1.0	1.0	3.5	1.1	2.6	0.6
Selenium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Silver	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Sodium	106	34.8	19.3	60.1	62.7	108	100
Strontium	0.859	0.107	0.472	0.769	0.774	1.070	<0.050
Thallium	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075
Tin	<0.050	<0.050	<0.050	<0.050	<0.050	0.185	<0.050
Titanium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.026	0.014	0.019	0.013	0.989	0.012	<0.010
Volatile Organic Compounds	<0.0005	<0.0005	<0.0005		<0.0005		<0.0005
Chloromethane						0.0005	
Chlorobenzene				0.0006			

All concentrations expressed in milligrams per liter (mg/l).

TABLE 3-7
SUMMARY OF RESIDENTIAL WELL SAMPLING RESULTS
NEAR TOWN OF SAUGERTIES LANDFILL

WATER QUAL. STD.	As	Na	Fe	Mn	TDS	Cl	Pb	VOCs**
	25	20	300	300	500	250	25	5
	ug/l	mg/l	ug/l	ug/l	mg/l	mg/l	ug/l	ug/l

PEREZ	As	Na	Fe	Mn	TDS	Cl	Pb	VOCs**
01/05/95	<10	108	1630	2800	666	151	<5	<0.5
02/16/94	7	85.6	1400	3140	702	NT	<5	<10
01/19/94	<10	85.3	2770	6600	NT	NT	38	NT
07/20/93	<100	91.5	1710	6080	722	143	<50	NT
09/05/91	12	109	4580	7000	NT	NT	<10	<0.5
06/25/91	6	100	680	4800	978	198	<2	NT

LERNER	As	Na	Fe	Mn	TDS	Cl	Pb	VOCs**
01/05/95	41	60.1	2080	8190	627	159	6	0.6
02/16/94	125	71.9	2600	8200	675	NT	<5	<10
07/23/93	<100	119	2650	8520	630	91	<50	NT
11/13/91	93	88	4530	14300	NT	NT	12	3.9
09/05/91	62	286	68	130	NT	NT	<10	<0.5
6/25/91	42	73	590	6600	413	143	<2	NT
07/26/88	23	4.7	3200	9800	650	300	28	NT

KANOVER	As	Na	Fe	Mn	TDS	Cl	Pb	VOCs**
02/16/94	<5	78.2	1300	4200	695	NT	<5	<10
07/20/93	<100	83.6	5400	5150	722	140	147	NT
09/05/91	10	98.7	2810	7100	NT	NT	<10	<0.5

** Water Quality Standard for some VOCs is less than 5 ug/l (e.g., benzene).

** Detection Limit for some VOCs may be lower.

NT - NOT TESTED

TABLE 3-7 (continued)
SUMMARY OF RESIDENTIAL WELL SAMPLING RESULTS
NEAR TOWN OF SAUGERTIES LANDFILL

	As	Na	Fe	Mn	TDS	Cl	Pb	VOCs**
MULLEN								
01/05/95	<10	62.7	<10	357	351	98.8	<5	<0.5
09/05/91	<10	58.1	43	2550	NT	NT	<10	<0.5
06/25/91	<2	70	650	1500	551	104	<2	<2
SALYER (ARSENAK)								
01/05/95	<10	62.7	23	<5	178	52.2	<5	<0.5
09/05/91	<10	61.7	69	9	NT	NT	<10	<0.5
06/25/91	<2	71	73	11	486	130	<2	NT
HUSTED								
09/05/91	<10	17.3	230	247	NT	NT	<10	<0.5
06/25/91	<2	17	37	66	288	25	<2	<2
SIMON								
09/05/91	<10	40.1	14	116	NT	NT	<10	<0.5
06/25/91	<2	25	<20	59	358	82	3	<2
ABRAMS								
01/05/95	<10	106	1340	1470	551	128	9	<0.5
09/05/91	14	170	4930	4600	NT	NT	<10	<0.5
06/25/91	7	221	4860	47	929	193	<2	<2
CHANCE								
09/05/91	<10	44.0	5450	1560	NT	NT	<10	<0.5
RENGERS								
09/05/91	<10	132	36	201	NT	NT	<10	<0.5
HELLER								
01/05/95	<10	19.3	36	55	245	46	<5	<0.5
SHARPE								
01/05/95	<10	100	605	40	297	65.6	<5	<0.5

** Water Quality Standard for some VOCs is less than 5 ug/l (e.g., benzene).

** Detection Limit for some VOCs may be lower.

NT - NOT TESTED

the Mullen residence; and iron exceeded the water quality standard at the Sharpe residence. Concentrations of sodium and chloride appear to be elevated over typical background values in all of the residential wells.

Historically, the Lerner well has shown the highest concentration of the parameters mentioned above and again had the highest concentration of iron and manganese of the wells tested. The Lerner well is the only residential well to contain arsenic in concentrations exceeding the water quality standard but the concentration in January 1995 (41 ug/l) is greatly reduced from the concentration measured in February 1994 (125 ug/l).

4.0 DISCUSSION and SUMMARY

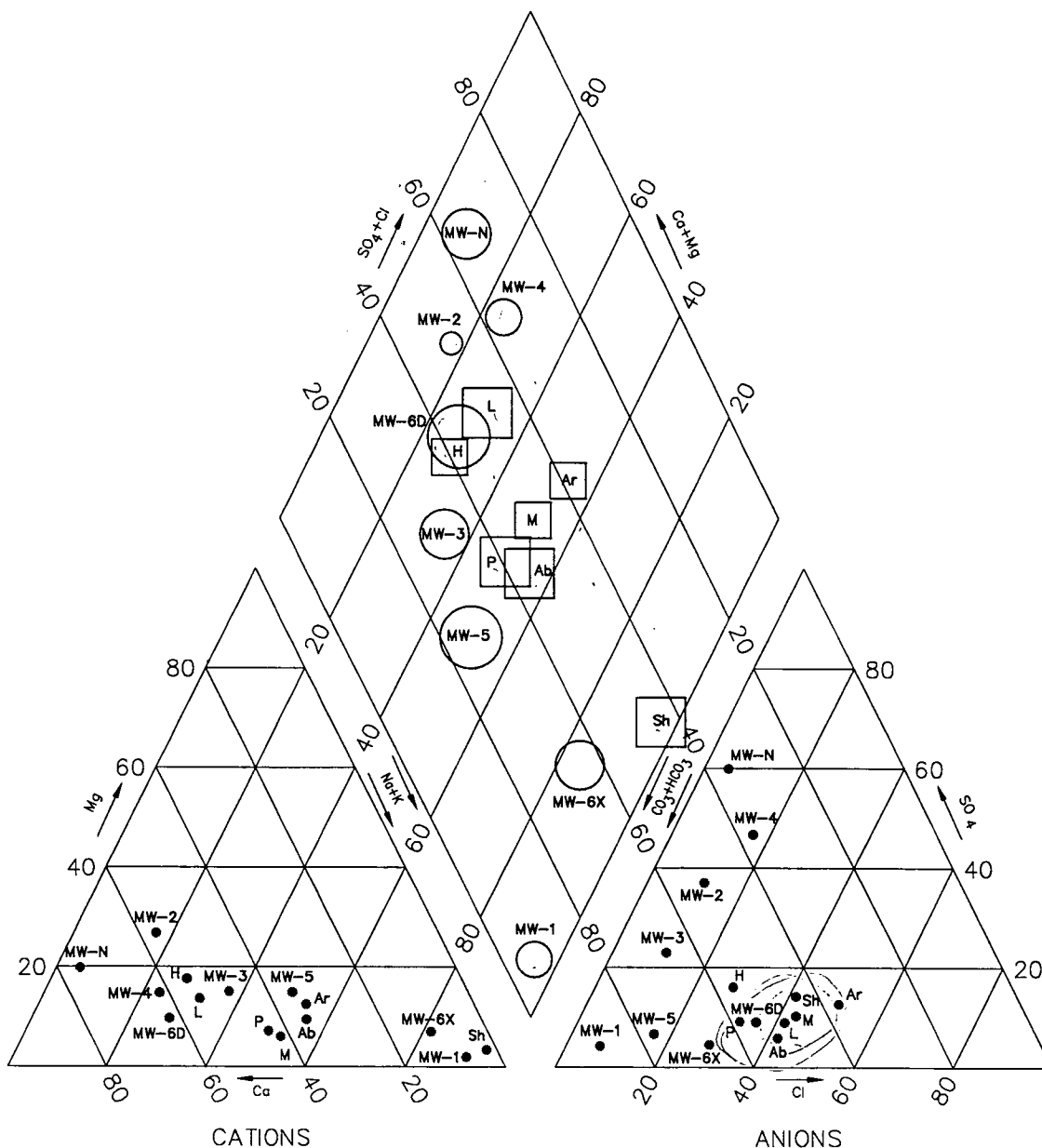
The objective of this SSIR was to develop a better understanding of the regional hydrogeology, including contaminant migration, in the vicinity of the Town of Saugerties Landfill.

To accomplish this objective, CHA performed a fracture trace analysis, installed an additional downgradient monitoring well at a depth equivalent to nearby residential wells, conducted geophysical logging of that well, collected and analyzed water samples from discrete fracture zones in that well, performed rock pressure tests in that well, collected and analyzed samples of the landfill monitoring wells, and reviewed results from sampling and analysis of nearby residential

wells.

The evaluation of all available data leads to somewhat ambiguous conclusions. The fracture trace analysis revealed that the predominant strike of fractures is southwest/northeast, yet several residential wells located southeast of the landfill exhibit leachate indicators in the water. The results of the borehole geophysical logging in MW-6X indicate that the major water-bearing fracture zones appear to occur in the upper 100 feet of the bedrock unit. The rock pressure tests performed in this well indicate minimum permeabilities on the order of 10^{-3} cm/sec. This permeability is sufficiently high, given the length of time the landfill has been in operation, to allow for the migration of contaminants from the landfill to the residential wells. These results suggest that groundwater flow in the fractured bedrock aquifer probably occurs within the upper 100 feet of the bedrock and that groundwater flow direction is controlled in large measure by topography, rather than rock structure.

A comparison of the major cation-anion water chemistry was made between the landfill monitoring wells and the residential wells. Results have been summarized in a trilinear diagram (Figure 4-1). This analysis shows no clear distinction between the landfill wells and the residential wells that appear to contain leachate indicators. For example, the data field for the Lerner well overlaps the field for monitoring well MW-6D. Both of these wells contain elevated levels of iron, manganese, and arsenic. However, the field for the Heller well also overlaps with the field for the Lerner well and monitoring well MW-6D, yet there are no elevated levels of leachate indicators in the Heller well. The fields for wells MW-1 and MW-6X are closely related and do stand apart from



□ RESIDENTIAL WELLS

○ MONITORING WELLS

TDS CONCENTRATION

P - Perez
H - Heller
Sh - Sharpe
Ab - Abrams
Ar - Arsenak
L - Lerner
M - Mullen

MW-1
MW-2
MW-3
MW-4
MW-5
MW-6
MW-7

○	□	<100 mg/l
○	□	100-500
○	□	500-1000
○	□	>1000



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111 WINNERS CIRCLE ALBANY, NEW YORK, 12205

**CATION-ANION WATER CHEMISTRY
TRI-LINEAR DIAGRAM**
TOWN OF SAUGERTIES LANDFILL
SAUGERTIES, NEW YORK

other wells on the trilinear diagram, yet water quality in these wells is otherwise significantly different. The water quality in MW-1 appears to be representative of background levels while the water quality in MW-6X shows the presence of many leachate indicators.

In summary, the results of this SSIR show that leachate from the landfill has impacted the monitoring wells immediately surrounding the landfill. The water quality in well MW-1 appears to be representative of background conditions. The water quality in 3 residential wells (Abrams, Lerner, and Perez) reflects elevated concentrations of iron and manganese, and 1 residential well (Lerner) contains an elevated level of arsenic. These results appear to indicate some hydraulic connection between groundwater in the vicinity of the landfill and groundwater in the area of the residential wells.

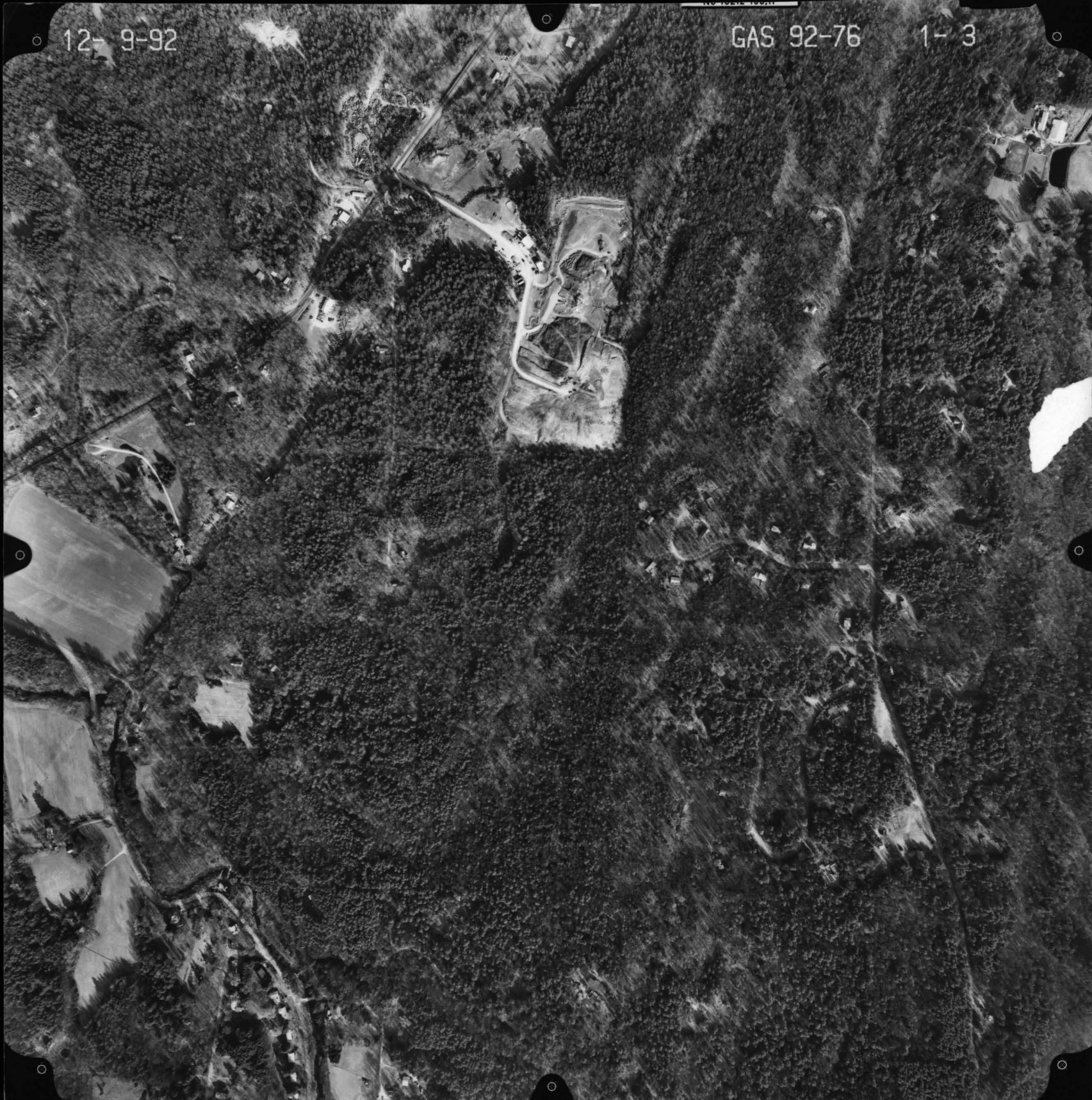
APPENDICES

APPENDIX I
AERIAL PHOTOS

12- 9-92

GAS 92-76

1- 3



GOLDEN AERIAL SURVEYS, INC.

P.O. Box 747

141 Mt. Pleasant Road, Newtown, CT 06470

(203) 426-3322

12-9-92

1034

153.109

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GAS 92-76

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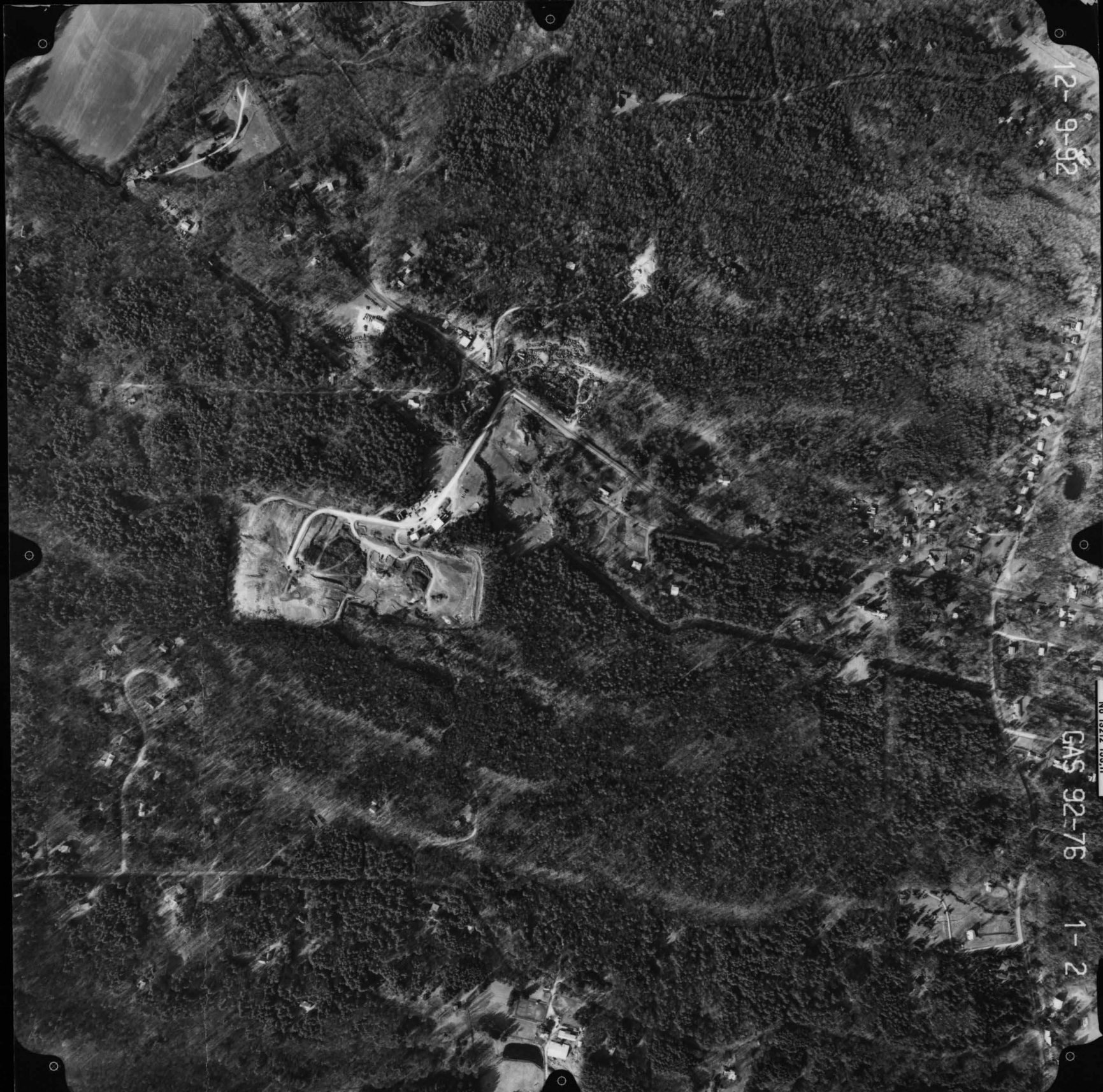
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12-9-92 1033 153.109

1:8400 GAS 92-76

1-1



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APPENDIX II
BORING LOG - MW-6X

C H A

CLOUGH, HARBOUR
& ASSOCIATES

Town of Saugerties

SUBSURFACE LOG

HOLE NUMBER MW- 6X

PROJECT NUMBER: 3716.07.71

February 1995

PAGE 1 OF 3

LOCATION: Saugerties, N.Y.

CLIENT: Town of Saugerties

DRILL FLUID:

AUGER/CASING: 3 7/8" Air Hammer

CONTRACTOR: SMT

WATER
LEVEL
OBSERVATIONS
DURING
DRILLING

DATE

TIME

WATER
ELEV.CASING
BOTTOMHOLE
BOTTOM

DRILLER: D.R.

INSPECTOR: J. Spollen

10/27/94

10:00

-23.0

-50.0

START DATE: 10/26/94

FINISH DATE: 10/31/94

10/31/94

9:30

-89.5

-50.0

-110.0

SURFACE ELEV.: 0.0

CHECKED BY:

11/7/94

9:00

-80.6

-50.0

-200.0

SAMP./CORE NUMBER	SAMP. TYPE	SAMP. ADV LEN. CORE	RECOVERY	SAMPLE BLOWS/6" CORE RQD	SAMPLE ELEV.	DEPTH	GRAPHICS	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.	WATER LEVELS AND/OR WELL DATA
					0.0					
								<u>OVERBURDEN</u>	Advance 4 1/2" air hammer 0'-50'. Ream w/ 6" rollerbit and air. Grout 4" diameter casing to 50'.	
S1	AS	1.0						<u>SILTSTONE</u> , red		
S2	AS	1.0								
S3	AS	1.0								
S4	AS	1.0						soft zone at 24', water gain		
S5	AS	1.0								
S6	AS	1.0						<u>SANDSTONE</u> , gray		
S7	AS	1.0								
S8	AS	1.0								
S9	AS	1.0								
S10	AS	1.0								
S11	AS	1.0						becomes red		
S12	AS	1.0						<u>SILTSTONE</u> , red	Advance boring w/ 3 7/8" air hammer 50'-200'.	

C H A

CLOUGH, HARBOUR
& ASSOCIATES

Town of Saugerties

SUBSURFACE LOG

HOLE NUMBER MW- 6X

PROJECT NUMBER: 3716.07.71

February 1995

PAGE 2 OF 3

SAMP./CORE NUMBER	SAMP. TYPE	SAMP. ADV LEN. CORE	RECOVERY	SAMPLE BLOWS/6" CORE RQD	ELEV.	DEPTH	GRAPHICS	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.	WATER LEVELS AND/OR WELL DATA
S13	AS	1.0								
S14	AS	1.0			-82.0	80				
S15	AS	1.0				85		SHALE, dk. gray water gain noted at 85'		
S16	AS	1.0				90				
S17	AS	1.0				95				
S18	AS	1.0			-100.5	100		SILTSTONE (red) and SHALE (gray) interbedded		
S19	AS	1.0				105				
S20	AS	1.0				110				
S21	AS	1.0				115				
S22	AS	1.0				120				
S23	AS	1.0				125				
						130				
S24	AS	1.0				135				
S25	AS	1.0				140				
S26	AS	1.0				145				
S27	AS	1.0				150				
S28	AS	1.0				155				
						160				

[illegible]

APPENDIX III
BOREHOLE GEOPHYSICAL LOGGING
HAGER RICHTER GEOSCIENCE, INC.

BOREHOLE GEOPHYSICAL LOGGING

SAUGERTIES LANDFILL

SAUGERTIES, NEW YORK

Prepared for:

Clough, Harbour & Associates, Inc.
3 Winners Circle
Albany, NY 12205

Prepared by:

Hager-Richter Geoscience, Inc.
8 Industrial Way D-10
Salem, NH 03079

File 94G89

November 11, 1994

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HAGER-RICHTER GEOSCIENCE, INC.

CONSULTANTS IN GEOLOGY & GEOPHYSICS
8 INDUSTRIAL WAY - D10
SALEM, NEW HAMPSHIRE 03079
TELEPHONE (603) 893-9944
FAX (603) 893-8313

VIA MAIL

November 14, 1994
File 94g89

Clough, Harbour & Associates
3 Winners Circle
PO Box 5269
Albany, NY 12205

ATTENTION: Chris Burns

PHN: 518 453-2896
FAX: 518 458-1735

CONCERNING: CHA Project # 3716.07.70
Saugerties, NY Landfill
Borehole Geophysical Logging

Dear Mr. Burns:

Enclosed are three copies of our Report "Borehole Geophysical Logging, Saugerties Landfill, Saugerties, New York ." We have enjoyed working on this project for you.

If you have any questions or need additional information, don't hesitate to call me.

Sincerely,
HAGER-RICHTER GEOSCIENCE, INC.



by Gene Simmons,
Vice President

Saugerties Landfill
Borehole Geophysical Logging

AMENDMENT 1

During field operations, the well that was logged was identified as CHA-1, and that identification was retained in the Report. The well that was logged is also identified as MW-6X, and its location is shown in Figure 2. Therefore, CHA-1 and MW-6X are the same well.

Revised November 16, 1994

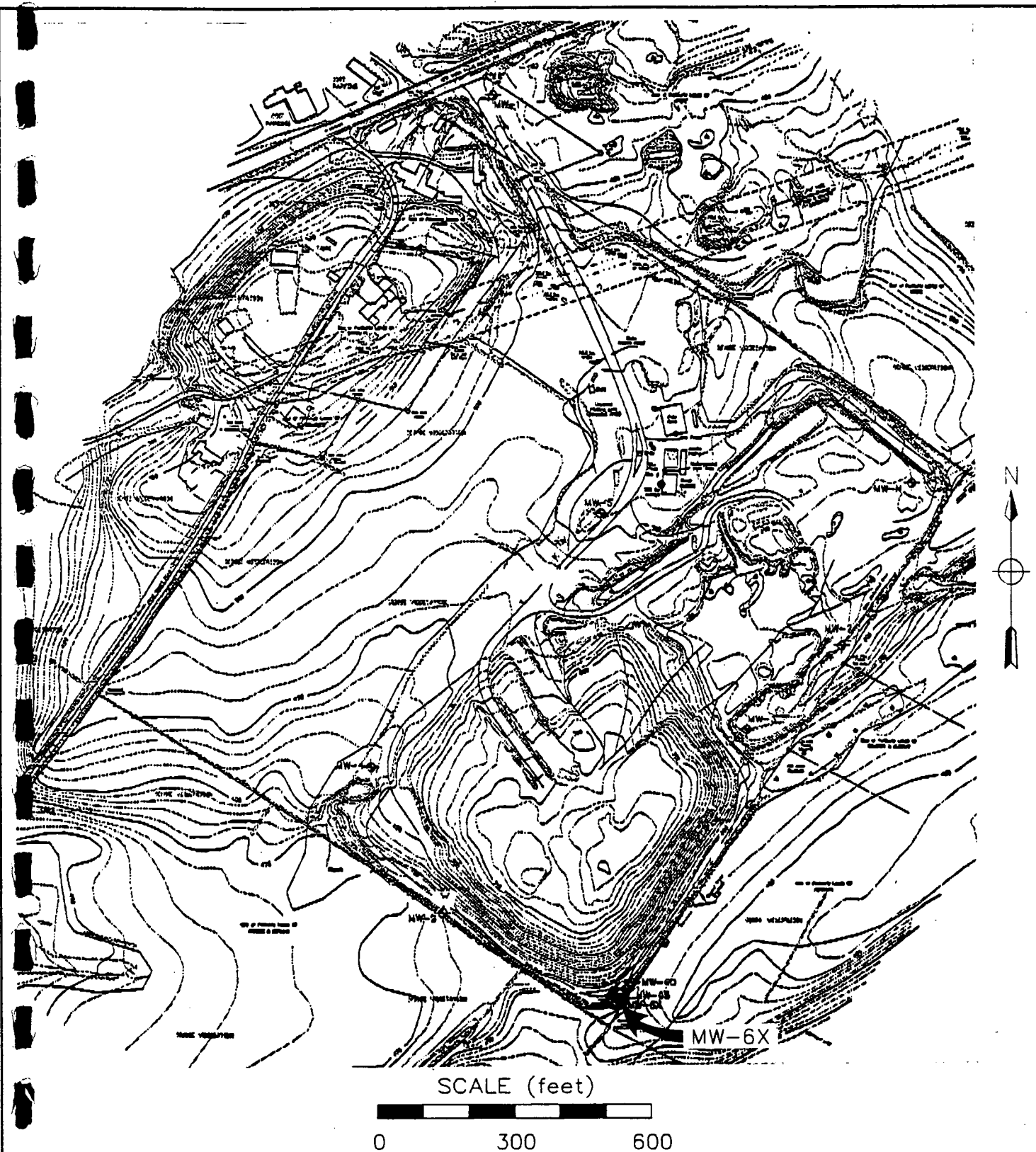


Figure 2. Site Plan.

Revised November 16, 1994

Saugerties Landfill
Borehole Geophysical Logging

0. EXECUTIVE SUMMARY

Hager-Richter Geoscience, Inc., was retained by Clough, Harbour & Associates, Inc. to log a well in November 1994 as part of the closure of the Saugerties Landfill in Saugerties, New York. The purpose of the borehole logging was to determine the depths of any productive fractures present in the well. The following geophysical borehole logs were obtained: natural gamma ray, temperature, before and after pumping the well, resistivity, single point resistance, spontaneous potential (SP), and caliper.

Temperature Log 1, the first log ran, showed:

- The temperature is 15.35 °C from 85 to 106 ft, constant with depth, then decreases to 14.73 °C over the interval 106-112 ft and continues to decrease to total depth of the well, 200 ft.
- Thermal gradient is -1.16 °C per 100 ft (38 °C/Km) for the interval 112-150 ft and increases gradually to zero at the bottom of the well, a common profile type in the northeast.

Temperature Log 2, ran after allowing the well to recover following removal of water above 140 ft, showed:

- The temperature is 15.4 °C from 86 to 105 ft, constant with depth, decreases to 14.73 °C in the interval 105-112 ft and continues to decrease to total depth of the well, tracking closely Temperature Log 1.

Delta Temperature Log, the difference between Temperature Logs 1 and 2, showed:

- The difference is 0.03 to 0.05 °C over the interval 86-104 ft, with the replacement water being warmer.
- Large positive gradients at depths of about 105 ft and 109 ft, corresponding to large negative gradients displayed by Temperature Log 2 at the same depths.

Saugerties Landfill
Borehole Geophysical Logging

The caliper log showed:

- An enlargement of the borehole diameter at the bottom of the casing and increases in diameter at 65 ft, 82 ft, 104 ft, 106 ft, and 124 ft.
- Smaller, but more frequent with depth, enlargements occur over the intervals 106-111 ft and 126-132 ft.

The resistivity and single point resistance logs correlate well with each other, but not with the other logs. The SP log varies little over the logged interval. The natural gamma ray log shows rather little variation with depth other than that due to attenuation of the casing. The fractures detected by the caliper and temperature logs do not correlate with features in these logs.

Our combined interpretation of these logs is:

- The fracture at 82 ft *is* the productive fracture.
- Before and during the logging operations, water descended from 81 feet and re-entered the formation below that depth.
- The fracture at 104 ft and the smaller fracture(s) at 110 are the fractures accepting the water.

Saugerties Landfill
Borehole Geophysical Logging

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FIGURES

1. Site Location
2. Site Plan
3. SP and Single Point Resistance Logging

APPENDIX

All Logs

Saugerties Landfill
Borehole Geophysical Logging

1. INTRODUCTION

Hager-Richter Geoscience, Inc. was retained by Clough, Harbour & Associates, Inc. (CHA) of Albany, New York to log a well at the Saugerties Landfill, Saugerties, New York as part of the landfill closure operations. Figure 1 shows the general location of the Site, and Figure 2 shows the location of the well at the Site.

The well, identified as CHA-1, was drilled on Friday, October 28, 1994, to about 50 feet, and the 4' casing was set. On Monday, October 31, the well was deepened to 200 feet, and left undisturbed for logging the next day. Packer testing was planned to be conducted after the logging was completed.

The purpose of the borehole logging was to determine the depths of any productive fractures that may be present. The following types of logs were run:

- temperature logs, before and after pumping each well
- caliper log
- electrical logs (each consisting of resistivity, single point resistance, and SP)
- natural gamma ray log

Hager-Richter personnel Samuel Macintire was on site November 1, 1994. The field operations were coordinated with Mr. Chris Burns and observed by Mr. Joe Spollen of CHA. Data analysis and interpretation were completed at the Hager-Richter offices. Original data and field notes reside in the Hager-Richter files and will be retained for a minimum of three years.

Saugerties Landfill
Borehole Geophysical Logging

2. EQUIPMENT AND PROCEDURES

The borehole logging system was a Colog MGX Digital logging system with the following tools and modules: borehole caliper, temperature, combination tool (natural gamma ray, self potential, single point resistance), and 16" normal resistivity . Depth capability is about 650 feet. The equipment is highly portable. Data are recorded in digital form. The digital data are plotted in the field in preliminary form, and processed and plotted in the office.

After each log was completed at the Site, the equipment was decontaminated with the following procedure: each tool and the downhole portion of the cable were washed using Ivory Snow soap and rinsed with local tapwater. Natural sponges or cotton rags were used.

2.1 General

2.1.1 Dual Temperature Log

The digital temperature probe of the MGX logging system measures temperature to 0.01 °C precision. For this well, the temperatures were logged at an interval of 0.1 foot from the static water level to the bottom of the well for each well, at a logging speed of about 10 feet/minute.

Two temperature logs were run to identify those fractures, or zones, that are productive. Temperature log 1 is the first log run. Water is then removed from the well, either by pumping or bailing. The amount removed depends on the diameter of the well and, to some extent, on the depth and recovery rate. The concept is to remove enough water to lower the water level approximately 30 to 50 feet if there is no inflow. Most wells produce at least some water during the time required to remove the water and set up the equipment to run the second temperature log. Therefore, at the time of running the second temperature log, the actual displacement of the water column is somewhat less than the 30 to 50 feet. Many wells recover completely, and the static water level is about the same for the two temperature logs. The vertical movement of water in the well causes the temperature of the water at most depths to differ from the formation temperature. Because this difference will decrease with time, the temperature should be logged again within an hour. Comparison of the two temperature logs shows where water enters the well.

Saugerties Landfill
Borehole Geophysical Logging

2.1.2 Caliper Log

The caliper log measures the average borehole diameter as a function of depth. The MGX logging equipment uses three arms.

Reproducibility of the caliper logs was generally good.

The caliper logs show enlargements of the borehole diameter, indicative of fractures, and are also used in the interpretation of other logs.

2.1.3 Resistivity Log

The resistivity log is a measure in ohm-meters of the electrical resistivity of the material in the immediate vicinity of the borehole. Because this log requires electrical connection with the borehole wall, it cannot be run in PVC lined, steel-cased, or dry borehole. Current is introduced into the material through a downhole electrode and the potential difference is measured between two other downhole electrodes. Because the measurement depends on a point source of electrical current in the borehole, the resistivity of the material near the borehole largely controls the measured value. The log therefore is indicative of the materials penetrated by the borehole. Because the minerals composing soils, sediments, and rocks are generally nonconductive, changes in resistivity are chiefly controlled by porosity and the electrical conductivity of the pore fluids.

2.1.4 Single Point Resistance Log

The resistance log is similar to the resistivity log in that it measures the electrical properties of the earth. However, it differs from that log in that it includes the effects of a larger volume of the earth and in the spacing of the electrodes. For this log, the current is introduced into the earth with a downhole electrode and the voltage is measured between that electrode and a stationary electrode at the surface of the earth. This log measures the resistance, in ohms, of all material between the borehole adjacent to the tool and the surface. In practice, because of the point source nature of the current electrode, the material adjacent to the borehole has more effect on the value than a comparable volume of material located a few borehole diameters away from the borehole. The measured resistance is controlled by the porosity of the material and the electrical properties of the fluid contained within the pore space.

The Single Point Resistance log is the most commonly run log for ground water applications.

Saugerties Landfill
Borehole Geophysical Logging

Because this log requires electrical connection with the earth, it cannot be run in a PVC lined, steel-cased, or dry borehole.

2.1.5 Spontaneous Potential Log

The spontaneous potential log, also called self potential and SP, measures the electrical potential of the materials adjacent to a borehole, referenced to the potential of a stationary electrode at the surface. The same electrodes used for the Single Point Resistance log are used for this log. Low frequency AC current and voltage are used to measure resistance and the DC potential between the electrodes is the spontaneous potential; the circuit is shown in Figure 3.

The SP log is sometimes useful for detecting and correlating permeable beds and for indicating the shale content of the rock through which the tool passes.

Because this log requires electrical connection with the earth, it cannot be run in a PVC lined, steel-cased, or dry borehole.

2.1.6 Natural Gamma Ray Log

The variations in the natural radioactivity of rocks and sediments makes the natural gamma ray log an excellent indicator of changes in stratigraphy. Radioactive minerals tend to accumulate in clays with the practical result that clay layers and clay-rich layers are commonly expressed in the natural gamma ray log as highs. Clean sands, which are normally low in radioactivity, produce lows in this log. The radioactivity of a formation increases as the amount of fine material increases. Silts are usually between sands and clays in natural radioactivity.

Fractures in igneous and metamorphic rock often contain significant amounts of clay, which typically hosts radioactive minerals. Thus, high count rates on the bedrock portion of the gamma ray log may indicate such fractures.

A significant advantage of the natural gamma ray log is that it can be run in a PVC cased well and a steel cased well — however, the casing attenuates the gamma rays and the amplitudes shown on the log are therefore smaller than they would be for the same run in uncased hole. The tool does not have to be immersed in a liquid (water or drilling mud).

2.2 Site Specific

Data were obtained with the MGX logging system at 0.1 foot intervals and a logging speed of 10 feet/minute for all logs.

Saugerties Landfill
Borehole Geophysical Logging

Temperature Log 1 was the first log run in Well CHA-1. Drilling rods were then lowered to 140 feet depth, and water blown out of the well. After removal of the rods, temperature log 2 was ran. In succession, caliper, 16" normal resistivity, single point resistance/SP, and natural gamma ray logs were run.

Saugerties Landfill
Borehole Geophysical Logging

3. RESULTS

3.1 The Individual Logs

Each log is reproduced in the Appendix. All depths are in units of feet. Noteworthy features in the logs are the following:

Temperature Log 1. The top of the water column is at 83 feet, indicated by the rapid decrease of temperature with depth for the interval 83-85 ft. The large change of temperature is due to the warmer tool entering the colder water — it is not indicative of the formation temperature.

The temperature from 85 ft to 106 ft is 15.35 °C, constant with depth. It is unlikely that such a temperature profile represents the equilibrium temperature profile of the formation prior to drilling. It is also unlikely that it is due to drilling activities, which ended the day before the log was run. We interpret this profile to indicate that water enters the well at or above, 83 ft, descends to 83 ft under the influence of gravity if the water in fact enters at a depth less than 83 ft, flows downward, and re-enters the formation in the depth range of 106-111 ft.

The thermal gradient is -1.16 °C per 100 feet (38 °C/Km) for the interval 112-150 feet and increases gradually to zero at the bottom of the well, 200 feet depth. It is very common in the northeastern United States for wells to exhibit a negative equilibrium thermal gradient over the uppermost few tens to few hundreds of feet.

Temperature Log 2. The log indicates the top of the water column to be located at 82 feet, indicated by the rapid decrease of temperature with depth for the interval 82-84 ft. The apparent top of the water column is therefore indicated to be 1 foot higher than at the time of running Temperature log 1, an unlikely condition. We infer that the two temperature logs are not exact registration, and therefore attribute the apparent difference in water column depths to error in depth in at least one of the logs. Our standard practice is to verify that the depth measuring system returns to zero after bringing the tool back to the datum after running the log — and that check for these two logs showed that the maximum systematic error was 0.13 ft.

Over the interval 86-105, the temperature is 15.4 °C, constant with depth. We interpret this profile to indicate that water entered the well at or above 82 ft (as a result of the operation that blew out water from such depths), descends to 82 ft under the influence of gravity if the water in

Saugerties Landfill
Borehole Geophysical Logging

fact enters at a depth less than 82 ft, flows downward, and re-enters the formation in the depth range of 106-112 ft.

Over the interval 112-200 ft, Temperature Log 2 tracks Temperature Log 1, and the interpretation for that interval is the same as the interpretation for Temperature Log 1.

Delta Temperature Log. This log is the difference between Temperature Logs 1 and 2, including sign. It is plotted on the right hand side of all three log plots to provide a standard reference for the other logs.

Over the interval 86-104 ft, the delta log is -0.03 to -0.05 °C, approximately constant with depth. The negative sign indicates that the water that the replacement water is warmer than the water that had been removed, and the difference is 0.03 to 0.05 °C. We attribute this difference to the cooling effect of the formation on water moving from the upper fracture to the lower fracture(s), noting that the formation temperature decreases with depth at depths less than about 200 feet.

Close inspection of the Delta Temperature log shows large positive gradients at depths of about 105 ft and 109 ft, corresponding to large negative gradients displayed by Temperature Log 2 at the same depths. These gradients indicate the depths at which water flowing from above enter the formation. That is, fractures are present at 105 ft and 109 ft that are accepting, not producing, water at the time of running the log.

Caliper Log. This log shows an enlargement of the borehole diameter at the bottom of the casing, 50 feet as given by the log, and increases in diameter at 65 ft, 82 ft, 104 ft, 106 ft, and 124 ft. All enlargements except that at 50 are interpreted to indicate fractures, and the largest fracture is that at 82 feet. Smaller, but more frequent with depth, enlargements occur over the intervals 106-111 ft and 126-132 ft, and such are interpreted to indicate the presence of closely spaced but small fractures. Note that the caliper log cannot distinguish productive from non-productive fractures.

Resistivity and Single Point Resistance Logs. These two logs correlate well with each other, but not with the other logs. The fractures detected by the caliper and temperature logs do not correlate with either highs or lows in these logs.

SP Log. This log varies little over the logged interval, a common feature of well with fresh water in the well bore and no elevated chloride levels in the formation or in the fractures. The fractures detected by the caliper and temperature logs do not correlate with either highs or lows in this log.

Saugerties Landfill
Borehole Geophysical Logging

Natural Gamma Ray Log. The lower amplitude at depths less than 50 feet is due to the attenuation of gamma rays by the casing and material (presumably grout) in the casing borehole wall annulus. Otherwise, this log shows rather little variation with depth. The fractures detected by the caliper and temperature logs do not correlate with either highs or lows in this log. There does not appear to be any stratigraphic information in this log either.

3.2 Discussion

The interpretation of Temperature Log 1 is that water entered the well at or above, 83 ft and exited over the depth range of 106-112 ft. The interpretations of Temperature Log 2 and the Delta Temperature log are that water entered the well at or above, 82 ft and exited at depths of about 105 ft and 110 ft. The caliper log interpretation is that (a) fractures are intersected by the well at 65 ft, 82 ft, 104 ft, 106 ft, and 124 ft, with the largest fracture at 82 ft, and (b) closely spaced but small fractures occur over the intervals 106-111 ft and 126-132 ft.

Projection of Temperature Log 1 to shallower depths using the data for depths greater than 112 and allowing for some curvature in the log suggests a temperature of about 15.3 °C at 82 feet, near the value shown on Temperature Logs 1 and 2 for the interval 85-106. The largest fracture shown by the caliper log is at 82 ft and a smaller one occurs at 65 ft — and a fracture might also be present at 50 ft, coinciding with the bottom of the casing. However, because the projected temperature is close to the value shown on Temperature Logs 1 and 2 for the interval 85-106 ft, we conclude that the fracture at 82 is the productive fracture. And, as discussed above, we also conclude that the fracture at 106 and the much smaller fracture(s) at 110 ft are the fractures taking the water.

Saugerties Landfill
Borehole Geophysical Logging

4. LIMITATIONS

This report was prepared for the exclusive use of Clough, Harbour & Associates, Inc.

Hager-Richter Geoscience, Inc. has performed its professional services, obtained its findings, and made its conclusions in accordance with generally accepted and customary principles and practices in the field of geophysics. No other warranty, either expressed or implied, is made. Hager-Richter Geoscience, Inc. is not responsible for the independent conclusions, opinions, or recommendations made by others based on the information, geophysical data, and interpretations presented in this report.

This geophysical survey included a limited set of data obtained at the project Site and was conducted with limited knowledge of the Site and its subsurface conditions. Hager-Richter Geoscience, Inc. does not assume responsibility for the accuracy of information that was provided to us by others about the Site and its subsurface conditions. The findings provided by Hager-Richter Geoscience, Inc. are based solely on the information described in this document. The conclusions drawn from this investigation are considered reliable; however, there may exist localized variations in subsurface conditions that have not been completely defined at this time. It should be noted that our conclusions might be modified if subsurface conditions were better delineated with additional subsurface exploration including, but not limited to, test pits, soil borings with collection of soil and water samples, and laboratory testing.

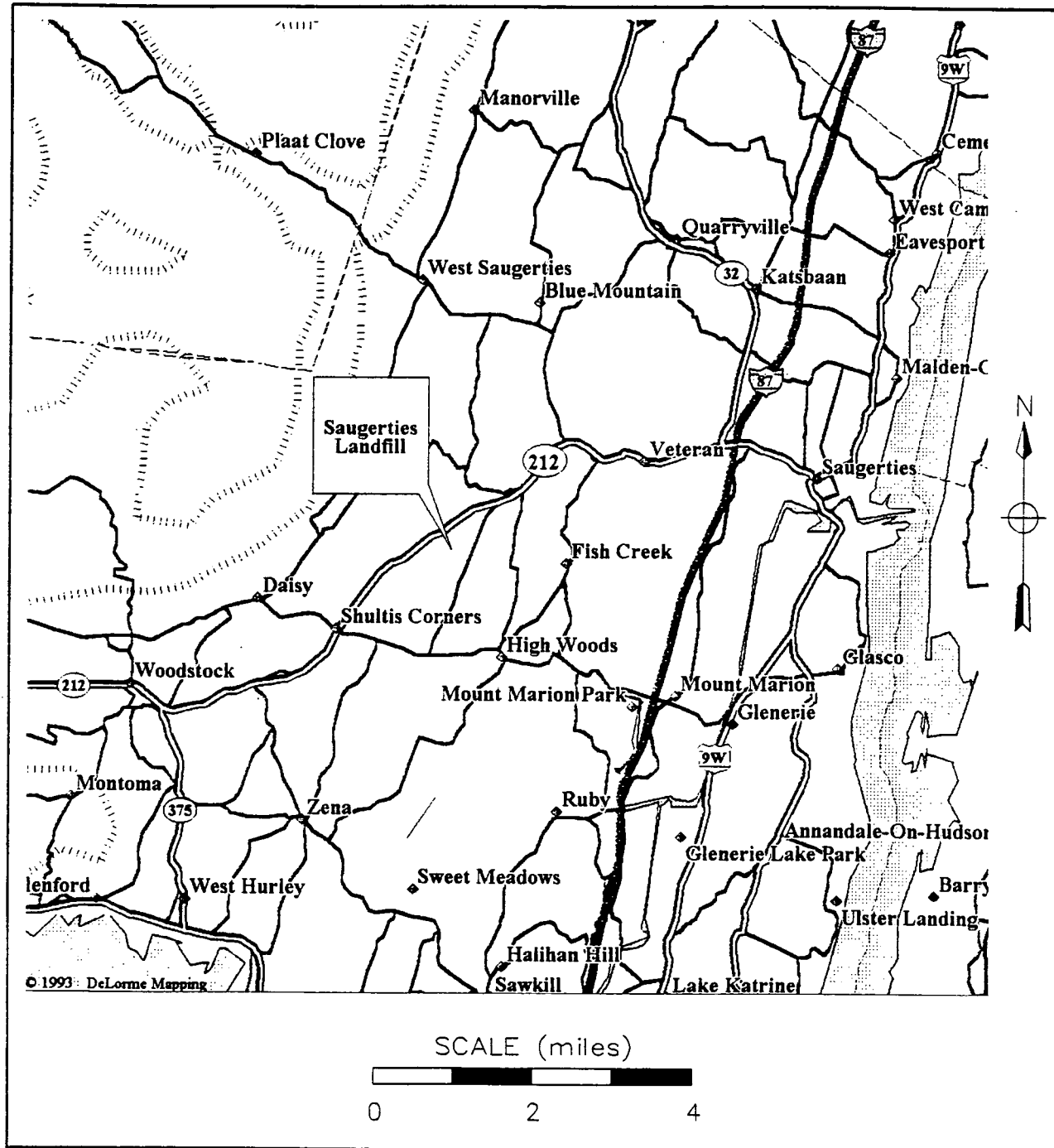


Figure 1. Site Location.

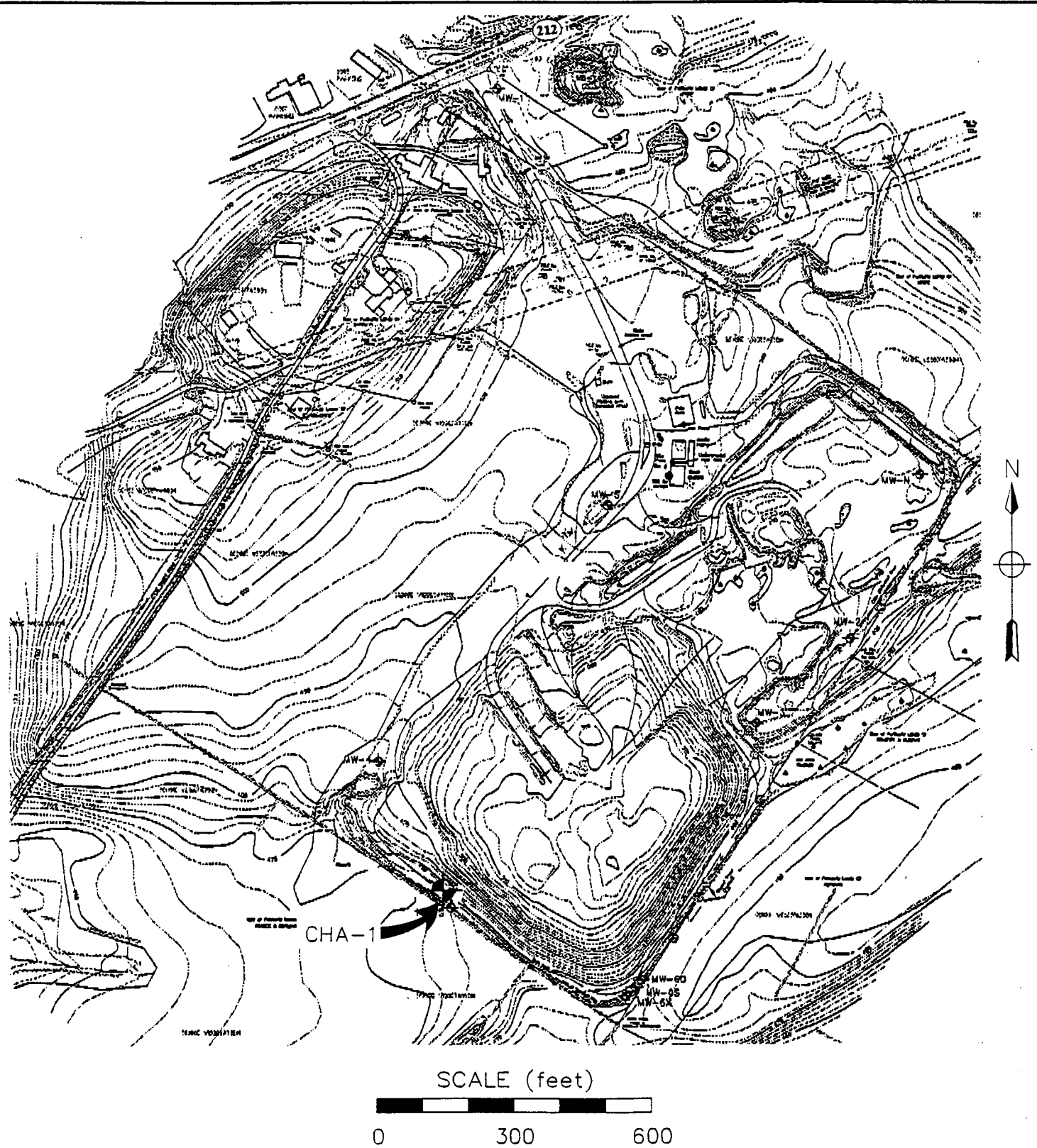


Figure 2. Site Plan.

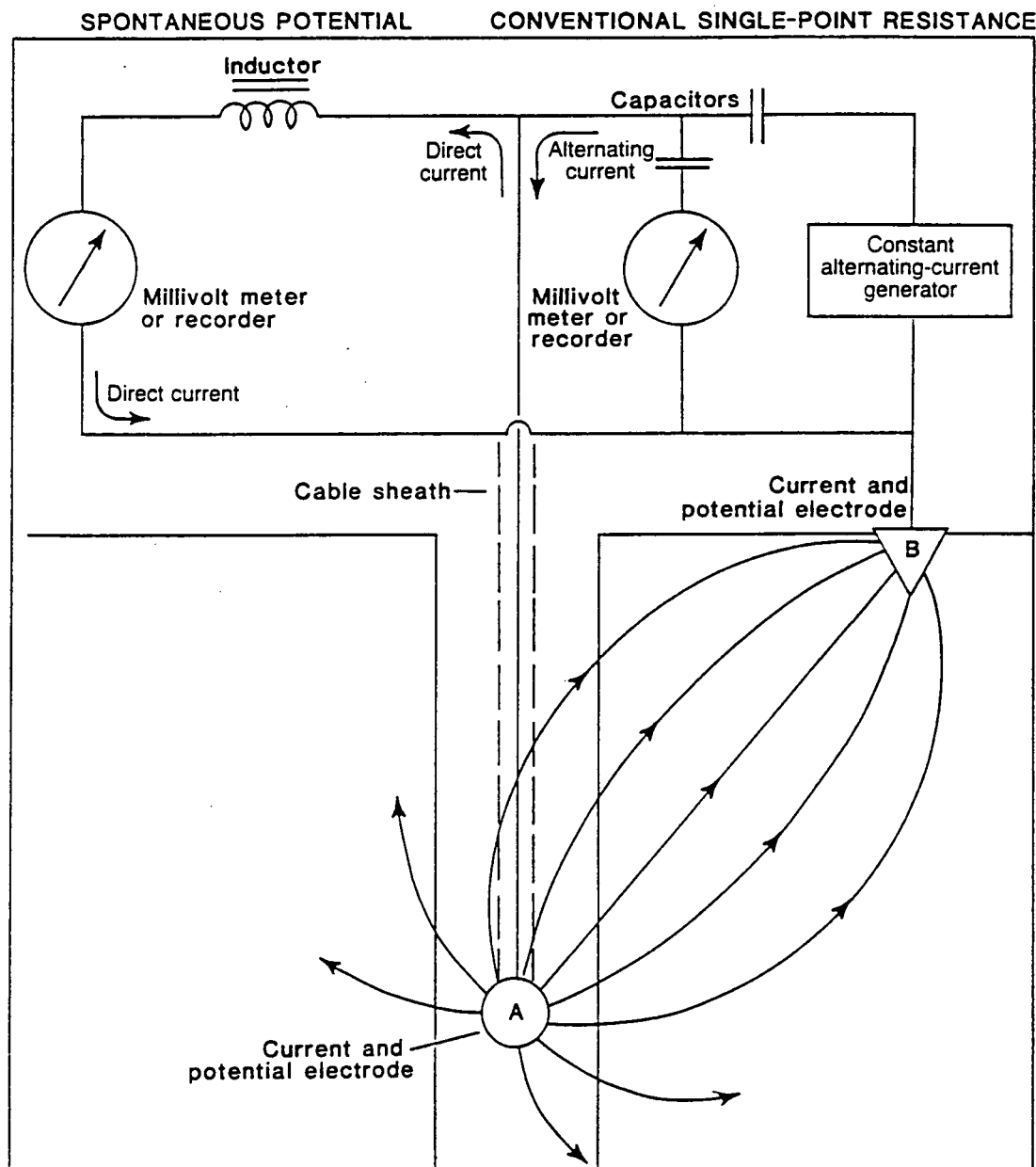
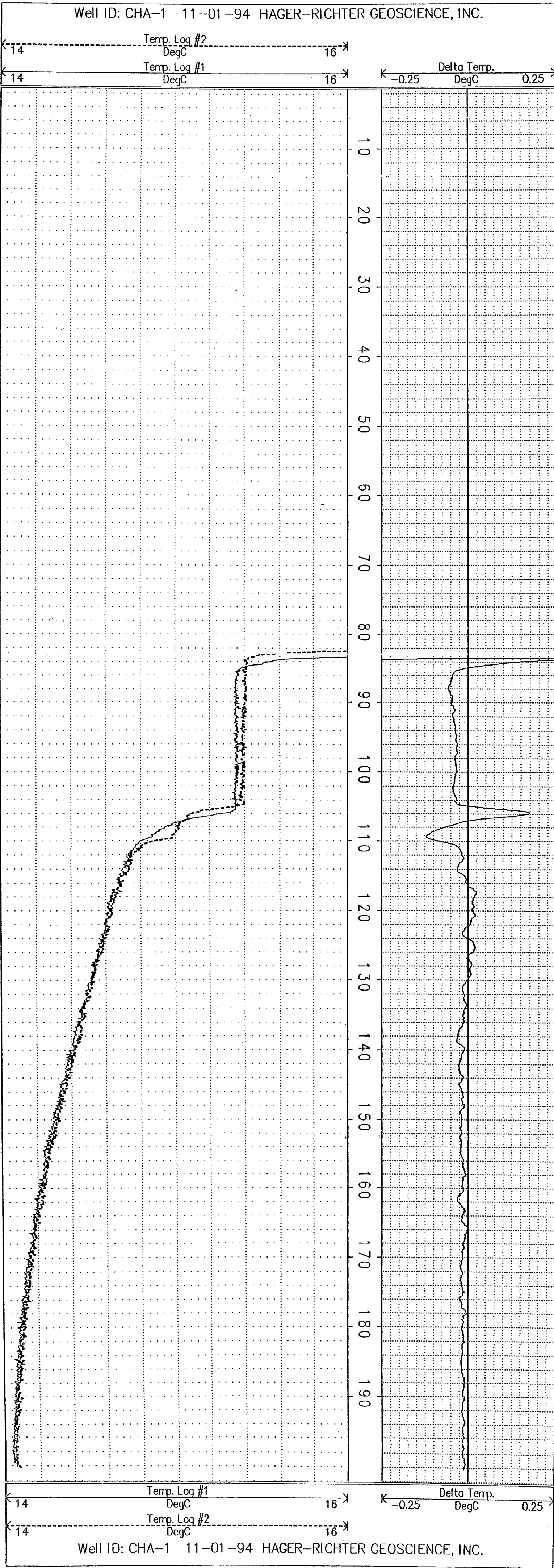


Figure 3. SP and Single Point Resistance Logging

HAGER-RICHTER GEOSCIENCE, INC.		8 INDUSTRIAL WAY, UNIT D-10 SALEM, NH 03079 PHONE: 603 893-9944 FAX: 603 893-8313	DUAL TEMP LOG WELL ID: CHA-1
PROJECT: Saugerties Logging		DATE: November 1, 1994	
CLIENT: Clough, Harbour & Associates, Inc.		H-R FILE #: 94G89	
LOCATION OF WELL: Saugerties Landfill		ELEVATION: Unknown	
STATE: New York	COUNTY: Ulster County	LOG DATUM: Top of Casing (TOC)	
INSTRUMENTATION: MGX Mini Logger		CLIENT TD: 200 Feet	
LOGGING GEOPHYSICIST: Samuel Macintire		H-R TD: 200 Feet	
CLIENT REP: Joe Spollen		STATIC WATER LEVEL: 83.25 Feet (TOC)	
DRILLING CONTRACTOR: Unknown		DEPTH TO BEDROCK: 9.5 Feet	
COMMENTS: (C:\SAUG2\TIN\TEMP1.AB1)			



HAGER-RICHTER GEOSCIENCE, INC.

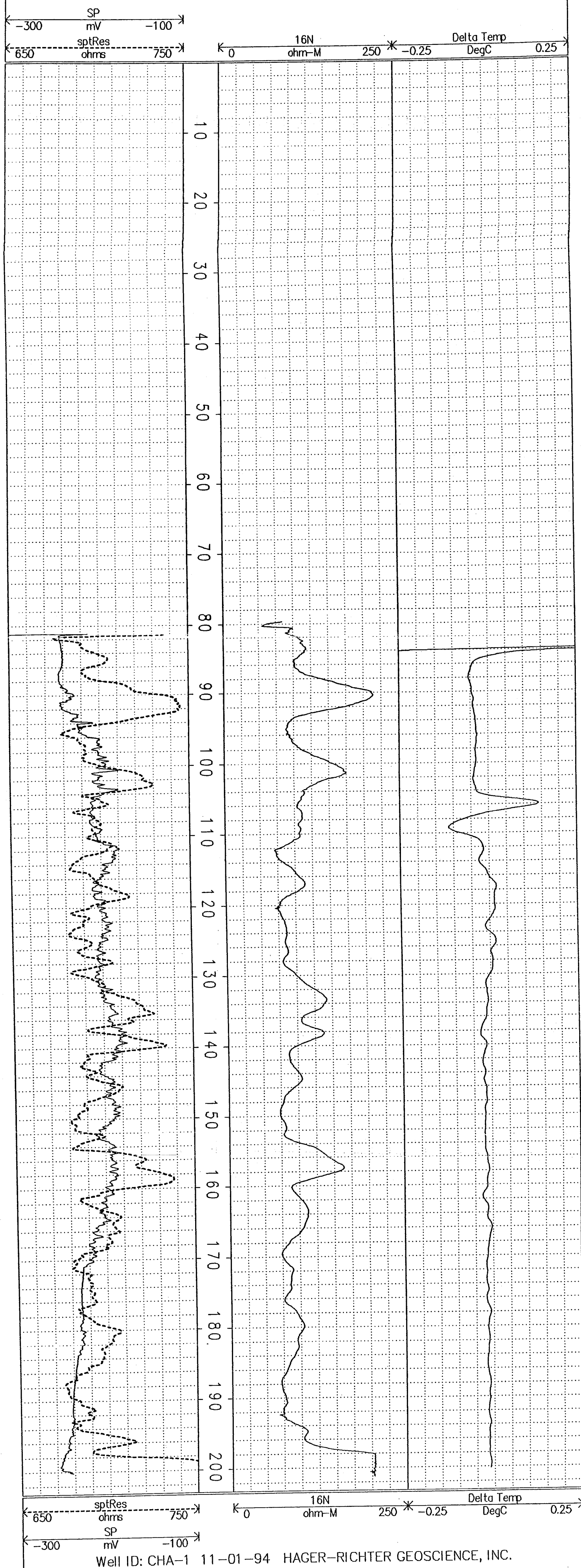
8 INDUSTRIAL WAY, UNIT D-10
SALEM, NH 03079
PHONE: 603 893-9944
FAX: 603 893-8313

Spt RES and SP
NORMAL RESISTIVITY
DELTA TEMP
WELL ID: CHA-1

PROJECT: Saugerties Logging
CLIENT: Clough, Harbour & Associates, Inc.
LOCATION OF WELL: Saugerties Landfill
STATE: New York COUNTY: Ulster County
INSTRUMENTATION: MGX Mini Logger
LOGGING GEOPHYSICIST: Samuel Macintire
CLIENT REP: Joe Spollen
DRILLING CONTRACTOR: Unknown
COMMENTS: (C:\SAUG2\RSPTBLD\RSPT.AB1)

DATE: November 1, 1994
H-R FILE #: 94G89
ELEVATION: Unknown
LOG DATUM: Top of Casing (TOC)
CLIENT TD: 200 Feet
H-R TD: 200 Feet
STATIC WATER LEVEL: 83.25 Feet (TOC)
DEPTH TO BEDROCK: 9.5 Feet

Well ID: CHA-1 11-01-94 HAGER-RICHTER GEOSCIENCE, INC.



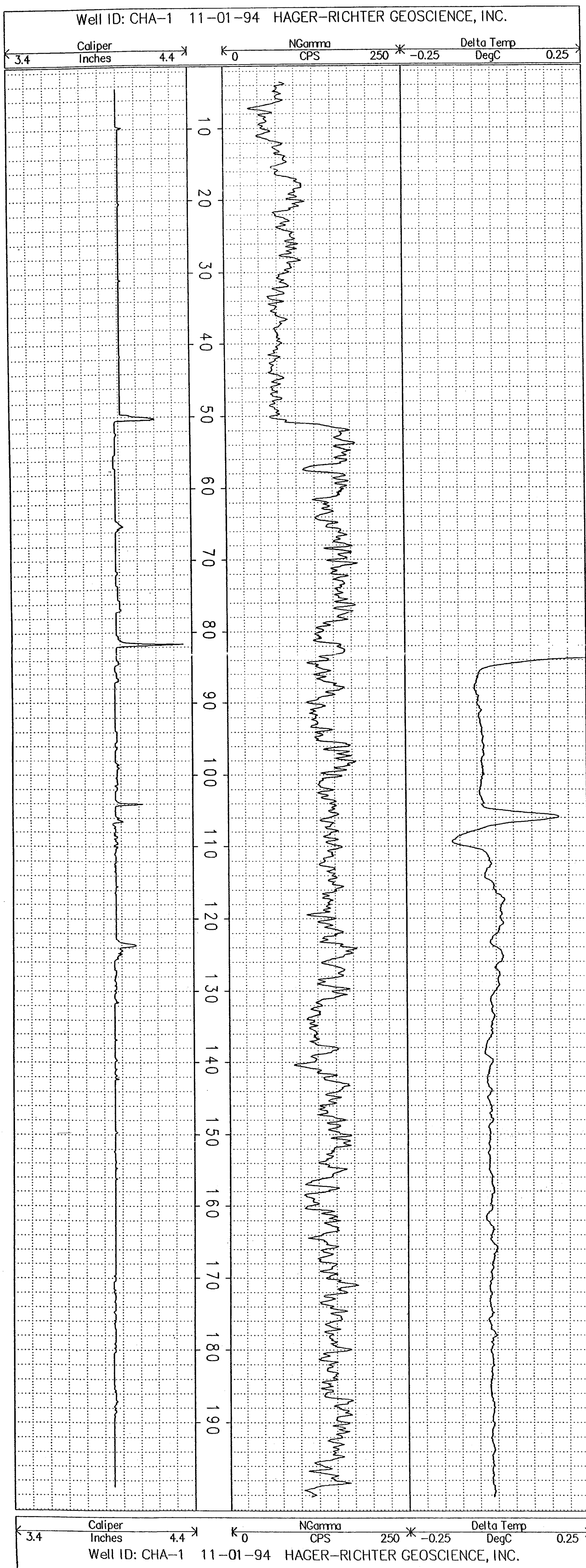
HAGER-RICHTER GEOSCIENCE, INC.

8 INDUSTRIAL WAY, UNIT D-10
SALEM, NH 03079
PHONE: 603 893-9944
FAX: 603 893-8313

CALIPER
NATURAL GAMMA
DELTA TEMP
WELL ID: CHA-1

PROJECT: Saugerties Logging
CLIENT: Clough, Harbour & Associates, Inc.
LOCATION OF WELL: Saugerties Landfill
STATE: New York COUNTY: Ulster County
INSTRUMENTATION: MGX Mini Logger
LOGGING GEOPHYSICIST: Samuel Macintire
CLIENT REP: Joe Spollen
DRILLING CONTRACTOR: Unknown
COMMENTS: (C:\SAUG2\CGTBLD\CGT1.AB1)

DATE: November 1, 1994
H-R FILE #: 94G89
ELEVATION: Unknown
LOG DATUM: Top of Casing (TOC)
CLIENT TD: 200 Feet
H-R TD: 200 Feet
STATIC WATER LEVEL: 83.25 Feet (TOC)
DEPTH TO BEDROCK: 9.5 Feet



APPENDIX IV

FIELD DATA SHEETS

DISCREET ZONE PACKER SAMPLING

Clough, Harbour & Associates Well Sampling Log				Sample Designation: <u>79'-87'</u>			
Project Name: <u>Town of Saugerties Landfill</u>				Project No: <u>3716.07.71</u>			
Project Location: <u>Town of Saugerties</u>				Date: <u>11/3/94</u>			
				Screen Length: <u>NA</u>			

Purge Information: Packer Sampling

(1) Depth to Bottom of Well: 87'
(from ~~100~~ gr.)

(2) Depth to Water: 79 ft
(from ~~100~~ gr.)

(3) Column of Water: 8'
(#1 - #2)

(4) ~~Casing~~ Boring Diameter: 4 in

(5) Volume Conversion: 0.653 gal/ft

(6) 1 Vol. of Well: 5.2 gal

Method of Purging: WaTerra/Bailer Submersible Other: _____

Volume Conversion:

2" = 0.163 4" = 0.653 6" = 1.469 8" = 2.611 10" = 4.08

Field Analysis:								
Vol Purged (gal)	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>45</u>	<u>55</u>	<u>65</u>	
Time	<u>12:54</u>	<u>13:02</u>	<u>13:10</u>	<u>13:18</u>	<u>13:27</u>	<u>13:34</u>	<u>13:40</u>	
ORP/EH (MV)	<u>-50</u>	<u>-60</u>	<u>-80</u>	<u>-70</u>	<u>-70</u>	<u>-70</u>	<u>-75</u>	
pH	<u>7.75</u>	<u>7.82</u>	<u>7.79</u>	<u>7.76</u>	<u>7.76</u>	<u>7.76</u>	<u>7.75</u>	
Cond. (MS/CM)	<u>2.51</u>	<u>2.54</u>	<u>2.54</u>	<u>2.55</u>	<u>2.54</u>	<u>2.55</u>	<u>2.54</u>	
Turb. (NTU)	<u>90</u>	<u>65</u>	<u>43</u>	<u>25</u>	<u>16</u>	<u>13</u>	<u>11</u>	
D.O. (mg/l)	<u>12.64</u>	<u>10.57</u>	<u>11.86</u>	<u>12.12</u>	<u>12.07</u>	<u>11.86</u>	<u>11.28</u>	
Temp. (°C)	<u>12.9</u>	<u>13.3</u>	<u>13.3</u>	<u>13.3</u>	<u>13.2</u>	<u>13.4</u>	<u>13.6</u>	

Total Volume Purged: 55 gal Total Purge Time: 40 min.

Sampling Info:

Sample Method: Submersible Pump No. of Bottles: 7

Sample Time: 13:35

Sample Analyses: 6 NYCRR 360 Routine Parameters + As

Comments: Packer pressure 20 p.s.i.

Logged By: S. Markowitz

Clough, Harbour & Associates Well Sampling Log					Sample Designation: <u>104.5' - 112.5'</u>				
Project Name: <u>Island of Sargerties Landfill</u>					Project No: <u>3716.07.71</u>				
Project Location: <u>Town of Sargerties</u>					Date: <u>11/3/94</u>				
					Screen Length: <u>NA</u>				

Purge Information: Packer Sampling

(1) Depth to Bottom of Well: 112.5'
(from 100 gr)

(2) Depth to Water: 104.5 ft
(from 100 gr)

(3) Column of Water: 8'
(#1 - #2)

(4) ~~Casing~~ Boring Diameter: 4 in

(5) Volume Conversion: 0.653 gal/ft

(6) 1 Vol. of Well: 5.2 gal

Method of Purging: WaTerra/Bailer/Submersible/Other: _____

Volume Conversion:

2" = 0.163 4" = 0.653 6" = 1.469 8" = 2.611 10" = 4.08

Field Analysis:

Vol Purged (gal)	4	10	20	30	40	55	75	85
Time	11:48	11:52	11:57	12:04	12:07	12:10	12:16	12:22
ORP/EH (MV)	-45	-45	-45	-45	-45	-45	-45	-50
pH	7.62	7.77	7.74	7.77	7.77	7.77	7.77	7.78
Cond. (MS/CM)	2.49	2.55	2.55	2.55	2.56	2.56	2.55	2.55
Turb. (NTU)	180	16	25	17	13	11	12	10
D.O. (mg/l)	12.77	11.64	12.18	12.59	12.64	12.43	12.42	12.46
Temp. (°C)	12.4	13.3	12.8	12.6	12.6	12.7	12.8	12.6

Total Volume Purged: 75 gal Total Purge Time: 28 min.

Sampling Info:

Sample Method: Submersible Pump No. of Bottles: 7

Sample Time: 12:15

Sample Analyses: 6 NYCRR 360 Routine Parameters + As

Comments: Water level recharging during pumping after being drawn down during previous test. Water level 80.55' gr. at end of test.

Packer pressure 20 p.s.i.

Logged By: S. Markowitz

Clough, Harbour & Associates Well Sampling Log					Sample Designation: <u>121-129'</u>				
Project Name: <u>Town of Saugerties Landfill</u>					Project No: <u>3716.07.71</u>				
Project Location: <u>Town of Saugerties</u>					Date: <u>11/3/94</u>				
					Screen Length: <u>NA</u>				

Purge Information: Packer Sampling

(1) Depth to Bottom of Well: 129'
(from ~~100~~
9')

(2) Depth to Water: 121'
(from ~~100~~
9')

(3) Column of Water: 8'
(#1 - #2)

(4) ~~Casing~~ Boring Diameter: 4 in

(5) Volume Conversion: 0.653 gal/ft

(6) 1 Vol. of Well: 5.2 gal

Method of Purging: WaTerra/Bailer (Submersible)/Other: _____

Volume Conversion:

2" = 0.163 4" = 0.653 6" = 1.469 8" = 2.611 10" = 4.08

Field Analysis:

Vol Purged (gal)	13	28	30	34	40	48	53	57	60
Time	9:50	10:08	10:13	10:20	10:30	10:44	10:52	11:00	11:09
ORP/EH (MV)	-55	-60	-60	-60	-60	-60	-60	-60	-60
pH	7.63	7.79	7.70	7.82	7.77	7.75	7.78	7.80	7.73
Cond. (MS/CM)	2.46	2.52	2.42	2.52	2.58	2.55	2.55	2.56	2.56
Turb. (NTU)	560	45	61	54	70	47	52	17	21
D.O. (mg/l)	12.56	11.84	11.49	11.31	10.90	11.13	11.04	11.39	11.43
Temp. (°C)	13.9	13.3	13.3	13.3	13.3	13.4	13.3	13.5	13.5

Total Volume Purged: 57 gal Total Purge Time: 1 hr, 10 min.

Sampling Info:

Sample Method: Submersible Pump No. of Bottles: 7

Sample Time: 11:05

Sample Analyses: CNYCER 360 Routine Parameters + As

Comments: 9:40 water level 82.39' TOC. 9:45 water level 82.48' TOC. Driller raises packer pressure from 15 p.s.i. to 20 p.s.i. By 10:45 water level is 83.18' TOC.

Logged By: J. Spollen

APPENDIX V

LABORATORY TEST DATA

DISCREET ZONE PACKER SAMPLING



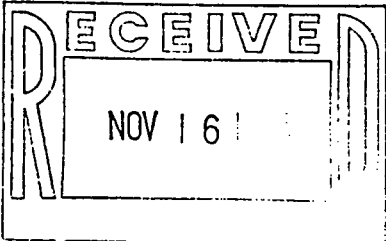
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LABORATORY REPORT

for

Clough, Harbour & Associates
3 Winners Circle
PO Box 5269
Albany, NY 12205 5269

Attention: Margaret Scrodanus



Purchase Order #: 3716-07-70

Report date: 11/15/94
Number of samples analyzed: 3
AES Project ID: 941104 L
Invoice #: 143936

ELAP ID#: 10709

AIHA ID#: 12144-001
Page 1



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CLIENT: Clough, Harbour & Associates

Date Sampled: 11/03/94

CLIENT'S SAMPLE ID: 121-129'

Date sample received: 11/04/94

S sample #: 941104 L01

Samples taken by: Joe Spollen

Location: Saugerties
grab

MATRIX: ground water

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
pH	EPA-150.1	7.1	su	SW-K-28	11/04/94
	Orion	194	mv	MC-D-42	11/11/94
Turbidity	EPA-180.1	40	ntu	FM-F-25	11/04/94
Specific Conductance	EPA-120.1	2430	umhos/cm	MC-D-42	11/11/94
Total Dissolved Solids	EPA-160.1	1450	mg/l	MC-J-28	11/11/94
Chemical Oxygen Demand	EPA-410.4	104	mg/l	FM-O-13	11/11/94
Total Organic Carbon	EPA-415.1	37	mg/l	FM-C-48	11/11/94
Sulfate	EPA-375.4	31	mg/l	SW-I-24	11/11/94
Alkalinity, as CaCO3	EPA-310.1	750	mg/l	MC-F-42	11/11/94
Chloride	EPA-325.3	294	mg/l	MC-H-24	11/11/94
Total Kjeldahl Nitrogen-N	EPA-351.3	5.0	mg/l	LS-E-44	11/11/94
Biochemical Oxygen Demand 5	EPA-405.1	<2	mg/l	SW-O	11/04/94
Bromide	EPA-320.1	1.5	mg/l	MC-B-4	11/11/94
Hardness, Total as CaCO3	EPA-130.2	161	mg/l	JW-I-2E-66	11/07/94
Ammonia-N	EPA-350.1	0.4	mg/l	FM-B	11/08/94
Nitrate-N	EPA-353.1	<0.02	mg/l	FM-B	11/07/94
Phenols, Total	EPA-420.1	<0.002	mg/l	LS -M-12	11/11/94
Calcium	EPA-200.7	53.8	mg/l	JW-I-2E-66	11/07/94
Cadmium	EPA-200.7	<0.005	mg/l	JW-I-2E-66	11/07/94
Iron	EPA-200.7	1.34	mg/l	JW-I-2E-66	11/07/94



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CLIENT: Clough, Harbour & Associates

Date Sampled: 11/03/94

CLIENT'S SAMPLE ID: 121-129'

Date sample received: 11/04/94

AES sample #: 941104 L01

Samples taken by: Joe Spollen

Location: Saugerties
grab

MATRIX: ground water

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Lead	EPA-239.2	<0.005	mg/l	WC-GME-113	11/10/94
Manganese	EPA-200.7	0.70	mg/l	JW-I-2E-66	11/07/94
Magnesium	EPA-200.7	6.6	mg/l	JW-I-2E-66	11/07/94
Potassium	EPA-200.7	2.3	mg/l	JW-I-2E-66	11/07/94
Sodium	EPA-200.7	565	mg/l	JW-I-2E-66	11/07/94
Arsenic	EPA-206.2	0.024	mg/l	JW-GLE-74	11/14/94



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CLIENT: Clough, Harbour & Associates

Date Sampled: 11/03/94

CLIENT'S SAMPLE ID: 104.5'-112.5'

Date sample received: 11/04/94

ES sample #: 941104 L02

Samples taken by: Joe Spollen

Location: Saugerties
grab

MATRIX: ground water

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
pH	EPA-150.1	7.1	su	SW-K-28	11/04/94
H	Orion	195	mv	MC-D-42	11/11/94
Turbidity	EPA-180.1	11	ntu	FM-F-25	11/04/94
Specific Conductance	EPA-120.1	2410	umhos/cm	MC-D-42	11/11/94
Total Dissolved Solids	EPA-160.1	1440	mg/l	MC-J-28	11/11/94
Chemical Oxygen Demand	EPA-410.4	104	mg/l	FM-O-13	11/11/94
Total Organic Carbon	EPA-415.1	37	mg/l	FM-C-48	11/11/94
Sulfate	EPA-375.4	32	mg/l	SW-I-24	11/11/94
Alkalinity, as CaCO3	EPA-310.1	860	mg/l	MC-F-42	11/11/94
Chloride	EPA-325.3	245	mg/l	MC-H-24	11/11/94
Total Kjeldahl Nitrogen-N	EPA-351.3	1.7	mg/l	LS-E-43	11/10/94
Biochemical Oxygen Demand 5	EPA-405.1	4	mg/l	SW-O	11/04/94
Bromide	EPA-320.1	1.8	mg/l	MC-B-4	11/11/94
Hardness ,Total as CaCO3	EPA-130.2	170	mg/l	JW-I-2E-66	11/07/94
Ammonia-N	EPA-350.1	0.3	mg/l	FM-B	11/08/94
Nitrate-N	EPA-353.1	<0.02	mg/l	FM-B	11/07/94
Phenols, Total	EPA-420.1	<0.002	mg/l	LS -M-12	11/11/94
Calcium	EPA-200.7	56.4	mg/l	JW-I-2E-66	11/07/94
Cadmium	EPA-200.7	<0.005	mg/l	JW-I-2E-66	11/07/94
Iron	EPA-200.7	0.57	mg/l	JW-I-2E-66	11/07/94



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CLIENT: Clough, Harbour & Associates

Date Sampled: 11/03/94

CLIENT'S SAMPLE ID: 104.5'-112.5'

Date sample received: 11/04/94

AES sample #: 941104 L02

Samples taken by: Joe Spollen

Location: Saugerties

MATRIX: ground water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Lead	EPA-239.2	<0.005	mg/l	WC-GME-113	11/10/94
Manganese	EPA-200.7	0.82	mg/l	JW-I-2E-66	11/07/94
Magnesium	EPA-200.7	6.9	mg/l	JW-I-2E-66	11/07/94
Potassium	EPA-200.7	2.9	mg/l	JW-I-2E-66	11/07/94
Sodium	EPA-200.7	561	mg/l	JW-I-2E-66	11/07/94
Arsenic	EPA-206.2	0.021	mg/l	JW-GLE-74	11/14/94



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CLIENT: Clough, Harbour & Associates

Date Sampled: 11/03/94

CLIENT'S SAMPLE ID: 79'-87'

Date sample received: 11/04/94

ES sample #: 941104 L03

Samples taken by: Joe Spollen

Location: Saugerties
grab

MATRIX: ground water

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
pH	EPA-150.1	7.2	su	SW-K-28	11/04/94
pH	Orion	202	mv	MC-D-42	11/11/94
Turbidity	EPA-180.1	27	ntu	FM-F-25	11/04/94
Specific Conductance	EPA-120.1	2410	umhos/cm	MC-D-42	11/11/94
Total Dissolved Solids	EPA-160.1	1500	mg/l	MC-J-28	11/11/94
Chemical Oxygen Demand	EPA-410.4	102	mg/l	FM-O-13	11/11/94
Total Organic Carbon	EPA-415.1	37	mg/l	FM-C-48	11/11/94
Sulfate	EPA-375.4	31	mg/l	SW-I-24	11/11/94
Alkalinity, as CaCO3	EPA-310.1	860	mg/l	MC-F-42	11/11/94
Chloride	EPA-325.3	250	mg/l	MC-H-24	11/11/94
Total Kjeldahl Nitrogen-N	EPA-351.3	2.0	mg/l	LS-E-43	11/10/94
Biochemical Oxygen Demand 5'	EPA-405.1	4	mg/l	SW-O	11/04/94
Bromide	EPA-320.1	1.7	mg/l	MC-B-4	11/11/94
Hardness, Total as CaCO3	EPA-130.2	168	mg/l	JW-I-2E-66	11/07/94
Ammonia-N	EPA-350.1	0.2	mg/l	FM-B	11/08/94
Nitrate-N	EPA-353.1	<0.02	mg/l	FM-B	11/07/94
Phenols, Total	EPA-420.1	<0.002	mg/l	LS -M-12	11/11/94
Calcium	EPA-200.7	56.6	mg/l	JW-I-2E-66	11/07/94
Cadmium	EPA-200.7	<0.005	mg/l	JW-I-2E-66	11/07/94
Iron	EPA-200.7	1.20	mg/l	JW-I-2E-66	11/07/94



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CLIENT: Clough, Harbour & Associates
CLIENT'S SAMPLE ID: 79'-87'

Date Sampled: 11/03/94
Date sample received: 11/04/94

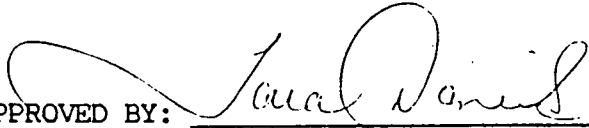
AES sample #: 941104 L03

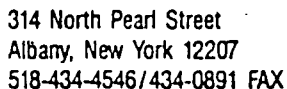
Samples taken by: Joe Spollen
MATRIX: ground water

Location: Saugerties
grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Lead	EPA-239.2	<0.005	mg/l	WC-GME-113	11/10/94
Manganese	EPA-200.7	0.71	mg/l	JW-I-2E-66	11/07/94
Magnesium	EPA-200.7	6.6	mg/l	JW-I-2E-66	11/07/94
Potassium	EPA-200.7	2.6	mg/l	JW-I-2E-66	11/07/94
Sodium	EPA-200.7	662	mg/l	JW-I-2E-66	11/07/94
Arsenic	EPA-206.2	0.026	mg/l	JW-GLE-74	11/14/94

APPROVED BY: 
Report date: 11/15/94



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[illegible]**Turnaround Time:**

Laboratory Approval:

Today

F. Sailer

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Dispatched by: (Signature)

Date/Time

Received for Laboratory by:

Date/Time

Method of Shipment:

Send Report To: //

Client Phone No.:

The Laboratory reserves the right to return hazardous samples to the client or may levy an appropriate fee per container for disposal.

WHITE - Lab Copy

YELLOW - Sampler Copy

PINK - Generator Copy

Adirondack Environmental Services, Inc.

APPENDIX VI
ROCK PRESSURE TEST LOGS

[illegible]

$$\begin{array}{r} 40 \\ 1520 \\ \underline{20} \\ 145 \end{array}$$

APPENDIX VII
STANDARD OPERATING PROCEDURES (SOPs)

HORIBA MODEL U-10 WATER QUALITY CHECKER

A. PURPOSE/SCOPE:

The HORIBA Model U-10 Water Quality Checker is used to measure **pH** (0-14), **Conductivity** (0-100 ms/cm), **Temperature** (0-50°C), **Dissolved Oxygen** (0-19.9 mg/l), and **Salinity** (0-4%).

B. EQUIPMENT/MATERIALS:

HORIBA model U-10: main unit, probe, dissolved oxygen sensor and tool, sample beaker, pH calibration solution, reference solution.

Battery Replacement:

The unit uses one 9 volt battery. This can be replaced by removing the back plate of the main unit. (Page 9 of instruction manual).

C. PROCEDURE:

1. Fill up sample beaker to the reference line on the side. Under filling the cup can cause inaccurate readings.
2. Insert the probe into the cup and turn on the power at the main unit.
3. Move the probe up and down in the cup slowly to circulate the water over the sensors. Use the **SELECT** key of the main unit to view the readings from the sensors. The order of measurement is: temperature, pH, dissolved oxygen, conductivity, and turbidity.
4. Rinse the probe with distilled water in between samples.
5. Consult pages 11-18 of instruction manual for further discussion.

D. QA/QC REQUIREMENTS:

The Horiba U-10 should be calibrated before each sampling session.

1. The autocalibration, described on pages 20-22 of the instruction manual, is sufficient for most sampling events.
2. Manual calibration, described on pages 23-34 of the instruction manual, is necessary when using the expanded readout mode or if a new probe is used.

E. SPECIAL CONDITIONS

1. The pH sensor has a rubber protective cap that should be wet and placed on the pH sensor when not in use. Remember to remove the cap before using the pH sensor.
2. The reference sensor should be recharged with fresh reference solution every two months (page 48 of the instruction manual).
3. The main unit is not waterproof. It must not be submerged in water or left out in the rain.

F. REFERENCES:

HORIBA U-10 Instruction Manual.

GROUNDWATER SAMPLING

A. PURPOSE/SCOPE:

To obtain representative ground-water samples from an aquifer.

B. EQUIPMENT/MATERIALS:

Inertial pump, submersible pump, disposable bailers, generator, sample bottles, bailing twine and rope, field analyses meters, sampling gloves, water level meters, filtration system, 2-inch Grundfos Rediflow pump and controller, well sampling forms.

C. PROCEDURE:

1. The wells will be sampled in order from the least contaminated well to the most contaminated well.
2. Using a decontaminated measurement probe, determine the water level in the well; then calculate the fluid volume in the casing.
3. Using a decontaminated surface pump, submersible pump or disposable bailer, purge the well of a minimum of one well volume. Purging will be conducted at the lowest flow rate possible to purge the well within a reasonable time frame and to decrease the potential for elevating the turbidity of the well water. Conductivity, pH, Eh, turbidity, and temperature readings shall be taken and recorded during the well purging. The well will be considered properly purged when a minimum of one well volume has been purged and the conductivity, pH, Eh, turbidity and temperature have stabilized. Turbidity should be below 50 NTU, if possible. Record these readings on the well sampling log.

It is important that none of the sampling equipment (pump, bailer, pump tubing, electrical cords, rope, etc.) come into contact with the ground.

4. Sample collection will be performed utilizing either an inertial pump system, submersible pump or disposable bailer. If the inertial pump system or submersible pump is used, samples will be obtained through the dedicated polyethylene tubing. Should disposable bailers be utilized, the sampling will be performed as follows:

Attach a new bailer line to the disposable bailer equipped with a single check valve. Check the operation of the check valve assembly to confirm free operation. Lower the single check valve bailer slowly into the well until it contacts the water surface. Then lower the bailer just below the water surface with a minimum of disturbance. When filled with groundwater, slowly raise the bailer to the surface. Discharge the first bailer to the ground. Tip the bailer to

allow the water to slowly discharge from the top and to flow gently down the inside of the sample bottle with minimum entry turbulence and aeration.

5. The order in which samples are to be collected is as follows:

volatile organic compounds,
purgable organic carbon,
purgeable organic halogens
total organic halogens
total organic carbon
extractable organic
total metals
dissolved metals
phenols
cyanide
sulfate and chloride
turbidity
nitrate and ammonia
radionuclides.

6. When collecting aliquots for analysis of volatile organic compounds, make absolutely certain that there are no bubbles adhering to the walls or the top of the VOA container.
7. Add appropriate preservatives to samples as described in SOP #605.
8. Label the sample containers with all necessary information and complete all chain-of-custody documents and seals.
9. Place the properly labeled and sealed sample bottles in a cooler with ice and maintain at 4°C for the duration of the sampling and transportation period. Do not allow samples to freeze.

D. QA/QC REQUIREMENTS:

To the extent possible, all samples should be collected using the same type of equipment and in the same manner to ensure comparability of data.

E. SPECIAL CONDITIONS:

Under Step 3, if sample turbidity cannot be reduced below 50 NTU, then the samplers should collect all portions of the sample except for the metals. The samplers should then return within 24 hours and collect a sample for total metals analysis from the top of the water column.

Step 4 can be replaced if purging and sampling is being performed with a Grundfos Rediflow pump. In this case, after well purging was completed, the discharge rate for the pump would be reduced to approximately 40 ml/minute. Sampling can then proceed

as described above.

E. REFERENCES:

None.



SMALL EQUIPMENT DECONTAMINATION

A. PURPOSE/SCOPE:

Decontamination will be performed between each sample collection point. (Waste products produced by the decontamination procedures such as waste liquids, solids, rags, gloves, etc., will be collected and disposed of properly based on the nature of contamination). See SOP #507 for specific details on the handling of decontamination wastes.

Decontamination of sampling equipment is performed to prevent cross contamination between samples.

B. EQUIPMENT/MATERIALS:

Alconox, tap water, distilled water, 20% methanol, 10% nitric acid, 1 gallon pressure spray bottles, long-handled brushes, 5 gallon plastic buckets

C. PROCEDURE:

1. Disassemble equipment, as required.
2. Remove gross contamination from the equipment by brushing and then rinsing with tap water.
3. Wash with Alconox and tap water.
4. Rinse with tap water.
5. Rinse with methanol when sampling for organics only.
6. Rinse with nitric acid when sampling for inorganics only.
7. Rinse with methanol and then with nitric acid when sampling for both organic and inorganic analytes.
8. Rinse with distilled water.
9. Air dry equipment.
10. Field personnel will use a new pair of outer gloves before handling sample equipment after it is cleaned.

11. If equipment is not to be used again immediately, it will be wrapped in aluminum foil.

D. QA/QC:

Field equipment rinsate blanks will be collected and used to assess the quality of equipment decontamination.

E. SPECIAL CONDITIONS:

Reusable PPE, such as respirators, chemical-resistant overboots, gloves shall also undergo the equipment decontamination sequence.

F. REFERENCES:

OSHA Health and Safety Manual for Hazardous Waste Site Activities.

QA/QC SAMPLES

A. PURPOSE/SCOPE:

Quality control samples are used to trace routes of contamination. Each type of sample traces a different route of contamination.

B. EQUIPMENT/MATERIALS:

Analyte-free water, appropriate sample containers.

C. PROCEDURE:

1. Duplicate Samples

Duplicate samples will be collected for every twenty (20) routine samples collected per matrix, per analysis. The duplicates will be collected in the same manner as their corresponding routine samples.

2. Matrix Spike and Matrix Spike Duplicate Samples

Matrix spikes and matrix spike duplicates are laboratory required quality control samples. However, the laboratory must be provided with additional sample volume for each sample matrix to complete their analysis. One matrix spike/matrix spike duplicate (MS/MSD) pair will be collected per matrix per 20 samples. Again, the MS/MSD pairs will be collected in the same manner as their corresponding routine samples.

3. Field Blank Samples

Field blanks are blanks prepared prior to the sampling event from clean, analyte-free materials most closely resembling the sample matrices to be collected in the field. The blanks are transported to the field along with the containers in which the routine samples will be collected. Once in the field, the caps of the field blanks are removed so that the field blanks are exposed to the same conditions as the routine samples. At the end of each location sampling event, the caps to the field blanks are replaced, and the blanks are then subjected to the same protocol as the routine samples. Field blanks are collected for water only.

4. Equipment Rinseate Samples

One equipment rinseate sample will be collected per every 20 samples collected, per analysis, per matrix. The equipment rinseate blank will be collected by pouring

analyte-free water, directly over decontaminated sampling equipment into a prepared sample container. The equipment rinseate blanks are then shipped to the laboratory with the other routine samples collected.

5. Trip Blank Samples

Trip blanks for volatile organic samples are prepared in the laboratory prior to the sampling event using analyte-free water. The trip blanks accompany the routine sample containers to the field, during collection of the samples in the field, and during transport of the routine volatile organic samples back to the laboratory. Trip blanks must remain un-opened until time of analysis. One trip blank sample will be used for each day of sampling for volatile organic compounds.

D. QA/QC REQUIREMENTS:

None.

E. SPECIAL CONDITIONS

None.

F. REFERENCES:

None.

CHAIN OF CUSTODY FORM

A. PURPOSE/SCOPE:

Sample custody is a necessary aspect to ensuring sample integrity. Sample custody is to be maintained during all sample handling activities. By definition, samples are in custody if they:

- are in the possession of an authorized individual;
- are in the field of vision of an authorized individual; and
- are in a secure area or a locked container.

In order to verify sample integrity, written conclusive proof is required that samples are collected, transferred, prepared, and analyzed in an unbroken chain. That written proof is a Chain-of-Custody form.

B. EQUIPMENT/MATERIALS:

Black ink pen, Chain-of-Custody forms (see attached example).

C. PROCEDURE:

To complete the form, the following information must be provided:

- The project number which is equivalent to the case number;
- An abbreviation for the project name; the contract lab is not to be given the full site name (note: the full site name is used for "in-house" analysis by CRL);
- The sampler's signature;
- The station number which may be equivalent to the station location;
- The date and time the sample was taken;
- Whether the sample is composite or grab;
- The number of containers in which the sample has been placed;
- The type of analyses requested;
- Under "Remarks" (in the upper right corner of the record), list the CLP sample number of the sample and the corresponding tag numbers;

- Under "Remarks" (in the lower right corner of the record), the airbill number of the container in which the samples will be shipped to the laboratory. (When samples are shipped to the laboratory via commercial carrier, the airbill serves as an extension of the chain-of-custody.); and
- Under "Relinquished by" and "Received by", the signature of every authorized person who maintains custody of the samples.

D. QA/QC REQUIREMENTS:

A second person should review all entries before the form is sealed in the sample cooler.

Mistakes should be corrected by crossing out the incorrect entry with a single line, initialing the line out, and entering the correct entry immediately adjacent to the incorrect entry.

E. SPECIAL CONDITIONS

None.

F. REFERENCES:

None.

APPENDIX VIII
FIELD DATA SHEETS
MONITORING WELL SAMPLING

Clough, Harbour & Associates Well Sampling Log		Sample Designation: <u>MW-1</u>	
Project Name: <u>Town of Sanger's Landfill</u> Project Location: <u>Sanger's NY</u>		Project No: <u>3716.0771</u> Date: <u>12/12/94</u> Screen Length: <u>22'</u>	

Purge Information:

(1) Depth to Bottom of Well: 26.15 (from TOC) (2) Depth to Water: 9.82 ft (from TOC)

(3) Column of Water: 16.37 (#1 - #2) (4) Casing Diameter: 3.25 in

(5) Volume Conversion: 0.43 gal/ft (6) 1 Vol. of Well: 7 gal

Method of Purging: WaTerra/Bailer/Submersible/Other: _____

Volume Conversion:

2" = 0.163 4" = 0.653 6" = 1.469 8" = 2.611 10" = 4.08

Field Analysis:

Vol Purged (gal)	1	2	3.5	5	6			
Time	11:00	11:10	11:20	11:30	11:40			
ORP/EH (MV)	195	200	200	200	200			
pH	9.16	9.03	8.80	8.62	8.64			
Cond. (MS/CM)	0.471	0.404	0.390	0.381	0.375			
Turb. (NTU)	24	19	24	31	33			
D.O. (mg/l)	12.33	12.02	11.59	11.30	11.57			
Temp. (°C)	10.7	9.2	9.3	9.4	9.3			

Total Volume Purged: 6 gal Total Purge Time: 50 min.

Sampling Info:

Sample Method: WaTerra No. of Bottles: 19

Sample Time: 11:40

Sample Analyses: Expanded Parameters

Comments:

Logged By: Joseph Spollen

Clough, Harbour & Associates Well Sampling Log		Sample Designation: <u>MW-2</u>	
Project Name: <u>Town of Saugerties landfill</u> Project Location: <u>Saugerties, NY</u>		Project No: <u>3716.07.71</u> Date: <u>12/12/94</u> Screen Length: <u>23.7</u>	

Purge Information:

(1) Depth to Bottom of Well: 29.40 (from TOC) (2) Depth to Water: 16.56 ft (from TOC)

(3) Column of Water: 12.54 (#1 - #2) (4) Casing Diameter: 3.25 in

(5) Volume Conversion: 0.43 gal/ft (6) 1 Vol. of Well: 5.4 gal

Method of Purging: WaTerra Bailer/Submersible/Other: _____

Volume Conversion:

2" = 0.163 4" = 0.653 6" = 1.469 8" = 2.611 10" = 4.08

Field Analysis:								
Vol Purged (gal)	<u>5</u>	<u>10</u>	<u>13</u>	<u>15</u>				
Time	<u>14:15</u>	<u>14:25</u>	<u>14:37</u>	<u>14:47</u>				
ORP/EH (MV)	<u>235</u>	<u>190</u>	<u>200</u>	<u>205</u>				
pH	<u>7.33</u>	<u>6.94</u>	<u>6.56</u>	<u>6.46</u>				
Cond. (MS/CM)	<u>.092</u>	<u>.099</u>	<u>.106</u>	<u>.112</u>				
Turb. (NTU)	<u>50</u>	<u>30</u>	<u>21</u>	<u>20</u>				
D.O. (mg/l)	<u>11.0</u>	<u>11.15</u>	<u>10.31</u>	<u>10.33</u>				
Temp. (°C)	<u>10.3</u>	<u>10.4</u>	<u>10.4</u>	<u>10.4</u>				

Total Volume Purged: 15 gal Total Purge Time: 42 min

Sampling Info:

Sample Method: WaTerra No. of Bottles: 19

Sample Time: 14:50

Sample Analyses: Expanded Parameters

Comments: _____

Logged By: J. Spollen

Clough, Harbour & Associates Well Sampling Log		Sample Designation: <u>MW-3</u>	
Project Name: <u>Town of Saugerties landfill</u> Project Location: <u>Saugerties NY</u>		Project No: <u>3716.07.71</u> Date: <u>12/12/94</u> Screen Length: <u>13.4'</u>	

Purge Information:

(1) Depth to Bottom of Well: 28.66 (from TOC) (2) Depth to Water: 14.18 ft (from TOC)

(3) Column of Water: 14.48 (#1 - #2) (4) Casing Diameter: 3.25 in

(5) Volume Conversion: 0.43 gal/ft (6) 1 Vol. of Well: 6.2 gal

Method of Purging: WaTerra Bailer/Submersible/Other: _____

Volume Conversion:

2" = 0.163 4" = 0.653 6" = 1.469 8" = 2.611 10" = 4.08

Field Analysis:

Vol Purged (gal)	<u>2.0</u>	<u>4.0</u>	<u>6.0</u>	<u>8.0</u>				
Time	<u>11:50</u>	<u>12:05</u>	<u>12:20</u>	<u>12:40</u>				
ORP/EH (MV)	<u>-50</u>	<u>-45</u>	<u>-45</u>	<u>-35</u>				
pH	<u>7.22</u>	<u>7.19</u>	<u>7.76</u>	<u>7.41</u>				
Cond. (MS/CM)	<u>1.22</u>	<u>1.08</u>	<u>1.04</u>	<u>1.04</u>				
Turb. (NTU)	<u>39</u>	<u>25</u>	<u>30</u>	<u>20</u>				
D.O. (mg/l)	<u>9.69</u>	<u>9.91</u>	<u>9.52</u>	<u>9.78</u>				
Temp. (°C)	<u>9.5</u>	<u>10.1</u>	<u>10.6</u>	<u>10.8</u>				

Total Volume Purged: 8.0 gal Total Purge Time: 1 hr 8 min

Sampling Info:

Sample Method: WaTerra No. of Bottles: 19

Sample Time: 12:40

Sample Analyses: Expanded Parameters

Comments: _____

Logged By: J. Spollen

Clough, Harbour & Associates Well Sampling Log				Sample Designation: <u>MW-4</u>			
Project Name: <u>Town of Saugerties landfill</u>				Project No: <u>3716.07.71</u>			
Project Location: <u>Saugerties, NY</u>				Date: <u>12/14/94</u>			
				Screen Length: <u>11.7</u>			
Purge Information:							
(1) Depth to Bottom of Well: <u>28.6</u> (from TOC)				(2) Depth to Water: <u>7.54</u> ft (from TOC)			
(3) Column of Water: <u>21.1</u> (#1 - #2)				(4) Casing Diameter: <u>3.25</u> in			
(5) Volume Conversion: <u>0.43</u> gal/ft				(6) 1 Vol. of Well: <u>9.1</u> gal			
Method of Purging: <u>WaTerra</u> Bailer/Submersible/Other: _____							
Volume Conversion:							
2" = 0.163 4" = 0.653 6" = 1.469 8" = 2.611 10" = 4.08							
Field Analysis:							
Vol Purged (gal)	<u>4</u>	<u>8</u>	<u>12</u>	<u>15</u>	<u>18</u>	<u>22</u>	
Time	<u>14:15</u>	<u>14:25</u>	<u>14:40</u>	<u>14:50</u>	<u>15:00</u>	<u>15:10</u>	
ORP/EH (MV)	<u>150</u>	<u>160</u>	<u>145</u>	<u>140</u>	<u>140</u>	<u>140</u>	
pH	<u>7.15</u>	<u>6.95</u>	<u>7.06</u>	<u>7.10</u>	<u>7.12</u>	<u>7.11</u>	
Cond. (MS/CM)	<u>.481</u>	<u>.515</u>	<u>.562</u>	<u>.573</u>	<u>.571</u>	<u>.563</u>	
Turb. (NTU)	<u>376</u>	<u>83</u>	<u>53</u>	<u>75</u>	<u>50</u>	<u>43</u>	
D.O. (mg/l)	<u>10.67</u>	<u>10.44</u>	<u>10.45</u>	<u>10.56</u>	<u>10.67</u>	<u>10.89</u>	
Temp. (°C)	<u>11.1</u>	<u>11.6</u>	<u>11.8</u>	<u>11.9</u>	<u>12.2</u>	<u>12.0</u>	
Total Volume Purged: <u>22</u> gal				Total Purge Time: <u>1 hr</u>			
Sampling Info:							
Sample Method: <u>WaTerra</u>				No. of Bottles: <u>19</u>			
Sample Time: <u>15:10</u>							
Sample Analyses: <u>Expanded Parameters</u>							
Comments: <u>MS / MSD samples taken</u>							
Logged By: <u>J. Spollen</u>							

Clough, Harbour & Associates Well Sampling Log				Sample Designation: <u>MW-6D</u>			
Project Name: <u>Town of Saugerties landfill</u>				Project No: <u>3716.07.71</u>			
Project Location: <u>Saugerties, NY</u>				Date: <u>12/14/95</u>			
				Screen Length: <u>10'</u>			
Purge Information:							
(1) Depth to Bottom of Well: <u>52'</u> (from TOC)				(2) Depth to Water: <u>21.14</u> ft (from TOC)			
(3) Column of Water: <u>30.86</u> (#1 - #2)				(4) Casing Diameter: <u>2</u> in			
(5) Volume Conversion: <u>0.163</u> gal/ft				(6) 1 Vol. of Well: <u>5.0</u> gal			
Method of Purging: <u>WaTerra</u> Bailer/Submersible/Other: _____							
Volume Conversion:							
2" = 0.163 4" = 0.653 6" = 1.469 8" = 2.611 10" = 4.08							
Field Analysis:							
Vol Purged (gal)	<u>2.5</u>	<u>5.0</u>	<u>7.0</u>	<u>NA</u>			
Time	<u>10:40</u>	<u>10:50</u>	<u>11:10</u>	<u>12:40</u>			
ORP/EH (MV)	<u>-30</u>	<u>-40</u>	<u>-55</u>	<u>-40</u>			
pH	<u>7.60</u>	<u>7.60</u>	<u>7.58</u>	<u>7.52</u>			
Cond. (MS/CM)	<u>1.53</u>	<u>1.50</u>	<u>1.78</u>	<u>1.90</u>			
Turb. (NTU)	<u>37</u>	<u>70</u>	<u>86</u>	<u>17</u>			
D.O. (mg/l)	<u>10.28</u>	<u>10.22</u>	<u>12.02</u>	<u>11.15</u>			
Temp. (°C)	<u>10.4</u>	<u>10.8</u>	<u>8.4</u>	<u>8.6</u>			
Total Volume Purged: <u>7.0</u> gal				Total Purge Time: <u>30 min</u>			
Sampling Info:							
Sample Method: <u>WaTerra</u>				No. of Bottles: <u>19</u>			
Sample Time: <u>11:35</u>							
Sample Analyses: <u>Expanded Parameters</u>							
Comments: <u>Well runs dry. Allowed to recharge then sample. Finish sampling at 12:40</u>							
Logged By: <u>J. Spollen</u>							

Clough, Harbour & Associates Well Sampling Log		Sample Designation: <u>MW-6X</u>	
Project Name: <u>Town of Saugerties landfill</u> Project Location: <u>Saugerties, NY</u>		Project No: <u>3716.07.71</u> Date: _____ Screen Length: _____	

Purge Information:

(1) Depth to Bottom of Well: 200 (from TOC) (2) Depth to Water: 73 ft (from TOC)

(3) Column of Water: 127 (#1 - #2) (4) Casing Diameter: 3.25 in

(5) Volume Conversion: 0.43 gal/ft (6) 1 Vol. of Well: 54.61 gal

Method of Purging: WaTerra Bailer/Submersible/Other: _____

Volume Conversion:

2" = 0.163 4" = 0.653 6" = 1.469 8" = 2.611 10" = 4.08

Field Analysis:

Vol Purged (gal)	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>				
Time	<u>14:25</u>	<u>14:38</u>	<u>14:49</u>	<u>15:00</u>				
ORP/EH (MV)	<u>-55</u>	<u>-35</u>	<u>-55</u>	<u>-35</u>				
pH	<u>8.31</u>	<u>8.25</u>	<u>8.21</u>	<u>8.28</u>				
Cond. (MS/CM)	<u>1.76</u>	<u>1.77</u>	<u>1.77</u>	<u>1.79</u>				
Turb. (NTU)	<u>30</u>	<u>22</u>	<u>20</u>	<u>16</u>				
D.O. (mg/l)	<u>10.25</u>	<u>9.96</u>	<u>9.36</u>	<u>9.97</u>				
Temp. (°C)	<u>9.9</u>	<u>9.6</u>	<u>10.0</u>	<u>10.0</u>				

Total Volume Purged: 20 gal Total Purge Time: 35 min

Sampling Info:

Sample Method: WaTerra No. of Bottles: 19

Sample Time: 14:50

Sample Analyses: Expanded Parameters

Comments: _____

Logged By: J. Spollen

Clough, Harbour & Associates Well Sampling Log				Sample Designation: <u>MW-N</u>			
Project Name: <u>Town of Saugerties Landfill</u>				Project No: <u>3716.07.71</u>			
Project Location: <u>Saugerties, NY</u>				Date: <u>12/13/94</u> Screen Length: <u>unknown</u>			

Purge Information:

(1) Depth to Bottom of Well: 23.9 (from TOC) (2) Depth to Water: 2.85 ft (from TOC)

(3) Column of Water: 21.05 (#1 - #2) (4) Casing Diameter: 4 in

(5) Volume Conversion: 0.653 gal/ft (6) 1 Vol. of Well: 13.74 gal

Method of Purging: WaTerra Bailer/Submersible/Other: _____

Volume Conversion:

2" = 0.163 4" = 0.653 6" = 1.469 8" = 2.611 10" = 4.08

Field Analysis:

Vol Purged (gal)	<u>4</u>	<u>5.5</u>	<u>7</u>	<u>8</u>	<u>8.5</u>	<u>9.0</u>	<u>10.0</u>	
Time	<u>09:18</u>	<u>09:28</u>	<u>09:40</u>	<u>09:52</u>	<u>10:03</u>	<u>10:12</u>	<u>10:22</u>	
ORP/EH (MV)	<u>270</u>	<u>225</u>	<u>185</u>	<u>160</u>	<u>110</u>	<u>110</u>	<u>105</u>	
pH	<u>8.06</u>	<u>8.29</u>	<u>8.30</u>	<u>8.27</u>	<u>8.14</u>	<u>8.10</u>	<u>8.03</u>	
Cond. (MS/CM)	<u>.635</u>	<u>.616</u>	<u>.614</u>	<u>.616</u>	<u>.611</u>	<u>.608</u>	<u>.602</u>	
Turb. (NTU)	<u>17</u>	<u>18</u>	<u>24</u>	<u>28</u>	<u>29</u>	<u>28</u>	<u>37</u>	
D.O. (mg/l)	<u>12.44</u>	<u>10.10</u>	<u>10.98</u>	<u>11.41</u>	<u>10.68</u>	<u>11.45</u>	<u>9.62</u>	
Temp. (°C)	<u>11.2</u>	<u>9.9</u>	<u>8.5</u>	<u>8.7</u>	<u>8.4</u>	<u>6.1</u>	<u>8.8</u>	

Total Volume Purged: 10 gal Total Purge Time: 1 hr 14 min

Sampling Info:

Sample Method: WaTerra No. of Bottles: 19

Sample Time: 10:28

Sample Analyses: Expanded Parameters

Comments: pumps to a trickle, goes dry after 13 bottles

Logged By: J. Spollen

Clough, Harbour & Associates Well Sampling Log					Sample Designation: <u>MW-5</u>			
Project Name: <u>Town of Saugerties Landfill</u>					Project No: <u>3716.07.71</u>			
Project Location: <u>Saugerties, NY</u>					Date: <u>12/14/94</u>			
					Screen Length: <u>Unknown</u>			
Purge Information:								
(1) Depth to Bottom of Well: <u>24.95</u> (from TOC)					(2) Depth to Water: <u>3.78</u> ft (from TOC)			
(3) Column of Water: <u>21.17</u> (#1 - #2)					(4) Casing Diameter: <u>3.25</u> in			
(5) Volume Conversion: <u>0.43</u> gal/ft					(6) 1 Vol. of Well: <u>9.1</u> gal			
Method of Purging: <u>WaTerra</u> Bailer/Submersible/Other: _____								
Volume Conversion:								
2" = 0.163 4" = 0.653 6" = 1.469 8" = 2.611 10" = 4.08								
Field Analysis:								
Vol Purged (gal)	<u>2</u>	<u>4</u>	<u>6</u>	<u>8</u>				
Time	<u>16:20</u>	<u>16:25</u>	<u>16:30</u>	<u>16:35</u>				
ORP/EH (MV)	<u>195</u>	<u>25</u>	<u>25</u>	<u>20</u>				
pH	<u>7.13</u>	<u>7.15</u>	<u>7.16</u>	<u>7.15</u>				
Cond. (MS/CM)	<u>2.14</u>	<u>2.22</u>	<u>2.23</u>	<u>2.27</u>				
Turb. (NTU)	<u>23</u>	<u>30</u>	<u>27</u>	<u>24</u>				
D.O. (mg/l)	<u>11.13</u>	<u>10.97</u>	<u>11.04</u>	<u>11.10</u>				
Temp. (°C)	<u>10.2</u>	<u>10.9</u>	<u>10.7</u>	<u>10.7</u>				
Total Volume Purged: <u>8</u> gal					Total Purge Time: <u>20 min</u>			
Sampling Info:								
Sample Method: <u>WaTerra</u>					No. of Bottles: <u>19</u>			
Sample Time: <u>16:35</u>								
Sample Analyses: <u>Expanded Parameters</u>								
Comments: _____								

Logged By: <u>J. Spollen</u>								

APPENDIX IX
LABORATORY TEST DATA
MONITORING WELLS





A full service analytical research laboratory offering solutions to environmental concerns
314 North Pearl Street • Albany, New York 12207 • 518 434-4546 • Fax: 518 434-0891

Clough, Harbour and Associates
3 Winners Circle
Albany, NY 12205

Attention: Margaret Scrodanus

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FEB 03 1995

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3 Winners Circle
Albany, NY 12205

Attention: Margaret Scrodanus



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TITLE PAGE

Over the period of December 13, 1994 through December 15, 1994 eight (8) water samples were received by Adirondack Environmental Services, Inc. from Clough Harbour & Associates in association with the Saugerties Landfill Project. These samples were analyzed for parameters as annotated on the Chain of Custody in accordance with the 12/91 NYSDEC Analytical Services Protocol (ASP). The project was completed on February 2, 1995.

Frank Scuderi
Laboratory Director

Date: Feb 2, 1995



000001

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CASE NARRATIVE

Client : Clough, Harbour, & Associates - Saugerties

Case : C17000

SDG : MW-N

Samples : MW-N
MW-S
MW-1
MW-2
MW-3
MW-4
MW-6D
MW-6X

Note: A. The notation "DNC" appearing in the data package denotes that a compound "Did Not Confirm" on a second column analysis.

VOLATILES

The following guidelines were used for **additional** compounds (VAPX designation) not specified on the Target Compound List (TCL), since little or no QA/QC criteria is notated in SW846 or ASP guidelines for the additional non-TCL compounds:

1. A three-point curve was analyzed.
2. Quantitation, if any, was performed using the average RRF.
3. At the conclusion of the analysis another "additional non-TCL" compound standard was be analyzed to verify the validity of the curve.
4. %D's are notated and were assessed as reasonable values.



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Fluorobenzene was used as the internal standard for the volatile analysis. This internal standard does not interfere with any of the compounds listed under the new expanded listing of "6NYCRR Part 360" dated 10/9/93, and is documented elsewhere, under other approved volatile methods (EPA-524.2). The internal standard, bromochloromethane currently listed under method 91-1 in the 12/91 ASP, is now a compound of interest in the baseline parameter listing of part 360. As a result, the "normal" internal standard spiking solution could not be utilized. The recoveries of fluorobenzene have been summarized on forms 8 in the data package, and are all within the required limits.

For p-BFB tune criteria, the laboratory has followed section E-41 as specified in the 12/91 ASP (E-40) defining actions for discrepant cases. Sections B-123, and D-II-29, which display different criteria, have been disregarded. All tune criteria, according to the above referenced section "E" have been met in this instance.

The concentrations of cis and trans-1,3-Dichloropropene are 81 and 19 ppb respectively in all initial and continuing calibration standards. This factor should be considered in calculations concerning these compounds.

All samples were fixed.

The RRF for the compound, trichloroethene, was slightly below 0.300 at 0.290, 0.292, and 0.286 in the initial calibration (12/19/94), continuing calibrations DS652, and DS653 respectively. In addition, the RRF for the compound, 1,1-dichloroethene was slightly below 0.100 at 0.085. These compounds were not detected in any of the samples in the data package.



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SEMIVOLATILES

The following guidelines were used for **additional** compounds (SAPX designation) not specified on the Target Compound List (TCL), since little or no QA/QC criteria is notated in SW846 or ASP guidelines for the additional non-TCL compounds:

1. A five-point curve was analyzed.
2. At the conclusion of the analysis another "additional non-TCL" compound standard was be analyzed to verify the validity of the curve.
3. %D's are notated and were assessed as reasonable values.

The target compound, di-n-butylphthalate, is an extra spiking compound in the MS and MSD. The addition of this extra compound does not have a negative impact on the data presented. The recovery of di-n-butylphthalate has not been recorded on form III in the data package, since it is not required.

PESTICIDE/PCB

Peak area was used to calculate all values appearing in the data package.

ORGANOPHOSPHOROUS PESTICIDES

Peak area was used to calculate all values appearing in the data package.

The compound disulfoton was outside of the advisory limits in the MS/MSD/MSB. This retention time for this compound was detected in the window for samples MW-S, MW-3, and MW-6X. Sample concentrations were below the detection limit for all of the aforementioned samples except MW-S.

The recovery of the spiking compound dimethoate was outside of the advisory limits in the MS/MSD of sample MW-4. In addition, the recovery of the compound ooo-TEP was outside of the advisory range in the MS and low, but just within the limits in the corresponding MSD. These results indicate that inherent matrix affects may exist.



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HERBICIDES

Peak area was used to calculate all values appearing in the data package.

Sample MW-S was diluted 5-fold prior to analysis due to dark coloration of the sample.

The surrogate DCPAA was outside of the advisory limits in samples MW-3 and MW-6D. These results indicate that inherent matrix affects may exist.

PRONAMIDE, KEPONE, ISODRIN, DIALATE - (PKID)

During analysis, peak height was used to calculate diallate and pronamide values. Kepone, and isodrin values were calculated using peak area.

Low level ("J"-flagged) compounds detected in the RT windows for Kepone were not confirmed by second column analysis.

All samples were florasil and sulfur cleaned in order to alleviate inherent matrix affects.

INORGANICS

The following elements are outside of the specified range for pre-digestion spike recovery (75-125%) and have been flagged "N" on forms 1 and 5A in the data package as required. This may indicate possible matrix interferences.

<u>Pre-Digestion Spike</u>	<u>Element(s)</u>	<u>ICP Post Spike</u>
MW-4	Hg(140.6)	AV
MW-4	Se(130.0)	GFAA
MW-4	Tl(50.8)	GFAA
MW-4	As(2938.5)	GFAA
MW-4	V (68.6)	106.3

The following sample(s) were diluted five fold and reanalyzed due to results obtained in the GFAA post-spike (<40 %R):

<u>SAMPLE NAME</u>	<u>ANALYTE</u>
MW-S	As, Tl
MW-2	Se
MW-6D	Tl
MW-6X	Tl



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The element Sodium has been flagged "E" as required on forms 1 and 9 in the data package due to results obtained from the serial dilution analysis of sample MW-4. These results indicate that possible chemical interferences may exist.

CONVENTIONAL

The first continuing calibration blank contained ammonia slightly above the CRDL of 100 ppb, at 119 ppb. Samples following were either less than the detection limit, or much higher than the blank value noted above.

The second continuing calibration blank contained nitrate above the CRDL of 20 ppb, at 33 ppb. Samples following were blanks and laboratory control samples. Both QA samples adequately met QA/QC criteria.

I certify that this data package is in compliance with the terms and conditions of the protocol, both technically and for completeness, to the best of my knowledge, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.


Laboratory Director

Date: Feb 2, 1995



000006

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DATA INFORMATION SHEET

SDG: MW-N Client: CLOUGH, HARBOUR, & ASSOC. Case No.: C17000

EXTRACTION SUMMARY Herbicides:

Matrix = WATER

Final volume after extraction (ML) = 1

Blank extraction amount (g or ml) = 100 ml

Column Analysis - 2.0 ul analyzed

EXTRACTION SUMMARY O-P PESTICIDES:

Matrix = WATER

Final volume after extraction (ML) = 1

Blank extraction amount (g or ml) = 1000 ml

Column Analysis - 2.0 ul analyzed

EXTRACTION SUMMARY PKID:

Matrix = WATER

Final volume after extraction (ML) = 10

Blank extraction amount (g or ml) = 1000 ml

Column Analysis - 2.0 ul analyzed



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SDG: MW-N Client: CLOUGH, HARBOUR, & ASSOC. Case No.: C17000

SPIKE SUMMARIES:

Herbicides

Average 2,4-DCPAA area used for calculations = 236119
(norm. to 1.0 ppm) (DB5)

Average 2,4-DCPAA area used for calculations = 3484053
(norm. to 1.0 ppm) (DB1701)

O-P Pesticides

Average TPP area used for calculations = 12993 (norm. to 1.0
ppm) (DB1)

PKID

Average DCB area used for calculations = 929969 (norm. to
1.0) (DB5) (Note: 0.2 ppm DCB added to samples)

SAMPLE CALCULATIONS:

Detected Compound, Herbicides :

Sample Name - HMSB Compound - 2,4-D

sample area x final volume (ul) x DF = []

CF (ave.) x ul inj. x ml ext.

210111 x 1000 x 1
_____ = ppb

152605 x 2.0 x 100
= 6.9 ug/L

000008



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SDG: MW-N Client: CLOUGH, HARBOUR, & ASSOC. Case No.: C17000

Detected Compound, O-P Pesticides:

Sample Name - MW-S Compound - methyl parathion

sample area x final volume (ul) x DF = []

CF (ave.) x ul inj. x ml ext.

3595 x 1000 x 1

= ppb

10218 x 2.0 x 1000

= 0.176 ug/L

Detected Compound, PKID:

Sample Name - MW-N Compound - Kepone

sample area x final volume (ul) x DF = []

CF (ave.) x ul inj. x ml ext.

3937 x 10000 x 1

= ppb

1738815 x 2.0 x 1000

= 0.011 ug/L

000009

SAMPLE
DATA
SUMMARY
PACKAGE

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000010

MW-N

Lab Name: AES, Inc. Contract: _____
Lab Code: AES Case No.: C17000 SAS No.: _____ SDG No.: MW-N
Matrix: (soil/water) WATER Lab Sample ID: MW-N
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: D2976
Level: (low/med) LOW Date Received: 12/15/94
% Moisture: not dec. _____ Date Analyzed: 12/22/94
GC Column: RTX502.2 ID: .25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

74-97-5-----	Bromochloromethane	10.	U
74-87-3-----	Chloromethane	10.	U
74-83-9-----	Bromomethane	10.	U
75-01-4-----	Vinyl Chloride	10.	U
75-00-3-----	Chloroethane	10.	U
75-09-2-----	Methylene Chloride	10.	U
67-64-1-----	Acetone	10.	U
75-69-4-----	Trichlorofluoromethane	10.	U
75-15-0-----	Carbon Disulfide	10.	U
75-35-4-----	1,1-Dichloroethene	10.	U
75-34-3-----	1,1-Dichloroethane	10.	U
67-66-3-----	Chloroform	10.	U
107-06-2-----	1,2-Dichloroethane	10.	U
78-93-3-----	2-Butanone	10.	U
71-55-6-----	1,1,1-Trichloroethane	10.	U
56-23-5-----	Carbon Tetrachloride	10.	U
108-05-4-----	Vinyl Acetate	10.	U
75-27-4-----	Bromodichloromethane	10.	U
78-87-5-----	1,2-Dichloropropane	10.	U
10061-01-5-----	cis-1,3-Dichloropropene	10.	U
79-01-6-----	Trichloroethene	10.	U
124-48-1-----	Dibromochloromethane	10.	U
79-00-5-----	1,1,2-Trichloroethane	10.	U
71-43-2-----	Benzene	10.	U
10061-02-6-----	trans-1,3-Dichloropropene	10.	U
75-25-2-----	Bromoform	10.	U
591-78-6-----	2-Hexanone	10.	U
108-10-1-----	4-Methyl-2-Pentanone	10.	U
127-18-4-----	Tetrachloroethene	10.	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10.	U
108-88-3-----	Toluene	10.	U
108-90-7-----	Chlorobenzene	10.	U
100-41-4-----	Ethylbenzene	10.	U
100-42-5-----	Styrene	10.	U
1330-20-7-----	Xylenes (total)	10.	U
74-88-4-----	Iodomethane	10.	U
107-13-1-----	Acrylonitrile	25.	U
74-95-3-----	Dibromomethane	10.	U
630-20-6-----	1,1,1,2-tetrachloroethane	10.	U
110-57-6-----	1,4-Dichloro-2-Butene	10.	U
96-18-4-----	1,2,3-Trichloropropane	10.	U
96-12-8-----	1,2-dibromo-3-chloro-Propane	10.	U
156-60-5-----	1,2-Dichloroethene-trans	10.	U
156-59-2-----	1,2-Dichloroethene-cis	10.	U
106-93-4-----	Ethylene Dibromide	10.	U

1A
ORGANICS ANALYSIS DATA SHEET

000011

EPA Sample No.

Lab Name: AES INC

Contract: _____

MW-N

Lab Code: AES

Case No: C17000

SAS No. ____ SDG No.: MW-N

Matrix (SOIL/WATER) : WATER

Lab Sample ID: MW-N

Sample wt/vol: .50 ML

File ID: D2976

Level: (LOW/MED) LOW

Date Received: 12/15/94

Date Analyzed: 12/22/94

% Moisture: not dec. ____ dec. ____

Dil. Factor: 1.0

Column: (PACK/CAP) : CAP

Concentration Units:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		IQ
75-71-8	Dichlorodifluoromethane	10	U
75-05-8	Acetonitrile	25	U
107-02-8	Acrolein	100	U
107-12-0	Propionitrile	25	U
107-05-1	Allyl Chloride	5	U
126-98-7	Methacrylonitrile	10	U
78-83-1	Isobutyl alcohol	100	U
126-99-8	Chloroprene	10	U
80-62-6	Methyl Methacrylate	10	U
594-20-7	2,2-Dichloropropane	10	U
563-58-6	1,1-Dichloropropene	10	U
142-28-9	1,3-Dichloropropane	10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-S

000012

Lab Name: AES, Inc. Contract: _____
Lab Code: AES Case No.: C17000 SAS No.: _____ SDG No.: MW-N
Matrix: (soil/water) WATER Lab Sample ID: MW-S
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 02963
Level: (low/med) LOW Date Received: 12/15/94
% Moisture: not dec. _____ Date Analyzed: 12/21/94
GC Column: RTX502.2 ID: .25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

74-97-5	Bromochloromethane	10.	U
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-69-4	Trichlorofluoromethane	10.	U
75-15-0	Carbon Disulfide	7.	BJ
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
67-66-3	Chloroform	3.	BJ
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	1.	J
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
591-78-6	2-Hexanone	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
103-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	6.	J
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	Xylenes (total)	10.	U
74-88-4	Iodomethane	10.	U
107-13-1	Acrylonitrile	25.	U
74-95-3	Dibromomethane	10.	U
630-20-6	1,1,1,2-tetrachloroethane	10.	U
110-57-6	1,4-Dichloro-2-Butene	10.	U
96-18-4	1,2,3-Trichloropropane	10.	U
96-12-8	1,2-dibromo-3-chloro-Propane	10.	U
156-60-5	1,2-Dichloroethene-trans	10.	U
156-59-2	1,2-Dichloroethene-cis	10.	U
106-93-4	Ethylene Dibromide	10.	U

000010

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1A

ORGANICS ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: AES INC

Contract: _____

MW-S

Lab Code: AES

Case No: C17000

SAS No. _____ SDG No.: MW-N

Matrix (SOIL/WATER) : WATER

Lab Sample ID: MW-S

Sample wt/vol: 5.0 ML

File ID: D2963

Level: (LOW/MED) LOW

Date Received: 12/15/94

Date Analyzed: 12/21/94

% Moisture: not dec. _____ dec. _____

Dil. Factor: 1.0

Column: (PACK/CAP) : CAP

Concentration Units:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		IQ
75-71-8	Dichlorodifluoromethane	10	U
75-05-8	Acetonitrile	25	U
107-02-8	Acrolein	100	U
107-12-0	Propionitrile	25	U
107-05-1	Allyl Chloride	5	U
126-98-7	Methacrylonitrile	10	U
78-83-1	Isobutyl alcohol	100	U
126-99-8	Chloroprene	10	U
80-62-6	Methyl Methacrylate	10	U
594-20-7	2,2-Dichloropropane	10	U
563-58-6	1,1-Dichloropropene	10	U
142-28-9	1,3-Dichloropropane	10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000014

Lab Name: AES, Inc. Contract: MW-1
Lab Code: AES Case No.: C17000 SAS No.: SDG No.: MW-N
Matrix: (soil/water) WATER Lab Sample ID: MW-1
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: D2956
Level: (low/med) LOW Date Received: 12/13/94
% Moisture: not dec. Date Analyzed: 12/21/94
GC Column: RTX502.2 ID: .25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

74-97-5	Bromochloromethane	10.	U
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-69-4	Trichlorofluoromethane	10.	U
75-15-0	Carbon Disulfide	8.	BJ
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
591-78-6	2-Hexanone	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	Xylenes (total)	10.	U
74-88-4	Iodomethane	10.	U
107-13-1	Acrylonitrile	25.	U
74-95-3	Dibromomethane	10.	U
630-20-6	1,1,1,2-tetrachloroethane	10.	U
110-57-6	1,4-Dichloro-2-Butene	10.	U
96-18-4	1,2,3-Trichloropropane	10.	U
96-12-8	1,2-dibromo-3-chloro-Propane	10.	U
156-60-5	1,2-Dichloroethene-trans	10.	U
156-59-2	1,2-Dichloroethene-cis	10.	U
106-93-4	Ethylene Dibromide	10.	U

000015

1A

ORGANICS ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: AES INC

Contract: _____

MW-1

Lab Code: AES

Case No: C17000

SAS No. _____ SDG No.: MW-N

Matrix (SOIL/WATER) : WATER

Lab Sample ID: MW-1

Sample wt/vol: .25 ML

File ID: D2956

Level: (LOW/MED) LOW

Date Received: 12/13/94

Date Analyzed: 12/21/94

% Moisture: not dec. _____ dec. _____

Dil. Factor: 1.0

Column: (PACK/CAP) : CAP

Concentration Units:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	10	U
75-05-8	Acetonitrile	25	U
107-02-8	Acrolein	100	U
107-12-0	Propionitrile	25	U
107-05-1	Allyl Chloride	5	U
126-98-7	Methacrylonitrile	10	U
78-83-1	Isobutyl alcohol	100	U
126-99-8	Chloroprene	10	U
80-62-6	Methyl Methacrylate	10	U
594-20-7	2,2-Dichloropropane	10	U
563-58-6	1,1-Dichloropropene	10	U
142-28-9	1,3-Dichloropropane	10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000016

MW-2

Lab Name: AES, Inc. Contract: _____
Lab Code: AES Case No.: C17000 SAS No.: _____ SDG No.: MW-N
Matrix: (soil/water) WATER Lab Sample ID: MW-2
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 02957
Level: (low/med) LOW Date Received: 12/13/94
% Moisture: not dec. _____ Date Analyzed: 12/21/94
GC Column: RTX502.2 ID: .25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

74-97-5	Bromochloromethane	10.	U
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-69-4	Trichlorofluoromethane	10.	U
75-15-0	Carbon Disulfide	7.	BJ
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
591-78-6	2-Hexanone	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	Xylenes (total)	10.	U
74-88-4	Iodomethane	10.	U
107-13-1	Acrylonitrile	25.	U
74-95-3	Dibromomethane	10.	U
630-20-6	1,1,1,2-tetrachloroethane	10.	U
110-57-6	1,4-Dichloro-2-Butene	10.	U
96-18-4	1,2,3-Trichloropropane	10.	U
96-12-8	1,2-dibromo-3-chloro-Propane	10.	U
156-60-5	1,2-Dichloroethene-trans	10.	U
156-59-2	1,2-Dichloroethene-cis	10.	U
106-93-4	Ethylene Dibromide	10.	U

000027

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1A
ORGANICS ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: AES INC

Contract: _____

MW-2

Lab Code: AES

Case No: C17000

SAS No. _____

SDG No.:

MW-N

Matrix (SOIL/WATER) : WATER

Lab Sample ID: MW-2

Sample wt/vol: 5.0 ML

File ID: 02957

Level: (LOW/MED) LOW

Date Received: 12/13/94

Date Analyzed: 12/21/94

% Moisture: not dec. _____ dec. _____

Dil. Factor: 1.0

Column: (PACK/CAP) : CAP

Concentration Units:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	10	U
75-05-8	Acetonitrile	25	U
107-02-8	Acrolein	100	U
107-12-0	Propionitrile	25	U
107-05-1	Allyl Chloride	5	U
126-98-7	Methacrylonitrile	10	U
78-83-1	Isobutyl alcohol	100	U
126-99-8	Chloroprene	10	U
80-62-6	Methyl Methacrylate	10	U
594-20-7	2,2-Dichloropropane	10	U
563-58-6	1,1-Dichloropropene	10	U
142-28-9	1,3-Dichloropropane	10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-3

000018

Lab Name: AES, Inc. Contract: _____
Lab Code: AES Case No.: C17000 SAS No.: _____ SDG No.: MW-N
Matrix: (soil/water) WATER Lab Sample ID: MW-3
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: D2967
Level: (low/med) LOW Date Received: 12/14/94
% Moisture: not dec. _____ Date Analyzed: 12/21/94
GC Column: RTX502.2 ID: .25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

74-97-5-----	Bromochloromethane	10.	U
74-87-3-----	Chloromethane	10.	U
74-83-9-----	Bromomethane	10.	U
75-01-4-----	Vinyl Chloride	10.	U
75-00-3-----	Chloroethane	10.	U
75-09-2-----	Methylene Chloride	10.	U
67-64-1-----	Acetone	10.	U
75-69-4-----	Trichlorofluoromethane	10.	U
75-15-0-----	Carbon Disulfide	8.	BJ
75-35-4-----	1,1-Dichloroethene	10.	U
75-34-3-----	1,1-Dichloroethane	10.	U
67-66-3-----	Chloroform	3.	BJ
107-06-2-----	1,2-Dichloroethane	10.	U
78-93-3-----	2-Butanone	10.	U
71-55-6-----	1,1,1-Trichloroethane	10.	U
56-23-3-----	Carbon Tetrachloride	10.	U
108-05-4-----	Vinyl Acetate	10.	U
75-27-4-----	Bromodichloromethane	10.	U
78-67-5-----	1,2-Dichloropropane	10.	U
10061-01-5-----	cis-1,3-Dichloropropene	10.	U
79-01-6-----	Trichloroethene	10.	U
124-46-1-----	Dibromochloromethane	10.	U
79-00-5-----	1,1,2-Trichloroethane	10.	U
71-43-2-----	Benzene	1.	J
10061-02-6-----	trans-1,3-Dichloropropene	10.	U
75-25-2-----	Bromoform	10.	U
591-78-6-----	2-Hexanone	10.	U
108-10-1-----	4-Methyl-2-Pentanone	10.	U
127-18-4-----	Tetrachloroethene	10.	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10.	U
108-88-3-----	Toluene	10.	U
108-90-7-----	Chlorobenzene	1.	J
100-41-4-----	Ethylbenzene	10.	U
100-42-5-----	Styrene	10.	U
1330-20-7-----	Xylenes (total)	10.	U
74-88-4-----	Iodomethane	10.	U
107-13-1-----	Acrylonitrile	25.	U
74-95-3-----	Dibromomethane	10.	U
630-20-6-----	1,1,1,2-tetrachloroethane	10.	U
110-57-6-----	1,4-Dichloro-2-Butene	10.	U
96-18-4-----	1,2,3-Trichloropropane	10.	U
96-12-8-----	1,2-dibromo-3-chloro-Propane	10.	U
156-60-5-----	1,2-Dichloroethene-trans	10.	U
156-59-2-----	1,2-Dichloroethene-cis	10.	U
106-93-4-----	Ethylene Dibromide	10.	U

1A
ORGANICS ANALYSIS DATA SHEET

EPA Sample No. **000019**

Lab Name: AES INC

Contract: _____

MW-3

Lab Code: AES

Case No: C17000

SAS No. ____

SDG No.: ____

MW-N

Matrix (SOIL/WATER) : WATER

Lab Sample ID: MW-3

Sample wt/vol: .25 ML

File ID: D2967

Level: (LOW/MED) LOW

Date Received: 12/14/94

Date Analyzed: 12/21/94

% Moisture: not dec. ____ dec. ____

Dil. Factor: 1.0

Column: (PACK/CAP) : CAP

Concentration Units:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	10	U
75-05-8	Acetonitrile	25	U
107-02-8	Acrolein	100	U
107-12-0	Propionitrile	25	U
107-05-1	Allyl Chloride	5	U
126-98-7	Methacrylonitrile	10	U
78-83-1	Isobutyl alcohol	100	U
126-99-8	Chloroprene	10	U
80-62-6	Methyl Methacrylate	10	U
594-20-7	2,2-Dichloropropane	10	U
563-58-6	1,1-Dichloropropene	10	U
142-28-9	1,3-Dichloropropane	10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-4

000020

Lab Name: AES, Inc. Contract:
Lab Code: AES Case No.: C17000 SAS No.: SDG No.: MW-N
Matrix: (soil/water) WATER Lab Sample ID: MW-4
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: D2962
Level: (low/med) LOW Date Received: 12/15/94
% Moisture: not dec. Date Analyzed: 12/21/94
GC Column: RTX502.2 ID: .25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
74-97-5-----	Bromochloromethane	10.	U
74-87-3-----	Chloromethane	10.	U
74-83-9-----	Bromomethane	10.	U
75-01-4-----	Vinyl Chloride	10.	U
75-00-3-----	Chloroethane	10.	U
75-09-2-----	Methylene Chloride	10.	U
67-64-1-----	Acetone	10.	U
75-69-4-----	Trichlorofluoromethane	10.	U
75-15-0-----	Carbon Disulfide	8.	BJ
75-35-4-----	1,1-Dichloroethene	10.	U
75-34-3-----	1,1-Dichloroethane	5.	J
67-66-3-----	Chloroform	10.	U
107-06-2-----	1,2-Dichloroethane	10.	U
78-93-3-----	2-Butanone	10.	U
71-55-6-----	1,1,1-Trichloroethane	4.	J
56-23-5-----	Carbon Tetrachloride	10.	U
108-05-4-----	Vinyl Acetate	10.	U
75-27-4-----	Bromodichloromethane	10.	U
78-87-5-----	1,2-Dichloropropane	10.	U
10061-01-5-----	cis-1,3-Dichloropropene	10.	U
79-01-6-----	Trichloroethene	10.	U
124-48-1-----	Dibromochloromethane	10.	U
79-00-5-----	1,1,2-Trichloroethane	10.	U
71-43-2-----	Benzene	10.	U
10061-02-6-----	trans-1,3-Dichloropropene	10.	U
75-25-2-----	Bromoform	10.	U
591-78-6-----	2-Hexanone	10.	U
108-10-1-----	4-Methyl-2-Pentanone	10.	U
127-18-4-----	Tetrachloroethene	10.	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10.	U
108-88-3-----	Toluene	10.	U
108-90-7-----	Chlorobenzene	10.	U
100-41-4-----	Ethylbenzene	10.	U
100-42-5-----	Styrene	10.	U
1330-20-7-----	Xylenes (total)	10.	U
74-88-4-----	Iodomethane	10.	U
107-13-1-----	Acrylonitrile	25.	U
74-95-3-----	Dibromomethane	10.	U
630-20-6-----	1,1,1,2-tetrachloroethane	10.	U
110-57-6-----	1,4-Dichloro-2-Butene	10.	U
96-18-4-----	1,2,3-Trichloropropane	10.	U
96-12-8-----	1,2-dibromo-3-chloro-Propane	10.	U
156-60-5-----	1,2-Dichloroethene-trans	10.	U
156-59-2-----	1,2-Dichloroethene-cis	10.	U
106-93-4-----	Ethylene Dibromide	10.	U

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000001

1A
ORGANICS ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: AES INC

Contract: _____

MW-4

Lab Code: AES

Case No: C17000

SAS No. _____

SDG No.:

MW-N

Matrix (SOIL/WATER) : WATER

Lab Sample ID: MW-4

Sample wt/vol: 5.0 ML

File ID: 02962

Level: (LOW/MED) LOW

Date Received: 12/15/94

Date Analyzed: 12/21/94

% Moisture: not dec. _____ dec. _____

Dil. Factor: 1.0

Column: (PACK/CAP) : CAP

Concentration Units:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	10	U
75-05-8	Acetonitrile	25	U
107-02-8	Acrolein	100	U
107-12-0	Propionitrile	25	U
107-05-1	Allyl Chloride	5	U
126-98-7	Methacrylonitrile	10	U
78-83-1	Isobutyl alcohol	100	U
126-99-8	Chloroprene	10	U
80-62-6	Methyl Methacrylate	10	U
594-20-7	2,2-Dichloropropane	10	U
563-58-6	1,1-Dichloropropene	10	U
142-28-9	1,3-Dichloropropane	10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-6D

Lab Name: AES, Inc. Contract: _____
Lab Code: AES Case No.: C17000 SAS No.: _____ SDG No.: MW-N
Matrix: (soil/water) WATER Lab Sample ID: MW-6D
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: D2969
Level: (low/med) LOW Date Received: 12/15/94
% Moisture: not dec. _____ Date Analyzed: 12/21/94
GC Column: RTX502.2 ID: .25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

74-97-5	Bromochloromethane	10.	U
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-69-4	Trichlorofluoromethane	10.	U
75-15-0	Carbon Disulfide	8.	BJ
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
67-66-3	Chloroform	3.	BJ
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
591-78-6	2-Hexanone	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	Xylenes (total)	10.	U
74-88-4	Iodomethane	10.	U
107-13-1	Acrylonitrile	25.	U
74-95-3	Dibromomethane	10.	U
630-20-6	1,1,1,2-tetrachloroethane	10.	U
110-57-6	1,4-Dichloro-2-Butene	10.	U
96-18-4	1,2,3-Trichloropropane	10.	U
96-12-8	1,2-dibromo-3-chloro-Propane	10.	U
156-60-5	1,2-Dichloroethene-trans	10.	U
156-59-2	1,2-Dichloroethene-cis	10.	U
106-93-4	Ethylene Dibromide	10.	U



1A
ORGANICS ANALYSIS DATA SHEET

000043

EPA Sample No.

Lab Name: AES INC

Contract: _____

MW-6D

Lab Code: AES

Case No: C17000

SAS No.____ SDG No.: MW-N

Matrix (SOIL/WATER) : WATER

Lab Sample ID: MW-6D

Sample wt/vol: 5.0 ML

File ID: D2969

Level: (LOW/MED) LOW

Date Received: 12/15/94

Date Analyzed: 12/21/94

% Moisture: not dec. ____ dec. __

Dil. Factor: 1.0

Column:(PACK/CAP) : CAP

Concentration Units:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	10	U
75-05-8	Acetonitrile	25	U
107-02-8	Acrolein	100	U
107-12-0	Propionitrile	25	U
107-05-1	Allyl Chloride	5	U
126-98-7	Methacrylonitrile	10	U
78-83-1	Isobutyl alcohol	100	U
126-99-8	Chloroprene	10	U
80-62-6	Methyl Methacrylate	10	U
594-20-7	2,2-Dichloropropane	10	U
563-58-6	1,1-Dichloropropene	10	U
142-28-9	1,3-Dichloropropane	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: AES, Inc. Contract: MW-6X
 Lab Code: AES Case No.: C17000 SAS No.: SDG No.: MW-N
 Matrix: (soil/water) WATER Lab Sample ID: MW-6X
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: D2958
 Level: (low/med) LOW Date Received: 12/14/94
 % Moisture: not dec. Date Analyzed: 12/21/94
 GC Column: RTX502.2 ID: .25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L q

74-97-5-----	Bromochloromethane	10.	U
74-87-3-----	Chloromethane	10.	U
74-83-9-----	Bromomethane	10.	U
75-01-4-----	Vinyl Chloride	10.	U
75-00-3-----	Chloroethane	10.	U
75-09-2-----	Methylene Chloride	10.	U
67-64-1-----	Acetone	10.	U
75-69-4-----	Trichlorofluoromethane	10.	U
75-15-0-----	Carbon Disulfide	10.	U
75-35-4-----	1,1-Dichloroethene	10.	U
75-34-3-----	1,1-Dichloroethane	10.	U
67-66-3-----	Chloroform	10.	U
107-06-2-----	1,2-Dichloroethane	10.	U
78-93-3-----	2-Butanone	10.	U
71-55-6-----	1,1,1-Trichloroethane	10.	U
56-23-5-----	Carbon Tetrachloride	10.	U
108-05-4-----	Vinyl Acetate	10.	U
75-27-4-----	Bromodichloromethane	10.	U
78-87-5-----	1,2-Dichloropropane	10.	U
10061-01-5-----	cis-1,3-Dichloropropene	10.	U
79-01-6-----	Trichloroethene	10.	U
124-48-1-----	Dibromochloromethane	10.	U
79-00-5-----	1,1,2-Trichloroethane	10.	U
71-43-2-----	Benzene	10.	U
10061-02-6-----	trans-1,3-Dichloropropene	10.	U
75-25-2-----	Bromoform	10.	U
591-78-6-----	2-Hexanone	10.	U
108-10-1-----	4-Methyl-2-Pentanone	10.	U
127-18-4-----	Tetrachloroethene	10.	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10.	U
108-88-3-----	Toluene	10.	U
108-90-7-----	Chlorobenzene	10.	U
100-41-4-----	Ethylbenzene	10.	U
100-42-5-----	Styrene	10.	U
1330-20-7-----	Xylenes (total)	10.	U
74-88-4-----	Iodomethane	10.	U
107-13-1-----	Acrylonitrile	25.	U
74-95-3-----	Dibromomethane	10.	U
630-20-6-----	1,1,1,2-tetrachloroethane	10.	U
110-57-6-----	1,4-Dichloro-2-Butene	10.	U
96-18-4-----	1,2,3-Trichloropropane	10.	U
96-12-8-----	1,2-dibromo-3-chloro-Propane	10.	U
156-60-5-----	1,2-Dichloroethene-trans	10.	U
156-59-2-----	1,2-Dichloroethene-cis	10.	U
106-93-4-----	Ethylene Dibromide	10.	U

1A
ORGANICS ANALYSIS DATA SHEET

000025

EPA Sample No.

Lab Name: AES INC

Contract: _____

MW-6X

Lab Code: AES

Case No: C17000

SAS No. ____ SDG No.: MW-N

Matrix (SOIL/WATER) : WATER

Lab Sample ID: MW-6X

Sample wt/vol: .50 ML

File ID: D2958

Level: (LOW/MED) LOW

Date Received: 12/14/94

Date Analyzed: 12/21/94

% Moisture: not dec. ____ dec. ____

Dil. Factor: 1.0

Column: (PACK/CAP) : CAP

Concentration Units:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	10	U
75-05-8	Acetonitrile	25	U
107-02-8	Acrolein	100	U
107-12-0	Propionitrile	25	U
107-05-1	Allyl Chloride	5	U
126-98-7	Methacrylonitrile	10	U
78-83-1	Isobutyl alcohol	100	U
126-99-8	Chloroprene	10	U
80-62-6	Methyl Methacrylate	10	U
594-20-7	2,2-Dichloropropane	10	U
563-58-6	1,1-Dichloropropene	10	U
142-28-9	1,3-Dichloropropane	10	U

000026

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-N

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: C17000

SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: MW-N

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: B2144

Level: (low/med) LOW

Date Received: 12/14/94

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 12/15/94

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 12/23/94

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

108-95-2-----	Phenol	10.	U
111-44-4-----	bis(-2-Chloroethyl)Ether	10.	U
95-57-8-----	2-Chlorophenol	10.	U
541-73-1-----	1,3-Dichlorobenzene	10.	U
106-46-7-----	1,4-Dichlorobenzene	10.	U
95-50-1-----	1,2-Dichlorobenzene	10.	U
95-48-7-----	2-Methylphenol	10.	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10.	U
106-44-5-----	4-Methylphenol	10.	U
621-64-7-----	N-Nitroso-Di-n-propylamine	10.	U
67-72-1-----	Hexachloroethane	10.	U
98-95-3-----	Nitrobenzene	10.	U
78-59-1-----	Isophorone	10.	U
88-75-5-----	2-Nitrophenol	10.	U
105-67-9-----	2,4-Dimethylphenol	10.	U
111-91-1-----	bis(-2-Chloroethoxy)Methane	10.	U
120-83-2-----	2,4-Dichlorophenol	10.	U
120-82-1-----	1,2,4-Trichlorobenzene	10.	U
91-20-3-----	Naphthalene	10.	U
106-47-8-----	4-Chloroaniline	10.	U
87-68-3-----	Hexachlorobutadiene	10.	U
59-50-7-----	4-Chloro-3-methylphenol	10.	U
91-57-6-----	2-Methylnaphthalene	10.	U
77-47-4-----	Hexachlorocyclopentadiene	10.	U
88-06-2-----	2,4,6-Trichlorophenol	10.	U
95-95-4-----	2,4,5-Trichlorophenol	25.	U
91-58-7-----	2-Chloronaphthalene	10.	U
88-74-4-----	2-Nitroaniline	25.	U
131-11-3-----	Dimethyl Phthalate	10.	U
208-96-8-----	Acenaphthylene	10.	U
606-20-2-----	2,6-Dinitrotoluene	10.	U
99-09-2-----	3-Nitroaniline	25.	U
83-32-9-----	Acenaphthene	10.	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000007

MW-N

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: MW-N

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: B2144

Level: (low/med) LOW

Date Received: 12/14/94

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 12/15/94

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 12/23/94

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

51-28-5-----	2,4-Dinitrophenol _____	25.	U
100-02-7-----	4-Nitrophenol _____	25.	U
132-64-9-----	Dibenzofuran _____	10.	U
121-14-2-----	2,4-Dinitrotoluene _____	10.	U
84-66-2-----	Diethylphthalate _____	10.	U
7005-72-3-----	4-Chlorophenyl-phenylether _____	10.	U
86-73-7-----	Fluorene _____	10.	U
100-01-6-----	4-Nitroaniline _____	25.	U
534-52-1-----	4,6-Dinitro-2-methylphenol _____	25.	U
86-30-6-----	N-Nitrosodiphenylamine _____	10.	U
101-55-3-----	4-Bromophenyl-phenylether _____	10.	U
118-74-1-----	Hexachlorobenzene _____	10.	U
87-86-5-----	Pentachlorophenol _____	25.	U
85-01-8-----	Phenanthrene _____	10.	U
120-12-7-----	Anthracene _____	10.	U
86-74-8-----	Carbazole _____	10.	U
84-74-2-----	Di-n-Butylphthalate _____	10.	U
206-44-0-----	Fluoranthene _____	10.	U
129-00-0-----	Pyrene _____	10.	U
85-68-7-----	Butylbenzylphthalate _____	10.	U
91-94-1-----	3,3'-Dichlorobenzidine _____	10.	U
56-55-3-----	Benzo(a)Anthracene _____	10.	U
218-01-9-----	Chrysene _____	10.	U
117-81-7-----	Bis(2-Ethylhexyl)Phthalate _____	3.	BJ
117-84-0-----	Di-n-octyl phthalate _____	10.	U
205-99-2-----	Benzo(b)fluoranthene _____	10.	U
207-08-9-----	Benzo(k)Fluoranthene _____	10.	U
50-32-8-----	Benzo(a)Pyrene _____	10.	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene _____	10.	U
53-70-3-----	Dibenzo(a,h)Anthracene _____	10.	U
191-24-2-----	Benzo(g,h,i)Perylene _____	10.	U

(1) - Cannot be separated from diphenylamine

1A
ORGANICS ANALYSIS DATA SHEET

Sample No.
MW-N

000028

Lab Name: AES,INC Contract: _____
Lab Code: AES Case No: C17000
Matrix (SOIL/WATER) : WATER
Sample wt/vol: 1000 ML
Level: (LOW/MED) LOW
% Moisture: dec. _____
Extraction: (Sept/Cont/Sonc): Cont
GPC Cleanup: (Y/N) N pH: 7.0

SAS No. _____ SDG No.: MW-N
Lab Sample ID: MW-N
File ID: B2144
Date Received: 12/14/94
Date Analyzed: 12/23/94
Dilution Factor: 1.0
Concentration Units: UG/L

CAS NO.	COMPOUND		Q
67-75-9	N-Nitrosodimethylamine	10	U
97-63-2	Ethyl Methacrylate	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl Methanesulfonate	10	U
66-27-3	Methyl Methanesulfonate	50	U
98-86-2	Acetophenone	10	U
108-39-4	m-Cresol	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
95-53-4	o-Toluidine	10	U
100-75-4	N-Nitrosopiperidine	10	U
87-65-0	2,6-Dichlorophenol	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitroso-di-n-butylamine	10	U
106-50-3	p-Phenylenediamine	80	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
120-58-1	Isosafrole	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	m-Dinitrobenzene	50	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	50	U
99-55-8	5-Nitrotoluidine	50	U
99-35-4	1,3,5-Trinitrobenzene	50	U
62-44-2	Phenacetin	50	U
92-67-1	4-Aminobiphenyl	50	U
82-68-8	Pentachloronitrobenzene	10	U
56-57-5	4-Nitroquinoline-1-oxide	80	U
91-80-5	Methapyrilene	10	U
60-11-7	p-(Dimethylamine)Azobenzene	50	U
510-15-6	Chlorobenzilate	10	U
119-93-7	3,3'-Dimethylbenzidine	50	U
53-96-3	2-Acetylaminofluorene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
56-49-5	3-Methylcholanthrene	10	U
122-39-4	Diphenylamine	10	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000029

Lab Name: AES, Inc.

Contract:

MW-S

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: MW-S

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: B2147

Level: (low/med) LOW

Date Received: 12/15/94

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 12/18/94

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 12/23/94

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

108-95-2-----	Phenol	10.	U
111-44-4-----	bis(-2-Chloroethyl)Ether	10.	U
95-57-8-----	2-Chlorophenol	10.	U
541-73-1-----	1,3-Dichlorobenzene	10.	U
106-46-7-----	1,4-Dichlorobenzene	10.	U
95-50-1-----	1,2-Dichlorobenzene	10.	U
95-48-7-----	2-Methylphenol	10.	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10.	U
106-44-5-----	4-Methylphenol	10.	U
621-64-7-----	N-Nitroso-Di-n-propylamine	10.	U
67-72-1-----	Hexachloroethane	10.	U
98-95-3-----	Nitrobenzene	10.	U
78-59-1-----	Isophorone	10.	U
88-75-5-----	2-Nitrophenol	10.	U
105-67-9-----	2,4-Dimethylphenol	10.	U
111-91-1-----	bis(-2-Chloroethoxy)Methane	10.	U
120-83-2-----	2,4-Dichlorophenol	10.	U
120-82-1-----	1,2,4-Trichlorobenzene	10.	U
91-20-3-----	Naphthalene	10.	U
106-47-8-----	4-Chloroaniline	10.	U
87-68-3-----	Hexachlorobutadiene	10.	U
59-50-7-----	4-Chloro-3-methylphenol	10.	U
91-57-6-----	2-Methylnaphthalene	10.	U
77-47-4-----	Hexachlorocyclopentadiene	10.	U
88-06-2-----	2,4,6-Trichlorophenol	10.	U
95-95-4-----	2,4,5-Trichlorophenol	25.	U
91-58-7-----	2-Chloronaphthalene	10.	U
88-74-4-----	2-Nitroaniline	25.	U
131-11-3-----	Dimethyl Phthalate	10.	U
208-96-8-----	Acenaphthylene	10.	U
606-20-2-----	2,6-Dinitrotoluene	10.	U
99-09-2-----	3-Nitroaniline	25.	U
83-32-9-----	Acenaphthene	10.	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-S

Lab Name: AES, Inc.

Contract:

000020

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: MW-S

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: B2147

Level: (low/med) LOW

Date Received: 12/15/94

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 12/18/94

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 12/23/94

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

51-28-5-----	2,4-Dinitrophenol _____	25.	U
100-02-7-----	4-Nitrophenol _____	25.	U
132-64-9-----	Dibenzofuran _____	10.	U
121-14-2-----	2,4-Dinitrotoluene _____	10.	U
84-66-2-----	Diethylphthalate _____	10.	U
7005-72-3-----	4-Chlorophenyl-phenylether _____	10.	U
86-73-7-----	Fluorene _____	10.	U
100-01-6-----	4-Nitroaniline _____	25.	U
534-52-1-----	4,6-Dinitro-2-methylphenol _____	25.	U
86-30-6-----	N-Nitrosodiphenylamine _____	10.	U
101-55-3-----	4-Bromophenyl-phenylether _____	10.	U
118-74-1-----	Hexachlorobenzene _____	10.	U
87-86-5-----	Pentachlorophenol _____	25.	U
85-01-8-----	Phenanthrene _____	10.	U
120-12-7-----	Anthracene _____	10.	U
86-74-8-----	Carbazole _____	10.	U
84-74-2-----	Di-n-Butylphthalate _____	1.	J
206-44-0-----	Fluoranthene _____	10.	U
129-00-0-----	Pyrene _____	10.	U
85-68-7-----	Butylbenzylphthalate _____	10.	U
91-94-1-----	3,3'-Dichlorobenzidine _____	10.	U
56-55-3-----	Benzo(a)Anthracene _____	10.	U
218-01-9-----	Chrysene _____	10.	U
117-81-7-----	Bis(2-Ethylhexyl)Phthalate _____	2.	BJ
117-84-0-----	Di-n-octyl phthalate _____	10.	U
205-99-2-----	Benzo(b)fluoranthene _____	10.	U
207-08-9-----	Benzo(k)Fluoranthene _____	10.	U
50-32-8-----	Benzo(a)Pyrene _____	10.	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene _____	10.	U
53-70-3-----	Dibenzo(a,h)Anthracene _____	10.	U
191-24-2-----	Benzo(g,h,i)Perylene _____	10.	U

(1) - Cannot be separated from diphenylamine

1A
ORGANICS ANALYSIS DATA SHEET

Sample No.

000031

MW-S

Lab Name: AES,INC Contract: _____
Lab Code: AES Case No: C17000
Matrix (SOIL/WATER) : WATER
Sample wt/vol: 1000 ML
Level: (LOW/MED) LOW
% Moisture: dec. _____
Extraction: (Sepf/Cont/Sonc): Cont
GPC Cleanup: (Y/N) N pH: 7.0

SAS No. _____ SDG No.: MW-N
Lab Sample ID: MW-S
File ID: B2147
Date Received: 12/15/94
Date Analyzed: 12/23/94
Dilution Factor: 1.0
Concentration Units: UG/L

CAS NO.	COMPOUND		Q
67-75-9	N-Nitrosodimethylamine	10	U
97-63-2	Ethyl Methacrylate	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl Methanesulfonate	10	U
66-27-3	Methyl Methanesulfonate	50	U
98-86-2	Acetophenone	10	U
108-39-4	m-Cresol	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
95-53-4	o-Toluidine	10	U
100-75-4	N-Nitrosopiperidine	10	U
87-65-0	2,6-Dichlorophenol	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitroso-di-n-butylamine	10	U
106-50-3	p-Phenylenediamine	80	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
120-58-1	Isosafrole	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	m-Dinitrobenzene	50	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	50	U
99-55-8	5-Nitrotoluidine	50	U
99-35-4	1,3,5-Trinitrobenzene	50	U
62-44-2	Phenacetin	50	U
92-67-1	4-Aminobiphenyl	50	U
82-68-8	Pentachloronitrobenzene	10	U
56-57-5	4-Nitroquinoline-1-oxide	80	U
91-80-5	Methapyrilene	10	U
60-11-7	p-(Dimethylamine)Azobenzene	50	U
510-15-6	Chlorobenzilate	10	U
119-93-7	3,3'-Dimethylbenzidine	50	U
53-96-3	2-Acetylaminoofluorene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
56-49-5	3-Methylcholanthrene	10	U
122-39-4	Diphenylamine	10	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000032

Lab Name: AES, Inc.

Contract:

MW-1

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: MW-1

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: B2142

Level: (low/med) LOW

Date Received: 12/13/94

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 12/15/94

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 12/23/94

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

108-95-2-----	Phenol	10.	U
111-44-4-----	bis(-2-Chloroethyl) Ether	10.	U
95-57-8-----	2-Chlorophenol	10.	U
541-73-1-----	1,3-Dichlorobenzene	10.	U
106-46-7-----	1,4-Dichlorobenzene	10.	U
95-50-1-----	1,2-Dichlorobenzene	10.	U
95-48-7-----	2-Methylphenol	10.	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10.	U
106-44-5-----	4-Methylphenol	10.	U
621-64-7-----	N-Nitroso-Di-n-propylamine	10.	U
67-72-1-----	Hexachloroethane	10.	U
98-95-3-----	Nitrobenzene	10.	U
78-59-1-----	Isophorone	10.	U
88-75-5-----	2-Nitrophenol	10.	U
105-67-9-----	2,4-Dimethylphenol	10.	U
111-91-1-----	bis(-2-Chloroethoxy)Methane	10.	U
120-83-2-----	2,4-Dichlorophenol	10.	U
120-82-1-----	1,2,4-Trichlorobenzene	10.	U
91-20-3-----	Naphthalene	10.	U
106-47-8-----	4-Chloroaniline	10.	U
87-68-3-----	Hexachlorobutadiene	10.	U
59-50-7-----	4-Chloro-3-methylphenol	10.	U
91-57-6-----	2-Methylnaphthalene	10.	U
77-47-4-----	Hexachlorocyclopentadiene	10.	U
88-06-2-----	2,4,6-Trichlorophenol	10.	U
95-95-4-----	2,4,5-Trichlorophenol	25.	U
91-58-7-----	2-Chloronaphthalene	10.	U
88-74-4-----	2-Nitroaniline	25.	U
131-11-3-----	Dimethyl Phthalate	10.	U
208-96-8-----	Acenaphthylene	10.	U
606-20-2-----	2,6-Dinitrotoluene	10.	U
99-09-2-----	3-Nitroaniline	25.	U
83-32-9-----	Acenaphthene	10.	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000033

MW-1

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: MW-1

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: B2142

Level: (Low/med) LOW

Date Received: 12/13/94

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 12/15/94

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 12/23/94

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

51-28-5-----	2,4-Dinitrophenol _____	25.	U
100-02-7-----	4-Nitrophenol _____	25.	U
132-64-9-----	Dibenzofuran _____	10.	U
121-14-2-----	2,4-Dinitrotoluene _____	10.	U
84-66-2-----	Diethylphthalate _____	10.	U
7005-72-3-----	4-Chlorophenyl-phenylether _____	10.	U
86-73-7-----	Fluorene _____	10.	U
100-01-6-----	4-Nitroaniline _____	25.	U
534-52-1-----	4,6-Dinitro-2-methylphenol _____	25.	U
86-30-6-----	N-Nitrosodiphenylamine _____	10.	U
101-55-3-----	4-Bromophenyl-phenylether _____	10.	U
118-74-1-----	Hexachlorobenzene _____	10.	U
87-86-5-----	Pentachlorophenol _____	25.	U
85-01-8-----	Phenanthrene _____	10.	U
120-12-7-----	Anthracene _____	10.	U
86-74-8-----	Carbazole _____	10.	U
84-74-2-----	Di-n-Butylphthalate _____	10.	U
206-44-0-----	Fluoranthene _____	10.	U
129-00-0-----	Pyrene _____	10.	U
85-68-7-----	Butylbenzylphthalate _____	10.	U
91-94-1-----	3,3'-Dichlorobenzidine _____	10.	U
56-55-3-----	Benzo(a)Anthracene _____	10.	U
218-01-9-----	Chrysene _____	10.	U
117-81-7-----	Bis(2-Ethylhexyl)Phthalate _____	3.	BJ
117-84-0-----	Di-n-octyl phthalate _____	10.	U
205-99-2-----	Benzo(b)fluoranthene _____	10.	U
207-08-9-----	Benzo(k)Fluoranthene _____	10.	U
50-32-8-----	Benzo(a)Pyrene _____	10.	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene _____	10.	U
53-70-3-----	Dibenzo(a,h)Anthracene _____	10.	U
191-24-2-----	Benzo(g,h,i)Perylene _____	10.	U

(1) - Cannot be separated from diphenylamine

1A
ORGANICS ANALYSIS DATA SHEET

Sample No.

MW-1

000004

Lab Name: AES,INC

Contract: _____

Lab Code: AES

Case No: C17000

SAS No. _____

SDG No.: MW-N

Matrix (SOIL/WATER) : WATER

Lab Sample ID: MW-1

Sample wt/vol: 1000 ML

File ID: B2142

Level: (LOW/MED) LOW

Date Received: 12/13/94

% Moisture: dec. _____

Date Analyzed: 12/23/94

Extraction: (Sept/Cont/Sonc):

Cont

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

Concentration Units: UG/L

CAS NO.	COMPOUND		Q
67-75-9	N-Nitrosodimethylamine	10	U
97-63-2	Ethyl Methacrylate	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl Methanesulfonate	10	U
66-27-3	Methyl Methanesulfonate	50	U
98-86-2	Acetophenone	10	U
108-39-4	m-Cresol	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
95-53-4	o-Toluidine	10	U
100-75-4	N-Nitrosopiperidine	10	U
87-65-0	2,6-Dichlorophenol	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitroso-di-n-butylamine	10	U
106-50-3	p-Phenylenediamine	80	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
120-58-1	Isosafrole	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	m-Dinitrobenzene	50	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	50	U
99-55-8	5-Nitrotoluidine	50	U
99-35-4	1,3,5-Trinitrobenzene	50	U
62-44-2	Phenacetin	50	U
92-67-1	4-Aminobiphenyl	50	U
82-68-8	Pentachloronitrobenzene	10	U
56-57-5	4-Nitroquinoline-1-oxide	80	U
91-80-5	Methapyrilene	10	U
60-11-7	p-(Dimethylamine)Azobenzene	50	U
510-15-6	Chlorobenzilate	10	U
119-93-7	3,3'-Dimethylbenzidine	50	U
53-96-3	2-Acetylaminofluorene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
56-49-5	3-Methylcholanthrene	10	U
122-39-4	Diphenylamine	10	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000005

MW-2

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: MW-2

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: B2143

Level: (low/med) LOW

Date Received: 12/13/94

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 12/15/94

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 12/23/94

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

108-95-2-----	Phenol	10.	U
111-44-4-----	bis(-2-Chloroethyl)Ether	10.	U
95-57-8-----	2-Chlorophenol	10.	U
541-73-1-----	1,3-Dichlorobenzene	10.	U
106-46-7-----	1,4-Dichlorobenzene	10.	U
95-50-1-----	1,2-Dichlorobenzene	10.	U
95-48-7-----	2-Methylphenol	10.	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10.	U
106-44-5-----	4-Methylphenol	10.	U
621-64-7-----	N-Nitroso-Di-n-propylamine	10.	U
67-72-1-----	Hexachloroethane	10.	U
98-95-3-----	Nitrobenzene	10.	U
78-59-1-----	Isophorone	10.	U
88-75-5-----	2-Nitrophenol	10.	U
105-67-9-----	2,4-Dimethylphenol	10.	U
111-91-1-----	bis(-2-Chloroethoxy)Methane	10.	U
120-83-2-----	2,4-Dichlorophenol	10.	U
120-82-1-----	1,2,4-Trichlorobenzene	10.	U
91-20-3-----	Naphthalene	10.	U
106-47-8-----	4-Chloroaniline	10.	U
87-68-3-----	Hexachlorobutadiene	10.	U
59-50-7-----	4-Chloro-3-methylphenol	10.	U
91-57-6-----	2-Methylnaphthalene	10.	U
77-47-4-----	Hexachlorocyclopentadiene	10.	U
88-06-2-----	2,4,6-Trichlorophenol	10.	U
95-95-4-----	2,4,5-Trichlorophenol	25.	U
91-58-7-----	2-Chloronaphthalene	10.	U
88-74-4-----	2-Nitroaniline	25.	U
131-11-3-----	Dimethyl Phthalate	10.	U
208-96-8-----	Acenaphthylene	10.	U
606-20-2-----	2,6-Dinitrotoluene	10.	U
99-09-2-----	3-Nitroaniline	25.	U
83-32-9-----	Acenaphthene	10.	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000036

MW-2

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: MW-2

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: B2143

Level: (low/med) LOW

Date Received: 12/13/94

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 12/15/94

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 12/23/94

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

51-28-5-----	2,4-Dinitrophenol	25.	U
100-02-7-----	4-Nitrophenol	25.	U
132-64-9-----	Dibenzofuran	10.	U
121-14-2-----	2,4-Dinitrotoluene	10.	U
84-66-2-----	Diethylphthalate	10.	U
7005-72-3-----	4-Chlorophenyl-phenylether	10.	U
86-73-7-----	Fluorene	10.	U
100-01-6-----	4-Nitroaniline	25.	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25.	U
86-30-6-----	N-Nitrosodiphenylamine	10.	U
101-55-3-----	4-Bromophenyl-phenylether	10.	U
118-74-1-----	Hexachlorobenzene	10.	U
87-86-5-----	Pentachlorophenol	25.	U
85-01-8-----	Phenanthrene	10.	U
120-12-7-----	Anthracene	10.	U
86-74-8-----	Carbazole	10.	U
84-74-2-----	Di-n-Butylphthalate	10.	U
206-44-0-----	Fluoranthene	10.	U
129-00-0-----	Pyrene	10.	U
85-68-7-----	Butylbenzylphthalate	10.	U
91-94-1-----	3,3'-Dichlorobenzidine	10.	U
56-55-3-----	Benzo(a)Anthracene	10.	U
218-01-9-----	Chrysene	10.	U
117-81-7-----	Bis(2-Ethylhexyl)Phthalate	4.	BJ
117-84-0-----	Di-n-octyl phthalate	10.	U
205-99-2-----	Benzo(b)fluoranthene	10.	U
207-08-9-----	Benzo(k)Fluoranthene	10.	U
50-32-8-----	Benzo(a)Pyrene	10.	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	10.	U
53-70-3-----	Dibenzo(a,h)Anthracene	10.	U
191-24-2-----	Benzo(g,h,i)Perylene	10.	U

(1) - Cannot be separated from diphenylamine

1A
ORGANICS ANALYSIS DATA SHEET

Sample No.

MW-2

000037

Lab Name: AES,INC

Contract: _____

Lab Code: AES

Case No: C17000

SAS No. _____

SDG No.: MW-N

Matrix (SOIL/WATER) : WATER

Lab Sample ID: MW-2

Sample wt/vol: 1000 ML

File ID: B2143

Level: (LOW/MED) LOW

Date Received: 12/13/94

% Moisture: dec. _____

Date Analyzed: 12/23/94

Extraction: (Sepf/Cont/Sonc): Cont

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Concentration Units: UG/L

CAS NO.	COMPOUND		Q
67-75-9	N-Nitrosodimethylamine	10	U
97-63-2	Ethyl Methacrylate	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl Methanesulfonate	10	U
66-27-3	Methyl Methanesulfonate	50	U
98-86-2	Acetophenone	10	U
108-39-4	m-Cresol	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
95-53-4	o-Toluidine	10	U
100-75-4	N-Nitrosopiperidine	10	U
87-65-0	2,6-Dichlorophenol	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitroso-di-n-butylamine	10	U
106-50-3	p-Phenylenediamine	80	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
120-58-1	Isosafrole	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	m-Dinitrobenzene	50	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	50	U
99-55-8	5-Nitrotoluidine	50	U
99-35-4	1,3,5-Trinitrobenzene	50	U
62-44-2	Phenacetin	50	U
92-67-1	4-Aminobiphenyl	50	U
82-68-8	Pentachloronitrobenzene	10	U
56-57-5	4-Nitroquinoline-1-oxide	80	U
91-80-5	Methapyrilene	10	U
60-11-7	p-(Dimethylamine)Azobenzene	50	U
510-15-6	Chlorobenzilate	10	U
119-93-7	3,3'-Dimethylbenzidine	50	U
53-96-3	2-Acetylaminofluorene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
56-49-5	3-Methylcholanthrene	10	U
122-39-4	Diphenylamine	10	U

18
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000038

MW-3

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: MW-3

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: B2146

Level: (low/med) LOW

Date Received: 12/14/94

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 12/15/94

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 12/23/94

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

108-95-2-----	Phenol	10.	U
111-44-4-----	bis(-2-Chloroethyl)Ether	10.	U
95-57-8-----	2-Chlorophenol	10.	U
541-73-1-----	1,3-Dichlorobenzene	10.	U
106-46-7-----	1,4-Dichlorobenzene	2.	J
95-50-1-----	1,2-Dichlorobenzene	10.	U
95-48-7-----	2-Methylphenol	10.	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10.	U
106-44-5-----	4-Methylphenol	10.	U
621-64-7-----	N-Nitroso-Di-n-propylamine	10.	U
67-72-1-----	Hexachloroethane	10.	U
98-95-3-----	Nitrobenzene	10.	U
78-59-1-----	Isophorone	10.	U
88-75-5-----	2-Nitrophenol	10.	U
105-67-9-----	2,4-Dimethylphenol	10.	U
111-91-1-----	bis(-2-Chloroethoxy)Methane	10.	U
120-83-2-----	2,4-Dichlorophenol	10.	U
120-82-1-----	1,2,4-Trichlorobenzene	10.	U
91-20-3-----	Naphthalene	10.	U
106-47-8-----	4-Chloroaniline	10.	U
87-68-3-----	Hexachlorobutadiene	10.	U
59-50-7-----	4-Chloro-3-methylphenol	10.	U
91-57-6-----	2-Methylnaphthalene	10.	U
77-47-4-----	Hexachlorocyclopentadiene	10.	U
88-06-2-----	2,4,6-Trichlorophenol	10.	U
95-95-4-----	2,4,5-Trichlorophenol	25.	U
91-58-7-----	2-Chloronaphthalene	10.	U
88-74-4-----	2-Nitroaniline	25.	U
131-11-3-----	Dimethyl Phthalate	10.	U
208-96-8-----	Acenaphthylene	10.	U
606-20-2-----	2,6-Dinitrotoluene	10.	U
99-09-2-----	3-Nitroaniline	25.	U
83-32-9-----	Acenaphthene	10.	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-3

000039

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: MW-3

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: B2146

Level: (low/med) LOW

Date Received: 12/14/94

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 12/15/94

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 12/23/94

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

51-28-5-----	2,4-Dinitrophenol	25.	U
100-02-7-----	4-Nitrophenol	25.	U
132-64-9-----	Dibenzofuran	10.	U
121-14-2-----	2,4-Dinitrotoluene	10.	U
84-66-2-----	Diethylphthalate	.7	J
7005-72-3-----	4-Chlorophenyl-phenylether	10.	U
86-73-7-----	Fluorene	10.	U
100-01-6-----	4-Nitroaniline	25.	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25.	U
86-30-6-----	N-Nitrosodiphenylamine	10.	U
101-55-3-----	4-Bromophenyl-phenylether	10.	U
118-74-1-----	Hexachlorobenzene	10.	U
87-86-5-----	Pentachlorophenol	25.	U
85-01-8-----	Phenanthrene	10.	U
120-12-7-----	Anthracene	10.	U
86-74-8-----	Carbazole	10.	U
84-74-2-----	Di-n-Butylphthalate	10.	U
206-44-0-----	Fluoranthene	10.	U
129-00-0-----	Pyrene	10.	U
85-68-7-----	Butylbenzylphthalate	10.	U
91-94-1-----	3,3'-Dichlorobenzidine	10.	U
56-55-3-----	Benzo(a)Anthracene	10.	U
218-01-9-----	Chrysene	10.	U
117-81-7-----	Bis(2-Ethylhexyl)Phthalate	2.	BJ
117-84-0-----	Di-n-octyl phthalate	10.	U
205-99-2-----	Benzo(b)fluoranthene	10.	U
207-08-9-----	Benzo(k)Fluoranthene	10.	U
50-32-8-----	Benzo(a)Pyrene	10.	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	10.	U
53-70-3-----	Dibenzo(a,h)Anthracene	10.	U
191-24-2-----	Benzo(g,h,i)Perylene	10.	U

(1) - Cannot be separated from diphenylamine

1A
ORGANICS ANALYSIS DATA SHEET

Sample No.

MW-3

000040

Lab Name: AES,INC

Contract: _____

Lab Code: AES

Case No: C17000

SAS No. _____

SDG No.: MW-N

Matrix (SOIL/WATER) : WATER

Lab Sample ID: MW-3

Sample wt/vol: 1000 ML

File ID: B2146

Level: (LOW/MED) LOW

Date Received: 12/14/94

% Moisture: dec. _____

Date Analyzed: 12/23/94

Extraction: (Sepf/Cont/Sonc): Cont

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Concentration Units: UG/L

CAS NO.	COMPOUND		Q
67-75-9	N-Nitrosodimethylamine	10	U
97-63-2	Ethyl Methacrylate	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl Methanesulfonate	10	U
66-27-3	Methyl Methanesulfonate	50	U
98-86-2	Acetophenone	10	U
108-39-4	m-Cresol	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
95-53-4	o-Toluidine	10	U
100-75-4	N-Nitrosopiperidine	10	U
87-65-0	2,6-Dichlorophenol	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitroso-di-n-butylamine	10	U
106-50-3	p-Phenylenediamine	80	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
120-58-1	Isosafrole	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	m-Dinitrobenzene	50	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	50	U
99-55-8	5-Nitrotoluidine	50	U
99-35-4	1,3,5-Trinitrobenzene	50	U
62-44-2	Phenacetin	50	U
92-67-1	4-Aminobiphenyl	50	U
82-68-8	Pentachloronitrobenzene	10	U
56-57-5	4-Nitroquinoline-1-oxide	80	U
91-80-5	Methapyrilene	10	U
60-11-7	p-(Dimethylamine)Azobenzene	50	U
510-15-6	Chlorobenzilate	10	U
119-93-7	3,3'-Dimethylbenzidine	50	U
53-96-3	2-Acetylaminofluorene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
56-49-5	3-Methylcholanthrene	10	U
122-39-4	Diphenylamine	10	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000041

MW-4

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: MW-4

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: B2148

Level: (low/med) LOW

Date Received: 12/15/94

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 12/18/94

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 12/23/94

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

108-95-2-----	Phenol	10.	U
111-44-4-----	bis(-2-Chloroethyl)Ether	10.	U
95-57-8-----	2-Chlorophenol	10.	U
541-73-1-----	1,3-Dichlorobenzene	10.	U
106-46-7-----	1,4-Dichlorobenzene	10.	U
95-50-1-----	1,2-Dichlorobenzene	10.	U
95-48-7-----	2-Methylphenol	10.	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10.	U
106-44-5-----	4-Methylphenol	10.	U
621-64-7-----	N-Nitroso-Di-n-propylamine	10.	U
67-72-1-----	Hexachloroethane	10.	U
98-95-3-----	Nitrobenzene	10.	U
78-59-1-----	Isophorone	10.	U
88-75-5-----	2-Nitrophenol	10.	U
105-67-9-----	2,4-Dimethylphenol	10.	U
111-91-1-----	bis(-2-Chloroethoxy)Methane	10.	U
120-83-2-----	2,4-Dichlorophenol	10.	U
120-82-1-----	1,2,4-Trichlorobenzene	10.	U
91-20-3-----	Naphthalene	10.	U
106-47-8-----	4-Chloroaniline	10.	U
87-68-3-----	Hexachlorobutadiene	10.	U
59-50-7-----	4-Chloro-3-methylphenol	10.	U
91-57-6-----	2-Methylnaphthalene	10.	U
77-47-4-----	Hexachlorocyclopentadiene	10.	U
88-06-2-----	2,4,6-Trichlorophenol	10.	U
95-95-4-----	2,4,5-Trichlorophenol	25.	U
91-58-7-----	2-Chloronaphthalene	10.	U
88-74-4-----	2-Nitroaniline	25.	U
131-11-3-----	Dimethyl Phthalate	10.	U
208-96-8-----	Acenaphthylene	10.	U
606-20-2-----	2,6-Dinitrotoluene	10.	U
99-09-2-----	3-Nitroaniline	25.	U
83-32-9-----	Acenaphthene	10.	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-4

000042

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: MW-4

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: B2148

Level: (low/med) LOW

Date Received: 12/15/94

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 12/18/94

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 12/23/94

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

51-28-5-----	2,4-Dinitrophenol _____	25.	U
100-02-7-----	4-Nitrophenol _____	25.	U
132-64-9-----	Dibenzofuran _____	10.	U
121-14-2-----	2,4-Dinitrotoluene _____	10.	U
84-66-2-----	Diethylphthalate _____	10.	U
7005-72-3-----	4-Chlorophenyl-phenylether _____	10.	U
86-73-7-----	Fluorene _____	10.	U
100-01-6-----	4-Nitroaniline _____	25.	U
534-52-1-----	4,6-Dinitro-2-methylphenol _____	25.	U
86-30-6-----	N-Nitrosodiphenylamine _____	10.	U
101-55-3-----	4-Bromophenyl-phenylether _____	10.	U
118-74-1-----	Hexachlorobenzene _____	10.	U
87-86-5-----	Pentachlorophenol _____	25.	U
85-01-8-----	Phenanthrene _____	10.	U
120-12-7-----	Anthracene _____	10.	U
86-74-8-----	Carbazole _____	10.	U
84-74-2-----	Di-n-Butylphthalate _____	10.	U
206-44-0-----	Fluoranthene _____	10.	U
129-00-0-----	Pyrene _____	10.	U
85-68-7-----	Butylbenzylphthalate _____	10.	U
91-94-1-----	3,3'-Dichlorobenzidine _____	10.	U
56-55-3-----	Benzo(a)Anthracene _____	10.	U
218-01-9-----	Chrysene _____	10.	U
117-81-7-----	Bis(2-Ethylhexyl)Phthalate _____	2.	BJ
117-84-0-----	Di-n-octyl phthalate _____	10.	U
205-99-2-----	Benzo(b)fluoranthene _____	10.	U
207-08-9-----	Benzo(k)Fluoranthene _____	10.	U
50-32-8-----	Benzo(a)Pyrene _____	10.	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene _____	10.	U
53-70-3-----	Dibenzo(a,h)Anthracene _____	10.	U
191-24-2-----	Benzo(g,h,i)Perylene _____	10.	U

(1) - Cannot be separated from diphenylamine

1A
ORGANICS ANALYSIS DATA SHEET

Sample No.

MW-4

000043

Lab Name: AES,INC

Contract: _____

Lab Code: AES

Case No: C17000

SAS No. _____

SDG No.: MW-N

Matrix (SOIL/WATER) : WATER

Lab Sample ID: MW-4

Sample wt/vol: 1000 ML

File ID: B2148

Level: (LOW/MED) LOW

Date Received: 12/15/94

% Moisture: dec. _____

Date Analyzed: 12/23/94

Extraction: (Sept/Cont/Sonc): Cont

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

Concentration Units: UG/L

CAS NO.	COMPOUND		Q
67-75-9	N-Nitrosodimethylamine	10	U
97-63-2	Ethyl Methacrylate	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl Methanesulfonate	10	U
66-27-3	Methyl Methanesulfonate	50	U
98-86-2	Acetophenone	10	U
108-39-4	m-Cresol	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
95-53-4	o-Toluidine	10	U
100-75-4	N-Nitrosopiperidine	10	U
87-65-0	2,6-Dichlorophenol	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitroso-di-n-butylamine	10	U
106-50-3	p-Phenylenediamine	80	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
120-58-1	Isosafrole	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	m-Dinitrobenzene	50	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	50	U
99-55-8	5-Nitrotoluidine	50	U
99-35-4	1,3,5-Trinitrobenzene	50	U
62-44-2	Phenacetin	50	U
92-67-1	4-Aminobiphenyl	50	U
82-68-8	Pentachloronitrobenzene	10	U
56-57-5	4-Nitroquinoline-1-oxide	80	U
91-80-5	Methapyrilene	10	U
60-11-7	p-(Dimethylamine)Azobenzene	50	U
510-15-6	Chlorobenzilate	10	U
119-93-7	3,3'-Dimethylbenzidine	50	U
53-96-3	2-Acetylaminofluorene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
56-49-5	3-Methylcholanthrene	10	U
122-39-4	Diphenylamine	10	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000044

MW-60

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: MW-60

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: B0059

Level: (low/med) LOW

Date Received: 12/15/94

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 12/18/94

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 01/06/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

108-95-2-----	Phenol	10.	U
111-44-4-----	bis(-2-Chloroethyl)Ether	10.	U
95-57-8-----	2-Chlorophenol	10.	U
541-73-1-----	1,3-Dichlorobenzene	10.	U
106-46-7-----	1,4-Dichlorobenzene	10.	U
95-50-1-----	1,2-Dichlorobenzene	10.	U
95-48-7-----	2-Methylphenol	10.	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10.	U
106-44-5-----	4-Methylphenol	10.	U
621-64-7-----	N-Nitroso-Di-n-propylamine	10.	U
67-72-1-----	Hexachloroethane	10.	U
98-95-3-----	Nitrobenzene	10.	U
78-59-1-----	Isophorone	10.	U
88-75-5-----	2-Nitrophenol	10.	U
105-67-9-----	2,4-Dimethylphenol	10.	U
111-91-1-----	bis(-2-Chloroethoxy)Methane	10.	U
120-83-2-----	2,4-Dichlorophenol	10.	U
120-82-1-----	1,2,4-Trichlorobenzene	10.	U
91-20-3-----	Naphthalene	10.	U
106-47-8-----	4-Chloroaniline	10.	U
87-68-3-----	Hexachlorobutadiene	10.	U
59-50-7-----	4-Chloro-3-methylphenol	10.	U
91-57-6-----	2-Methylnaphthalene	10.	U
77-47-4-----	Hexachlorocyclopentadiene	10.	U
88-06-2-----	2,4,6-Trichlorophenol	10.	U
95-95-4-----	2,4,5-Trichlorophenol	25.	U
91-58-7-----	2-Chloronaphthalene	10.	U
88-74-4-----	2-Nitroaniline	25.	U
131-11-3-----	Dimethyl Phthalate	10.	U
208-96-8-----	Acenaphthylene	10.	U
606-20-2-----	2,6-Dinitrotoluene	10.	U
99-09-2-----	3-Nitroaniline	25.	U
83-32-9-----	Acenaphthene	10.	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000045

MW-60

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: MW-60

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: B0059

Level: (low/med) LOW

Date Received: 12/15/94

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 12/18/94

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 01/06/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

51-28-5-----	2,4-Dinitrophenol _____	25.	U
100-02-7-----	4-Nitrophenol _____	25.	U
132-64-9-----	Dibenzofuran _____	10.	U
121-14-2-----	2,4-Dinitrotoluene _____	10.	U
84-66-2-----	Diethylphthalate _____	10.	U
7005-72-3-----	4-Chlorophenyl-phenylether _____	10.	U
86-73-7-----	Fluorene _____	10.	U
100-01-6-----	4-Nitroaniline _____	25.	U
534-52-1-----	4,6-Dinitro-2-methylphenol _____	25.	U
86-30-6-----	N-Nitrosodiphenylamine _____	10.	U
101-55-3-----	4-Bromophenyl-phenylether _____	10.	U
118-74-1-----	Hexachlorobenzene _____	10.	U
87-86-5-----	Pentachlorophenol _____	25.	U
85-01-8-----	Phenanthrene _____	10.	U
120-12-7-----	Anthracene _____	10.	U
86-74-8-----	Carbazole _____	10.	U
84-74-2-----	Di-n-Butylphthalate _____	10.	U
206-44-0-----	Fluoranthene _____	10.	U
129-00-0-----	Pyrene _____	10.	U
85-68-7-----	Butylbenzylphthalate _____	10.	U
91-94-1-----	3,3'-Dichlorobenzidine _____	10.	U
56-55-3-----	Benzo(a)Anthracene _____	10.	U
218-01-9-----	Chrysene _____	10.	U
117-81-7-----	Bis(2-Ethylhexyl)Phthalate _____	4.	BJ
117-84-0-----	Di-n-octyl phthalate _____	10.	U
205-99-2-----	Benzo(b)fluoranthene _____	10.	U
207-08-9-----	Benzo(k)Fluoranthene _____	10.	U
50-32-8-----	Benzo(a)Pyrene _____	10.	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene _____	10.	U
53-70-3-----	Dibenzo(a,h)Anthracene _____	10.	U
191-24-2-----	Benzo(g,h,i)Perylene _____	10.	U

(1) - Cannot be separated from diphenylamine

1A
ORGANICS ANALYSIS DATA SHEET

Sample No.

MW-6D

000040

Lab Name: AES,INC

Contract: _____

Lab Code: AES

Case No:

C17000

SAS No. _____

SDG No.:

MW-N

Matrix (SOIL/WATER) : WATER

Lab Sample ID:

MW-6D

Sample wt/vol: 1000 ML

File ID:

B0059

Level: (LOW/MED) LOW

Date Received:

12/15/94

% Moisture: dec. _____

Date Analyzed:

01/06/95

Extraction: (Sep/Cont/Sonc):

Cont

Dilution Factor:

1.0

GPC Cleanup: (Y/N) N

pH: 7.0

Concentration Units: UG/L

CAS NO.	COMPOUND		Q
67-75-9	N-Nitrosodimethylamine	10	U
97-63-2	Ethyl Methacrylate	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl Methanesulfonate	10	U
66-27-3	Methyl Methanesulfonate	50	U
98-86-2	Acetophenone	10	U
108-39-4	m-Cresol	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
95-53-4	o-Toluidine	10	U
100-75-4	N-Nitrosopiperidine	10	U
87-65-0	2,6-Dichlorophenol	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitroso-di-n-butylamine	10	U
106-50-3	p-Phenylenediamine	80	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
120-58-1	Isosafrole	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	m-Dinitrobenzene	50	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	50	U
99-55-8	5-Nitrotoluidine	50	U
99-35-4	1,3,5-Trinitrobenzene	50	U
62-44-2	Phenacetin	50	U
92-67-1	4-Aminobiphenyl	50	U
82-68-8	Pentachloronitrobenzene	10	U
56-57-5	4-Nitroquinoline-1-oxide	80	U
91-80-5	Methapyrilene	10	U
60-11-7	p-(Dimethylamine)Azobenzene	50	U
510-15-6	Chlorobenzilate	10	U
119-93-7	3,3'-Dimethylbenzidine	50	U
53-96-3	2-Acetylaminofluorene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
56-49-5	3-Methylcholanthrene	10	U
122-39-4	Diphenylamine	10	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000047

MW-6X

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: MW-6X

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: B2145

Level: (low/med) LOW

Date Received: 12/14/94

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 12/15/94

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 12/23/94

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

108-95-2	Phenol	10.	U
111-44-4	bis(2-Chloroethyl)Ether	10.	U
95-57-8	2-Chlorophenol	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
95-48-7	2-Methylphenol	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U
106-44-5	4-Methylphenol	10.	U
621-64-7	N-Nitroso-Di-n-propylamine	10.	U
67-72-1	Hexachloroethane	10.	U
98-95-3	Nitrobenzene	10.	U
78-59-1	Isophorone	10.	U
88-75-5	2-Nitrophenol	10.	U
105-67-9	2,4-Dimethylphenol	10.	U
111-91-1	bis(2-Chloroethoxy)Methane	10.	U
120-83-2	2,4-Dichlorophenol	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U
91-20-3	Naphthalene	10.	U
106-47-8	4-Chloroaniline	10.	U
87-68-3	Hexachlorobutadiene	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U
91-57-6	2-Methylnaphthalene	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	25.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	25.	U
131-11-3	Dimethyl Phthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U
99-09-2	3-Nitroaniline	25.	U
83-32-9	Acenaphthene	10.	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000048

Lab Name: AES, Inc.

Contract:

MW-6X

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: MW-6X

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: B2145

Level: (low/med) LOW

Date Received: 12/14/94

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 12/15/94

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 12/23/94

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

51-28-5-----	2,4-Dinitrophenol _____	25.	U
100-02-7-----	4-Nitrophenol _____	25.	U
132-64-9-----	Dibenzofuran _____	10.	U
121-14-2-----	2,4-Dinitrotoluene _____	10.	U
84-66-2-----	Diethylphthalate _____	10.	U
7005-72-3-----	4-Chlorophenyl-phenylether _____	10.	U
86-73-7-----	Fluorene _____	10.	U
100-01-6-----	4-Nitroaniline _____	25.	U
534-52-1-----	4,6-Dinitro-2-methylphenol _____	25.	U
86-30-6-----	N-Nitrosodiphenylamine _____	10.	U
101-55-3-----	4-Bromophenyl-phenylether _____	10.	U
118-74-1-----	Hexachlorobenzene _____	10.	U
87-86-5-----	Pentachlorophenol _____	25.	U
85-01-8-----	Phenanthrene _____	10.	U
120-12-7-----	Anthracene _____	10.	U
86-74-8-----	Carbazole _____	10.	U
84-74-2-----	Di-n-Butylphthalate _____	2.	J
206-44-0-----	Fluoranthene _____	10.	U
129-00-0-----	Pyrene _____	10.	U
85-68-7-----	Butylbenzylphthalate _____	10.	U
91-94-1-----	3,3'-Dichlorobenzidine _____	10.	U
56-55-3-----	Benzo(a)Anthracene _____	10.	U
218-01-9-----	Chrysene _____	10.	U
117-81-7-----	Bis(2-Ethylhexyl)Phthalate _____	5.	BJ
117-84-0-----	Di-n-octyl phthalate _____	10.	U
205-99-2-----	Benzo(b)fluoranthene _____	10.	U
207-08-9-----	Benzo(k)Fluoranthene _____	10.	U
50-32-8-----	Benzo(a)Pyrene _____	10.	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene _____	10.	U
53-70-3-----	Dibenzo(a,h)Anthracene _____	10.	U
191-24-2-----	Benzo(g,h,i)Perylene _____	10.	U

(1) - Cannot be separated from diphenylamine

1A
ORGANICS ANALYSIS DATA SHEET

Sample No.

000049

MW-6X

Lab Name: AES,INC

Contract: _____

Lab Code: AES

Case No:

C17000

SAS No. _____

SDG No.:

MW-N

Matrix (SOIL/WATER) : WATER

Lab Sample ID:

MW-6X

Sample wt/vol: 1000 ML

File ID:

B2145

Level: (LOW/MED) LOW

Date Received:

12/14/94

% Moisture: dec. _____

Date Analyzed:

12/23/94

Extraction: (Sepf/Cont/Sonc):

Cont

Dilution Factor:

1.0

GPC Cleanup: (Y/N) N

pH: 7.0

Concentration Units: UG/L

CAS NO.	COMPOUND		Q
67-75-9	N-Nitrosodimethylamine	10	U
97-63-2	Ethyl Methacrylate	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl Methanesulfonate	10	U
66-27-3	Methyl Methanesulfonate	50	U
98-86-2	Acetophenone	10	U
108-39-4	m-Cresol	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
95-53-4	o-Toluidine	10	U
100-75-4	N-Nitrosopiperidine	10	U
87-65-0	2,6-Dichlorophenol	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitroso-di-n-butylamine	10	U
106-50-3	p-Phenylenediamine	80	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
120-58-1	Isosafrole	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	m-Dinitrobenzene	50	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	50	U
99-55-8	5-Nitrotoluidine	50	U
99-35-4	1,3,5-Trinitrobenzene	50	U
62-44-2	Phenacetin	50	U
92-67-1	4-Aminobiphenyl	50	U
82-68-8	Pentachloronitrobenzene	10	U
56-57-5	4-Nitroquinoline-1-oxide	80	U
91-80-5	Methapyrilene	10	U
60-11-7	p-(Dimethylamine)Azobenzene	50	U
510-15-6	Chlorobenzilate	10	U
119-93-7	3,3'-Dimethylbenzidine	50	U
53-96-3	2-Acetylaminofluorene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
56-49-5	3-Methylcholanthrene	10	U
122-39-4	Diphenylamine	10	U

000000

ID
PESTICIDE ORGANICS ANALYSIS DATA SHEET

NYSDEC Sample No.

Lab Name: AES INC

Contract:1

HW-N

Lab Code: AES

Case No:

C17000

SAS No.

SDG No.

HW-N

Matrix (SOIL/WATER):

WATER

Lab Sample ID:

HW-N

Sample wt/vol: 1000 (g/mL) ML

File ID

% Moisture: _____ Decante (Y/N) _____

Date Received: 12/14/94

Extraction:(Sep/Cont/Sonc): SEPF

Date Extracted: 12/14/94

Concentrated Extract Volume:10000_(uL)

Date Analyzed: 1/20/95

Injection Volume:1.0_(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

Sulfur cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/K UG/L)	UNITS:	Q
319-84-6	alpha-BHC	0.05	U	
319-85-7	beta-BHC	0.05	U	
319-86-8	delta-BHC	0.05	U	
58-89-9	gamma-BHC (Lindane)	0.05	U	
76-44-8	Heptachlor	0.05	U	
309-00-2	Aldrin	0.05	U	
1024-57-3	Heptachlor epoxide	0.05	U	
959-98-8	Endosulfan I	0.05	U	
60-57-1	Dieldrin	0.05	U	
72-55-9	4,4'-DDE	0.05	U	
72-20-8	Endrin	0.05	U	
33213-65-9	Endosulfan II	0.05	U	
72-54-8	4,4'-DDD	0.05	U	
1031-07-8	Endosulfan Sulfate	0.05	U	
50-29-3	4,4'-DDT	0.05	U	
72-43-5	Methoxychlor	0.05	U	
53494-70-5	Endrin Ketone	0.05	U	
7421-36-3	Endrin aldehyde	0.05	U	
5103-71-9	alpha-Chlordane	0.05	U	
5103-74-2	gamma Chlordane	0.05	U	
8001-35-2	Toxaphene	0.05	U	
12674-11-2	Aroclor-1016	0.05	U	
11104-28-2	Aroclor-1221	0.05	U	
11141-16-5	Aroclor-1232	0.05	U	
53469-21-9	Aroclor-1242	0.05	U	
12672-29-6	Aroclor-1248	0.05	U	
11097-69-1	Aroclor-1254	0.05	U	
11096-82-5	Aroclor-1260	0.05	U	

000051

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

NISDEC Sample No.

Lab Name: AES INC

Contract: 1

MW-8

Lab Code: AES

Case No:

C17000

SAS No. _____

SDG No.

MW-N

Matrix (SOIL/WATER):

WATER

Lab Sample ID:

MW-8

Sample wt/vol: 1000 (g/mL) ML

File ID

% Moisture: _____ Decants (Y/N) _____

Date Received: 12/15/94

Extraction: (Sepf/Cont/Sonc): SEPF

Date Extracted: 12/19/94

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 1/20/95

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

Sulfur camp: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/K UG/L)	UNITS:	Q
319-84-6	alpha-BHC	0.05	U	
319-85-7	beta-BHC	0.05	U	
319-86-8	delta-BHC	0.05	U	
58-89-9	gamma-BHC (Lindane)	0.05	U	
76-44-8	Heptachlor	0.05	U	
309-00-2	Aldrin	0.05	U	
1024-57-3	Heptachlor epoxide	0.05	U	
959-98-2	Endosulfan I	0.05	U	
60-57-1	Dieldrin	0.05	U	
72-55-9	4,4'-DDE	0.05	U	
72-20-8	Endrin	0.05	U	
33213-65-9	Endosulfan II	0.05	U	
72-54-9	4,4'-DDD	0.05	U	
1031-07-3	Endosulfan Sulfate	0.05	U	
50-29-3	4,4'-DDT	0.05	U	
72-43-5	Methoxychlor	0.05	U	
53494-70-5	Endrin Ketone	0.05	U	
7421-36-3	Endrin aldehyde	0.05	U	
5103-71-9	alpha-Chlordane	0.05	U	
5103-74-2	gamma Chlordane	0.05	U	
8001-35-2	Toxaphene	0.05	U	
12674-11-2	Aroclor-1016	1.0	U	
11104-28-2	Aroclor-1221	2.0	U	
11141-16-5	Aroclor-1232	1.0	U	
53469-21-9	Aroclor-1242	1.0	U	
12672-29-6	Aroclor-1248	1.0	U	
11097-59-1	Aroclor-1254	1.0	U	
11096-82-5	Aroclor-1260	1.0	U	

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

000052

NYSDEC Sample No.

Lab Name: AES INC

Contract:1

MW-1

Lab Code: AES

Case No:

C17000

SAS No. _____

SDG No.

MW-M

Matrix (SOIL/WATER):

WATER

Lab Sample ID:

MW-1

Sample wt/vol: 1000 (g/mL) ML

File ID

% Moisture: _____ Decante (Y/N) _____

Date Received: 12/13/94

Extraction:(Sep/Cont/Sonc): SEPF

Date Extracted: 12/14/94

Concentrated Extract Volume:10000_(uL)

Date Analyzed: 1/20/95

Injection Volume:1.0_(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

Sulfur cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/K UG/L)	UNITS:	Q
319-84-6	alpha-BHC	0.05	U	
319-85-7	beta-BHC	0.05	U	
319-86-8	delta-BHC	0.05	U	
58-89-9	gamma-BHC (Lindane)	0.05	U	
76-44-8	Heptachlor	0.05	U	
309-00-2	Aldrin	0.05	U	
1024-57-3	Heptachlor epoxide	0.05	U	
959-98-8	Endosulfan I	0.05	U	
60-57-1	Dieldrin	0.05	U	
72-55-9	4,4'-DDE	0.05	U	
72-20-8	Endrin	0.05	U	
33213-65-9	Endosulfan II	0.05	U	
72-54-8	4,4'-DDD	0.05	U	
1031-07-8	Endosulfan Sulfate	0.05	U	
50-29-3	4,4'-DDT	0.05	U	
72-43-5	Methoxychlor	0.05	U	
53494-70-5	Endrin Ketone	0.05	U	
7421-36-3	Endrin aldehyde	0.05	U	
5103-71-9	alpha-Chlordane	0.05	U	
5103-74-2	gamma Chlordane	0.05	U	
8001-35-2	Toxaphene	0.05	U	
12674-11-2	Aroclor-1016	0.05	U	
11104-28-2	Aroclor-1221	0.05	U	
11141-16-5	Aroclor-1232	0.05	U	
53469-21-9	Aroclor-1242	0.05	U	
12672-29-6	Aroclor-1248	0.05	U	
11097-69-1	Aroclor-1254	0.05	U	
11096-82-5	Aroclor-1260	0.05	U	

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

000033

NYSDEC Sample No.

Lab Name: AES INC

Contract: 1

MW-2

Lab Code: AES

Case No: C17000 SAS No. _____ SDG No. MW-N

Matrix (SOIL/WATER):

WATER

Lab Sample ID: MW-2

Sample wt/vol: 1000 (g/mL) ML

File ID

% Moisture: _____ Decants (Y/N) _____

Date Received: 12/13/94

Extraction: (Sepf/Cont/Sonc): SEPF

Date Extracted: 12/14/94

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 1/20/95

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

Sulfur amp: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/KG/L)	UNITS:	Q
319-84-6	alpha-BHC	0.15	U	
319-85-7	beta-BHC	0.15	U	
319-86-8	delta-BHC	0.15	U	
58-89-9	gamma-BHC (Lindane)	0.15	U	
76-44-8	Heptachlor	0.15	U	
309-00-2	Aldrin	0.15	U	
1024-57-3	Heptachlor epoxide	0.15	U	
959-98-2	Endosulfan I	0.15	U	
60-57-1	Dieldrin	0.15	U	
72-55-9	4,4'-DDE	0.15	U	
72-20-8	Endrin	0.15	U	
33213-65-9	Endosulfan II	0.15	U	
72-54-8	4,4'-DDD	0.15	U	
1031-07-8	Endosulfan Sulfate	0.15	U	
50-29-3	4,4'-DDT	0.15	U	
72-43-5	Methoxychlor	0.15	U	
53494-70-5	Endrin Ketone	0.15	U	
7421-36-3	Endrin aldehyde	0.15	U	
5103-71-9	alpha-Chlordane	0.15	U	
5103-74-2	gamma Chlordane	0.15	U	
8001-35-2	Toxaphene	5.0	U	
12674-11-2	Aroclor-1016	1.0	U	
11104-28-2	Aroclor-1221	2.0	U	
11141-16-5	Aroclor-1232	1.0	U	
53469-21-9	Aroclor-1242	1.0	U	
12672-29-6	Aroclor-1248	1.0	U	
11097-69-1	Aroclor-1254	1.0	U	
11096-82-5	Aroclor-1260	1.0	U	

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

000054
NYSDEC Sample No.

Lab Name: AES INC

Contract: 1

MW-3

Lab Code: AES

Case No: C17000 SAS No. _____ SDG No. MW-N

Matrix (SOIL/WATER): WATER

Lab Sample ID: MW-3

Sample wt/vol: 1000 (g/mL) ML

File ID

% Moisture: _____ Decants (Y/N) _____

Date Received: 12/14/94

Extractions (Sepf/Cont/Sonc): SEPF

Date Extracted: 12/14/94

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 1/20/95

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

Sulfur dump: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/K UG/L)	UNITS:	Q
319-84-6	alpha-BHC	0.05	U	
319-85-7	beta-BHC	0.05	U	
319-86-8	delta-BHC	0.05	U	
58-89-9	gamma-BHC (Lindane)	0.05	U	
76-44-8	Heptachlor	0.05	U	
309-00-2	Aldrin	0.05	U	
1024-57-3	Heptachlor epoxide	0.05	U	
959-98-9	Endosulfan I	0.05	U	
60-57-1	Dieldrin	0.05	U	
72-55-9	4,4'-DDE	0.05	U	
72-20-8	Endrin	0.05	U	
33213-65-9	Endosulfan II	0.05	U	
72-54-8	4,4'-DDD	0.05	U	
1031-97-8	Endosulfan Sulfate	0.05	U	
50-29-3	4,4'-DDT	0.05	U	
72-43-5	Methoxychlor	0.05	U	
53494-70-5	Endrin Ketone	0.05	U	
7421-36-3	Endrin aldehyde	0.05	U	
5103-71-9	alpha-Chlordane	0.05	U	
5103-74-2	gamma Chlordane	0.05	U	
8001-35-2	Toxaphene	5.0	U	
12674-11-2	Aroclor-1016	1.0	U	
11104-28-2	Aroclor-1221	2.0	U	
11141-16-5	Aroclor-1232	1.0	U	
53469-21-9	Aroclor-1242	1.0	U	
12672-29-6	Aroclor-1248	1.0	U	
11097-69-1	Aroclor-1254	1.0	U	
11096-82-5	Aroclor-1260	1.0	U	

000035

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

NYSDEC Sample No.

Lab Name: AES INC

Contract: 1

MW-4

Lab Code: AES

Case No: C17000 SAS No. _____ SDG No. MW-N

Matrix (SOIL/WATER):

WATER

Lab Sample ID: MW-4

Sample wt/vol: 1000 (g/mL) ML

File ID

% Moisture: _____ Decante (Y/N) _____

Date Received: 12/15/94

Extraction: (Sepf/Cont/Sonc): SEPF

Date Extracted: 12/19/94

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 1/20/95

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

Sulfur cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/K ug/L)	UNITS:	Q
319-84-6	alpha-BHC	0.05	U	
319-85-7	beta-BHC	0.05	U	
319-86-8	delta-BHC	0.05	U	
58-89-9	gamma-BHC (Lindane)	0.05	U	
76-44-8	Heptachlor	0.05	U	
309-00-2	Aldrin	0.05	U	
1024-57-3	Heptachlor epoxide	0.05	U	
959-98-2	Endosulfan I	0.05	U	
60-57-1	Dieldrin	0.05	U	
72-55-9	4,4'-DDE	0.05	U	
72-20-8	Endrin	0.05	U	
33213-65-9	Endosulfan II	0.05	U	
72-54-8	4,4'-DDD	0.05	U	
1031-07-8	Endosulfan Sulfate	0.05	U	
50-29-3	4,4'-DDT	0.05	U	
72-43-5	Methoxychlor	0.05	U	
53494-70-5	Endrin Ketone	0.05	U	
7421-35-3	Endrin aldehyde	0.05	U	
5103-71-9	alpha-Chlordane	0.05	U	
5103-74-2	gamma Chlordane	0.05	U	
8001-35-2	Toxaphene	0.05	U	
12674-11-2	Aroclor-1016	1.0	U	
11104-28-2	Aroclor-1221	2.0	U	
11141-16-5	Aroclor-1232	1.0	U	
53469-21-9	Aroclor-1242	1.0	U	
12672-29-6	Aroclor-1248	1.0	U	
11097-69-1	Aroclor-1254	1.0	U	
11096-82-5	Aroclor-1260	1.0	U	

000036

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

NYSDEC Sample No.

Lab Name: AES INC

Contract:1

MW-6D

Lab Code: AES

Case No:

C17000

SAS No. _____

SDG No.

MW-N

Matrix (SOIL/WATER):

WATER

Lab Sample ID:

MW-6D

Sample wt/vol: 1000 (g/mL) ML

File ID

% Moisture: _____ Decante (Y/N) _____

Date Received: 12/15/94

Extraction:(Sep/Cont/Sonc): SEPF

Date Extracted: 12/19/94

Concentrated Extract Volume:10000_(uL)

Date Analyzed: 1/20/95

Injection Volume:1.0_(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

Sulfur cleanup: (Y/N) _Y_

CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/KG/L)	UNITS:	Q
319-84-6	alpha-BHC	0.05	U	
319-85-7	beta-BHC	0.05	U	
319-86-8	delta-BHC	0.05	U	
58-89-9	gamma-BHC (Lindane)	0.05	U	
76-44-8	Heptachlor	0.05	U	
309-00-2	Aldrin	0.05	U	
1024-57-3	Heptachlor epoxide	0.05	U	
959-98-2	Endosulfan I	0.05	U	
60-57-1	Dieldrin	0.05	U	
72-55-9	4,4'-DDE	0.05	U	
72-20-8	Endrin	0.05	U	
33213-65-9	Endosulfan II	0.05	U	
72-54-8	4,4'-DDD	0.05	U	
1031-07-8	Endosulfan Sulfate	0.05	U	
50-29-3	4,4'-DDT	0.05	U	
72-43-5	Methoxychlor	0.05	U	
53494-70-5	Endrin Ketone	0.05	U	
7421-36-3	Endrin aldehyde	0.05	U	
5103-71-9	alpha-Chlordane	0.05	U	
5103-74-2	gamma Chlordane	0.05	U	
8001-35-2	Toxaphene	0.05	U	
12674-11-2	Aroclor-1016	0.05	U	
11104-28-2	Aroclor-1221	0.05	U	
11141-16-5	Aroclor-1232	0.05	U	
53469-21-9	Aroclor-1242	0.05	U	
12672-29-6	Aroclor-1248	0.05	U	
11097-69-1	Aroclor-1254	0.05	U	
11096-82-5	Aroclor-1260	0.05	U	

000037

10
PESTICIDE ORGANICS ANALYSIS DATA SHEET

NYSDRC Sample No.

Lab Name: AES INC

Contract: 1

MW-6E

Lab Code: AES

Case No:

C17000

SAS No. _____

SDC No.: MW-N

Matrix (SOIL/WATER):

WATER

Lab Sample ID:

MW-6E

Sample wt/vol:

1000 (g/mL)

ML

File ID:

Moisture: _____

Decanted: (Y/N) _____

Date Received:

12/14/94

Extraction: (Sep/Cont/Sonc):

SEPP

Date Extracted:

12/14/94

Concentrated Extract Volume: 10000 (uL)

Date Analyzed:

1/20/95

Injection Volume: 1.0 (uL)

Dilution Factor:

1.0

GPC Cleanup: (Y/N) N

pH:

Sulfur Cl camp: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/Kg)	UNITS:	
		(ug/L or ug/Kg)	ug/L	g
319-84-6	alpha-BHC		0.05	g
319-85-7	beta-BHC		0.05	g
319-86-8	delta-BHC		0.05	g
58-89-2	gamma-BHC (Lindane)		0.05	g
76-44-8	Heptachlor		0.05	g
309-00-2	Aldrin		0.05	g
1024-57-3	Heptachlor epoxide		0.05	g
959-98-8	Endosulfan I		0.05	g
60-57-1	Dieldrin		0.05	g
72-55-2	4,4'-DDE		0.05	g
72-29-3	Endrin		0.05	g
33213-85-2	Endosulfan II		0.05	g
72-54-3	4,4'-DDD		0.05	g
1031-07-8	Endosulfan Sulfate		0.05	g
50-29-3	4,4'-DDT		0.05	g
72-43-5	Methoxychlor		0.05	g
53494-70-5	Endrin Ketone		0.05	g
7421-36-3	Endrin aldehyde		0.05	g
5103-71-7	alpha-Chlordane		0.05	g
5103-74-2	gamma-Chlordane		0.05	g
8001-35-2	Toxaphene		0.05	g
12674-11-2	Aroclor-1016		0.05	g
11104-28-2	Aroclor-1221		0.05	g
11141-16-5	Aroclor-1232		0.05	g
53469-21-9	Aroclor-1242		0.05	g
12672-22-6	Aroclor-1248		0.05	g
11097-69-1	Aroclor-1254		0.05	g
11096-82-5	Aroclor-1260		0.05	g

1D
OP PESTICIDE ORGANICS ANALYSIS DATA SHEET

000055
EPA SAMPLE NO.

MW-N

Lab Name: AES

Contract:

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: MW-N

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: 941214K01

Level: (low/med) LOW

Date Received: 12/14/94

% Moisture: not dec. 100. dec. _____

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 12/29/94

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

126-68-1-----	OOO-TEP	.50	U
297-97-2-----	Thionazin	.50	U
298-02-2-----	Phorate	.50	U
60-51-5-----	Dimethoate	.50	U
298-04-4-----	Disulfoton	.50	U
298-00-0-----	Methyl Parathion	.50	U
56-38-2-----	Parathion	.50	U
52-85-7-----	Famphur	.50	U

1D
OP PESTICIDE ORGANICS ANALYSIS DATA SHEET

000000
EPA SAMPLE NO.

Lab Name: AES

Contract:

MW-S

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: MW-S

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: 941215S04

Level: (low/med) LOW

Date Received: 12/15/94

% Moisture: not dec. 100. dec. _____

Date Extracted: 12/19/94

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 12/29/94

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

126-68-1-----	OOO-TEP	.50	U
297-97-2-----	Thionazin	.50	U
298-02-2-----	Phorate	.25	J
60-51-5-----	Dimethoate	.10	J
298-04-4-----	Disulfoton	2.4	
298-00-0-----	Methyl Parathion	.18	J
56-38-2-----	Parathion	.048	J
52-85-7-----	Famphur	.50	U

1D
OP PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. (800000)

MW-1

Lab Name: AES

Contract:

Lab Code: AES

Case No.: C17000

SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: MW-1

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: 941213I01

Level: (low/med) LOW

Date Received: 12/13/94

% Moisture: not dec. 100. dec. _____

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 12/29/94

GPC Cleanup: (Y/N) N

pH: 7.0

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

126-68-1-----	OOO-TEP	.50	U
297-97-2-----	Thionazin	.50	U
298-02-2-----	Phorate	.50	U
60-51-5-----	Dimethoate	.50	U
298-04-4-----	Disulfoton	.50	U
298-00-0-----	Methyl Parathion	.50	U
56-38-2-----	Parathion	.50	U
52-85-7-----	Famphur	.50	U

1D
OP PESTICIDE ORGANICS ANALYSIS DATA SHEET

000001
EPA SAMPLE NO.

Lab Name: AES

Contract:

MW-2

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: MW-2

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: 941213I02

Level: (low/med) LOW

Date Received: 12/13/94

% Moisture: not dec. 100. dec. _____

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 12/29/94

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

126-68-1-----OOO-TEP	.50	U
297-97-2-----Thionazin	.50	U
298-02-2-----Phorate	.50	U
60-51-5-----Dimethoate	.50	U
298-04-4-----Disulfoton	.50	U
298-00-0-----Methyl Parathion	.50	U
56-38-2-----Parathion	.50	U
52-85-7-----Famphur	.50	U

1D
OP PESTICIDE ORGANICS ANALYSIS DATA SHEET

000002
EPA SAMPLE NO.

MW-3

Lab Name: AES

Contract:

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: MW-3

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: 941214K03

Level: (low/med) LOW

Date Received: 12/14/94

% Moisture: not dec. 100. dec. _____

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 12/29/94

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

126-68-1-----	OOO-TEP	.50	U
297-97-2-----	Thionazin	.50	U
298-02-2-----	Phorate	.19	J
60-51-5-----	Dimethoate	.50	U
298-04-4-----	Disulfoton	.30	J
298-00-0-----	Methyl Parathion	.50	U
56-38-2-----	Parathion	.50	U
52-85-7-----	Famphur	.50	U

1D
OP PESTICIDE ORGANICS ANALYSIS DATA SHEET

000000
EPA SAMPLE NO.

MW-4

Lab Name: AES

Contract:

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: MW-4

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: 941215S03

Level: (low/med) LOW

Date Received: 12/15/94

% Moisture: not dec. 100. dec. _____

Date Extracted: 12/19/94

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 12/29/94

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
126-68-1-----	OOO-TEP	.50	U
297-97-2-----	Thionazin	.50	U
298-02-2-----	Phorate	.50	U
60-51-5-----	Dimethoate	.50	U
298-04-4-----	Disulfoton	.50	U
298-00-0-----	Methyl Parathion	.50	U
56-38-2-----	Parathion	.50	U
52-85-7-----	Famphur	.50	U

1D
OP PESTICIDE ORGANICS ANALYSIS DATA SHEET

000004
EPA SAMPLE NO.

MW-6D

Lab Name: AES

Contract:

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: MW-6D

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: 941215S02

Level: (low/med) LOW

Date Received: 12/15/94

% Moisture: not dec. 100. dec. _____

Date Extracted: 12/19/94

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 12/29/94

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

126-68-1-----	OOO-TEP	.50	U
297-97-2-----	Thionazin	.50	U
298-02-2-----	Phorate	.19	J
60-51-5-----	Dimethoate	.075	J
298-04-4-----	Disulfoton	.50	U
298-00-0-----	Methyl Parathion	.50	U
56-38-2-----	Parathion	.50	U
52-85-7-----	Famphur	.50	U

1D
OP PESTICIDE ORGANICS ANALYSIS DATA SHEET

000005
EPA SAMPLE NO.

Lab Name: AES

Contract:

MW-6X

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: MW-6X

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: 941214K02

Level: (low/med) LOW

Date Received: 12/14/94

% Moisture: not dec. 100. dec. _____

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 12/29/94

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

126-68-1-----OOO-TEP	.50	U
297-97-2-----Thionazin	.50	U
298-02-2-----Phorate	.098	J
60-51-5-----Dimethoate	.50	U
298-04-4-----Disulfoton	.15	J
298-00-0-----Methyl Parathion	.50	U
56-38-2-----Parathion	.50	U
52-85-7-----Famphur	.50	U

1D
PKID ORGANICS ANALYSIS DATA SHEET

000000
EPA SAMPLE NO.

MW-N

Lab Name: AES

Contract:

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: MW-N

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: 941214K01

Level: (low/med) LOW

Date Received: 12/14/94

% Moisture: not dec. 100. dec. _____

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 12/22/94

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/L	Q
2303-16-4-----	DIALATE	1.0	U
23950-58-5-----	PRONAMIDE	.100	U
143-50-0-----	KEPONE	.011	BJ
465-73-6-----	ISODRIN	.100	U

1D
PKID ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: AES

Contract:

MW-S

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: MW-S

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: 941215S04

Level: (low/med) LOW

Date Received: 12/15/94

% Moisture: not dec. 100. dec. _____

Date Extracted: 12/19/94

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 12/22/94

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

2303-16-4-----DIALATE	1.0	U	
23950-58-5-----PRONAMIDE	.100	U	
143-50-0-----KEPONE	.060	J	
465-73-6-----ISODRIN	.100	U	

FORM I PEST

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1D
PKID ORGANICS ANALYSIS DATA SHEET

000000
EPA SAMPLE NO.

Lab Name: AES

Contract:

MW-1

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: MW-1

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: 941213I01

Level: (low/med) LOW

Date Received: 12/13/94

% Moisture: not dec. 100. dec. _____

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 12/22/94

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

2303-16-4-----	DIALATE	1.0	U
23950-58-5-----	PRONAMIDE	.100	U
143-50-0-----	KEPONE	.100	U
465-73-6-----	ISODRIN	.100	U

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000000

1D
PKID ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-2

Lab Name: AES

Contract:

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: MW-2

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: 941213I02

Level: (low/med) LOW

Date Received: 12/13/94

% Moisture: not dec. 100. dec. _____

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 12/22/94

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

2303-16-4-----DIALATE	1.0	U
23950-58-5-----PRONAMIDE	.100	U
143-50-0-----KEPONE	.100	U
465-73-6-----ISODRIN	.100	U

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000070

1D
PKID ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-3

Lab Name: AES

Contract:

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: MW-3

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: 941214K03

Level: (low/med) LOW

Date Received: 12/14/94

% Moisture: not dec. 100. dec. _____

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 12/22/94

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/L	Q
2303-16-4-----	DIALATE	1.0	U
23950-58-5-----	PRONAMIDE	.100	U
143-50-0-----	KEPONE	.028	BJ
465-73-6-----	ISODRIN	.100	U

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1D
PKID ORGANICS ANALYSIS DATA SHEET

000071
EPA SAMPLE NO.

MW-4

Lab Name: AES

Contract:

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: MW-4

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: 941215S03

Level: (low/med) LOW

Date Received: 12/15/94

% Moisture: not dec. 100. dec. _____

Date Extracted: 12/19/94

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 12/22/94

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
---------	----------	--	---

2303-16-4-----	DIALATE	1.0	U
23950-58-5-----	PRONAMIDE	.100	U
143-50-0-----	KEPONE	.014	J
465-73-6-----	ISODRIN	.100	U

FORM I PEST

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1D
PKID ORGANICS ANALYSIS DATA SHEET

000072
EPA SAMPLE NO.

MW-6D

Lab Name: AES

Contract:

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: MW-6D

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: 941215S02

Level: (low/med) LOW

Date Received: 12/15/94

% Moisture: not dec. 100. dec. _____

Date Extracted: 12/19/94

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 12/22/94

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

2303-16-4-----	DIALATE	1.0	U
23950-58-5-----	PRONAMIDE	.100	U
143-50-0-----	KEPONE	.011	J
465-73-6-----	ISODRIN	.100	U

FORM I PEST

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1D
PKID ORGANICS ANALYSIS DATA SHEET

000073
EPA SAMPLE NO.

MW-6X

Lab Name: AES

Contract:

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: MW-6X

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: 941214K02

Level: (low/med) LOW

Date Received: 12/14/94

% Moisture: not dec. 100. dec. _____

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 12/22/94

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

2303-16-4-----	DIALATE	1.0	U
23950-58-5-----	PRONAMIDE	.100	U
143-50-0-----	KEPONE	.016	BJ
465-73-6-----	ISODRIN	.100	U

1D
HERBICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-N

Lab Name: AES,IN

Contract:

Lab Code: AES,IN

Case No.: C17000

SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: MW-N

Sample wt/vol: 100.0 (g/mL) ML

Lab File ID: 941214 K01

Level: (low/med) LOW

Date Received: 12/14/94

% Moisture: not dec. 100. dec. _____

Date Extracted: 12/15/94

Extraction: (SepF/Cont/Sonc) LLP

Date Analyzed: 12/30/94

GPC Cleanup: (Y/N) N

pH:

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

94-75-7-----	2,4-D	.50	U
93-72-1-----	SILVEX	.100	U
93-76-5-----	2,4,5-T	.100	U
88-85-7-----	DINOSEB	.50	U

FORM I PEST

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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

000075
EPA SAMPLE NO.

MW-S

Lab Name: AES,IN

Contract:

Lab Code: AES,IN

Case No.: C17000

SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: MW-S

Sample wt/vol: 100.0 (g/mL) ML

Lab File ID: 941215 S04 DX5

Level: (low/med) LOW

Date Received: 12/15/94

% Moisture: not dec. 100. dec. _____

Date Extracted: 12/15/94

Extraction: (SepF/Cont/Sonc) LLP

Date Analyzed: 12/30/94

GPC Cleanup: (Y/N) N

pH:

Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

94-75-7-----	2,4-D	2.5	U
93-72-1-----	SILVEX	.50	U
93-76-5-----	2,4,5-T	.25	BJ
88-85-7-----	DINOSEB	2.5	U

FORM I PEST

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1D
HERBICIDE ORGANICS ANALYSIS DATA SHEET

000000
EPA SAMPLE NO.

MW-1

Lab Name: AES,IN

Contract:

Lab Code: AES,IN

Case No.: C17000

SAS No.:

SDG No.: MW-N

Matrix: (soil/water), WATER

Lab Sample ID: MW-1

Sample wt/vol: 100.0 (g/mL) ML

Lab File ID: 941213 I01

Level: (low/med) LOW

Date Received: 12/13/94

% Moisture: not dec. 100. dec. _____

Date Extracted: 12/15/94

Extraction: (SepF/Cont/Sonc) LLP

Date Analyzed: 12/30/94

GPC Cleanup: (Y/N) N pH:

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

94-75-7-----	2,4-D	.50	U
93-72-1-----	SILVEX	.100	U
93-76-5-----	2,4,5-T	.100	U
88-85-7-----	DINOSEB	.50	U

FORM I PEST

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1D
HERBICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-2

Lab Name: AES,IN

Contract:

Lab Code: AES,IN

Case No.: C17000 SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: MW-2

Sample wt/vol: 100.0 (g/mL) ML

Lab File ID: 941213 I02

Level: (low/med) LOW

Date Received: 12/13/94

% Moisture: not dec. 100. dec. _____

Date Extracted: 12/15/94

Extraction: (SepF/Cont/Sonc) LLP

Date Analyzed: 12/30/94

GPC Cleanup: (Y/N) N

pH:

Dilution Factor: 1.00

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

94-75-7-----2,4-D	.50	U
93-72-1-----SILVEX	.100	U
93-76-5-----2,4,5-T	.100	U
88-85-7-----DINOSEB	.50	U

FORM I PEST

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1D
HERBICIDE ORGANICS ANALYSIS DATA SHEET

94-07-
EPA SAMPLE NO.

MW-3

Lab Name: AES,IN

Contract:

Lab Code: AES,IN

Case No.: C17000

SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: MW-3

Sample wt/vol: 100.0 (g/mL) ML

Lab File ID: 941214 K03

Level: (low/med) LOW

Date Received: 12/14/94

% Moisture: not dec. 100. dec. _____

Date Extracted: 12/15/94

Extraction: (SepF/Cont/Sonc) LLP

Date Analyzed: 12/30/94

GPC Cleanup: (Y/N) N

pH:

Dilution Factor: 1.00

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

94-75-7-----2,4-D	.50	U
93-72-1-----SILVEX	.100	U
93-76-5-----2,4,5-T	.100	U
88-85-7-----DINOSEB	18.	

FORM I PEST

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1D
HERBICIDE ORGANICS ANALYSIS DATA SHEET

000070
EPA SAMPLE NO.

Lab Name: AES,IN

Contract:

MW-4

Lab Code: AES,IN

Case No.: C17000

SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: MW-4

Sample wt/vol: 100.0 (g/mL) ML

Lab File ID: 941215 S03

Level: (low/med) LOW

Date Received: 12/15/94

% Moisture: not dec. 100. dec. _____

Date Extracted: 12/15/94

Extraction: (SepF/Cont/Sonc) LLP

Date Analyzed: 12/30/94

GPC Cleanup: (Y/N) N

pH:

Dilution Factor: 1.00

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

94-75-7-----2,4-D	.50	U
93-72-1-----SILVEX	.100	U
93-76-5-----2,4,5-T	.100	U
88-85-7-----DINOSEB	.50	U

FORM I PEST

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1D
HERBICIDE ORGANICS ANALYSIS DATA SHEET

000000

EPA SAMPLE NO.

MW-6D

Lab Name: AES,IN

Contract:

Lab Code: AES,IN

Case No.: C17000

SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: MW-6D

Sample wt/vol: 100.0 (g/mL) ML

Lab File ID: 941215 S02

Level: (low/med) LOW

Date Received: 12/15/94

% Moisture: not dec. 100. dec. _____

Date Extracted: 12/15/94

Extraction: (SepF/Cont/Sonc) LLP

Date Analyzed: 12/30/94

GPC Cleanup: (Y/N) N

pH:

Dilution Factor: 1.00

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

94-75-7-----2,4-D	.50	U
93-72-1-----SILVEX	.100	U
93-76-5-----2,4,5-T	.100	U
88-85-7-----DINOSEB	30.	

FORM I PEST

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1D
HERBICIDE ORGANICS ANALYSIS DATA SHEET

000001
EPA SAMPLE NO.

MW-6X

Lab Name: AES,IN

Contract:

Lab Code: AES,IN

Case No.: C17000 SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: MW-6X

Sample wt/vol: 100.0 (g/mL) ML

Lab File ID: 941214 K02

Level: (low/med) LOW

Date Received: 12/14/94

% Moisture: not dec. 100. dec. _____

Date Extracted: 12/15/94

Extraction: (SepF/Cont/Sonc) LLP

Date Analyzed: 12/30/94

GPC Cleanup: (Y/N) N

pH:

Dilution Factor: 1.00

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

94-75-7-----2,4-D	.50	U
93-72-1-----SILVEX	.100	U
93-76-5-----2,4,5-T	.100	U
88-85-7-----DINOSEB	15.	

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Lab Name: AES, INC.
SDG: MW-N

000081A

HARDNESS RESULTS	
CLIENT ID	RESULT (MG CaCO3/L)
MW-N	325
MW-S	482
MW-1	11
MW-2	47
MW-3	271
MW-4	224
MW-6D	685
MW-6X	159

000082

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MWN

Lab Name: AES _____ Contract: _____

Lab Code: AES _____ Case No.: _____ SAS No.: _____ SDG No.: MWN _____

Matrix (soil/water): WATER

Lab Sample ID: MWN

Level (low/med): LOW _____

Date Received: 12/13/94

% Solids: _____ 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	744	-		P
7440-36-0	Antimony	50.0	U		P
7440-38-2	Arsenic	5.3	U	N	F
7440-39-3	Barium	289			P
7440-41-7	Beryllium	1.2	B		P
7440-43-9	Cadmium	2.7	U		P
7440-70-2	Calcium	102000			P
7440-47-3	Chromium	3.9	U		P
7440-48-4	Cobalt	6.9	U		P
7440-50-8	Copper	10.9	B		P
7439-89-6	Iron	1550			P
7439-92-1	Lead	2.9	B		F
7439-95-4	Magnesium	17000			P
7439-96-5	Manganese	104			P
7439-97-6	Mercury	0.04	U	N	AV
7440-02-0	Nickel	15.0	B		P
7440-09-7	Potassium	1650	B		P
7782-49-2	Selenium	2.8	B	WN	F
7440-22-4	Silver	4.1	B		P
7440-23-5	Sodium	12500		E	P
7440-28-0	Thallium	3.8	U	WN	F
7440-62-2	Vanadium	3.8	U	N	P
7440-66-6	Zinc	59.6			P
7440-42-8	Boron	188			P
7440-31-5	Tin	514			P

Color Before: COLORLESS

Clarity Before: CLEAR_

Texture: _____

Color After: COLORLESS

Clarity After: CLEAR_

Artifacts: _____

Comments:

000003

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: AES _____ Contract: _____

MWS

Lab Code: AES _____ Case No.: _____ SAS No.: _____ SDG No.: MWN _____

Matrix (soil/water): WATER

Lab Sample ID: MWS

Level (low/med): LOW _____

Date Received: 12/13/94

% Solids: _____ 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	478	—	—	P
7440-36-0	Antimony	50.0	U	—	P
7440-38-2	Arsenic	37.0	U	N	F
7440-39-3	Barium	270	—	—	P
7440-41-7	Beryllium	0.70	U	—	P
7440-43-9	Cadmium	2.7	U	—	P
7440-70-2	Calcium	142000	—	—	P
7440-47-3	Chromium	3.9	U	—	P
7440-48-4	Cobalt	8.2	B	—	P
7440-50-8	Copper	27.6	—	—	P
7439-89-6	Iron	5910	—	—	P
7439-92-1	Lead	3.3	—	—	F
7439-95-4	Magnesium	31000	—	—	P
7439-96-5	Manganese	9200	—	—	P
7439-97-6	Mercury	0.04	U	N	AV
7440-02-0	Nickel	35.6	B	—	P
7440-09-7	Potassium	59500	—	—	P
7782-49-2	Selenium	2.2	U	WN	F
7440-22-4	Silver	2.8	U	—	P
7440-23-5	Sodium	167000	—	E	P
7440-28-0	Thallium	34.0	U	N	F
7440-62-2	Vanadium	23.3	B	N	P
7440-66-6	Zinc	62.1	—	—	P
7440-42-8	Boron	867	—	—	P
7440-31-5	Tin	418	—	—	P

Color Before: YELLOW _____

Clarity Before: CLOUDY

Texture: _____

Color After: COLORLESS

Clarity After: CLEAR _____

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: AES _____ Contract: _____

MW1

Lab Code: AES _____ Case No.: _____ SAS No.: _____ SDG No.: MWN _____

Matrix (soil/water): WATER

Lab Sample ID: MW1

Level (low/med): LOW _____

Date Received: 12/13/94

% Solids: _____ 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	425	—	—	P
7440-36-0	Antimony	50.0	U	—	P
7440-38-2	Arsenic	5.3	U	N	F
7440-39-3	Barium	78.5	B	—	P
7440-41-7	Beryllium	0.70	U	—	P
7440-43-9	Cadmium	2.7	U	—	P
7440-70-2	Calcium	3670	B	—	P
7440-47-3	Chromium	3.9	U	—	P
7440-48-4	Cobalt	6.9	U	—	P
7440-50-8	Copper	2.3	U	—	P
7439-89-6	Iron	696	—	—	P
7439-92-1	Lead	2.8	U	—	F
7439-95-4	Magnesium	368	B	—	P
7439-96-5	Manganese	53.8	—	—	P
7439-97-6	Mercury	0.04	U	N	AV
7440-02-0	Nickel	9.7	U	—	P
7440-09-7	Potassium	608	U	—	P
7782-49-2	Selenium	2.2	U	WN	F
7440-22-4	Silver	2.8	U	—	P
7440-23-5	Sodium	87500	—	E	P
7440-28-0	Thallium	3.8	U	WN	F
7440-62-2	Vanadium	3.8	U	N	P
7440-66-6	Zinc	29.8	—	—	P
7440-42-8	Boron	153	—	—	P
7440-31-5	Tin	504	—	—	P

Color Before: COLORLESS Clarity Before: CLEAR _____ Texture: _____

Color After: COLORLESS Clarity After: CLEAR _____ Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: AES _____ Contract: _____

MW2

Lab Code: AES _____ Case No.: _____ SAS No.: _____ SDG No.: MWN _____

Matrix (soil/water): WATER

Lab Sample ID: MW2

Level (low/med): LOW _____

Date Received: 12/13/94

% Solids: _____ 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	280	-		P
7440-36-0	Antimony	50.0	U		P
7440-38-2	Arsenic	5.3	U	N	F
7440-39-3	Barium	37.1	B		P
7440-41-7	Beryllium	0.85	B		P
7440-43-9	Cadmium	2.7	U		P
7440-70-2	Calcium	13500	-		P
7440-47-3	Chromium	3.9	U		P
7440-48-4	Cobalt	6.9	U		P
7440-50-8	Copper	13.4	B		P
7439-89-6	Iron	494	-		P
7439-92-1	Lead	2.8	U		F
7439-95-4	Magnesium	3290	B		P
7439-96-5	Manganese	80.1	-		P
7439-97-6	Mercury	0.04	U	N	AV
7440-02-0	Nickel	9.7	U		P
7440-09-7	Potassium	2060	B		P
7782-49-2	Selenium	11.0	U	WN	F
7440-22-4	Silver	2.8	U		P
7440-23-5	Sodium	3950	B	E	P
7440-28-0	Thallium	3.8	U	N	F
7440-62-2	Vanadium	3.8	U	N	P
7440-66-6	Zinc	18.4	B		P
7440-42-8	Boron	1070	-		P
7440-31-5	Tin	536	-		P

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: AES _____ Contract: _____

MW3

Lab Code: AES _____ Case No.: _____ SAS No.: _____ SDG No.: MWN _____

Matrix (soil/water): WATER

Lab Sample ID: MW3

Level (low/med): LOW _____

Date Received: 12/13/94

% Solids: _____ 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	82.4	B		P
7440-36-0	Antimony	50.0	U		P
7440-38-2	Arsenic	5.3	U	WN	F
7440-39-3	Barium	268			P
7440-41-7	Beryllium	1.0	B		P
7440-43-9	Cadmium	2.7	U		P
7440-70-2	Calcium	79700			P
7440-47-3	Chromium	3.9	U		P
7440-48-4	Cobalt	6.9	U		P
7440-50-8	Copper	5.3	B		P
7439-89-6	Iron	6230			P
7439-92-1	Lead	2.8	U		F
7439-95-4	Magnesium	17400			P
7439-96-5	Manganese	7960			P
7439-97-6	Mercury	0.04	U	N	AV
7440-02-0	Nickel	9.7	U		P
7440-09-7	Potassium	18300			P
7782-49-2	Selenium	2.2	U	WN	F
7440-22-4	Silver	2.8	U		P
7440-23-5	Sodium	62400		E	P
7440-28-0	Thallium	3.8	U	WN	F
7440-62-2	Vanadium	3.8	U	N	P
7440-66-6	Zinc	10.1	B		P
7440-42-8	Boron	325			P
7440-31-5	Tin	396			P

Color Before: COLORLESS

Clarity Before: CLEAR _____

Texture: _____

Color After: COLORLESS

Clarity After: CLEAR _____

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW4

Lab Name: AES _____ Contract: _____

Lab Code: AES _____ Case No.: _____ SAS No.: _____ SDG No.: MWN _____

Matrix (soil/water): WATER

Lab Sample ID: MW4

Level (low/med): LOW _____

Date Received: 12/13/94

% Solids: _____ 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	253	-		P
7440-36-0	Antimony	50.0	U		P
7440-38-2	Arsenic	5.3	U	WN	F
7440-39-3	Barium	86.1	B		P
7440-41-7	Beryllium	0.85	B		P
7440-43-9	Cadmium	2.7	U		P
7440-70-2	Calcium	69800	-		P
7440-47-3	Chromium	3.9	U		P
7440-48-4	Cobalt	6.9	U		P
7440-50-8	Copper	2.3	U		P
7439-89-6	Iron	730	-		P
7439-92-1	Lead	3.5	-		F
7439-95-4	Magnesium	12000	-		P
7439-96-5	Manganese	1690	-		P
7439-97-6	Mercury	0.04	U	N	AV
7440-02-0	Nickel	15.9	B		P
7440-09-7	Potassium	3780	B		P
7782-49-2	Selenium	2.2	U	WN	F
7440-22-4	Silver	2.8	U		P
7440-23-5	Sodium	25300	-	E	P
7440-28-0	Thallium	3.8	U	WN	F
7440-62-2	Vanadium	3.8	U	N	P
7440-66-6	Zinc	4.8	B		P
7440-42-8	Boron	232	-		P
7440-31-5	Tin	708	-		P

Color Before: PINK _____

Clarity Before: CLOUDY

Texture: _____

Color After: COLORLESS

Clarity After: CLEAR_

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: AES _____ Contract: _____

MW6D

Lab Code: AES _____ Case No.: _____ SAS No.: _____ SDG No.: MWN _____

Matrix (soil/water): WATER

Lab Sample ID: MW6D

Level (low/med): LOW _____

Date Received: 12/13/94

% Solids: _____ 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	302	-		P
7440-36-0	Antimony	50.0	U		P
7440-38-2	Arsenic	17.8		N+	F
7440-39-3	Barium	874	-		P
7440-41-7	Beryllium	0.70	U		P
7440-43-9	Cadmium	2.7	U		P
7440-70-2	Calcium	219000			P
7440-47-3	Chromium	3.9	U		P
7440-48-4	Cobalt	7.3	B		P
7440-50-8	Copper	36.4	-		P
7439-89-6	Iron	3910	-		P
7439-92-1	Lead	2.8	U		F
7439-95-4	Magnesium	33500	-		P
7439-96-5	Manganese	4050	-		P
7439-97-6	Mercury	0.04	U	N	AV
7440-02-0	Nickel	28.0	B		P
7440-09-7	Potassium	2520	B		P
7782-49-2	Selenium	2.2	U	WN	F
7440-22-4	Silver	2.8	U		P
7440-23-5	Sodium	98900	-	E	P
7440-28-0	Thallium	34.0	U	WN	F
7440-62-2	Vanadium	20.3	B	N	P
7440-66-6	Zinc	38.7	-		P
7440-42-8	Boron	432	-		P
7440-31-5	Tin	537	-		P

Color Before: YELLOW _____ Clarity Before: CLOUDY _____ Texture: _____

Color After: COLORLESS _____ Clarity After: CLEAR _____ Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW6X

Lab Name: AES _____ Contract: _____

Lab Code: AES _____ Case No.: _____ SAS No.: _____ SDG No.: MWN _____

Matrix (soil/water): WATER

Lab Sample ID: MW6X

Level (low/med): LOW _____

Date Received: 12/13/94

% Solids: _____ 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	69.9	B		P
7440-36-0	Antimony	50.0	U		P
7440-38-2	Arsenic	22.7		SN	F
7440-39-3	Barium	426			P
7440-41-7	Beryllium	0.70	U		P
7440-43-9	Cadmium	2.7	U		P
7440-70-2	Calcium	52400			P
7440-47-3	Chromium	6.1	B		P
7440-48-4	Cobalt	6.9	U		P
7440-50-8	Copper	2.3	U		P
7439-89-6	Iron	1870			P
7439-92-1	Lead	2.8	U		F
7439-95-4	Magnesium	6830			P
7439-96-5	Manganese	745			P
7439-97-6	Mercury	0.04	U	N	AV
7440-02-0	Nickel	21.8	B		P
7440-09-7	Potassium	2290	B		P
7782-49-2	Selenium	2.2	U	WN	F
7440-22-4	Silver	2.8	U		P
7440-23-5	Sodium	334000		E	P
7440-28-0	Thallium	34.0	U	N	F
7440-62-2	Vanadium	3.8	U	N	P
7440-66-6	Zinc	32.3			P
7440-42-8	Boron	606			P
7440-31-5	Tin	842			P

Color Before: COLORLESS

Clarity Before: CLEAR_

Texture: _____

Color After: COLORLESS

Clarity After: CLEAR_

Artifacts: _____

Comments:

09.0030

Client Sample ID	Lab Sample ID	Matrix	Date Rec'd	Analysis Date	Parameter	Result	Flag	Units
MW-1	941213 R01	GW	12/13/94	12/13/94	CLP-PH	7.7		su
				01/07/95	CLP-Eh	209		mv
				12/13/94	CLP-Turbidity	44		ntu
				12/13/94	CLP-Color	15		cpu
				01/07/95	CLP-Specific Conductance	404		umhos/cm
				12/16/94	CLP-TDS	233000		ug/l
				01/07/95	CLP-COD	90000		ug/l
				12/14/94	CLP-Biochemical Oxygen Demand	2000	U	ug/l
				01/03/95	CLP-TOC	1700		ug/l
				01/03/95	CLP-Sulfate	13200		ug/l
				12/20/94	CLP-Alkalinity	188000		ug/l
				01/07/95	CLP-Chloride	9000		ug/l
				12/20/94	CLP-Bromide	1000	U	ug/l
				01/03/95	CLP-TRN	1000	U	ug/l
				12/28/94	CLP-Ammonia-N	100	U	ug/l
				12/28/94	CLP-Nitrate	45		ug/l
				01/03/95	CLP-Phenols (CD), Total	2	U	ug/l
				12/24/94	CLP-Cyanide-T	10	U	ug/l
				12/16/94	CLP-Sulfide	100	U	ug/l
				12/13/94	CLP-Hex Chrom	20	U	ug/l
MW-2	941213 R02	GW	12/13/94	12/13/94	CLP-PH	6.1		su
				01/07/95	CLP-Eh	217		mv
				12/13/94	CLP-Turbidity	26		ntu
				12/13/94	CLP-Color	20		cpu
				01/07/95	CLP-Specific Conductance	151		umhos/cm
				12/16/94	CLP-TDS	93000		ug/l
				01/07/95	CLP-COD	38000		ug/l
				12/14/94	CLP-Biochemical Oxygen Demand	2000	U	ug/l
				01/03/95	CLP-TOC	3700		ug/l
				01/03/95	CLP-Sulfate	20800		ug/l
				12/20/94	CLP-Alkalinity	32000		ug/l
				01/07/95	CLP-Chloride	4000		ug/l
				12/20/94	CLP-Bromide	1200		ug/l
				01/03/95	CLP-TRN	1000	U	ug/l
				12/28/94	CLP-Ammonia-N	100	U	ug/l
				12/28/94	CLP-Nitrate	2000		ug/l
				01/03/95	CLP-Phenols (CD), Total	2	U	ug/l
				12/24/94	CLP-Cyanide-T	10	U	ug/l
				12/16/94	CLP-Sulfide	100	U	ug/l
				12/13/94	CLP-Hex Chrom	20	U	ug/l
MW-0X	941214 R02	GW	12/14/94	12/14/94	CLP-PH	6.9		su
				01/07/95	CLP-Eh	249		mv
				12/14/94	CLP-Turbidity	17		ntu
				12/14/94	CLP-Color	15		cpu
				01/07/95	CLP-Specific Conductance	1680		umhos/cm
				12/16/94	CLP-TDS	985000		ug/l
				01/07/95	CLP-COD	72600		ug/l
				12/14/94	CLP-Biochemical Oxygen Demand	5000		ug/l
				01/03/95	CLP-TOC	23000		ug/l
				01/03/95	CLP-Sulfate	30500		ug/l
				12/20/94	CLP-Alkalinity	592000		ug/l
				01/07/95	CLP-Chloride	19000		ug/l
				12/20/94	CLP-Bromide	2600		ug/l
				01/03/95	CLP-TRN	1690		ug/l
				12/28/94	CLP-Ammonia-N	252		ug/l
				12/28/94	CLP-Nitrate	51		ug/l
				01/03/95	CLP-Phenols (CD), Total	2	U	ug/l
				12/24/94	CLP-Cyanide-T	10	U	ug/l
				12/16/94	CLP-Sulfide	100	U	ug/l
				12/14/94	CLP-Hex Chrom	20	U	ug/l

Client Sample ID	Lab Sample ID	Matrix	Date Rec'd	Analysis Date	Parameter	Result	Flag	Units
MW-3	941214 R03	GW	12/14/94	12/14/94	CLP-PH	6.2		su
				01/07/95	CLP-Eh	264		mv
				12/14/94	CLP-Turbidity	30		ntu
				12/14/94	CLP-Color	25		cpu
				01/07/95	CLP-Specific Conductance	975		umhos/cm
				12/16/94	CLP-TDS	540000		ug/l
				01/07/95	CLP-COD	72000		ug/l
				12/14/94	CLP-Biochemical Oxygen Demand	3000		ug/l
				01/03/95	CLP-TOC	12000		ug/l
				01/03/95	CLP-Sulfate	110000		ug/l
				12/20/94	CLP-Alkalinity	352000		ug/l
				01/07/95	CLP-Chloride	40000		ug/l
				12/20/94	CLP-Bromide	1000	U	ug/l
				01/03/95	CLP-TKN	14000		ug/l
				12/28/94	CLP-Ammonia-N	1410		ug/l
				12/28/94	CLP-Nitrate	79		ug/l
				01/03/95	CLP-Phenols (CD), Total	2	U	ug/l
				12/24/94	CLP-Cyanide-T	10	U	ug/l
				12/16/94	CLP-Sulfide	1360		ug/l
				12/14/94	CLP-Hex Chrom	20	U	ug/l
MW-N	941215 S01	GW	12/15/94	12/15/94	CLP-PH	7.0		su
				01/07/95	CLP-Eh	226		mv
				12/15/94	CLP-Turbidity	41		ntu
				12/15/94	CLP-Color	30		cpu
				01/07/95	CLP-Specific Conductance	768		umhos/cm
				12/16/94	CLP-TDS	575000		ug/l
				01/07/95	CLP-COD	22000		ug/l
				12/15/94	CLP-Biochemical Oxygen Demand	2000	U	ug/l
				01/03/95	CLP-TOC	10000		ug/l
				01/03/95	CLP-Sulfate	262000		ug/l
				12/20/94	CLP-Alkalinity	170000		ug/l
				01/07/95	CLP-Chloride	9000		ug/l
				12/20/94	CLP-Bromide	1000	U	ug/l
				01/03/95	CLP-TKN	1400		ug/l
				12/28/94	CLP-Ammonia-N	100	U	ug/l
				12/28/94	CLP-Nitrate	140		ug/l
				01/03/95	CLP-Phenols (CD), Total	1	U	ug/l
				12/24/94	CLP-Cyanide-T	10	U	ug/l
				12/16/94	CLP-Sulfide	100	U	ug/l
				12/15/94	CLP-Hex Chrom	20	U	ug/l
MW-SD	941215 S02	GW	12/15/94	12/15/94	CLP-PH	6.7		su
				01/07/95	CLP-Eh	248		mv
				12/15/94	CLP-Turbidity	51		ntu
				12/15/94	CLP-Color	20		cpu
				01/07/95	CLP-Specific Conductance	1220		umhos/cm
				12/16/94	CLP-TDS	1150000		ug/l
				01/07/95	CLP-COD	66000		ug/l
				12/15/94	CLP-Biochemical Oxygen Demand	2000	U	ug/l
				01/03/95	CLP-TOC	22000		ug/l
				01/03/95	CLP-Sulfate	51900		ug/l
				12/20/94	CLP-Alkalinity	546000		ug/l
				01/07/95	CLP-Chloride	250000		ug/l
				12/20/94	CLP-Bromide	1200		ug/l
				01/03/95	CLP-TKN	1120		ug/l
				12/28/94	CLP-Ammonia-N	100	U	ug/l
				12/28/94	CLP-Nitrate	690		ug/l
				01/03/95	CLP-Phenols (CD), Total	2	U	ug/l
				12/24/94	CLP-Cyanide-T	10	U	ug/l
				12/16/94	CLP-Sulfide	100	U	ug/l
				12/15/94	CLP-Hex Chrom	20	U	ug/l

000002

Client Sample ID	Lab Sample ID	Matrix	Date Rec'd	Analysis Date	Parameter	Result	Flag	Units
MW-4	941215 S03	GW	12/15/94	12/15/94	CLP-PH	6.7		su
				01/07/95	CLP-Eh	247		mv
				12/15/94	CLP-Turbidity	34		ntu
				12/15/94	CLP-Color	10		cpu
				01/07/95	CLP-Specific Conductance	612		umhos/cm
				12/16/94	CLP-TDS	368000		ug/l
				01/07/95	CLP-COD	12400		ug/l
				12/15/94	CLP-Biochemical Oxygen Demand	2000	U	ug/l
				01/03/95	CLP-TOC	4700		ug/l
				01/03/95	CLP-Sulfate	138000		ug/l
				12/20/94	CLP-Alkalinity	116000		ug/l
				01/07/95	CLP-Chloride	43000		ug/l
				12/20/94	CLP-Bromide	1600		ug/l
				01/03/95	CLP-TRN	1000	U	ug/l
				12/28/94	CLP-Ammonia-N	100	U	ug/l
				12/28/94	CLP-Nitrate	160		ug/l
				01/03/95	CLP-Phenols (CD), Total	2	U	ug/l
				12/24/94	CLP-Cyanide-T	10	U	ug/l
				12/16/94	CLP-Sulfide	100	U	ug/l
				12/15/94	CLP-Hex Chrom	20	U	ug/l
MW-5	941215 S04	GW	12/15/94	12/15/94	CLP-PH	6.6		su
				01/07/95	CLP-Eh	267		mv
				12/15/94	CLP-Turbidity	59		ntu
				12/15/94	CLP-Color	40		cpu
				01/07/95	CLP-Specific Conductance	2200		umhos/cm
				12/16/94	CLP-TDS	1090000		ug/l
				01/07/95	CLP-COD	160000		ug/l
				12/15/94	CLP-Biochemical Oxygen Demand	11000		ug/l
				01/03/95	CLP-TOC	49000		ug/l
				01/03/95	CLP-Sulfate	46500		ug/l
				12/20/94	CLP-Alkalinity	576000		ug/l
				01/07/95	CLP-Chloride	81600		ug/l
				12/20/94	CLP-Bromide	2400		ug/l
				01/03/95	CLP-TRN	61200		ug/l
				12/28/94	CLP-Ammonia-N	6020		ug/l
				12/28/94	CLP-Nitrate	1940		ug/l
				01/03/95	CLP-Phenols (CD), Total	1	U	ug/l
				12/24/94	CLP-Cyanide-T	10	U	ug/l
				12/16/94	CLP-Sulfide	100	U	ug/l
				12/15/94	CLP-Hex Chrom	20	U	ug/l

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

000053

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

	EPA	SMC1	SMC2	SMC3	OTHER	TOT
	SAMPLE NO.	(TOL)#	(BFB)#	(DCE)#		OUT
1	VBK01	91	88	95		0
2	MW-1	104	96	97		0
3	MW-2	95	97	103		0
4	MW-6X	89	93	101		0
5	MW-4	106	104	109		0
6	MW-S	99	95	101		0
7	MSB 12/2	100	98	101		0
8	MW-4 MS	111 *	108	114		1
9	MW-4 MSD	100	100	101		0
10	MW-3	95	94	99		0
11	MW-6D	108	105	112		0
12	VBK02	107	105	109		0
13	MW-N	106	106	112		0
14						
15						
16						
17						
18						
19						
20						

QC LIMITS

SMC1 (TOL) = Toluene d-8 (88-110)

SMC2 (BFB) = Bromofluorobenzene (86-115)

SMC3 (DCE) = 1,2-Dichloroethane-d4 (76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

	EPA	S1	S2	S3	S4	S5	S6	S7	S8	TOT
	SAMPLE NO.	(NBZ)#	(FBP)#	(TPH)#	(PHL)#	(2FP)#	(TBP)#	(2CP)#	(DCB)#	OUT
1	SBLK01	60	69	119	61	52	79	60	60	0
2	SBLK02	57	63	105	52	47	69	52	48	0
3	MSB 12/18	63	70	102	53	57	82	52	62	0
4	MW-1	64	68	97	46	52	66	62	60	0
5	MW-2	57	64	86	55	53	64	52	55	0
6	MW-N	55	65	102	56	56	68	61	54	0
7	MW-6X	56	63	92	54	50	73	58	52	0
8	MW-3	53	63	90	54	53	77	60	56	0
9	MW-S	62	67	103	52	53	78	58	48	0
10	MW-4	55	61	90	49	50	79	57	49	0
11	MW-4 MS	61	73	102	55	57	83	60	63	0
12	MW-4 MSD	56	66	95	58	56	76	60	62	0
13	MW-6D	51	55	76	55	65	83	61	46	0
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QC LIMITS

S1 (NBZ) = Nitrobenzene-d5 (35-114)
 S2 (FBP) = 2-Fluorobiphenyl (43-116)
 S3 (TPH) = Terphenyl-d14 (33-141)
 S4 (PHL) = Phenol-d5 (10-110)
 S5 (2FP) = 2-Fluorophenol (21-110)
 S6 (TBP) = 2,4,6-Tribromophenol (10-123)
 S7 (2CP) = 2-Chlorophenol-d4 (33-110) (advisory)
 S8 (DCB) = 1,2-Dichlorobenzene-d4 (16-110) (advisory)

Column to be used to flag recovery values
 * Values outside of contract required QC limits
 D Surrogate diluted out

000005

2E

WATER PESTICIDE SURROGATE RECOVERY

Lab Name:AES, INC.

Contract:1

Lab Code:AES

Case No.:17000

SAS No.:

SDG No.:MW-N

GC Column(1):DB1701

ID: 0.53 (mm)

GC Column(2):DB608

ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	MW-1	120	55*	85	85			1
02	MW-2	80	22*	90	90			1
03	MW-3	55*	18*	60	55*			3
04	MW-4	75	44*	80	80			1
05	MW-4MS	110	50*	95	100			1
06	MW-4MSD	85	40*	80	80			1
07	MW-6D	85	32*	80	85			1
08	MW-6X	60	24*	75	70			1
09	MW-N	105	40*	80	80			1
10	MW-8	80	32*	65	55*			2
11	PBLK01	65	36*	70	70			1
12	PBLK02	85	50*	85	90			1
13	PMSBS1	75	46*	80	80			1
14								
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ADVISORY
QC LIMITS
(60-150)
(60-150)

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogates diluted out

000000

2E
WATER OP PESTICIDE SURROGATE RECOVERY

Lab Name: AES

Contract:

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

	EPA SAMPLE NO.	S1 (TPP)	OTHER
	=====	=====	=====
1	PBLKS1	90	
2	MW-1	99	
3	MW-2	94	
4	MW-N	104	
5	MW-6X	111	
6	MW-3	67	
7	PBLKS2	111	
8	MW-6D	153 *	
9	MW-4	111	
10	MW-S	53	
11	PMSBS1	120	
12	MW-4 MS	115	
13	MW-4 MSD	107	
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ADVISORY
QC LIMITS
(50-150)

S1 = Triphenyl Phosphate

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

000007

2E
WATER OP PESTICIDE SURROGATE RECOVERY

Lab Name: AES

Contract:

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

CONFIRMATION

	EPA SAMPLE NO.	S1 (TPP)	OTHER
	=====	=====	=====
1	PBLKS1	113	
2	MW-6X	99	
3	MW-3	107	
4	PBLKS2	129	
5	MW-6D	70	
6	MW-S	125	
7			
8			
9			
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ADVISORY
QC LIMITS
(50-150)

S1 = Triphenyl Phosphate

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

2E
WATER PKID SURROGATE RECOVERY

Lab Name: AES

Contract:

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

	EPA SAMPLE NO.	S1 (DCB)	OTHER
1	PBLKS1	145	
2	MW-1	99	
3	MW-2	89	
4	MW-N	89	
5	MW-6X	81	
6	MW-3	76	
7	PBLKS2	95	
8	MW-6D	85	
9	MW-4	90	
10	MW-S	77	
11	PMSBS1	90	
12	MW-4 MS	90	
13	MW-4 MSD	90	
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ADVISORY
QC LIMITS
(50-150)

S1 = DCB

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

2E
WATER HERBICIDE SURROGATE RECOVERY

000000

Lab Name: AES,IN

Contract:

Lab Code: AES,IN

Case No.: C17000

SAS No.:

SDG No.: MW-N

	EPA SAMPLE NO.	S1 DCPAA#	OTHER
	=====	=====	=====
1	HBLKS1	126	
2	HMSBS1	123	
3	MW-1	147	
4	MW-2	92	
5	MW-N	99	
6	MW-6X	110	
7	MW-3	162 *	
8	MW-6D	205 *	
9	MW-4	107	
10	MW-4 MS	109	
11	MW-4 MSD	109	
12	MW-S	133	
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S1 = DCPAA

ADVISORY
QC LIMITS
(50-150)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

2E
WATER HERBICIDE SURROGATE RECOVERY

000200

Lab Name: AES,IN

Contract:

Lab Code: AES,IN

Case No.: C17000

SAS No.:

SDG No.: MW-N

CONFIRMATION

	EPA SAMPLE NO.	S1 DCPAA	OTHER
	=====	=====	=====
1	HBLKS1	70	
2	MW-6X	83	
3	MW-3	77	
4	MW-6D	105	
5	MW-S	55	
6			
7			
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ADVISORY
QC LIMITS
(50-150)

S1 = DCPAA

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: C17000

SAS No.:

SDG No.: MW-N

Matrix Spike - EPA Sample No.: MW-4

COMPOUND	SPIKE	SAMPLE	MS	MS	QC
	ADDED	CONCENTRATION	CONCENTRATION	%	LIMITS
	(UG/L)	(UG/L)	(UG/L)	REC #	REC.
1,1-Dichloroethene	50.	0.	57.	114	61-145
Trichloroethene	50.	0.	54.	108	71-120
Benzene	50.	0.	56.	112	76-127
Toluene	50.	0.	55.	110	76-125
Chlorobenzene	50.	0.	55.	110	75-130

COMPOUND	SPIKE	MSD	MSD			QC LIMITS	
	ADDED	CONCENTRATION	%	%			
	(UG/L)	(UG/L)	REC #	RPD #	RPD	REC.	
1,1-Dichloroethene	50.	50.	100	13	14	61-145	
Trichloroethene	50.	49.	98	10	14	71-120	
Benzene	50.	50.	100	11 *	11	76-127	
Toluene	50.	49.	98	12	13	76-125	
Chlorobenzene	50.	49.	98	12	13	75-130	

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC Limits

RPD: 1 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS:

WATER VOLATILE MATRIX SPIKE BLANK RECOVERY

000102

Lab Name: AES,INC.

Contract:

Lab Code: AES Case No.: C17000 SAS No.: SDG No.: MW-N

Level: (low/med) LOW

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATI (UG/L)	MS CONCENTRATI (UG/L)	% REC.	LIMITS
1,1-Dichloroethene	50	0	46	92	61-145
Trichloroethene	50	0	47	94	71-120
Benzene	50	0	49	98	76-127
Toluene	50	0	49	98	76-125
Chlorobenzene	50	0	48	96	75-130

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

000203

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Matrix Spike - EPA Sample No.: MW-4

COMPOUND	SPIKE	SAMPLE	MS	MS	QC
	ADDED	CONCENTRATION	CONCENTRATION	%	LIMITS
	(UG/L)	(UG/L)	(UG/L)	REC #	REC.
Phenol	75.	0.	39.	52	12-110
2-Chlorophenol	75.	0.	38.	51	27-123
1,4-Dichlorobenzene	50.	0.	32.	64	36- 97
N-Nitroso-Di-n-prop.(1)	50.	0.	31.	62	41-116
1,2,4-Trichlorobenzene	50.	0.	35.	70	39- 98
4-Chloro-3-methylphenol	75.	0.	43.	57	23- 97
Acenaphthene	50.	0.	43.	86	46-118
4-Nitrophenol	75.	0.	58.	77	10- 80
2,4-Dinitrotoluene	50.	0.	43.	86	24- 96
Pentachlorophenol	75.	0.	64.	85	9-103
Pyrene	50.	0.	53.	106	26-127

COMPOUND	SPIKE	MSD	MSD			QC LIMITS	
	ADDED	CONCENTRATION	%	%			
	(UG/L)	(UG/L)	REC #	RPD #	RPD	REC.	
Phenol	75.	41.	55	6	42	12-110	
2-Chlorophenol	75.	40.	53	4	40	27-123	
1,4-Dichlorobenzene	50.	33.	66	3	28	36- 97	
N-Nitroso-Di-n-prop.(1)	50.	28.	56	10	38	41-116	
1,2,4-Trichlorobenzene	50.	34.	68	3	28	39- 98	
4-Chloro-3-methylphenol	75.	52.	69	19	42	23- 97	
Acenaphthene	50.	39.	78	10	31	46-118	
4-Nitrophenol	75.	55.	73	5	50	10- 80	
2,4-Dinitrotoluene	50.	37.	74	15	38	24- 96	
Pentachlorophenol	75.	60.	80	6	50	9-103	
Pyrene	50.	48.	96	10	31	26-127	

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 11 outside limits

Spike Recovery: 0 out of 22 outside limits

COMMENTS:

SEMIVOLATILE WATER MATRIX SPIKE BLANK RECOVERY

Lab Name: AES, INC

Contract:

Lab Code: AES

Case No.: C17000

SAS No.:

SDG No.: MW-N

COMPOUND	SPIKE	SAMPLE	MS	MS	QC
	ADDED (UG/L)	CONCENTRATION (UG/L)	CONCENTRATION (UG/L)	% REC #	LIMITS REC.
Phenol	75	0	44	59	12-110
2-Chlorophenol	75	0	40	53	27-123
1,4-Dichlorobenzene	50	0	30	60	36-97
N-Nitroso-Di-n-prop. (1)	50	0	34	68	41-116
1,2,4-Trichlorobenzene	50	0	31	62	39-98
4-Chloro-3-methylphenol	75	0	52	69	23-97
Acenaphthene	50	0	40	80	46-118
4-Nitrophenol	75	0	55	73	10-80
2,4-Dinitrotoluene	50	0	38	76	24-96
Pentachlorophenol	75	0	61	81	9-103
Pyrene	50	0	49	98	26-127

(1) N-Nitroso-di-n-propylamine

Values outside of QC Limits

Spike Recovery: 00 out of 11 outside limits

COMMENTS:

BE
WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

000105

Lab Name: AES, INC.

Contract: 1

Lab Code: AES

Case No.: 17000

SAS No.:

SDG No.: MW-N

Matrix Spike - EPA Sample No.:

MW-4

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	0.50	0.0	0.38	76	56-123
Heptachlor	0.50	0.0	0.40	80	40-131
Aldrin	0.50	0.0	0.40	80	40-120
Dieldrin	1.0	0.0	1.1	110	52-126
Endrin	1.0	0.0	1.1	110	56-121
4,4'-DDT	1.0	0.0	1.1	110	38-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
gamma-BHC (Lindane)	0.50	0.0	76		56-123
Heptachlor	0.50	0.0	80		40-131
Aldrin	0.50	0.0	80		40-120
Dieldrin	1.0	0.0	110		52-126
Endrin	1.0	0.0	110		56-121
4,4'-DDT	1.0	0.0	110		38-127

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits

Spike Recovery: 0 out of 12 outside limits

COMMENTS:

WATER PESTICIDE MATRIX SPIKE BLANK RECOVERY

000203

Lab Name: AES, INC

Contract: _____

Lab Code: AES Case No C17000

SAS No.: _____

SDG No. MW-N

Matrix Spike - NYSDEC Sample No PMSB1

COMPOUND	SPIKE ADDED (ug/L)	MS CONCENTRATION (ug/L)	MS & REC $\pm$	QC LIMITS REC.
gamma-BHC (Lindane)	0.50	0.30	60	56-123
Heptachlor	0.50	0.32	64	40-131
Aldrin	0.50	0.34	68	40-120
Dieldrin	1.0	0.81	81	52-126
Endrin	1.0	0.83	83	56-121
4,4' DDT	1.0	0.82	82	38-127

3E
WATER OP PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: AES

Contract:

000107

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Matrix Spike - EPA Sample No.: MW-4

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	MS CONCENTRATION (UG/L)	MS % REC #	QC LIMITS REC.
OOO-TEP	1.00	.00	.51	51	40-120
Thionazin	1.00	.00	.78	78	50-150
Phorate	1.00	.00	.77	77	50-150
Dimethoate	1.00	.00	.65	65*	0-50
Disulfoton	1.00	.00	.96	96*	48-84
Methyl Parathion	1.00	.00	.97	97	50-150
Parathion	1.00	.00	.98	98	50-150
Famphur	1.00	.00	1.09	109	50-150

COMPOUND	SPIKE ADDED (UG/L)	MSD CONCENTRATION (UG/L)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
OOO-TEP	1.00	.47	47	8	50	40-120
Thionazin	1.00	.74	74	5	50	50-150
Phorate	1.00	.71	71	7	50	50-150
Dimethoate	1.00	.66	66*	2	50	0-50
Disulfoton	1.00	.90	90*	6	50	48-84
Methyl Parathion	1.00	.92	92	6	50	50-150
Parathion	1.00	.91	91	8	50	50-150
Famphur	1.00	1.05	105	4	50	50-150

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 8 outside limits

Spike Recovery: 1 out of 16 outside limits

COMMENTS:

000108

WATER ORGANOPHOSPHORUS PESTICIDE MATRIX SPIKE BLANK RECOVERY

Lab Name: AES

Contract:

Lab Code: AES

Case No.: C17000 SAS No.: SDG No.: MW-N

EPA Sample No.: PMSBS1

Matrix: WATER

COMPOUND	SPIKE ADDED (ug/L)	MSB CONCENTRATION (ug/L)	% REC.	QC LIMITS REC.
OOO-TEP	1.00	0.720	72	40-120
THIONAZIN	1.00	0.880	88	50-150
PHORATE	1.00	0.520	52	50-150
DIMETHOATE	1.00	0.170	17	0-50
DISULFOTON	1.00	0.120	12	48-84
m-PARATHION	1.00	1.100	110	50-150
PARATHION	1.00	1.200	120	50-150
FAMPHUR	1.00	1.100	110	50-150

3E
WATER PKID MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY 990109

Lab Name: AES

Contract:

Lab Code: AES

Case No.: C17000

SAS No.:

SDG No.: MW-N

Matrix Spike - EPA Sample No.: MW-4

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	MS CONCENTRATION (UG/L)	MS % REC #	QC LIMITS REC.
PRONAMIDE	1.00	.00	.84	84	39-117
KEPONE	1.00	.01	.12	10	0-42
ISODRIN	.20	.00	.14	71	50-150

COMPOUND	SPIKE ADDED (UG/L)	MSD CONCENTRATION (UG/L)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
PRONAMIDE	1.00	.85	85	1	50	39-117
KEPONE	1.00	.11	9	11	50	0-42
ISODRIN	.20	.16	78	10	50	50-150

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 3 outside limits

Spike Recovery: 2 out of 6 outside limits

COMMENTS:

000120

WATER PKID MATRIX SPIKE BLANK RECOVERY

Lab Name: AES,INC Contract:
Lab Code: AES Case No.: C17000 SAS No.: SDG No.: MW-N
EPA Sample No.: PMSBS1 Matrix: WATER

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATI (ug/L)	MSB CONCENTRATI (ug/L)	% REC.	QC LIMITS REC.
PRONAMIDE	1.00	0	0.790	79	39-117
ISODRIN	0.20	0	0.150	75	50-150
KEPONE	1.00	0	0.130	13	0-42

3E

WATER HERBICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: AES,IN

Contract:

Lab Code: AES,IN

Case No.: C17000

SAS No.:

SDG No.: MW-N

Matrix Spike - EPA Sample No.: MW-4

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	MS CONCENTRATION (UG/L)	MS % REC #	QC LIMITS REC.
=====	=====	=====	=====	=====	=====
2,4-D _____	10.00	.00	9.84	98	50-150
SILVEX _____	10.00	.00	7.42	74	50-150
2,4,5-T _____	10.00	.00	6.39	64	50-150

COMPOUND	SPIKE ADDED (UG/L)	MSD CONCENTRATION (UG/L)	MSD % REC #	% RPD #	QC LIMITS	
=====	=====	=====	=====	=====	RPD	REC.
2,4-D _____	10.00	9.74	97	1	50	50-150
SILVEX _____	10.00	7.65	77	3	50	50-150
2,4,5-T _____	10.00	7.12	71	11	50	50-150

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 3 outside limits

Spike Recovery: 0 out of 6 outside limits

COMMENTS:

000112

WATER HERBICIDE MATRIX SPIKE BLANK RECOVERY

Lab Name: AES,INC Contract:

Lab Code: AES

SDG: MW-N

EPA Sample No.: HMSB1 Case No: C17000

Matrix: WATER

COMPOUND	SPIKE ADDED (ug/L)	MSB CONCENTRATION (ug/L)	MSB % REC.	QC LIMITS REC.
2,4-D	10.00	6.9	69	50-150
SILVEX	10.00	6.3	63	50-150
2,4,5-T	10.00	5.6	56	50-150

6
DUPLICATES

EPA SAMPLE NO.

Lab Name: AES _____

Contract: _____

MW4 D

Lab Code: AES _____

Case No.: _____

SAS No.: _____

SDG No.: MWN _____

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids for Sample: 0.0

% Solids for Duplicate: 0.0

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum	200.0	253.0890	—	284.5000	—	11.7	—	P
Antimony	—	50.0000	U	50.0000	U	—	—	P
Arsenic	—	5.3000	U	5.3000	U	—	—	F
Barium	—	86.1080	B	85.0200	B	1.3	—	P
Beryllium	—	0.8520	B	1.0220	B	18.1	—	P
Cadmium	—	2.7000	U	2.7000	U	—	—	P
Calcium	—	69815.6410	—	69670.0000	—	0.2	—	P
Chromium	—	3.9000	U	3.9000	U	—	—	P
Cobalt	—	6.9000	U	6.9000	U	—	—	P
Copper	—	2.3000	U	2.3000	U	—	—	P
Iron	—	729.5020	—	825.1000	—	12.3	—	P
Lead	3.0	3.4900	—	3.0300	—	14.1	—	F
Magnesium	5000.0	11962.6500	—	11920.0000	—	0.4	—	P
Manganese	—	1690.8090	—	1687.0000	—	0.2	—	P
Mercury	—	0.0400	U	0.0400	U	—	—	AV
Nickel	—	15.9470	B	10.7600	B	38.8	—	P
Potassium	—	3775.2810	B	4461.0000	B	16.7	—	P
Selenium	—	2.2000	U	2.2000	U	—	—	F
Silver	—	2.8000	U	2.8000	U	—	—	P
Sodium	5000.0	25288.5430	—	24970.0000	—	1.3	—	P
Thallium	—	3.8000	U	3.8000	U	—	—	F
Vanadium	—	3.8000	U	3.8000	U	—	—	P
Zinc	—	4.7560	B	2.4000	U	200.0	—	P
Boron	50.0	231.8550	—	229.8000	—	0.9	—	P
Tin	—	708.1	—	614.3	—	14.2	—	P

ADDITIONAL ENVIRONMENTAL SERVICES

5

000114

DUPLICATES

SAMPLE ID

MW-4

Lab Name: AEE INC

Contract

Lab Code: AEE

Case No: 017000

SAB No:

SDB No: MW-N

Concentration Units (UG/L or MG/KG dry weight): UG/L

Matrix: SOIL/WATER: WATER

% Solids for Sample:

% Solids for Duplicates:

ANALYTE	CONTROL LIMIT	SAMPLE		DUPLICATE		PPM		
ARSENITE	20	110000		110000		8.0		-
AMMONIA	20	100	-	100	-	1		AS
BOD	20	2000	-	2000	-			-
BROMIDE	20	1500		1100		27	+	-
COD	20	12400		10800		14		2
COLOR	20	10 cph		10 cph		1		
CHLORIDE	20	42000		44000		2.0		-
CYANIDE	20	10	U	10	U	<1		0
HEXACHROME	20	20	U	20	U	<1		0
NITRATE	20	157		153		2.6		AS
PH	20	6.7 su		6.6 su		1.8		
PHENOL	20	2	U	2	U	<1		

ADIRONDACK ENVIRONMENTAL SERVICES

5

DUPLICATES

SAMPLE ID

MW-4

Lab Name: AES INC Contract

Lab Code: AES Case No: D17000 SAS No: SDG No: MW-4

Concentration units (UG/L or MG/KG dry weight): UG/L

Matrix (SOL/WATER): WATER

% Solids for Sample:

% Solids for Duplicates:

ANALYTES	CONTROL LIMIT	SAMPLE	C	DUPLICATE	C	REC	C	W
SULFATE	20	103000		103000		1.4		C
TDS	20	103000		103000		4.3		
TKN	20	1000		1120				
TURBIDITY	20	34 ntu		34 ntu		41		
SPED COND	20	1612 umhos		1630 umhos		2.9		C
ORP	20	247 mv		253 mv		2.4		
TCC	20	4700		4800		2.1		T
SULFIDE	20	100	U	100	U	<1		C
								AS

000110

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

Lab Name: AES

Contract:

MW4 S

Lab Code: AES

Case No.:

SAS No.:

SDG No.: MWN

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids for Sample: 0.0

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

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	2043.0000	253.0890	2000.00	89.5		P
Antimony	75-125	418.0000	50.0000	500.00	83.6		P
Arsenic	75-125	1175.4000	5.3000	40.00	2938.5	N	F
Barium	75-125	1988.0000	86.1080	2000.00	95.1		P
Beryllium	75-125	50.0900	0.8520	50.00	98.5		P
Cadmium	75-125	55.0700	2.7000	50.00	110.1		P
Calcium							NR
Chromium	75-125	182.6000	3.9000	200.00	91.3		P
Cobalt	75-125	480.4000	6.9000	500.00	96.1		P
Copper	75-125	220.4000	2.3000	250.00	88.2		P
Iron	75-125	1762.0000	729.5020	1000.00	103.2		P
Lead	75-125	26.8700	3.4900	20.00	116.9		F
Magnesium							NR
Manganese	75-125	2127.0000	1690.8090	500.00	87.2		P
Mercury	75-125	2.8110	0.0400	2.00	140.6	N	AV
Nickel	75-125	491.3000	15.9470	500.00	95.1		P
Potassium							NR
Selenium	75-125	13.0000	2.2000	10.00	130.0	N	F
Silver	75-125	41.7400	2.8000	50.00	83.5		P
Sodium							NR
Thallium	75-125	25.4000	3.8000	50.00	50.8	N	F
Vanadium	75-125	343.0000	3.8000	500.00	68.6	N	P
Zinc	75-125	460.9000	4.7560	500.00	91.2		P
Boron	75-125	10170.0000	231.8550	10000.00	99.4		P
Tin	75-125	2658	708.1	2000.00	97.5		P

Comments:

U.S. EPA - CLP

5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MW4 A

Lab Name: AES _____ Contract: _____

Lab Code: AES _____ Case No.: _____ SAS No.: _____ SDG No.: MWN _____

Matrix (soil/water) : WATER _____ Level (low/med): LOW _____

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Added (SA)	%R	Q	M
Aluminum							NR
Antimony							NR
Arsenic							NR
Barium							NR
Beryllium							NR
Cadmium							NR
Calcium							NR
Chromium							NR
Cobalt							NR
Copper							
Iron							NR
Lead							NR
Magnesium							NR
Manganese							NR
Mercury							NR
Nickel							NR
Potassium							NR
Selenium							NR
Silver							NR
Sodium							NR
Thallium							NR
Vanadium		1063.00	3.80	U 1000.0	106.3		P
Zinc							NR
Boron							NR
Tin							

Comments:

SPIKE SAMPLE RECOVERY

SAMPLE ID

MW-4

Lab Name: AES INC

Contract

Lab Code: AES

Case No: C17000

SAS No:

EDS No: MW-4

Concentration Units (UG/L or MG/KG dry weight): UG/L

% SOLIDS

Matrix (SOIL/WATER): WATER

Level (LOW/MED/HI)

ANALYTES	CONTROL LIMIT UG	SPIKED SAMPLE RECOVERY UGER		SAMPLE RESULT UGER		SPIKE ADDED UG	SP	D	A
ALKALINITY	75-125	224000		11600		100000	100		0
AMMONIA	75-125	990		100		1000	99		AS
BROMIDE	75-125	6800		1500		5000	104		0
CEC	75-125	41300		12400		20000	144	+	0
CHLORIDE	75-125	76000		38700		50000	75		0
CYANIDE	75-125	75		10		100	75		0
HEX CHROM	75-125	150		20		200	95		0
NITRATE	75-125	1205		157		1000	105		AS
PHENOL	75-125	55		2		50	91		0
SULFATE	75-125	241000		135000		100000	103		0
TKN	75-125	19800		1000		20000	98		0
TDC	75-125	45000		4700		40000	101		0

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK01

000119

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Lab File ID: 08360

Lab Sample ID: VBLK360

Date Analyzed: 12/21/94

Time Analyzed: 11:03

GC Column: RTX502.2 ID: .25 (mm)

Heated Purge: (Y/N) N

Instrument ID: H5970 D

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
1	MW-1	MW-1	D2956	11:36
2	MW-2	MW-2	D2957	12:08
3	MW-6X	MW-6X	D2958	12:40
4	MW-4	MW-4	D2962	14:48
5	MW-S	MW-S	D2963	15:19
6	MSB 12/21	MSB 12/21/94	D2964	15:51
7	MW-4 MS	MW-4 MS	D2965	16:23
8	MW-4 MSD	MW-4 MSD	D2966	16:55
9	MW-3	MW-3	D2967	17:27
10	MW-6D	MW-6D	D2969	18:30
11				
12				
13				
14				
15				

COMMENTS:

page 1 of 1

FORM IV VOA

3/90

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

000120

Lab Name: AES, Inc. Contract:
Lab Code: AES Case No.: C17000 SAS No.: SDG No.: MW-N
Matrix: (soil/water) WATER Lab Sample ID: VBLK360
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: DB360
Level: (low/med) LOW Date Received: 00/00/00
% Moisture: not dec. Date Analyzed: 12/21/94
GC Column: RTX502.2 ID: .25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
74-97-5	Bromochloromethane	10.	U
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-69-4	Trichlorofluoromethane	10.	U
75-15-0	Carbon Disulfide	9.	J
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
67-66-3	Chloroform	2.	J
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
591-78-6	2-Hexanone	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	Xylenes (total)	10.	U
74-88-4	Iodomethane	10.	U
107-13-1	Acrylonitrile	25.	U
74-95-3	Dibromomethane	10.	U
630-20-6	1,1,1,2-tetrachloroethane	10.	U
110-57-6	1,4-Dichloro-2-Butene	10.	U
96-18-4	1,2,3-Trichloropropane	10.	U
96-12-8	1,2-dibromo-3-chloro-Propane	10.	U
156-60-5	1,2-Dichloroethene-trans	10.	U
156-59-2	1,2-Dichloroethene-cis	10.	U
106-93-4	Ethylene Dibromide	10.	U

1A
ORGANICS ANALYSIS DATA SHEET

EPA Sample No. **000131**

Lab Name: AES INC

Contract: _____

VBK01

Lab Code: AES

Case No: C17000

SAS No. ____ SDG No.: MW-N

Matrix (SOIL/WATER) : WATER

Lab Sample ID: VBK360

Sample wt/vol: 5.0 ML

File ID: DB360

Level: (LOW/MED) LOW

Date Received: 00/00/00

Date Analyzed: 12/21/94

% Moisture: not dec. ____ dec. ____

Dil. Factor: 1.0

Column: (PACK/CAP) : CAP

Concentration Units:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	10	U
75-05-8	Acetonitrile	25	U
107-02-8	Acrolein	100	U
107-12-0	Propionitrile	25	U
107-05-1	Allyl Chloride	5	U
126-98-7	Methacrylonitrile	10	U
78-83-1	Isobutyl alcohol	100	U
126-99-8	Chloroprene	10	U
80-62-6	Methyl Methacrylate	10	U
594-20-7	2,2-Dichloropropane	10	U
563-58-6	1,1-Dichloropropene	10	U
142-28-9	1,3-Dichloropropane	10	U

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

000122

Lab Name: AES, Inc.

Contract:

VBK02

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Lab File ID: DB361

Lab Sample ID: VBK361

Date Analyzed: 12/22/94

Time Analyzed: 11:43

GC Column: RTX502.2 ID: .25 (mm)

Heated Purge: (Y/N) N

Instrument ID: H5970 D

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
1	MW-N	MW-N	D2976	13:14
2				
3				
4				
5				
6				
7				
8				
9				
10				

COMMENTS:

VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK02

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: VBLK361

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: DB361

Level: (low/med) LOW

Date Received: 00/00/00

% Moisture: not dec. _____

Date Analyzed: 12/22/94

GC Column: RTX502.2 ID: .25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

74-97-5-----	Bromochloromethane	10.	U
74-87-3-----	Chloromethane	10.	U
74-83-9-----	Bromomethane	10.	U
75-01-4-----	Vinyl Chloride	10.	U
75-00-3-----	Chloroethane	10.	U
75-09-2-----	Methylene Chloride	10.	U
67-64-1-----	Acetone	10.	U
75-69-4-----	Trichlorofluoromethane	10.	U
75-15-0-----	Carbon Disulfide	7.	J
75-35-4-----	1,1-Dichloroethene	10.	U
75-34-3-----	1,1-Dichloroethane	10.	U
67-66-3-----	Chloroform	10.	U
107-06-2-----	1,2-Dichloroethane	10.	U
78-93-3-----	2-Butanone	10.	U
71-55-6-----	1,1,1-Trichloroethane	10.	U
56-23-5-----	Carbon Tetrachloride	10.	U
108-05-4-----	Vinyl Acetate	10.	U
75-27-4-----	Bromodichloromethane	10.	U
78-87-5-----	1,2-Dichloropropane	10.	U
10061-01-5-----	cis-1,3-Dichloropropene	10.	U
79-01-6-----	Trichloroethene	10.	U
124-48-1-----	Dibromochloromethane	10.	U
79-00-5-----	1,1,2-Trichloroethane	10.	U
71-43-2-----	Benzene	10.	U
10061-02-6-----	trans-1,3-Dichloropropene	10.	U
75-25-2-----	Bromoform	10.	U
591-78-6-----	2-Hexanone	10.	U
108-10-1-----	4-Methyl-2-Pentanone	10.	U
127-18-4-----	Tetrachloroethene	10.	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10.	U
108-88-3-----	Toluene	10.	U
108-90-7-----	Chlorobenzene	10.	U
100-41-4-----	Ethylbenzene	10.	U
100-42-5-----	Styrene	10.	U
1330-20-7-----	Xylenes (total)	10.	U
74-88-4-----	Iodomethane	10.	U
107-13-1-----	Acrylonitrile	25.	U
74-95-3-----	Dibromomethane	10.	U
630-20-6-----	1,1,1,2-tetrachloroethane	10.	U
110-57-6-----	1,4-Dichloro-2-Butene	10.	U
96-18-4-----	1,2,3-Trichloropropane	10.	U
96-12-8-----	1,2-dibromo-3-chloro-Propane	10.	U
156-60-5-----	1,2-Dichloroethene-trans	10.	U
156-59-2-----	1,2-Dichloroethene-cis	10.	U
106-93-4-----	Ethylene Dibromide	10.	U

1A
ORGANICS ANALYSIS DATA SHEET

EPA Sample No. 000124

Lab Name: AES INC

Contract: _____

VBLK02

Lab Code: AES

Case No: C17000

SAS No. _____ SDG No.:

MW-N

Matrix (SOIL/WATER) : WATER

Lab Sample ID: VBLK361

Sample wt/vol: 5.0 ML

File ID: DB361

Level: (LOW/MED) LOW

Date Received: 00/00/00

Date Analyzed: 12/22/94

% Moisture: not dec. _____ dec. _____

Dil. Factor: 1.0

Column: (PACK/CAP) : CAP

Concentration Units:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	10	U
75-05-8	Acetonitrile	25	U
107-02-8	Acrolein	100	U
107-12-0	Propionitrile	25	U
107-05-1	Allyl Chloride	5	U
126-98-7	Methacrylonitrile	10	U
78-83-1	Isobutyl alcohol	100	U
126-99-8	Chloroprene	10	U
80-62-6	Methyl Methacrylate	10	U
594-20-7	2,2-Dichloropropane	10	U
563-58-6	1,1-Dichloropropene	10	U
142-28-9	1,3-Dichloropropane	10	U

SEMIVOLATILE METHOD BLANK SUMMARY

SBLKD1

Lab Name: AES, Inc.

Contract:

Code: AES

Case No.: C17000

SAS No.:

SDG No.: MW-N

Lab File ID: B2138

Lab Sample ID: WBLK 12/15/94

Instrument ID: H5970 B

Date Extracted: 12/15/94

Matrix: (soil/water) WATER

Date Analyzed: 12/23/94

Level: (low/med) LOW

Time Analyzed: 11:32

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
1	MW-1	MW-1	B2142	12/23/94
2	MW-2	MW-2	B2143	12/23/94
3	MW-N	MW-N	B2144	12/23/94
4	MW-6X	MW-6X	B2145	12/23/94
5	MW-3	MW-3	B2146	12/23/94
6				
7				
8				
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30				

COMMENTS:

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000126

SBLKD1

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: C17000

SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: WBLK 12/15/94

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: 82138

Level: (low/med) LOW

Date Received: 00/00/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 12/15/94

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 12/23/94

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

108-95-2-----	Phenol	10.	U
111-44-4-----	bis(-2-Chloroethyl)Ether	10.	U
95-57-8-----	2-Chlorophenol	10.	U
541-73-1-----	1,3-Dichlorobenzene	10.	U
106-46-7-----	1,4-Dichlorobenzene	10.	U
95-50-1-----	1,2-Dichlorobenzene	10.	U
95-48-7-----	2-Methylphenol	10.	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10.	U
106-44-5-----	4-Methylphenol	10.	U
621-64-7-----	N-Nitroso-Di-n-propylamine	10.	U
67-72-1-----	Hexachloroethane	10.	U
98-95-3-----	Nitrobenzene	10.	U
78-59-1-----	Isophorone	10.	U
88-75-5-----	2-Nitrophenol	10.	U
105-67-9-----	2,4-Dimethylphenol	10.	U
111-91-1-----	bis(-2-Chloroethoxy)Methane	10.	U
120-83-2-----	2,4-Dichlorophenol	10.	U
120-82-1-----	1,2,4-Trichlorobenzene	10.	U
91-20-3-----	Naphthalene	10.	U
106-47-8-----	4-Chloroaniline	10.	U
87-68-3-----	Hexachlorobutadiene	10.	U
59-50-7-----	4-Chloro-3-methylphenol	10.	U
91-57-6-----	2-Methylnaphthalene	10.	U
77-47-4-----	Hexachlorocyclopentadiene	10.	U
88-06-2-----	2,4,6-Trichlorophenol	10.	U
95-95-4-----	2,4,5-Trichlorophenol	25.	U
91-58-7-----	2-Chloronaphthalene	10.	U
88-74-4-----	2-Nitroaniline	25.	U
131-11-3-----	Dimethyl Phthalate	10.	U
208-96-8-----	Acenaphthylene	10.	U
606-20-2-----	2,6-Dinitrotoluene	10.	U
99-09-2-----	3-Nitroaniline	25.	U
83-32-9-----	Acenaphthene	10.	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKD1

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: WBLK 12/15/94

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: B2138

Level: (low/med) LOW

Date Received: 00/00/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 12/15/94

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 12/23/94

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

51-28-5-----	2,4-Dinitrophenol _____	25.	U
100-02-7-----	4-Nitrophenol _____	25.	U
132-64-9-----	Dibenzofuran _____	10.	U
121-14-2-----	2,4-Dinitrotoluene _____	10.	U
84-66-2-----	Diethylphthalate _____	10.	U
7005-72-3-----	4-Chlorophenyl-phenylether _____	10.	U
86-73-7-----	Fluorene _____	10.	U
100-01-6-----	4-Nitroaniline _____	25.	U
534-52-1-----	4,6-Dinitro-2-methylphenol _____	25.	U
86-30-6-----	N-Nitrosodiphenylamine _____	10.	U
101-55-3-----	4-Bromophenyl-phenylether _____	10.	U
118-74-1-----	Hexachlorobenzene _____	10.	U
87-86-5-----	Pentachlorophenol _____	25.	U
85-01-8-----	Phenanthrene _____	10.	U
120-12-7-----	Anthracene _____	10.	U
86-74-8-----	Carbazole _____	10.	U
84-74-2-----	Di-n-Butylphthalate _____	10.	U
206-44-0-----	Fluoranthene _____	10.	U
129-00-0-----	Pyrene _____	10.	U
85-68-7-----	Butylbenzylphthalate _____	10.	U
91-94-1-----	3,3'-Dichlorobenzidine _____	10.	U
56-55-3-----	Benzo(a)Anthracene _____	10.	U
218-01-9-----	Chrysene _____	10.	U
117-81-7-----	Bis(2-Ethylhexyl)Phthalate _____	2.	J
117-84-0-----	Di-n-octyl phthalate _____	10.	U
205-99-2-----	Benzo(b)fluoranthene _____	10.	U
207-08-9-----	Benzo(k)Fluoranthene _____	10.	U
50-32-8-----	Benzo(a)Pyrene _____	10.	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene _____	10.	U
53-70-3-----	Dibenzo(a,h)Anthracene _____	10.	U
191-24-2-----	Benzo(g,h,i)Perylene _____	10.	U

(1) - Cannot be separated from diphenylamine

1A
ORGANICS ANALYSIS DATA SHEET

Sample No.

SBLKJ:

000107

Lab Name: AES,INC

Contract: _____

Lab Code: AES

Case No:

C17000

SAS No. _____

SDG No.:

MW-N

Matrix (SOIL/WATER) : WATER

Lab Sample ID: WBLK 12/15

Sample wt/vol: 1000 ML

File ID: B2138

Level: (LOW/MED) LOW

Date Received: 00/00/00

% Moisture: dec. _____

Date Analyzed: 12/23/94

Extraction: (Sep/Cont/Sonc):

Cont

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

Concentration Units: UG/L

CAS NO.	COMPOUND		Q
67-75-9	N-Nitrosodimethylamine	10	U
97-63-2	Ethyl Methacrylate	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl Methanesulfonate	10	U
66-27-3	Methyl Methanesulfonate	50	U
98-86-2	Acetophenone	10	U
108-39-4	m-Cresol	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
95-53-4	o-Toluidine	10	U
100-75-4	N-Nitrosopiperidine	10	U
87-65-0	2,6-Dichlorophenol	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitroso-di-n-butylamine	10	U
106-50-3	p-Phenylenediamine	80	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
120-58-1	Isosafrole	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	m-Dinitrobenzene	50	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	50	U
99-55-8	5-Nitrotoluidine	50	U
99-35-4	1,3,5-Trinitrobenzene	50	U
62-44-2	Phenacetin	50	U
92-67-1	4-Aminobiphenyl	50	U
82-68-8	Pentachloronitrobenzene	10	U
56-57-5	4-Nitroquinoline-1-oxide	80	U
91-80-5	Methapyrilene	10	U
60-11-7	p-(Dimethylamine)Azobenzene	50	U
510-15-6	Chlorobenzilate	10	U
119-93-7	3,3'-Dimethylbenzidine	50	U
53-96-3	2-Acetylaminofluorene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
56-49-5	3-Methylcholanthrene	10	U
122-39-4	Diphenylamine	10	U

48
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

000128

SBLK02

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Lab File ID: B2140

Lab Sample ID: WBLK 12/18

Instrument ID: H5970 B

Date Extracted: 12/18/94

Matrix: (soil/water) WATER

Date Analyzed: 12/23/94

Level: (low/med) LOW

Time Analyzed: 13:08

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
1	MSB 12/1	MSB 12/18/94	B2141	12/23/94
2	MW-S	MW-S	B2147	12/23/94
3	MW-4	MW-4	B2148	12/23/94
4	MW-4 MS	MW-4 MS	B2149	12/23/94
5	MW-4 MSD	MW-4 MSD	B2150	12/23/94
6	MW-6D	MW-6D	80059	01/06/95
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COMMENTS:

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000129

SBLK02

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: C17000

SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: WBLK 12/18

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: B2140

Level: (low/med) LOW

Date Received: 00/00/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 12/18/94

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 12/23/94

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

108-95-2-----	Phenol	10.	U
111-44-4-----	bis(-2-Chloroethyl)Ether	10.	U
95-57-8-----	2-Chlorophenol	10.	U
541-73-1-----	1,3-Dichlorobenzene	10.	U
106-46-7-----	1,4-Dichlorobenzene	10.	U
95-50-1-----	1,2-Dichlorobenzene	10.	U
95-48-7-----	2-Methylphenol	10.	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10.	U
106-44-5-----	4-Methylphenol	10.	U
621-64-7-----	N-Nitroso-Di-n-propylamine	10.	U
67-72-1-----	Hexachloroethane	10.	U
98-95-3-----	Nitrobenzene	10.	U
78-59-1-----	Isophorone	10.	U
88-75-5-----	2-Nitrophenol	10.	U
105-67-9-----	2,4-Dimethylphenol	10.	U
111-91-1-----	bis(-2-Chloroethoxy)Methane	10.	U
120-83-2-----	2,4-Dichlorophenol	10.	U
120-82-1-----	1,2,4-Trichlorobenzene	10.	U
91-20-3-----	Naphthalene	10.	U
106-47-8-----	4-Chloroaniline	10.	U
87-68-3-----	Hexachlorobutadiene	10.	U
59-50-7-----	4-Chloro-3-methylphenol	10.	U
91-57-6-----	2-Methylnaphthalene	10.	U
77-47-4-----	Hexachlorocyclopentadiene	10.	U
88-06-2-----	2,4,6-Trichlorophenol	10.	U
95-95-4-----	2,4,5-Trichlorophenol	25.	U
91-58-7-----	2-Chloronaphthalene	10.	U
88-74-4-----	2-Nitroaniline	25.	U
131-11-3-----	Dimethyl Phthalate	10.	U
208-96-8-----	Acenaphthylene	10.	U
606-20-2-----	2,6-Dinitrotoluene	10.	U
99-09-2-----	3-Nitroaniline	25.	U
83-32-9-----	Acenaphthene	10.	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1000230

SBLK02

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: WBLK 12/18

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: B2140

Level: (low/med) LOW

Date Received: 00/00/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 12/18/94

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 12/23/94

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

51-28-5-----	2,4-Dinitrophenol _____	25.	U
100-02-7-----	4-Nitrophenol _____	25.	U
132-64-9-----	Dibenzofuran _____	10.	U
121-14-2-----	2,4-Dinitrotoluene _____	10.	U
84-66-2-----	Diethylphthalate _____	10.	U
7005-72-3-----	4-Chlorophenyl-phenylether _____	10.	U
86-73-7-----	Fluorene _____	10.	U
100-01-6-----	4-Nitroaniline _____	25.	U
534-52-1-----	4,6-Dinitro-2-methylphenol _____	25.	U
86-30-6-----	N-Nitrosodiphenylamine _____	10.	U
101-55-3-----	4-Bromophenyl-phenylether _____	10.	U
118-74-1-----	Hexachlorobenzene _____	10.	U
87-86-5-----	Pentachlorophenol _____	25.	U
85-01-8-----	Phenanthrene _____	10.	U
120-12-7-----	Anthracene _____	10.	U
86-74-8-----	Carbazole _____	10.	U
84-74-2-----	Di-n-Butylphthalate _____	10.	U
206-44-0-----	Fluoranthene _____	10.	U
129-00-0-----	Pyrene _____	10.	U
85-68-7-----	Butylbenzylphthalate _____	10.	U
91-94-1-----	3,3'-Dichlorobenzidine _____	10.	U
56-55-3-----	Benzo(a)Anthracene _____	10.	U
218-01-9-----	Chrysene _____	10.	U
117-81-7-----	Bis(2-Ethylhexyl)Phthalate _____	4.	J
117-84-0-----	Di-n-octyl phthalate _____	10.	U
205-99-2-----	Benzo(b)fluoranthene _____	10.	U
207-08-9-----	Benzo(k)Fluoranthene _____	10.	U
50-32-8-----	Benzo(a)Pyrene _____	10.	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene _____	10.	U
53-70-3-----	Dibenzo(a,h)Anthracene _____	10.	U
191-24-2-----	Benzo(g,h,i)Perylene _____	10.	U

(1) - Cannot be separated from diphenylamine

Lab Name: AES,INC

Contract: _____

Lab Code: AES

Case No: C17000

SAS No. _____

SDG No.: MW-N

000131

Matrix (SOIL/WATER) : WATER

Lab Sample ID: WBLK 12/18

Sample wt/vol: 1000 ML

File ID: B2140

Level: (LOW/MED) LOW

Date Received: 00/00/00

% Moisture: dec. _____

Date Analyzed: 12/18/94

Extraction: (Sept/Cont/Sonc):

Cont

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

Concentration Units: UG/L

CAS NO.	COMPOUND		Q
67-75-9	N-Nitrosodimethylamine	10	U
97-63-2	Ethyl Methacrylate	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl Methanesulfonate	10	U
66-27-3	Methyl Methanesulfonate	50	U
98-86-2	Acetophenone	10	U
108-39-4	m-Cresol	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
95-53-4	o-Toluidine	10	U
100-75-4	N-Nitrosopiperidine	10	U
87-65-0	2,6-Dichlorophenol	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitroso-di-n-butylamine	10	U
106-50-3	p-Phenylenediamine	80	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
120-58-1	Isosafrole	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	m-Dinitrobenzene	50	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	50	U
99-55-8	5-Nitrotoluidine	50	U
99-35-4	1,3,5-Trinitrobenzene	50	U
62-44-2	Phenacetin	50	U
92-67-1	4-Aminobiphenyl	50	U
82-68-8	Pentachloronitrobenzene	10	U
56-57-5	4-Nitroquinoline-1-oxide	80	U
91-80-5	Methapyrilene	10	U
60-11-7	p-(Dimethylamine)Azobenzene	50	U
510-15-6	Chlorobenzilate	10	U
119-93-7	3,3'-Dimethylbenzidine	50	U
53-96-3	2-Acetylaminofluorene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
56-49-5	3-Methylcholanthrene	10	U
122-39-4	Diphenylamine	10	U

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

000132
PBLKS1

Lab Name:AES, INC.

Contract:1

Lab Code:AES

Case No.:17000

SAS No.:

SDG No.:MW-N

Lab Sample ID:PBLKS1

Lab File ID:

Matrix:(soil/water) WATER

Extraction:(SepF/Cont/Sonc)SEPF

Sulfur Cleanup: (Y/N) Y

Date Extracted: 12/14/94

Date Analyzed (1): 1/20/95

Date Analyzed (2): 1/20/95

Time Analyzed (1):0520

Time Analyzed (2):0520

Instrument ID (1):VAR1A

Instrument ID (2):VAR1A

GC Column (1):DB1701

ID: 0.53(mm)

GC Column (2):DB608

ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	MW-1	MW-1	1/20/95	1/20/95
02	MW-2	MW-2	1/20/95	1/20/95
03	MW-3	MW-3	1/20/95	1/20/95
04	MW-6N	MW-6N	1/20/95	1/20/95
05	MW-N	MW-N	1/20/95	1/20/95
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COMMENTS:

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

000133

NYSDEC Sample No.

Lab Name: AES INC

Contract: 1

PBLKS1

Lab Code: AES

Case No: C17000 SAS No. _____ SDG No. MW-N

Matrix (SOIL/WATER): WATER

Lab Sample ID: PBLKS1

Sample wt/vol: 1000 (g/mL) ML

File ID

% Moisture: _____ Decante (Y/N) _____

Date Received: / /

Extraction: (Sep/Cont/Sonc): SEPF

Date Extracted: 12/14/94

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 1/20/95

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

Sulfur cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/KG/L)	UNITS:	Q
319-84-6	alpha-BHC	0.05	U	
319-85-7	beta-BHC	0.05	U	
319-86-8	delta-BHC	0.05	U	
58-89-9	gamma-BHC (Lindane)	0.05	U	
76-44-8	Heptachlor	0.05	U	
309-00-2	Aldrin	0.05	U	
1024-57-3	Heptachlor epoxide	0.05	U	
959-98-8	Endosulfan I	0.05	U	
60-57-1	Dieldrin	0.05	U	
72-55-9	4,4'-DDE	0.05	U	
72-20-8	Endrin	0.05	U	
33213-65-9	Endosulfan II	0.05	U	
72-54-8	4,4'-DDD	0.05	U	
1031-27-8	Endosulfan Sulfate	0.05	U	
50-29-3	4,4'-DDT	0.05	U	
72-43-5	Methoxychlor	0.05	U	
53494-70-5	Endrin Ketone	0.05	U	
7421-36-3	Endrin aldehyde	0.05	U	
5103-71-3	alpha-Chlordane	0.05	U	
5103-74-2	gamma Chlordane	0.05	U	
8001-35-2	Toxaphene	0.05	U	
12674-11-2	Aroclor-1015	1.0	U	
11104-28-2	Aroclor-1221	0.05	U	
11141-16-5	Aroclor-1232	1.0	U	
53469-21-9	Aroclor-1242	1.0	U	
12672-29-6	Aroclor-1248	1.0	U	
11097-69-1	Aroclor-1254	1.0	U	
11096-82-5	Aroclor-1260	1.0	U	

4C
PESTICIDE METHOD BLANK SUMMARY

PBLKS2

Lab Name:AES, INC.

Contract:1

Lab Code:AES

Case No.:17000

SAS No.:

SDG No.:MW-N

Lab Sample ID:PBLKS2

Lab File ID:

Matrix:(soil/water) WATER

Extraction:(SepF/Cont/Sonc)SEPF

Sulfur Cleanup: (Y/N) Y

Date Extracted: 12/19/94

Date Analyzed (1): 1/20/95

Date Analyzed (2): 1/20/95

Time Analyzed (1):0911

Time Analyzed (2):0911

Instrument ID (1):VAR1A

Instrument ID (2):VAR1A

GC Column (1):DB1701

ID: 0.53(mm)

GC Column (2):DB608

ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	MW-4	MW-4	1/20/95	1/20/95
02	MW-4MS	MW-4MS	1/20/95	1/20/95
03	MW-4MSD	MW-4MSD	1/20/95	1/20/95
04	MW-6D	MW-6D	1/20/95	1/20/95
05	MW-8	MW-8	1/20/95	1/20/95
06	PMSEB1	PMSEB1	1/20/95	1/20/95
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COMMENTS:

000135

ID
PESTICIDE ORGANICS ANALYSIS DATA SHEET

NYSDEC Sample No.

Lab Name: AES INC

Contract: 1

PBLKS2

Lab Code: AES

Case No: C17000 SAS No. _____ SDG No. MW-N

Matrix (SOIL/WATER):

WATER

Lab Sample ID: PBLKS2

Sample wt/vol: 1000 (g/mL) ML

File ID

% Moisture: _____ Decants (Y/N) _____

Date Received: / /

Extractions: (Sepf/Cont/Sonc): SEPF

Date Extracted: 12/19/94

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 1/20/95

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

Sulfur cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/K UG/L)	UNITS:	Q
319-84-6	alpha-BHC	0.05	U	
319-85-7	beta-BHC	0.05	U	
319-86-8	delta-BHC	0.05	U	
58-89-9	gamma-BHC (Lindane)	0.05	U	
76-44-8	Heptachlor	0.05	U	
309-00-2	Aldrin	0.05	U	
1024-57-3	Heptachlor epoxide	0.05	U	
959-98-2	Endosulfan I	0.05	U	
60-57-1	Dieldrin	0.05	U	
72-55-9	4,4'-DDE	0.05	U	
72-20-8	Endrin	0.05	U	
33213-65-9	Endosulfan II	0.05	U	
72-54-8	4,4'-DDD	0.05	U	
1031-07-2	Endosulfan Sulfate	0.05	U	
50-29-3	4,4'-DDT	0.05	U	
72-43-5	Methoxychlor	0.05	U	
53494-70-5	Endrin Ketone	0.05	U	
7421-36-3	Endrin aldehyde	0.05	U	
5103-71-9	alpha-Chlordane	0.05	U	
5103-74-2	gamma Chlordane	0.05	U	
8001-35-2	Toxaphene	5.0	U	
12674-11-2	Aroclor-1016	1.0	U	
11104-28-2	Aroclor-1221	1.0	U	
11141-16-5	Aroclor-1232	1.0	U	
53469-21-9	Aroclor-1242	1.0	U	
12672-29-6	Aroclor-1248	1.0	U	
11097-69-1	Aroclor-1254	1.0	U	
11096-82-5	Aroclor-1260	1.0	U	

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: AES INC

Contract: _____

Lab Code: AES

Case No: C17000 SAS No. _____ SDG No. CHA-1

Matrix (SOIL/WATER): WATER

Lab Sample ID: PIBLK01

Sample wt/vol: (g/mL)

File ID PIBLK01

% Moisture: _____ Decante (Y/N) _____

Date Received:

Extraction: (Sep/Cont/Sonc):

Date Extracted:

Concentrated Extract Volume: _____ (uL)

Date Analyzed: 1/20/95

Injection Volume: 1.0 _____ (uL)

Dilution Factor:

GPC Cleanup: (Y/N)

pH:

Sulfur camp: (Y/N) _____

CAS NO.	COMPOUND	CONCENTRATION	UNITS:	Q
		(ug/L or ug/K UG/L		
319-84-6	alpha-BHC	0.05	U	
319-85-7	beta-BHC	0.05	U	
319-86-8	delta-BHC	0.05	U	
58-89-9	gamma-BHC (Lindane)	0.05	U	
76-44-8	Heptachlor	0.05	U	
309-00-3	Aldrin	0.05	U	
1024-57-3	Heptachlor epoxide	0.05	U	
959-98-8	Endosulfan I	0.05	U	
60-57-1	Dieldrin	0.05	U	
72-55-9	4,4'-DDE	0.05	U	
72-20-8	Endrin	0.05	U	
33213-65-9	Endosulfan II	0.05	U	
72-54-8	4,4'-DDD	0.05	U	
1031-07-8	Endosulfan Sulfate	0.05	U	
50-29-3	4,4'-DDT	0.05	U	
72-43-5	Methoxychlor	0.05	U	
53494-70-5	Endrin Ketone	0.05	U	
7421-36-3	Endrin aldehyde	0.05	U	
5103-71-9	alpha-Chlordane	0.05	U	
5103-74-2	gamma Chlordane	0.05	U	
8001-35-2	Toxaphene	5.0	U	
12674-11-2	Aroclor-1016	1.0	U	
11104-28-2	Aroclor-1221	1.0	U	
11141-16-5	Aroclor-1232	1.0	U	
53469-21-9	Aroclor-1242	1.0	U	
12672-29-6	Aroclor-1248	1.0	U	
11097-69-1	Aroclor-1254	1.0	U	
11096-82-5	Aroclor-1260	1.0	U	

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

000157

Lab Name: AES INC

Contract: _____

Lab Code: AES

Case No:

C17000

SAS No. _____

SDG No.

CHA-1

Matrix (SOIL/WATER):

WATER

Lab Sample ID:

PIELK02

Sample wt/vol:

(g/mL)

File ID PIELK02

% Moisture: _____

Decante (Y/N) _____

Date Received:

Extraction: (Sepi/Cont/Sonc):

Date Extracted:

Concentrated Extract Volume: _____ (uL)

Date Analyzed: 1/20/95

Injection Volume: 1.0 _____ (uL)

Dilution Factor:

GPC Cleanup: (Y/N)

pH:

Sulfur cleanup: (Y/N) _____

CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/K UG/L	UNITS:	Q
319-84-6	alpha-BHC	0.15	U	
319-85-7	beta-BHC	0.15	U	
319-86-8	delta-BHC	0.15	U	
58-89-9	gamma-BHC (Lindane)	0.15	U	
76-44-8	Heptachlor	0.15	U	
309-00-2	Aldrin	0.15	U	
1024-57-3	Heptachlor epoxide	0.15	U	
959-98-8	Endosulfan I	0.15	U	
60-57-1	Dieldrin	0.15	U	
72-55-9	4,4'-DDE	0.15	U	
72-20-8	Endrin	0.15	U	
33213-65-9	Endosulfan II	0.15	U	
72-54-8	4,4'-DDD	0.15	U	
1031-57-8	Endosulfan Sulfate	0.15	U	
50-29-3	4,4'-DDT	0.15	U	
72-43-5	Methoxychlor	0.15	U	
53494-70-5	Endrin Ketone	0.15	U	
7421-36-3	Endrin aldehyde	0.15	U	
5103-71-9	alpha-Chlordane	0.15	U	
5103-74-2	gamma Chlordane	0.15	U	
8001-35-2	Toxaphene	0.1	U	
12674-11-2	Aroclor-1016	1.0	U	
11104-28-2	Aroclor-1221	1.0	U	
11141-16-5	Aroclor-1232	1.0	U	
53469-21-9	Aroclor-1242	1.0	U	
12672-29-6	Aroclor-1248	1.0	U	
11097-69-1	Aroclor-1254	1.0	U	
11096-82-5	Aroclor-1260	1.0	U	

4C

OP PESTICIDE METHOD BLANK SUMMARY

Lab Name: AES

Contract:

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Lab Sample ID: PBLKS1

Lab File ID:

Matrix: (soil/water) WATER

Level:(low/med) LOW

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed (1): 12/29/94

Date Analyzed (2): 1/10/95

Time Analyzed (1): 10:42

Time Analyzed (2): 14:59

Instrument ID (1): VAR3A

Instrument ID (2): VAR3A

GC Column ID (1): DB5

GC Column ID (2): DB608

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO. =====	LAB SAMPLE ID =====	DATE ANALYZED 1 =====	DATE ANALYZED 2 =====
1	MW-1	MW-1	12/29/94	
2	MW-2	MW-2	12/29/94	
3	MW-N	MW-N	12/29/94	
4	MW-6X	MW-6X	12/29/94	1/10/95
5	MW-3	MW-3	12/29/94	1/10/95
6				
7				
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24				
25				
26				

Comments:

1D
OP PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKS1

Lab Name: AES

Contract:

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: PBLKS1

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: PBLKS1

Level: (low/med) LOW

Date Received:

% Moisture: not dec. 100. dec. _____

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 12/29/94

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

126-68-1-----OOO-TEP	.019	J
297-97-2-----Thionazin	.50	U
298-02-2-----Phorate	.50	U
60-51-5-----Dimethoate	.50	U
298-04-4-----Disulfoton	.50	U
298-00-0-----Methyl Parathion	.50	U
56-38-2-----Parathion	.50	U
52-85-7-----Famphur	.50	U

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4C
OP PESTICIDE METHOD BLANK SUMMARY

Lab Name: AES

Contract:

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Lab Sample ID: PBLKS2

Lab File ID:

Matrix: (soil/water) WATER

Level: (low/med) LOW

Date Extracted: 12/19/94

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed (1): 12/29/94

Date Analyzed (2): 1/10/95

Time Analyzed (1): 13:28

Time Analyzed (2): 16:42

Instrument ID (1): VAR3A

Instrument ID (2): VAR3A

GC Column ID (1): DB5

GC Column ID (2): DB608

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	=====	=====	=====	=====
1	MW-6D	MW-6D	12/29/94	1/10/95
2	MW-4	MW-4	12/29/94	
3	MW-S	MW-S	12/29/94	1/10/95
4	PMSBS1	PMSBS1	12/29/94	
5	MW-4 MS	MW-4 MS	12/29/94	
6	MW-4 MSD	MW-4 MSD	12/29/94	
7				
8				
9				
10				
11				
12				
13				
14				
15				
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26				

Comments:

1D
OP PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKS2 000141

Lab Name: AES Contract:
Lab Code: AES Case No.: C17000 SAS No.: SDG No.: MW-N

Matrix: (soil/water) WATER Lab Sample ID: PBLKS2
Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: PBLKS2
Level: (low/med) LOW Date Received:
% Moisture: not dec. 100. dec. _____ Date Extracted: 12/19/94
Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/29/94
GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/L	Q
126-68-1-----	OOO-TEP	.032	J
297-97-2-----	Thionazin	.50	U
298-02-2-----	Phorate	.50	U
60-51-5-----	Dimethoate	.50	U
298-04-4-----	Disulfoton	.50	U
298-00-0-----	Methyl Parathion	.50	U
56-38-2-----	Parathion	.50	U
52-85-7-----	Famphur	.50	U

4C
PKID METHOD BLANK SUMMARY

07/01/94

Lab Name: AES

Contract:

Lab Code: AES

Case No.: C17000

SAS No.:

SDG No.: MW-N

Lab Sample ID: PBLKS1

Lab File ID:

Matrix: (soil/water) WATER

Level:(low/med) LOW

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed (1): 12/22/94

Date Analyzed (2): 12/22/94

Time Analyzed (1): 3:08

Time Analyzed (2): 3:05

Instrument ID (1): VAR2A

Instrument ID (2): VAR2A

GC Column ID (1): DB5

GC Column ID (2): DB1701

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	=====	=====	=====	=====
1	MW-1	MW-1	12/22/94	
2	MW-2	MW-2	12/22/94	
3	MW-N	MW-N	12/22/94	
4	MW-6X	MW-6X	12/22/94	
5	MW-3	MW-3	12/22/94	
6				
7				
8				
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23				
24				
25				
26				

Comments:

4C
PKID METHOD BLANK SUMMARY

000143

Lab Name: AES

Contract:

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Lab Sample ID: PBLKS2

Lab File ID: PBLKS2

Matrix: (soil/water) WATER

Level:(low/med) LOW

Date Extracted: 12/19/94

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed (1): 12/22/94

Date Analyzed (2):

Time Analyzed (1): 7:10

Time Analyzed (2):

Instrument ID (1): VAR2A

Instrument ID (2):

GC Column ID (1): DB5

GC Column ID (2):

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	MW-6D	MW-6D	12/22/94	
2	MW-4	MW-4	12/22/94	
3	MW-S	MW-S	12/22/94	
4	PMSBS1	PMSBS1	12/22/94	
5	MW-4 MS	MW-4 MS	12/22/94	
6	MW-4 MSD	MW-4 MSD	12/22/94	
7				
8				
9				
10				
11				
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14				
15				
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22				
23				
24				
25				
26				

Comments:

1D
PKID ORGANICS ANALYSIS DATA SHEET

000147

EPA SAMPLE NO.

PBLKS1

Lab Name: AES

Contract:

Lab Code: AES

Case No.: C17000

SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: PBLKS1

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: PBLKS1

Level: (low/med) LOW

Date Received:

% Moisture: not dec. 100. dec. _____

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 12/22/94

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

2303-16-4-----	DIALATE	1.0	U
23950-58-5-----	PRONAMIDE	.100	U
143-50-0-----	KEPONE	.058	J
465-73-6-----	ISODRIN	.100	U

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PKID ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKS2

Lab Name: AES

Contract:

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: PBLKS2

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: PBLKS2

Level: (low/med) LOW

Date Received:

% Moisture: not dec. 100. dec. _____

Date Extracted: 12/19/94

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 12/22/94

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

2303-16-4-----DIALATE
23950-58-5-----PRONAMIDE
143-50-0-----KEPONE
465-73-6-----ISODRIN

1.0	U
.100	U
.100	U
.100	U

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4C
PESTICIDE METHOD BLANK SUMMARY

(00014)

Lab Name: AES, IN

Contract:

Lab Code: AES, IN

Case No.: C17000

SAS No.:

SDG No.: MW-N

Lab Sample ID: HBLKS1

Lab File ID: HBLKS1

Matrix: (soil/water) WATER

Level: (low/med) LOW

Date Extracted: 12/15/94

Extraction: (SepF/Cont/Sonc)LLP

Date Analyzed (1): 12/30/94

Date Analyzed (2): 12/30/94

Time Analyzed (1): 0:12

Time Analyzed (2): 0:12

Instrument ID (1): VAR2A

Instrument ID (2): VAR2A

GC Column ID (1): DB5

GC Column ID (2): DB5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	=====	=====	=====	=====
1	HMSBS1	HMSBS1	12/30/94	
2	MW-1	MW-1	12/30/94	
3	MW-2	MW-2	12/30/94	
4	MW-N	MW-N	12/30/94	
5	MW-6X	MW-6X	12/30/94	12/30/94
6	MW-3	MW-3	12/30/94	12/30/94
7	MW-6D	MW-6D	12/30/94	12/30/94
8	MW-4	MW-4	12/30/94	
9	MW-4 MS	MW-4 MS	12/30/94	
10	MW-4 MSD	MW-4 MSD	12/30/94	
11	MW-S	MW-S	12/30/94	12/30/94
12				
13				
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16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

Comments:

000000

1D
HERBICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HBLKS1

Lab Name: AES,IN

Contract:

Lab Code: AES,IN

Case No.: C17000

SAS No.:

SDG No.: MW-N

Matrix: (soil/water) WATER

Lab Sample ID: HBLKS1

Sample wt/vol: 100.0 (g/mL) ML

Lab File ID: HBLKS1

Level: (low/med) LOW

Date Received:

% Moisture: not dec. 100. dec. _____

Date Extracted: 12/15/94

Extraction: (SepF/Cont/Sonc) LLP

Date Analyzed: 12/30/94

GPC Cleanup: (Y/N) N

pH:

Dilution Factor: 1.00

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

94-75-7-----2,4-D	.50	U
93-72-1-----SILVEX	.100	U
93-76-5-----2,4,5-T	.042	J
88-85-7-----DINOSEB	.50	U

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3
BLANKS

Lab Name: AES _____

Contract: _____

Lab Code: AES _____

Case No.: _____

SAS No.: _____

SDG No.: MWN _____

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L_

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
Aluminum	28.4	B	27.3	U	35.9	B	27.3	U	27.300	U	P
Antimony	50.0	U	59.2	B	50.0	U	50.0	U	50.000	U	P
Arsenic	7.4	U	7.4	U	7.4	U	7.4	U	7.400	U	F
Barium	2.4	U	2.4	U	2.4	U	2.4	U	2.400	U	P
Beryllium	0.7	U	0.7	U	0.9	B	0.7	U	0.852	B	P
Cadmium	2.7	U	2.7	U	2.7	U	2.7	U	2.700	U	P
Calcium	355.0	U	355.0	U	355.0	U	355.0	U	355.000	U	P
Chromium	3.9	U	3.9	U	3.9	U	3.9	U	3.900	U	P
Cobalt	6.9	U	6.9	U	6.9	U	6.9	U	6.900	U	P
Copper	2.3	U	4.9	B	19.5	B	13.8	B	8.784	B	P
Iron	14.8	U	14.8	U	14.8	U	14.8	U	14.800	U	P
Lead	2.8	U	2.8	U	2.8	U	2.8	U	2.800	U	F
Magnesium	253.0	U	253.0	U	253.0	U	253.0	U	253.000	U	P
Manganese	1.1	U	1.1	U	1.1	U	1.1	U	1.100	U	P
Mercury	0.0	U	0.0	U	0.0	U			0.040	U	AV
Nickel	9.7	U	9.7	U	9.7	U	9.7	U	9.700	U	P
Potassium	608.0	U	608.0	U	608.0	U	608.0	U	608.000	U	P
Selenium	2.2	U	2.2	U	2.2	U	2.2	U	2.200	U	F
Silver	2.9	B	2.8	U	2.8	U	2.8	U	2.800	U	P
Sodium	344.0	U	344.0	U	344.0	U	344.0	U	344.000	U	P
Thallium	6.8	U	6.8	U	6.8	U	6.8	U	6.800	U	F
Vanadium	33.1	B	3.8	U	3.8	U	3.8	U	3.800	U	P
Zinc	2.4	U	2.4	U	2.4	U	2.4	U	2.400	U	P
Boron	15.8	U	15.8	U	24.8	B	15.8	U	15.800	U	P

3
BLANKS

000149

Lab Name: AES _____

Contract: _____

Lab Code: AES _____

Case No.: _____

SAS No.: _____

SDG No.: MWN _____

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Prepa- ration Blank	C	M
			1	C	2	C	3	C			
Aluminum			27.3	U	69.9	B					P
Antimony			57.3	B	50.0	U					P
Arsenic			7.4	U	7.4	U					F
Barium			2.4	U	2.4	U					P
Beryllium			0.7	U	0.7	U					P
Cadmium			2.7	U	2.7	U					P
Calcium			355.0	U	355.0	U					P
Chromium			3.9	U	3.9	U					P
Cobalt			6.9	U	6.9	U					P
Copper			8.8	B							P
Iron			14.8	U	16.3	B					P
Lead			2.8	U	2.8	U	2.8	U			F
Magnesium			253.0	U	253.0	U					P
Manganese			1.1	U	1.1	U					P
Mercury											NR
Nickel			10.3	B	16.3	B					P
Potassium			608.0	U	608.0	U					P
Selenium			2.2	U	2.2	U					F
Silver			2.8	U	2.8	U					P
Sodium			344.0	U	344.0	U					P
Thallium			6.8	U							F
Vanadium			3.8	U	3.8	U					P
Zinc			2.4	U	2.4	U					P
Boron			15.8	U	15.8	U					P

3
BLANKS

Lab Name: AES _____

Contract: _____

Lab Code: AES _____

Case No.: _____

SAS No.: _____

SDG No.: MWN _____

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)						Prepa- ration Blank		M
		C	1	C	2	C	3	C		C	
Aluminum											NR
Antimony											NR
Arsenic	7.4	U	7.4	U	7.4	U					F
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium	2.2	U	2.2	U							F
Silver											NR
Sodium											NR
Thallium	6.8	U	6.8	U	6.8	U					F
Vanadium											NR
Zinc											NR
Boron											NR

000152

1

BLANKS

Lab Name: AEE INC

Contract:

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Case No:

21700

33 卷:

250 2014-2015

Concentration Units (MG/KE or UG/L): UG/L

Preparation Blank Matrix (soil/water): WATER

100-441100-1
 100-441100-2

Continuing Calibration
Blank 11/13/11

100-443887-1
 4-17-68

24

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44-38861-100

1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 26

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8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

000133

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: C17000

SAS No.:

SDG No.: MW-N

Lab File ID (Standard): DS652

Date Analyzed: 12/21/94

Instrument ID: H5970 D

Time Analyzed: 10:28

GC Column: RTX502.2 ID: .25 (mm)

Heated Purge: (Y/N) N

	IS1 (FLB)	
	AREA #	RT #
=====	=====	=====
12 HOUR STD	87342.	12.31
UPPER LIMIT	174684.	12.81
LOWER LIMIT	43671.	11.81
=====	=====	=====
EPA SAMPLE NO.		
=====	=====	=====
1 VBLK01	88792.	12.33
2 MW-1	77614.	12.33
3 MW-2	75963.	12.32
4 MW-6X	70470.	12.29
5 MW-4	69000.	12.31
6 MW-S	78328.	12.33
7 MSB 12/21	80665.	12.33
8 MW-4 MS	71381.	12.32
9 MW-4 MSD	80658.	12.32
10 MW-3	78574.	12.33
11 MW-6D	70680.	12.32
12		
13		
14		
15		

IS1 (FLB) = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + .50 minutes of internal standard RT

RT LOWER LIMIT = - .50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC Limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

000154

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Lab File ID (Standard): DS653

Date Analyzed: 12/22/94

Instrument ID: H5970 D

Time Analyzed: 10:58

GC Column: RTX502.2 ID: .25 (mm)

Heated Purge: (Y/N) N

	IS1 (FLB)	
	AREA #	RT #
=====	=====	=====
12 HOUR STD	95754.	12.34
UPPER LIMIT	191508.	12.84
LOWER LIMIT	47877.	11.84
=====	=====	=====
EPA SAMPLE NO.		
=====	=====	=====
1 VBLK02	83037.	12.34
2 MW-N	77044.	12.35
3		
4		
5		
6		

IS1 (FLB) = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + .50 minutes of internal standard RT

RT LOWER LIMIT = - .50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC Limits.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

000155

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: C17000

SAS No.:

SDG No.: MW-N

Lab File ID (Standard): BS318

Date Analyzed: 12/23/94

Instrument ID: H5970 B

Time Analyzed: 10:45

	IS1(DCB)		IS2(NPT)		IS3(ANT)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	35589.	6.89	126374.	10.25	80408.	15.55
UPPER LIMIT	71178.	7.39	252748.	10.75	160816.	16.05
LOWER LIMIT	17795.	6.39	63187.	9.75	40204.	15.05
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
1 SBLK01	28835.	6.86	97757.	10.23	59508.	15.52
2 SBLK02	32718.	6.86	106431.	10.23	65783.	15.52
3 MSB 12/1	32838.	6.88	117579.	10.24	68249.	15.54
4 MW-1	34115.	6.87	109893.	10.23	68299.	15.53
5 MW-2	32988.	6.87	110380.	10.23	65930.	15.52
6 MW-N	32103.	6.87	111507.	10.24	64552.	15.53
7 MW-6X	35521.	6.86	119672.	10.23	70392.	15.53
8 MW-3	35353.	6.86	117618.	10.23	71177.	15.53
9 MW-S	36809.	6.87	120542.	10.24	71362.	15.54
10 MW-4	39615.	6.87	121575.	10.23	73856.	15.53
11 MW-4 MS	34721.	6.88	117479.	10.24	69826.	15.54
12 MW-4 MSD	33513.	6.87	119150.	10.24	69522.	15.53
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (DCB) = d4-1,4-Dichlorobenzene

IS2 (NPT) = d8-Naphthalene

IS3 (ANT) = d10-Acenaphthene

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + .50 minutes of internal standard RT

RT LOWER LIMIT = - .50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AES, Inc.

Contract:

000156

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Lab File ID (Standard): BS318

Date Analyzed: 12/23/94

Instrument ID: H5970 B

Time Analyzed: 10:45

		IS4(PHN)		IS5(CRY)		IS6(PRY)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	133190.	20.06	55505.	28.29	29184.	32.42
	UPPER LIMIT	266380.	20.56	111010.	28.79	58368.	32.92
	LOWER LIMIT	66595.	19.56	27753.	27.79	14592.	31.92
	EPA SAMPLE NO.						
1	SBLK01	82670.	20.03	29213.	28.28	18630.	32.42
2	SBLK02	94382.	20.03	34885.	28.29	22345.	32.43
3	MSB 12/1	100775.	20.05	34974.	28.29	23466.	32.43
4	MW-1	96350.	20.04	34304.	28.29	22832.	32.43
5	MW-2	101601.	20.04	33086.	28.29	21583.	32.43
6	MW-N	95588.	20.04	30203.	28.29	18961.	32.44
7	MW-6X	99376.	20.04	34380.	28.29	23945.	32.43
8	MW-3	103940.	20.04	34237.	28.30	19704.	32.43
9	MW-S	102319.	20.06	31255.	28.31	19286.	32.44
10	MW-4	104916.	20.05	38662.	28.30	22759.	32.44
11	MW-4 MS	103238.	20.05	33869.	28.31	20358.	32.44
12	MW-4 MSD	100276.	20.05	33065.	28.30	21261.	32.44
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = d10-Phenanthrene

IS5 (CRY) = d12-Chrysene

IS6 (PRY) = d12-Perylene

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + .50 minutes of internal standard RT

RT LOWER LIMIT = - .50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC Limits.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AES, Inc.

Contract:

000157

Lab Code: AES

Case No.: C17000

SAS No.:

SDG No.: MW-N

Lab File ID (Standard): BS005

Date Analyzed: 01/06/95

Instrument ID: H5970 B

Time Analyzed: 11:33

		IS1(DCB)		IS2(NPT)		IS3(ANT)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	29150.	6.73	95310.	10.09	57058.	15.37
	UPPER LIMIT	58300.	7.23	190620.	10.59	114116.	15.87
	LOWER LIMIT	14575.	6.23	47655.	9.59	28529.	14.87
	EPA SAMPLE NO.						
1	MW-60	36796.	6.72	126297.	10.07	73999.	15.37
2							
3							
4							
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6							
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18							
19							
20							
21							
22							

IS1 (DCB) = d4-1,4-Dichlorobenzene

IS2 (NPT) = d8-Naphthalene

IS3 (ANT) = d10-Acenaphthene

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + .50 minutes of internal standard RT

RT LOWER LIMIT = - .50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

000158

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: C17000 SAS No.:

SDG No.: MW-N

Lab File ID (Standard): BS005

Date Analyzed: 01/06/95

Instrument ID: H5970 B

Time Analyzed: 11:33

	IS4(PHN)		IS5(CRY)		IS6(PRY)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	84352.	19.88	39290.	28.16	27706.	32.33
UPPER LIMIT	168704.	20.38	78580.	28.66	55412.	32.83
LOWER LIMIT	42176.	19.38	19645.	27.66	13853.	31.83
EPA SAMPLE NO.						
1 MW-6D	104564.	19.90	39029.	28.17	25650.	32.33
2						
3						
4						
5						
6						
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22						

IS4 (PHN) = d10-Phenanthrene

IS5 (CRY) = d12-Chrysene

IS6 (PRY) = d12-Perylene

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + .50 minutes of internal standard RT

RT LOWER LIMIT = - .50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

APPENDIX X
DATA VALIDATION REPORT
ERM NORTHEAST

ERM-Northeast

791 New Karner Road
Suite 7
Albany, NY 12205
(518) 452-4291
(518) 452-4295 (fax)

9 February 1995

Ms. Rogina Camilli
Clough, Harbour & Associates
III Winners Circle
PO Box 5269
Albany, New York 12205-5269



RE: Data Validation of Saugerties Ground Water Samples
Per 6 NYCRR Part 360
ERM-Northeast Project No. 825.005

Dear Ms. Camilli:

Attached please find my data validation report for the validation of two ground water samples as part of your Saugerties Landfill ground water sampling and analysis program. The data validation was performed on the Adirondack Environmental Services, Inc. (AES) ASP Category B deliverables package of samples analyzed for 6 NYCRR Part 360 expanded scan parameters, supplied to me by CHA. The data were assessed in terms of their compliance with the terms and protocols of the 6 NYCRR Part 360 regulations. With few exceptions the data are valid and usable without qualification.

Thank you for the opportunity to provide CHA with data validation services. If you have any questions or comments concerning this validation, or if you have the need for data validation services in the future, please do not hesitate to call me.

Sincerely,

Douglas A. Wolf, P.E.
Project Manager

Enclosure

RECEIVED

FEB 13 1995

CLOUGH, HARBOUR
& ASSOCIATES

**DATA VALIDATION REVIEW OF
GROUND WATER SAMPLE ANALYSES
SAUGERTIES LANDFILL
ADIRONDACK ENVIRONMENTAL SERVICES, INC.
CASE NO. C17000, SDG. NO. MW-N**



PROJECT SUMMARY

Clough, Harbour & Associates (CHA) performed a sampling and analysis program on ground water samples from the Saugerties Landfill, with laboratory analysis of the samples for 6NYCRR Part 360 expanded scan parameters minus dioxins/furans (Attachment A) following New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols (ASP). Samples were analyzed by United States Environmental Protection Agency (USEPA) methods as listed in "Test Methods for Evaluating Solid Waste" (SW-846, 3rd edition) and "Methods for Chemical Analysis of Water and Wastes" (EPA-600/4-79-020), NYSDEC ASP methods or Standard Methods for the Examination of Water and Wastewater (APHA-AWWA-WPCF, 16th edition). CHA selected approximately 25% of the samples to undergo a data validation review. This report presents the results of the ERM-Northeast, Inc. (ERM) data validation review of these samples.

Deliverables

Adirondack Environmental Services, Inc. (AES) presented the results of their analysis of the ground water samples according to the NYSDEC ASP Category B deliverables format. This format includes full data deliverables and is analogous to a CLP data package format for non-CLP analytical methods.

The supplied deliverables are sufficient to perform data validation of the samples in accordance with 6 NYCRR Part 360-2.11(d)(5)(i) and (ii). Criteria used to assess the validity of the sample data include the USEPA "Laboratory Data Validation Functional Guidelines for Evaluating Organics (and Inorganics) Analyses" (1988 revisions), the quality assurance/quality control (QA/QC) guidance presented in the specific methods, 6 NYCRR Part 360, and the data reviewer's professional judgement.

This validation report pertains to the following samples:

<u>CHA Sample ID</u>	<u>AES Sample ID</u>
MW-4	941215S03
MW-6D	941215S02

ORGANICS

The following items/criteria were reviewed for this report:

- Quantitation/detection limits
- Holding times
- GC/MS tuning and performance
- Initial and continuing calibration data
- Procedural and trip blank data
- Internal standard areas, retention times, summary and data
- Surrogate recoveries, summary and data
- MS/MSD/MSB recoveries, summary and data
- Chromatograms and mass spectra
- Data system printouts
- Qualitative and quantitative compound identification
- Case narrative and deliverables compliance

The items listed above were technically acceptable and in compliance with the requirements of 6 NYCRR Part 360 with the exceptions discussed in the text below. The data have been validated according to the procedures outlined above and qualified accordingly.

VOLATILES

- The matrix spike (MS) of MW-4 exhibited the system monitoring compound (SMC) toluene-d8 with a slightly high recovery (111%; QC limits = 88%-110%). The MSD and unspiked portion of this samples exhibited acceptable SMC recovery, therefore this deficiency is not considered to have a technical impact on the associated sample data.
- Method blank VBLK01 contained 9 µg/l of carbon disulfide and 2 µg/l of chloroform. Both of these compounds were detected in MW-6D at similar concentrations and are therefore negated, their presence attributed to laboratory contamination.

- The case narrative indicates that the VOC method was modified so as to use fluorobenzene as the only internal standard as follows:

"Fluorobenzene was used as the internal standard for the volatile analysis. This internal standard does not interfere with any of the compounds listed under the new baseline listing of "6 NYCRR Part 360" dated 10/9/93, and is documented elsewhere, under other approved volatile methods (EPA-524.2). The internal standard, bromochloromethane currently listed under method 91-1 in the 12/91 ASP, is now a compound of interest in the expanded parameter listing of part 360. As a result, the "normal" internal standard spiking solution could not be utilized. The recoveries of fluorobenzene have been summarized on forms 8 in the data package."

Since calibration response factors (RF), percent relative standard deviation (%RSD) and percent difference (%D) QC criteria were developed based on the "normal" internal standards, it is the reviewer's professional judgement that they may not be appropriate for use with the fluorobenzene internal standard. Therefore, the reviewer has used modified USEPA Region II general QC criteria as follows:

- Results for compounds with response factors less than 0.05 are considered estimated and flagged "J" for positive results "UJ" for non-detects.
- Results for compounds with %RSD greater than 30% are considered estimated with positive results flagged "J" and non-detects "UJ."
- Results for compounds with %D greater than 25% are considered estimated with positive results flagged "J" and non-detects "UJ."

Calibration deficiencies are noted in the following table:

Calibration	Compound	Deficiency	Associated Samples
12/19/94 (1600-1824)	Chloromethane	%RSD = 31.8	All Samples
		RF = 0.016	
	Vinyl Chloride	RF = 0.016	
	Acetone	%RSD = 37.2	
		RF = 0.008	
	Chloroethane	RF = 0.023	
	Carbon disulfide	%RSD = 34.3	
12/20/94 (1032-1135)	Vinyl acetate	RF = 0.022	All Samples
	Acrylonitrile	RF = 0.016	
	Allyl chloride	RF = 0.029	
	Acrolein	RF = 0.001	
	Acetonitrile	RF = 0.001	
12/21/94 (1028)	Propionitrile	RF = 0.028	All Samples
	Isobutylalcohol	RF = 0.013	
	Chloromethane	%D = 93.7	
		RF = 0.031	
	Vinyl chloride	RF = 0.017	
	Chloroethane	RF = 0.018	
	Methylene chloride	%D = 51.9	
	Acetone	RF = 0.007	
12/22/94 (1915)	Trichlorofluoromethane	%D = 36.2	All Samples
	Carbon disulfide	%D = 50.9	
	Vinyl acetate	RF = 0.020	
	Acrylonitrile	RF = 0.015	
	Allyl chloride	RF = 0.035	
	Acrolein	RF = 0.001	
	Acetonitrile	RF = 0.001	
	Propionitrile	RF = 0.025	
	Isobutylalcohol	RF = 0.009	
		%D = 28.0	

SEMI-VOLATILES

- Method blank SBLK02 contained bis(2-ethylhexyl)phthalate at 4 µg/l. This compound was detected in both samples of interest at about the same concentration as in the method blank and has therefore been negated.

- The following table lists calibration deficiencies and is analogous to the VOC calibration deficiencies criteria described previously.

Calibration	Compound	Deficiency	Associated Samples
1/22/954 (1203-1758)	4-Chloroaniline	%RSD = 32.6	All Samples
	3-Nitroaniline	%RSD = 38.7	
	4-Nitroaniline	%RSD = 55.0	
	Carbazole	%RSD = 43.6	
10/24-10/25/94 (1730-0111)	Ethyl methanesulfonate	%RSD = 32.1	All Samples
	N-Nitrosopiperidine	%RSD = 37.7	
	Hexachloropropene	%RSD = 56.0	
	3,3'-Dimethylbenzidine	%RSD = 81.9	
	4-Nitroquinoline-1-oxide	RF = 0.025	
12/23/94 (1045)	3-Nitroaniline	%D = 85.1	MW-4
	4-Nitroaniline	%D = 44.0	
	Carbazole	%D = 25.9	
	2,2'-oxybis(1-chloropropene)	%D = 34.5	
	Nitrobenzene	%D = 28.3	
	Pyrene	%D = 27.6	
	3,3'-Dichlorobenzidine	%D = 63.6	
	Phenol-d5 (surrogate)	%D = 29.2	
1/06/95 (1133)	4-Chloroaniline	%D = 29.5	MW-6D
	Nitrobenzene	%D = 38.5	
	Carbazole	%D = 47.6	
	3,3'-Dichlorobenzidine	%D = 57.3	
	Hexachlorocyclopentadiene	%D = 27.1	
	2,4-Dinitrophenol	%D = 32.1	
	N-Nitrosodiphenylamine	%D = 36.5	
	Phenol-d5 (surrogate)	%D = 29.4	
1/09/95 (1301-1525)	Hexachloropropene	%D = 50.5	All Samples
		RF = 0.030	
	3,3'-Dimethylbenzidine	RF = 0.028	
	5-Nitrotoluidine	%D = 26.2	
	4-Nitroquinoline-1-oxide	RF = 0.020	

PESTICIDE/PCB

- All samples exhibited recoveries less than the 60% lower QC limit for the surrogate compound tetrachlorometaxylene on GC column DB-608. Recovery for this surrogate on column DB-1701 was acceptable, therefore no qualification of the sample data is necessary.

ISODRIN, PRONAMIDE, KEPONE AND DIALATE

- The laboratory did not perform second column confirmation for positive results. Given the lack of second column confirmation and the extremely low concentrations (well below the detection limit) calculated for positive kepone results on the quantitation column, it is the reviewer's professional judgement that positive kepone results cannot be verified and are therefore negated.

ORGANOPHOSPHORUS PESTICIDES

- The MSB exhibited disulfoton recovery (12%) below the 48%-84% laboratory-developed advisory recovery QC limits. Because the limits are advisory, and all other disulfoton QC criteria were met for the quantitation column, sample results are not qualified for disulfoton.
- The MS/MSD (MW-4) exhibited acceptable recoveries for dimethoate and disulfoton (65%/66% and 96%/90%, respectively). However the laboratory-developed statistical QC limits for these compounds are 0%-50% and 48%-84%, respectively. While the recoveries of these compounds in the MS/MSD are outside of the statistical control limits, they are nevertheless adequate recoveries and no qualification of the sample data is necessary.
- The compound famphur exhibited a percent difference result (15.6%) greater than the 15% QC limit for the DB-5 quantitation column in the first continuing calibration. The compounds ooo-TEP (20.6% and 22.6%), dimethoate (27.6% and 21.6%) and famphur (23.5%) exhibited percent difference results greater than the 20% QC limit for the DB-

608 confirmation column in the continuing calibrations. Based on these exceedances, non-detect famphur results only are qualified as estimated and flagged "UJ".

HERBICIDES

- The initial 0.5 STD A on both the quantitation and confirmation columns exhibited percent difference results outside of the 15% quantitation and 20% confirmation QC limits for 2,4-D and/or dinoseb. However, the samples of interest, MW-4 and MW-6D were analyzed after an in control calibration standard and are therefore unaffected by these deficiencies.
- Method blank HBLKS1 contained 0.042 µg/l of 2,4,5-T. This compound was not detected in any sample of interest.
- MW-6D exhibited 205% recovery (advisory QC limits = 50%-150%) of the surrogate compound DCPAA on the quantitation column, DB-5, but acceptable recovery on the confirmation column, DB-1701. However, the quantitated concentration of this compound is the same on both columns indicating that there is no bias in the DB-5 measurement for this compound in this sample.

INORGANIC AND WET CHEMISTRY PARAMETERS

The following items/criteria were reviewed for this report, where applicable:

- Case narrative
- Deliverable requirements
- Holding times
- Calibrations
- Lab blanks
- ICP interference check sample analysis
- CRDL standard analysis
- Matrix spike analysis
- Lab duplicate sample analysis
- Laboratory control sample results
- ICP serial dilution analysis
- GFAA post-digestion spike results
- Method of standard additions (MSA) results
- Detection limits

The items listed above were technically acceptable and in compliance with the requirements of 6NYCRR Part 360 with the exceptions discussed in the text below. The data have been validated according to the procedures outlined previously and qualified accordingly.

- The laboratory duplicate exhibited RPDs greater than 20% or absolute difference (a.d.) greater than $\pm$ CRDL for bromide (37%). Positive bromide results are considered estimated and flagged "J".
- The nitrate CRDL standard exhibited a recovery that is slightly outside of acceptable limits. Although the ASP and the USEPA Functional Guidelines do not address CRDL standard recoveries, it is the professional judgement of the data reviewer that recovery outside of 80%-120% (USEPA Region II QC limits) may indicate potential bias in sample results at concentrations near the CRDL. Therefore positive sample nitrate concentrations are considered estimated and flagged "J".
- The selenium calibration linear correlation coefficient was less than 0.995 (0.9883), therefore all selenium results are

considered estimated and flagged "J" for positive results, "UJ" for non-detects.

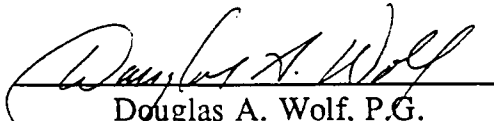
- ICP serial dilution percent difference results for sodium (24.7%) exceeded the 10% QC limit with the initial sample concentration greater than 50 times the instrument detection limits (IDL). All positive sample results for sodium are considered estimated and flagged "J."
- Arsenic (2938.5%), mercury (140.6%), selenium (130.0%), thallium (50.8%) and vanadium (68.6%) spiked sample recoveries were outside of 75%-125% QC limits. All thallium and vanadium results are considered estimated, possibly biased low, and flagged "J" for positive results, "UJ" for non-detects. Positive results only for all other metals are considered estimated, possibly biased high, and flagged "J." The excessive arsenic spike recovery may be due to sample matrix effects.
- Arsenic in MW-4 (84%), selenium in MW-4 (60%) and MW-6D (58%) and thallium in MW-4 (55.5%) and MW-6D (66%) each exhibited GFAA post-digestion spike recoveries outside of 85%-115% QC limits, with sample concentrations less than 50% of the spike. Results for these metals in the noted samples are considered estimated, possibly biased low and flagged "J" or "UJ" for positive results or non-detect results, respectively.
- Continuing calibration blank 1 (CCB1) contained 119 µg/l of ammonia. CCB2 contained 33 µg/l of nitrate. Based on the analytical sequence and the sample concentrations of these analytes, no qualification of sample concentrations due to blank contamination is necessary.

Package Summary

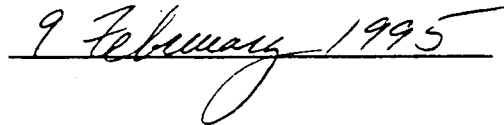
The data package submitted by AES contains sufficient information to validate the sample data for samples MW-4 and MW-6D with respect to the requirements of 6NYCRR Part 360. The data are valid and usable with qualifications on a sample-specific/analyte-specific basis as noted in the Data Validation section of this report, based upon the information contained within the supplied data package. USEPA and/or NYSDEC data

validation guidance may have been used in assessing data validity, however these QC protocols were used as guidance tools only, not as regulatory requirements. Method requirements, good laboratory practice and professional judgement and common sense were also used as assessment criteria. Validated data reporting forms are included as Attachment B.

Signed:


Douglas A. Wolf, P.G.
Project Manager

Dated:



APPENDIX XI
LABORATORY TEST DATA
RESIDENTIAL WELLS

COUNTY OF ULSTER

300 Flatbush Avenue
P.O. Box 1800
Kingston, New York 12401-0800

HEALTH DEPARTMENT

Dean N. Palen, P.E., M.B.A.
Public Health Director

Walter Dobushak, D.O.
Medical Examiner/Consultant

Patricia J. Cicale, R.N., M.S.
Director of Patient Services



February 17, 1995

Administration
(914) 338-7019

Environmental Sanitation
(914) 338-8447

Medical Examiner
(914) 338-6576

Public Health Nursing
(914) 338-9130

Lerner
12 Sawwood Lane
Woodstock, NY 12498

Abrams
9 Sawwood Lane
Woodstock, NY 12498

Perez
14 Sawwood
Woodstock, NY 12498

Mullen
6 Sawwood Lane
Woodstock, NY 12498

Sharpe
3 Sawwood Lane
Woodstock, NY 12498

Robert Arsenak
8 Sawwood Lane
Woodstock, NY 12498

Heller
4 Sawwood Lane
Woodstock, NY 12498

RE: Drinking Water Sample Results

Dear Sir/Madame:

Enclosed is a copy of an analysis of a sample of your drinking water taken at your home on February 4 or 5, 1995. All results are in MCG/L which means micrograms per liter or parts per billion or MG/L which means milligrams per liter or parts per million. Some results have a [PL] after them which means that something showed up but in an amount too small to be reliable.

If you have any questions regarding these results, please feel free to contact me at 338-8447.

Sincerely,

A handwritten signature in cursive script, appearing to read "Greg Mapstone".

Gregory P. Mapstone
Assistant Public Health Engineer

GPM:dv
Enclosure

cc: Richard M. Loewenstein, P.E., Clough, Harbour & Assoc.
Steve Parisio, NYS DEC
File

RECEIVED

FEB 21 1995

CLOUGH, HARBOUR
& ASSOCIATES

PAGE 1

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 9580003 SAMPLE RECEIVED: 95/01/05/ CHARGE: 15.22
PROGRAM: 110: STATE SUPERFUND ANALYTICAL SERVICES
SOURCE ID: DRAINAGE BASIN: 13 GAZETTEER CODE: 5569
POLITICAL SUBDIVISION: WOODSTOCK COUNTY: ULSTER
LATITUDE: LONGITUDE: Z DIRECTION:
LOCATION: SAUGERTIES LANDFILL
DESCRIPTION: PEREZ, 14 SAWWOOD IN WOODSTOCK - UTILITY TAP
REPORTING LAB: DEDP: DIV. ENVIRONMENTAL DISEASE PREVENTION - ACCESSION LAB
TEST PATTERN: 5022W: VOLATILE ORGANICS IN WATER
SAMPLE TYPE: 120: PRIVATE WATER SUPPLY - DRILLED WELL
TIME OF SAMPLING: 95/01/05 08:15 DATE PRINTED: 95/01/31

<> NO NAOH & ZINC ACETATE PRESERVED BOTTLE SUBMITTED FOR SULFIDE TEST. <>

ANALYSIS: 5022W VOLATILE ORGANICS IN WATER-EPA 502.2 (DES 310-33)
DATE REPORTED: 95/01/18 REPORT MAILED OUT

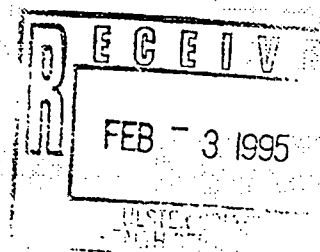
-----PARAMETER-----	-----RESULT-----
DICHLORODIFLUOROMETHANE (FREON-12)	< 0.5 MCG/L
CHLOROMETHANE	0.5 MCG/L
VINYL CHLORIDE	< 0.5 MCG/L
BROMOMETHANE	< 0.5 MCG/L
CHLOROETHANE	< 0.5 MCG/L
TRICHLOROFLUOROMETHANE (FREON-11)	< 0.5 MCG/L
1,1-DICHLOROETHENE	< 0.5 MCG/L
METHYLENE CHLORIDE (DICHLOROMETHANE)	< 0.5 MCG/L
TRANS-1,2-DICHLOROETHENE	< 0.5 MCG/L
1,1-DICHLOROETHANE	0.5 MCG/L [PL]
2,2-DICHLOROPROPANE	< 0.5 MCG/L
CIS-1,2-DICHLOROETHENE	< 0.5 MCG/L
CHLOROFORM	< 0.5 MCG/L
BROMOCHLOROMETHANE	< 0.5 MCG/L
1,1,1-TRICHLOROETHANE	< 0.5 MCG/L
1,1-DICHLOROPROPENE	< 0.5 MCG/L
CARBON TETRACHLORIDE	< 0.5 MCG/L
1,2-DICHLOROETHANE	< 0.5 MCG/L
BENZENE	0.5 MCG/L [PL]
TRICHLOROETHENE	< 0.5 MCG/L
1,2-DICHLOROPROPANE	< 0.5 MCG/L
BROMODICHLOROMETHANE	< 0.5 MCG/L
DIBROMOMETHANE	< 0.5 MCG/L
CIS-1,3-DICHLOROPROPENE	< 0.5 MCG/L
TOLUENE	< 0.5 MCG/L
TRANS-1,3-DICHLOROPROPENE	< 0.5 MCG/L
1,1,2-TRICHLOROETHANE	< 0.5 MCG/L
1,3-DICHLOROPROPANE	< 0.5 MCG/L

**** CONTINUED ON NEXT PAGE ****

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DIRECTOR OF ENVIRONMENTAL SANITATION
ULSTER COUNTY HEALTH DEPT.
300 FLATBUSH AVE.
KINGSTON, N.Y. 12401

SUBMITTED BY: MAPSTONE



PAGE 2

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 9580003 SAMPLE RECEIVED: 95/01/05/ CHARGE: 15.22
POLITICAL SUBDIVISION: WOODSTOCK COUNTY: ULSTER
LOCATION: SAUGERTIES LANDFILL
TIME OF SAMPLING: 95/01/05 08:15 DATE PRINTED: 95/01/31

-----PARAMETER-----	-----RESULT-----
TETRACHLOROETHENE	< 0.5 MCG/L
DIBROMOCHLOROMETHANE	< 0.5 MCG/L
1,2-DIBROMOETHANE (EDB)	< 0.5 MCG/L
CHLOROBENZENE	< 0.5 MCG/L
1,1,1,2-TETRACHLOROETHANE	< 0.5 MCG/L
ETHYLBENZENE	< 0.5 MCG/L
M/P-XYLENE	< 0.5 MCG/L
O-XYLENE	< 0.5 MCG/L
STYRENE	< 0.5 MCG/L
ISOPROPYLBENZENE (Cumene)	< 0.5 MCG/L
BROMOFORM	< 0.5 MCG/L
1,1,2,2-TETRACHLOROETHANE	< 0.5 MCG/L
1,2,3-TRICHLOROPROPANE	< 0.5 MCG/L
N-PROPYLBENZENE	< 0.5 MCG/L
BROMOBENZENE	< 0.5 MCG/L
1,3,5-TRIMETHYLBENZENE	< 0.5 MCG/L
O-CHLOROTOLUENE	< 0.5 MCG/L
P-CHLOROTOLUENE	< 0.5 MCG/L
TERT-BUTYLBENZENE	< 0.5 MCG/L
1,2,4-TRIMETHYLBENZENE	< 0.5 MCG/L
SEC-BUTYLBENZENE	< 0.5 MCG/L
4-ISOPROPYLTOLUENE (p-Cymene)	< 0.5 MCG/L
1,3-DICHLOROBENZENE	< 0.5 MCG/L
1,4-DICHLOROBENZENE	< 0.5 MCG/L
N-BUTYLBENZENE	< 0.5 MCG/L
1,2-DICHLOROBENZENE	< 0.5 MCG/L
1,2-DIBROMO-3-CHLOROPROPANE	< 0.5 MCG/L
1,2,4-TRICHLOROBENZENE	< 0.5 MCG/L
HEXACHLOROBUTADIENE (C-46)	< 0.5 MCG/L
NAPHTHALENE	< 0.5 MCG/L
1,2,3-TRICHLOROBENZENE	< 0.5 MCG/L
PH OF VOLATILE ALIQUOT	2

**** ADDITIONAL PARAMETERS ****

ANALYSIS: 10-180 DEC - BUREAU OF MUN. WASTE - 1
DATE REPORTED: 95/01/25 REPORT MAILED OUT

-----PARAMETER-----	-----RESULT-----
NITROGEN, AMMONIA, AS N	1.18 MG/L
NITROGEN, NITRATE (+NO2) AS N	0.23 MG/L
CHLORIDE	151. MG/L
SULFATE	32.4 MG/L
SOLIDS, TOTAL DISSOLVED, 180 C	666. MG/L
PH	7.00
ALKALINITY TO PH 4.5 (AS CaCO3)	352. MG/L
HARDNESS, TOTAL AS CaCO3	267. MG/L

**** CONTINUED ON NEXT PAGE ****

0581

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

135

PAGE 3

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 9580003 SAMPLE RECEIVED: 95/01/05/ CHARGE: 15.22
POLITICAL SUBDIVISION: WOODSTOCK COUNTY: ULSTER
LOCATION: SAUGERTIES LANDFILL
TIME OF SAMPLING: 95/01/05 08:15 DATE PRINTED: 95/01/31

ANALYSIS: ICP-2 ICP GROUPING 2 - TOTAL RECOVERABLE

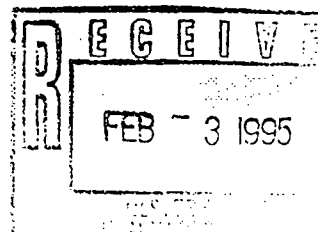
-----PARAMETER-----	-----RESULT-----
MERCURY	< 0.2 MCG/L
ARSENIC, TOTAL RECOVERABLE	< 10. MCG/L
SELENIUM, TOTAL RECOVERABLE	< 5. MCG/L
LEAD, TOTAL RECOVERABLE	16. MCG/L
BERYLLIUM, TOTAL RECOVERABLE	< 1. MCG/L
SILVER, TOTAL RECOVERABLE	< 10. MCG/L
BARIUM, TOTAL RECOVERABLE	493. MCG/L
CADMIUM, TOTAL RECOVERABLE	< 3. MCG/L
COBALT, TOTAL RECOVERABLE	< 5. MCG/L
CHROMIUM, TOTAL RECOVERABLE	< 5. MCG/L
COPPER, TOTAL RECOVERABLE	53. MCG/L
IRON, TOTAL RECOVERABLE	1630. MCG/L
MANGANESE, TOTAL RECOVERABLE	2800. MCG/L
NICKEL, TOTAL RECOVERABLE	6. MCG/L
STRONTIUM, TOTAL RECOVERABLE	1070. MCG/L
TITANIUM, TOTAL RECOVERABLE	< 5. MCG/L
VANADIUM, TOTAL RECOVERABLE	< 5. MCG/L
ZINC, TOTAL RECOVERABLE	12. MCG/L
MOLYBDENUM, TOTAL RECOVERABLE	< 20. MCG/L
ANTIMONY, TOTAL RECOVERABLE	< 75. MCG/L
TIN, TOTAL RECOVERABLE	185. MCG/L
THALLIUM, TOTAL RECOVERABLE	< 75. MCG/L
ALUMINUM, TOTAL RECOVERABLE	< 30. MCG/L
CALCIUM, TOTAL RECOVERABLE	86.5 MG/L
POTASSIUM, TOTAL RECOVERABLE	2.6 MG/L
MAGNESIUM, TOTAL RECOVERABLE	12.3 MG/L
SODIUM, TOTAL RECOVERABLE	108. MG/L

-----PARAMETER-----	-----RESULT-----
SULFIDE	[NA]

**** ADDITIONAL PARAMETERS ****

-----PARAMETER-----	-----RESULT-----
C.O.D.	41. MG/L

**** END OF REPORT ****



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RESULTS OF EXAMINATION

FINAL REPORT

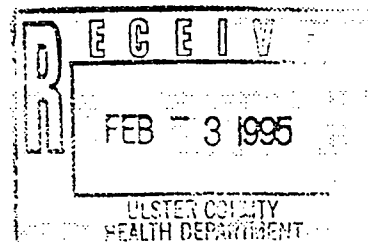
SAMPLE ID: 9580004 SAMPLE RECEIVED: 95/01/05/ CHARGE: 15.22
PROGRAM: 110: STATE SUPERFUND ANALYTICAL SERVICES
SOURCE ID: DRAINAGE BASIN: 13 GAZETTEER CODE: 5569
POLITICAL SUBDIVISION: WOODSTOCK COUNTY: ULSTER
LATITUDE: LONGITUDE: Z DIRECTION:
LOCATION: SAUGERTIES LANDFILL
DESCRIPTION: HELLER, 4 SAWWOOD IN WOODSTOCK - KITCHEN TAP
REPORTING LAB: DEDP: DIV. ENVIRONMENTAL DISEASE PREVENTION - ACCESSION LAB
TEST PATTERN: 5022W: VOLATILE ORGANICS IN WATER
SAMPLE TYPE: 120: PRIVATE WATER SUPPLY - DRILLED WELL
TIME OF SAMPLING: 95/01/05 08:45 DATE PRINTED: 95/01/31

<> NO NAOH & ZINC ACETATE PRESERVED BOTTLE SUBMITTED FOR SULFIDE TEST. <>

ANALYSIS: 5022W VOLATILE ORGANICS IN WATER-EPA 502.2 (DES 310-33)
DATE REPORTED: 95/01/18 REPORT MAILED OUT

-----PARAMETER-----	-----RESULT-----
DICHLORODIFLUOROMETHANE (FREON-12)	< 0.5 MCG/L
CHLOROMETHANE	< 0.5 MCG/L
VINYL CHLORIDE	< 0.5 MCG/L
BROMOMETHANE	< 0.5 MCG/L
CHLOROETHANE	< 0.5 MCG/L
TRICHLOROFLUOROMETHANE (FREON-11)	< 0.5 MCG/L
1,1-DICHLOROETHENE	< 0.5 MCG/L
METHYLENE CHLORIDE (DICHLOROMETHANE)	< 0.5 MCG/L
TRANS-1,2-DICHLOROETHENE	< 0.5 MCG/L
1,1-DICHLOROETHANE	< 0.5 MCG/L
2,2-DICHLOROPROPANE	< 0.5 MCG/L
CIS-1,2-DICHLOROETHENE	< 0.5 MCG/L
CHLOROFORM	< 0.5 MCG/L
BROMOCHLOROMETHANE	< 0.5 MCG/L
1,1,1-TRICHLOROETHANE	< 0.5 MCG/L
1,1-DICHLOROPROPENE	< 0.5 MCG/L
CARBON TETRACHLORIDE	< 0.5 MCG/L
1,2-DICHLOROETHANE	< 0.5 MCG/L
BENZENE	< 0.5 MCG/L
TRICHLOROETHENE	< 0.5 MCG/L
1,2-DICHLOROPROPANE	< 0.5 MCG/L
BROMODICHLOROMETHANE	< 0.5 MCG/L
DIBROMOMETHANE	< 0.5 MCG/L
CIS-1,3-DICHLOROPROPENE	< 0.5 MCG/L
TOLUENE	< 0.5 MCG/L
TRANS-1,3-DICHLOROPROPENE	< 0.5 MCG/L
1,1,2-TRICHLOROETHANE	< 0.5 MCG/L
1,3-DICHLOROPROPANE	< 0.5 MCG/L

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DIRECTOR OF ENVIRONMENTAL SANITATION
ULSTER COUNTY HEALTH DEPT.
300 FLATBUSH AVE.
KINGSTON, N.Y. 12401

SUBMITTED BY: MAPSTONE

PAGE 2

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 9580004 SAMPLE RECEIVED: 95/01/05/ CHARGE: 15.22
POLITICAL SUBDIVISION: WOODSTOCK COUNTY: ULSTER
LOCATION: SAUGERTIES LANDFILL
TIME OF SAMPLING: 95/01/05 08:45 DATE PRINTED: 95/01/31

-----PARAMETER-----	-----RESULT-----
TETRACHLOROETHENE	< 0.5 MCG/L
DIBROMOCHLOROMETHANE	< 0.5 MCG/L
1,2-DIBROMOETHANE (EDB)	< 0.5 MCG/L
CHLOROBENZENE	< 0.5 MCG/L
1,1,1,2-TETRACHLOROETHANE	< 0.5 MCG/L
ETHYLBENZENE	< 0.5 MCG/L
M/P-XYLENE	< 0.5 MCG/L
O-XYLENE	< 0.5 MCG/L
STYRENE	< 0.5 MCG/L
ISOPROPYLBENZENE (Cumene)	< 0.5 MCG/L
BROMOFORM	< 0.5 MCG/L
1,1,2,2-TETRACHLOROETHANE	< 0.5 MCG/L
1,2,3-TRICHLOROPROPANE	< 0.5 MCG/L
N-PROPYLBENZENE	< 0.5 MCG/L
BROMOBENZENE	< 0.5 MCG/L
1,3,5-TRIMETHYLBENZENE	< 0.5 MCG/L
O-CHLOROTOLUENE	< 0.5 MCG/L
P-CHLOROTOLUENE	< 0.5 MCG/L
TERT-BUTYLBENZENE	< 0.5 MCG/L
1,2,4-TRIMETHYLBENZENE	< 0.5 MCG/L
SEC-BUTYLBENZENE	< 0.5 MCG/L
4-ISOPROPYLTOLUENE (p-Cymene)	< 0.5 MCG/L
1,3-DICHLOROBENZENE	< 0.5 MCG/L
1,4-DICHLOROBENZENE	< 0.5 MCG/L
N-BUTYLBENZENE	< 0.5 MCG/L
1,2-DICHLOROBENZENE	< 0.5 MCG/L
1,2-DIBROMO-3-CHLOROPROPANE	< 0.5 MCG/L
1,2,4-TRICHLOROBENZENE	< 0.5 MCG/L
HEXACHLOROBUTADIENE (C-46)	< 0.5 MCG/L
NAPHTHALENE	< 0.5 MCG/L
1,2,3-TRICHLOROBENZENE	< 0.5 MCG/L
PH OF VOLATILE ALIQUOT	2

**** ADDITIONAL PARAMETERS ****

ANALYSIS: 10-180 DEC - BUREAU OF MUN. WASTE - I
DATE REPORTED: 95/01/25 REPORT MAILED OUT

-----PARAMETER-----	-----RESULT-----
NITROGEN, AMMONIA, AS N	0.015 MG/L
NITROGEN, NITRATE (+NO2) AS N	1.07 MG/L
CHLORIDE	46.0 MG/L
SULFATE	24.9 MG/L
SOLIDS, TOTAL DISSOLVED, 180 C	245. MG/L
PH	6.80
ALKALINITY TO PH 4.5 (AS CaCO3)	94. MG/L
HARDNESS, TOTAL AS CaCO3	133. MG/L

**** CONTINUED ON NEXT PAGE ****

PAGE 3

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 9580004 SAMPLE RECEIVED: 95/01/05/ CHARGE: 15.22
POLITICAL SUBDIVISION: WOODSTOCK COUNTY: ULSTER
LOCATION: SAUGERTIES LANDFILL
TIME OF SAMPLING: 95/01/05 08:45 DATE PRINTED: 95/01/31

ANALYSIS: ICP-2 ICP GROUPING 2 - TOTAL RECOVERABLE

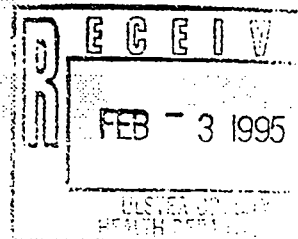
-----PARAMETER-----	-----RESULT-----
MERCURY	< 0.2 MCG/L
ARSENIC, TOTAL RECOVERABLE	< 10. MCG/L
SELENIUM, TOTAL RECOVERABLE	< 5. MCG/L
LEAD, TOTAL RECOVERABLE	< 5. MCG/L
BERYLLIUM, TOTAL RECOVERABLE	< 1. MCG/L
SILVER, TOTAL RECOVERABLE	< 10. MCG/L
BARIUM, TOTAL RECOVERABLE	129. MCG/L
CADMIUM, TOTAL RECOVERABLE	< 3. MCG/L
COBALT, TOTAL RECOVERABLE	< 5. MCG/L
CHROMIUM, TOTAL RECOVERABLE	< 5. MCG/L
COPPER, TOTAL RECOVERABLE	36. MCG/L
IRON, TOTAL RECOVERABLE	36. MCG/L
MANGANESE, TOTAL RECOVERABLE	55. MCG/L
NICKEL, TOTAL RECOVERABLE	< 5. MCG/L
STRONTIUM, TOTAL RECOVERABLE	472. MCG/L
TITANIUM, TOTAL RECOVERABLE	< 5. MCG/L
VANADIUM, TOTAL RECOVERABLE	< 5. MCG/L
ZINC, TOTAL RECOVERABLE	19. MCG/L
MOLYBDENUM, TOTAL RECOVERABLE	< 20. MCG/L
ANTIMONY, TOTAL RECOVERABLE	< 75. MCG/L
TIN, TOTAL RECOVERABLE	< 50. MCG/L
THALLIUM, TOTAL RECOVERABLE	< 75. MCG/L
ALUMINUM, TOTAL RECOVERABLE	< 30. MCG/L
CALCIUM, TOTAL RECOVERABLE	40.5 MG/L
POTASSIUM, TOTAL RECOVERABLE	1.0 MG/L
MAGNESIUM, TOTAL RECOVERABLE	7.7 MG/L
SODIUM, TOTAL RECOVERABLE	19.3 MG/L

-----PARAMETER-----	-----RESULT-----
SULFIDE	[NA]

**** ADDITIONAL PARAMETERS ****

-----PARAMETER-----	-----RESULT-----
C.O.D.	2.4 MG/L

**** END OF REPORT ****



PAGE 1

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 9580005 SAMPLE RECEIVED: 95/01/05/ CHARGE: 15.22
PROGRAM: 110: STATE SUPERFUND ANALYTICAL SERVICES
SOURCE ID: DRAINAGE BASIN: 13 GAZETTEER CODE: 5569
POLITICAL SUBDIVISION: WOODSTOCK COUNTY: ULSTER
LATITUDE: LONGITUDE: Z DIRECTION:
LOCATION: SAUGERTIES LANDFILL
DESCRIPTION: SHARPE, 3 SAWOOD LANE, KITCHEN TAP
REPORTING LAB: DEDP: DIV. ENVIRONMENTAL DISEASE PREVENTION - ACCESSION LAB
TEST PATTERN: 5022W: VOLATILE ORGANICS IN WATER
SAMPLE TYPE: 120: PRIVATE WATER SUPPLY - DRILLED WELL
TIME OF SAMPLING: 95/01/04 : DATE PRINTED: 95/01/31

<> NO NAOH & ZINC ACETATE PRESERVED BOTTLE SUBMITTED FOR SULFIDE TEST. <>

ANALYSIS: 5022W VOLATILE ORGANICS IN WATER-EPA 502.2 (DES 310-33)
DATE REPORTED: 95/01/18 REPORT MAILED OUT

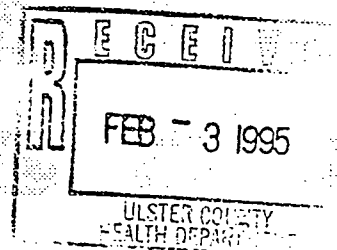
-----PARAMETER-----	-----RESULT-----
DICHLORODIFLUOROMETHANE (FREON-12)	< 0.5 MCG/L
CHLOROMETHANE	< 0.5 MCG/L
VINYL CHLORIDE	< 0.5 MCG/L
BROMOMETHANE	< 0.5 MCG/L
CHLOROETHANE	< 0.5 MCG/L
TRICHLOROFLUOROMETHANE (FREON-11)	< 0.5 MCG/L
1,1-DICHLOROETHENE	< 0.5 MCG/L
METHYLENE CHLORIDE (DICHLOROMETHANE)	< 0.5 MCG/L
TRANS-1,2-DICHLOROETHENE	< 0.5 MCG/L
1,1-DICHLOROETHANE	< 0.5 MCG/L
2,2-DICHLOROPROPANE	< 0.5 MCG/L
CIS-1,2-DICHLOROETHENE	< 0.5 MCG/L
CHLOROFORM	< 0.5 MCG/L
BROMOCHLOROMETHANE	< 0.5 MCG/L
1,1,1-TRICHLOROETHANE	< 0.5 MCG/L
1,1-DICHLOROPROPENE	< 0.5 MCG/L
CARBON TETRACHLORIDE	< 0.5 MCG/L
1,2-DICHLOROETHANE	< 0.5 MCG/L
BENZENE	< 0.5 MCG/L
TRICHLOROETHENE	< 0.5 MCG/L
1,2-DICHLOROPROPANE	< 0.5 MCG/L
BROMODICHLOROMETHANE	< 0.5 MCG/L
DIBROMOMETHANE	< 0.5 MCG/L
CIS-1,3-DICHLOROPROPENE	< 0.5 MCG/L
TOLUENE	< 0.5 MCG/L
TRANS-1,3-DICHLOROPROPENE	< 0.5 MCG/L
1,1,2-TRICHLOROETHANE	< 0.5 MCG/L
1,3-DICHLOROPROPANE	< 0.5 MCG/L

**** CONTINUED ON NEXT PAGE ****

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SUBMITTED BY: KNUDSEN



PAGE 2

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 9580005 SAMPLE RECEIVED: 95/01/05/ CHARGE: 15.22
POLITICAL SUBDIVISION: WOODSTOCK COUNTY: ULSTER
LOCATION: SAUGERTIES LANDFILL
TIME OF SAMPLING: 95/01/04 : DATE PRINTED: 95/01/31

PARAMETER	RESULT
TETRACHLOROETHENE	< 0.5 MCG/L
DIBROMOCHLOROMETHANE	< 0.5 MCG/L
1,2-DIBROMOETHANE (EDB)	< 0.5 MCG/L
CHLOROBENZENE	< 0.5 MCG/L
1,1,1,2-TETRACHLOROETHANE	< 0.5 MCG/L
ETHYLBENZENE	< 0.5 MCG/L
M/P-XYLENE	< 0.5 MCG/L
O-XYLENE	< 0.5 MCG/L
STYRENE	< 0.5 MCG/L
ISOPROPYLBENZENE (Cumene)	< 0.5 MCG/L
BROMOFORM	< 0.5 MCG/L
1,1,2,2-TETRACHLOROETHANE	< 0.5 MCG/L
1,2,3-TRICHLOROPROPANE	< 0.5 MCG/L
N-PROPYLBENZENE	< 0.5 MCG/L
BROMOBENZENE	< 0.5 MCG/L
1,3,5-TRIMETHYLBENZENE	< 0.5 MCG/L
O-CHLOROTOLUENE	< 0.5 MCG/L
P-CHLOROTOLUENE	< 0.5 MCG/L
TERT-BUTYLBENZENE	< 0.5 MCG/L
1,2,4-TRIMETHYLBENZENE	< 0.5 MCG/L
SEC-BUTYLBENZENE	< 0.5 MCG/L
4-ISOPROPYLTOLUENE (p-Cymene)	< 0.5 MCG/L
1,3-DICHLOROBENZENE	< 0.5 MCG/L
1,4-DICHLOROBENZENE	< 0.5 MCG/L
N-BUTYLBENZENE	< 0.5 MCG/L
1,2-DICHLOROBENZENE	< 0.5 MCG/L
1,2-DIBROMO-3-CHLOROPROPANE	< 0.5 MCG/L
1,2,4-TRICHLOROBENZENE	< 0.5 MCG/L
HEXACHLOROBUTADIENE (C-46)	< 0.5 MCG/L
NAPHTHALENE	< 0.5 MCG/L
1,2,3-TRICHLOROBENZENE	< 0.5 MCG/L
PH OF VOLATILE ALIQUOT	2

**** ADDITIONAL PARAMETERS ****

ANALYSIS: 10-180 DEC - BUREAU OF MUN. WASTE - I
DATE REPORTED: 95/01/25 REPORT MAILED OUT

PARAMETER	RESULT
NITROGEN, AMMONIA, AS N	0.12 MG/L
NITROGEN, NITRATE (+NO2) AS N	< 0.02 MG/L
CHLORIDE	65.6 MG/L
SULFATE	35.0 MG/L
SOLIDS, TOTAL DISSOLVED, 180 C	297. MG/L
PH	6.76
ALKALINITY TO PH 4.5 (AS CaCO3)	104. MG/L
HARDNESS, TOTAL AS CaCO3	4. MG/L

**** CONTINUED ON NEXT PAGE ****

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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 9580005 SAMPLE RECEIVED: 95/01/05/ CHARGE: 15.22
POLITICAL SUBDIVISION: WOODSTOCK COUNTY: ULSTER
LOCATION: SAUGERTIES LANDFILL
TIME OF SAMPLING: 95/01/04 : DATE PRINTED: 95/01/31

ANALYSIS: ICP-2 ICP GROUPING 2 - TOTAL RECOVERABLE

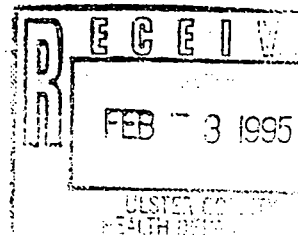
-----PARAMETER-----	-----RESULT-----
MERCURY	< 0.2 MCG/L
ARSENIC, TOTAL RECOVERABLE	< 10. MCG/L
SELENIUM, TOTAL RECOVERABLE	< 5. MCG/L
LEAD, TOTAL RECOVERABLE	< 5. MCG/L
BERYLLIUM, TOTAL RECOVERABLE	< 1. MCG/L
SILVER, TOTAL RECOVERABLE	< 10. MCG/L
BARIUM, TOTAL RECOVERABLE	28. MCG/L
CADMIUM, TOTAL RECOVERABLE	< 3. MCG/L
COBALT, TOTAL RECOVERABLE	< 5. MCG/L
CHROMIUM, TOTAL RECOVERABLE	< 5. MCG/L
COPPER, TOTAL RECOVERABLE	7. MCG/L
IRON, TOTAL RECOVERABLE	605. MCG/L
MANGANESE, TOTAL RECOVERABLE	40. MCG/L
NICKEL, TOTAL RECOVERABLE	< 5. MCG/L
STRONTIUM, TOTAL RECOVERABLE	< 50. MCG/L
TITANIUM, TOTAL RECOVERABLE	< 5. MCG/L
VANADIUM, TOTAL RECOVERABLE	< 5. MCG/L
ZINC, TOTAL RECOVERABLE	< 10. MCG/L
MOLYBDENUM, TOTAL RECOVERABLE	< 20. MCG/L
ANTIMONY, TOTAL RECOVERABLE	< 75. MCG/L
TIN, TOTAL RECOVERABLE	< 50. MCG/L
THALLIUM, TOTAL RECOVERABLE	< 75. MCG/L
ALUMINUM, TOTAL RECOVERABLE	< 30. MCG/L
CALCIUM, TOTAL RECOVERABLE	1.4 MG/L
POTASSIUM, TOTAL RECOVERABLE	0.6 MG/L
MAGNESIUM, TOTAL RECOVERABLE	< 0.5 MG/L
SODIUM, TOTAL RECOVERABLE	100. MG/L

-----PARAMETER-----	-----RESULT-----
SULFIDE	[NA]

**** ADDITIONAL PARAMETERS ****

-----PARAMETER-----	-----RESULT-----
C.O.D.	3.6 MG/L

**** END OF REPORT ****



PAGE 1 RESULTS OF EXAMINATION FINAL REPORT

SAMPLE ID: 9580006 SAMPLE RECEIVED: 95/01/05/ CHARGE: 15.22
PROGRAM: 110: STATE SUPERFUND ANALYTICAL SERVICES
SOURCE ID: DRAINAGE BASIN: 13 GAZETTEER CODE: 5569
POLITICAL SUBDIVISION: WOODSTOCK COUNTY: ULSTER
LATITUDE: LONGITUDE: Z DIRECTION:
LOCATION: SAUGERTIES LANDFILL
DESCRIPTION: ABRAMS, 9 SAWOOD LANE - OUTSIDE TAP
REPORTING LAB: DEDP: DIV. ENVIRONMENTAL DISEASE PREVENTION - ACCESSION LAB
TEST PATTERN: 5022W: VOLATILE ORGANICS IN WATER
SAMPLE TYPE: 120: PRIVATE WATER SUPPLY - DRILLED WELL
TIME OF SAMPLING: 95/01/04 : DATE PRINTED: 95/01/31

<> NO NAOH & ZINC ACETATE PRESERVED BOTTLE SUBMITTED FOR SULFIDE TEST. <>

ANALYSIS: 5022W VOLATILE ORGANICS IN WATER-EPA 502.2 (DES 310-33)
DATE REPORTED: 95/01/18 REPORT MAILED OUT

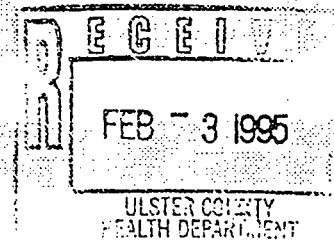
PARAMETER	RESULT
DICHLORODIFLUOROMETHANE (FREON-12)	< 0.5 MCG/L
CHLOROMETHANE	< 0.5 MCG/L
VINYL CHLORIDE	< 0.5 MCG/L
BROMOMETHANE	< 0.5 MCG/L
CHLOROETHANE	< 0.5 MCG/L
TRICHLOROFLUOROMETHANE (FREON-11)	< 0.5 MCG/L
1,1-DICHLOROETHENE	< 0.5 MCG/L
METHYLENE CHLORIDE (DICHLOROMETHANE)	< 0.5 MCG/L
TRANS-1,2-DICHLOROETHENE	< 0.5 MCG/L
1,1-DICHLOROETHANE	0.5 MCG/L [PL]
2,2-DICHLOROPROPANE	< 0.5 MCG/L
CIS-1,2-DICHLOROETHENE	< 0.5 MCG/L
CHLOROFORM	< 0.5 MCG/L
BROMOCHLOROMETHANE	< 0.5 MCG/L
1,1,1-TRICHLOROETHANE	< 0.5 MCG/L
1,1-DICHLOROPROPENE	< 0.5 MCG/L
CARBON TETRACHLORIDE	< 0.5 MCG/L
1,2-DICHLOROETHANE	< 0.5 MCG/L
BENZENE	< 0.5 MCG/L
TRICHLOROETHENE	< 0.5 MCG/L
1,2-DICHLOROPROPANE	< 0.5 MCG/L
BROMODICHLOROMETHANE	< 0.5 MCG/L
DIBROMOMETHANE	< 0.5 MCG/L
CIS-1,3-DICHLOROPROPENE	< 0.5 MCG/L
TOLUENE	< 0.5 MCG/L
TRANS-1,3-DICHLOROPROPENE	< 0.5 MCG/L
1,1,2-TRICHLOROETHANE	< 0.5 MCG/L
1,3-DICHLOROPROPANE	< 0.5 MCG/L

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PAGE 2

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 9580006 SAMPLE RECEIVED: 95/01/05/ CHARGE: 15.22
POLITICAL SUBDIVISION: WOODSTOCK COUNTY: ULSTER
LOCATION: SAUGERTIES LANDFILL
TIME OF SAMPLING: 95/01/04 : DATE PRINTED: 95/01/31

-----PARAMETER-----	-----RESULT-----
TETRACHLOROETHENE	< 0.5 MCG/L
DIBROMOCHLOROMETHANE	< 0.5 MCG/L
1,2-DIBROMOETHANE (EDB)	< 0.5 MCG/L
CHLOROBENZENE	< 0.5 MCG/L
1,1,1,2-TETRACHLOROETHANE	< 0.5 MCG/L
ETHYLBENZENE	< 0.5 MCG/L
M/P-XYLENE	< 0.5 MCG/L
O-XYLENE	< 0.5 MCG/L
STYRENE	< 0.5 MCG/L
ISOPROPYLBENZENE (Cumene)	< 0.5 MCG/L
BROMOFORM	< 0.5 MCG/L
1,1,2,2-TETRACHLOROETHANE	< 0.5 MCG/L
1,2,3-TRICHLOROPROPANE	< 0.5 MCG/L
N-PROPYLBENZENE	< 0.5 MCG/L
BROMOBENZENE	< 0.5 MCG/L
1,3,5-TRIMETHYLBENZENE	< 0.5 MCG/L
O-CHLOROTOLUENE	< 0.5 MCG/L
P-CHLOROTOLUENE	< 0.5 MCG/L
TERT-BUTYLBENZENE	< 0.5 MCG/L
1,2,4-TRIMETHYLBENZENE	< 0.5 MCG/L
SEC-BUTYLBENZENE	< 0.5 MCG/L
4-ISOPROPYLTOLUENE (p-Cymene)	< 0.5 MCG/L
1,3-DICHLOROBENZENE	< 0.5 MCG/L
1,4-DICHLOROBENZENE	< 0.5 MCG/L
N-BUTYLBENZENE	< 0.5 MCG/L
1,2-DICHLOROBENZENE	< 0.5 MCG/L
1,2-DIBROMO-3-CHLOROPROPANE	< 0.5 MCG/L
1,2,4-TRICHLOROBENZENE	< 0.5 MCG/L
HEXACHLOROBUTADIENE (C-46)	< 0.5 MCG/L
NAPHTHALENE	< 0.5 MCG/L
1,2,3-TRICHLOROBENZENE	< 0.5 MCG/L
PH OF VOLATILE ALIQUOT	2

**** ADDITIONAL PARAMETERS ****

ANALYSIS: 10-180 DEC - BUREAU OF MUN. WASTE - I
DATE REPORTED: 95/01/25 REPORT MAILED OUT

-----PARAMETER-----	-----RESULT-----
NITROGEN, AMMONIA, AS N	0.44 MG/L
NITROGEN, NITRATE (+NO2) AS N	0.55 MG/L
CHLORIDE	128. MG/L
SULFATE	30.7 MG/L
SOLIDS, TOTAL DISSOLVED, 180 C	551. MG/L
PH	7.03
ALKALINITY TO PH 4.5 (AS CaCO3)	277. MG/L
HARDNESS, TOTAL AS CaCO3	197. MG/L

**** CONTINUED ON NEXT PAGE ****

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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 9580006 SAMPLE RECEIVED: 95/01/05/ CHARGE: 15.22
POLITICAL SUBDIVISION: WOODSTOCK COUNTY: ULSTER
LOCATION: SAUGERTIES LANDFILL
TIME OF SAMPLING: 95/01/04 : DATE PRINTED: 95/01/31

ANALYSIS: ICP-2 ICP GROUPING 2 - TOTAL RECOVERABLE

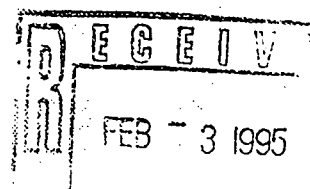
-----PARAMETER-----	-----RESULT-----
MERCURY	< 0.2 MCG/L
ARSENIC, TOTAL RECOVERABLE	< 10. MCG/L
SELENIUM, TOTAL RECOVERABLE	< 5. MCG/L
LEAD, TOTAL RECOVERABLE	9. MCG/L
BERYLLIUM, TOTAL RECOVERABLE	< 1. MCG/L
SILVER, TOTAL RECOVERABLE	< 10. MCG/L
BARIUM, TOTAL RECOVERABLE	345. MCG/L
CADMIUM, TOTAL RECOVERABLE	< 3. MCG/L
COBALT, TOTAL RECOVERABLE	< 5. MCG/L
CHROMIUM, TOTAL RECOVERABLE	< 5. MCG/L
COPPER, TOTAL RECOVERABLE	21. MCG/L
IRON, TOTAL RECOVERABLE	1340. MCG/L
MANGANESE, TOTAL RECOVERABLE	1470. MCG/L
NICKEL, TOTAL RECOVERABLE	< 5. MCG/L
STRONTIUM, TOTAL RECOVERABLE	859. MCG/L
TITANIUM, TOTAL RECOVERABLE	< 5. MCG/L
VANADIUM, TOTAL RECOVERABLE	< 5. MCG/L
ZINC, TOTAL RECOVERABLE	26. MCG/L
MOLYBDENUM, TOTAL RECOVERABLE	< 20. MCG/L
ANTIMONY, TOTAL RECOVERABLE	< 75. MCG/L
TIN, TOTAL RECOVERABLE	< 50. MCG/L
THALLIUM, TOTAL RECOVERABLE	< 75. MCG/L
ALUMINUM, TOTAL RECOVERABLE	< 30. MCG/L
CALCIUM, TOTAL RECOVERABLE	63.3 MG/L
POTASSIUM, TOTAL RECOVERABLE	1.8 MG/L
MAGNESIUM, TOTAL RECOVERABLE	9.4 MG/L
SODIUM, TOTAL RECOVERABLE	106. MG/L

-----PARAMETER-----	-----RESULT-----
SULFIDE	[NA]

**** ADDITIONAL PARAMETERS ****

-----PARAMETER-----	-----RESULT-----
C.O.D.	35. MG/L

**** END OF REPORT ****



PAGE 1

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 9580007 SAMPLE RECEIVED: 95/01/05/ CHARGE: 15.22
PROGRAM: 110: STATE SUPERFUND ANALYTICAL SERVICES
SOURCE ID: DRAINAGE BASIN: 13 GAZETTEER CODE: 5569
POLITICAL SUBDIVISION: WOODSTOCK COUNTY: ULSTER
LATITUDE: LONGITUDE: Z DIRECTION:
LOCATION: SAUGERTIES LANDFILL
DESCRIPTION: ROBERTA ARSENAK, 8 SAWOOD LA, PT TAP
REPORTING LAB: DEOP: DIV. ENVIRONMENTAL DISEASE PREVENTION - ACCESSION LAB
TEST PATTERN: 5022W: VOLATILE ORGANICS IN WATER
SAMPLE TYPE: 120: PRIVATE WATER SUPPLY - DRILLED WELL
TIME OF SAMPLING: 95/01/04 : DATE PRINTED: 95/02/07

<> NO NAOH & ZINC ACETATE PRESERVED BOTTLE SUBMITTED FOR SULFIDE TEST. <>

ANALYSIS: 5022W VOLATILE ORGANICS IN WATER-EPA 502.2 (DES 310-33)
DATE REPORTED: 95/01/18 REPORT MAILED OUT

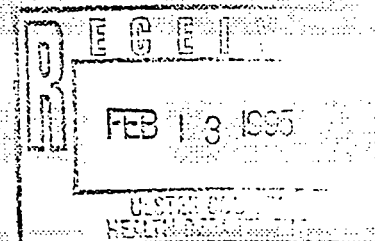
-----PARAMETER-----	-----RESULT-----
DICHLORODIFLUOROMETHANE (FREON-12)	< 0.5 MCG/L
CHLOROMETHANE	< 0.5 MCG/L
VINYL CHLORIDE	< 0.5 MCG/L
BROMOMETHANE	< 0.5 MCG/L
CHLOROETHANE	< 0.5 MCG/L
TRICHLOROFLUOROMETHANE (FREON-11)	< 0.5 MCG/L
1,1-DICHLOROETHENE	< 0.5 MCG/L
METHYLENE CHLORIDE (DICHLOROMETHANE)	< 0.5 MCG/L
TRANS-1,2-DICHLOROETHENE	< 0.5 MCG/L
1,1-DICHLOROETHANE	< 0.5 MCG/L
2,2-DICHLOROPROPANE	< 0.5 MCG/L
CIS-1,2-DICHLOROETHENE	< 0.5 MCG/L
CHLOROFORM	< 0.5 MCG/L
BROMOCHLOROMETHANE	< 0.5 MCG/L
1,1,1-TRICHLOROETHANE	< 0.5 MCG/L
1,1-DICHLOROPROPENE	< 0.5 MCG/L
CARBON TETRACHLORIDE	< 0.5 MCG/L
1,2-DICHLOROETHANE	< 0.5 MCG/L
BENZENE	< 0.5 MCG/L
TRICHLOROETHENE	< 0.5 MCG/L
1,2-DICHLOROPROPANE	< 0.5 MCG/L
BROMODICHLOROMETHANE	< 0.5 MCG/L
DIBROMOMETHANE	< 0.5 MCG/L
CIS-1,3-DICHLOROPROPENE	< 0.5 MCG/L
TOLUENE	< 0.5 MCG/L
TRANS-1,3-DICHLOROPROPENE	< 0.5 MCG/L
1,1,2-TRICHLOROETHANE	< 0.5 MCG/L
1,3-DICHLOROPROPANE	< 0.5 MCG/L

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KINGSTON, N.Y. 12401

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PAGE 2

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 9580007 SAMPLE RECEIVED: 95/01/05/ CHARGE: 15.22
POLITICAL SUBDIVISION: WOODSTOCK COUNTY: ULSTER
LOCATION: SAUGERTIES LANDFILL
TIME OF SAMPLING: 95/01/04 : DATE PRINTED: 95/02/07

-----PARAMETER-----	-----RESULT-----
TETRACHLOROETHENE	< 0.5 MCG/L
DIBROMOCHLOROMETHANE	< 0.5 MCG/L
1,2-DIBROMOETHANE (EDB)	< 0.5 MCG/L
CHLOROBENZENE	< 0.5 MCG/L
1,1,1,2-TETRACHLOROETHANE	< 0.5 MCG/L
ETHYLBENZENE	< 0.5 MCG/L
M/P-XYLENE	< 0.5 MCG/L
O-XYLENE	< 0.5 MCG/L
STYRENE	< 0.5 MCG/L
ISOPROPYLBENZENE (Cumene)	< 0.5 MCG/L
BROMOFORM	< 0.5 MCG/L
1,1,2,2-TETRACHLOROETHANE	< 0.5 MCG/L
1,2,3-TRICHLOROPROPANE	< 0.5 MCG/L
N-PROPYLBENZENE	< 0.5 MCG/L
BROMOBENZENE	< 0.5 MCG/L
1,3,5-TRIMETHYLBENZENE	< 0.5 MCG/L
O-CHLOROTOLUENE	< 0.5 MCG/L
P-CHLOROTOLUENE	< 0.5 MCG/L
TERT-BUTYLBENZENE	< 0.5 MCG/L
1,2,4-TRIMETHYLBENZENE	< 0.5 MCG/L
SEC-BUTYLBENZENE	< 0.5 MCG/L
4-ISOPROPYLTOLUENE (p-Cymene)	< 0.5 MCG/L
1,3-DICHLOROBENZENE	< 0.5 MCG/L
1,4-DICHLOROBENZENE	< 0.5 MCG/L
N-BUTYLBENZENE	< 0.5 MCG/L
1,2-DICHLOROBENZENE	< 0.5 MCG/L
1,2-DIBROMO-3-CHLOROPROPANE	< 0.5 MCG/L
1,2,4-TRICHLOROBENZENE	< 0.5 MCG/L
HEXACHLOROBUTADIENE (C-46)	< 0.5 MCG/L
NAPHTHALENE	< 0.5 MCG/L
1,2,3-TRICHLOROBENZENE	< 0.5 MCG/L
PH OF VOLATILE ALIQUOT	2

**** ADDITIONAL PARAMETERS ****

-----PARAMETER-----	-----RESULT-----
SULFIDE	[NA]

ANALYSIS: 10-180 DEC - BUREAU OF MUN. WASTE - I
DATE PRINTED: 95/02/07 FINAL REPORT

-----PARAMETER-----	-----RESULT-----
NITROGEN, AMMONIA, AS N	0.023 MG/L
NITROGEN, NITRATE (+NO2) AS N	0.78 MG/L
CHLORIDE	52.2 MG/L
SULFATE	24.6 MG/L
SOLIDS, TOTAL DISSOLVED, 180 C	178. MG/L
PH	6.79

**** CONTINUED ON NEXT PAGE ****

PAGE 3

RESULTS OF EXAMINATION

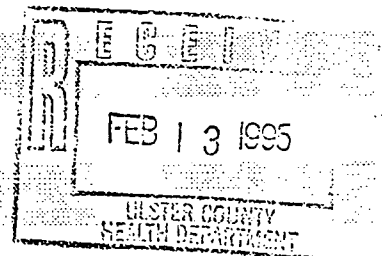
FINAL REPORT

SAMPLE ID: 9580007 SAMPLE RECEIVED: 95/01/05/ CHARGE: 15.22
POLITICAL SUBDIVISION: WOODSTOCK COUNTY: ULSTER
LOCATION: SAUGERTIES LANDFILL
TIME OF SAMPLING: 95/01/04 : DATE PRINTED: 95/02/07

-----PARAMETER-----	-----RESULT-----
ALKALINITY TO PH 4.5 (AS CAC03)	54. MG/L
HARDNESS, TOTAL AS CAC03	70. MG/L

ANALYSIS: ICP-2 ICP GROUPING 2 - TOTAL RECOVERABLE

-----PARAMETER-----	-----RESULT-----
MERCURY	< 0.2 MCG/L
ARSENIC, TOTAL RECOVERABLE	< 10. MCG/L
SELENIUM, TOTAL RECOVERABLE	< 5. MCG/L
LEAD, TOTAL RECOVERABLE	< 5. MCG/L
BERYLLIUM, TOTAL RECOVERABLE	< 1. MCG/L
SILVER, TOTAL RECOVERABLE	< 10. MCG/L
BARIUM, TOTAL RECOVERABLE	31. MCG/L
CADMIUM, TOTAL RECOVERABLE	< 3. MCG/L
COBALT, TOTAL RECOVERABLE	< 5. MCG/L
CHROMIUM, TOTAL RECOVERABLE	< 5. MCG/L
COPPER, TOTAL RECOVERABLE	66. MCG/L
IRON, TOTAL RECOVERABLE	23. MCG/L
MANGANESE, TOTAL RECOVERABLE	< 5. MCG/L
NICKEL, TOTAL RECOVERABLE	< 5. MCG/L
STRONTIUM, TOTAL RECOVERABLE	107. MCG/L
TITANIUM, TOTAL RECOVERABLE	< 5. MCG/L
VANADIUM, TOTAL RECOVERABLE	< 5. MCG/L
ZINC, TOTAL RECOVERABLE	14. MCG/L
MOLYBDENUM, TOTAL RECOVERABLE	< 20. MCG/L
ANTIMONY, TOTAL RECOVERABLE	< 75. MCG/L
TIN, TOTAL RECOVERABLE	< 50. MCG/L
THALLIUM, TOTAL RECOVERABLE	< 75. MCG/L
ALUMINUM, TOTAL RECOVERABLE	< 30. MCG/L
CALCIUM, TOTAL RECOVERABLE	20.1 MG/L
POTASSIUM, TOTAL RECOVERABLE	1.0 MG/L
MAGNESIUM, TOTAL RECOVERABLE	4.7 MG/L
SODIUM, TOTAL RECOVERABLE	34.8 MG/L



*** ADDITIONAL PARAMETERS ***

-----PARAMETER-----	-----RESULT-----
C.O.D.	7.1 MG/L

**** END OF REPORT ****

RESULTS OF EXAMINATION

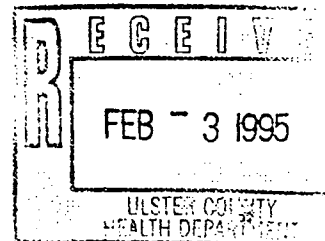
FINAL REPORT

9580002 SAMPLE RECEIVED: 95/01/05/ CHARGE: 13.57
110: STATE SUPERFUND ANALYTICAL SERVICES
ID: DRAINAGE BASIN: 13 GAZETTEER CODE: 5569
TICAL SUBDIVISION: WOODSTOCK COUNTY: ULSTER
ITUDE: LONGITUDE: Z DIRECTION:
LOCATION: SAUGERTIES LANDFILL
DESCRIPTION: LERNER 12 SAWWOOD IN WOODSTOCK POST-SOFTNER
REPORTING LAB: DEDP: DIV. ENVIRONMENTAL DISEASE PREVENTION - ACCESSION LAB
TEST PATTERN: 5022W: VOLATILE ORGANICS IN WATER
SAMPLE TYPE: 120: PRIVATE WATER SUPPLY - DRILLED WELL
TIME OF SAMPLING: 94/01/04 07:50 DATE PRINTED: 95/01/31

ANALYSIS: 5022W VOLATILE ORGANICS IN WATER-EPA 502.2 (DES 310-33)
DATE REPORTED: 95/01/18 REPORT MAILED OUT

-----PARAMETER-----	-----RESULT-----
DICHLORODIFLUOROMETHANE (FREON-12)	< 0.5 MCG/L
CHLOROMETHANE	< 0.5 MCG/L
VINYL CHLORIDE	< 0.5 MCG/L
BROMOMETHANE	< 0.5 MCG/L
CHLOROETHANE	< 0.5 MCG/L
TRICHLOROFUOROMETHANE (FREON-11)	< 0.5 MCG/L
1,1-DICHLOROETHENE	< 0.5 MCG/L
METHYLENE CHLORIDE (DICHLOROMETHANE)	< 0.5 MCG/L
TRANS-1,2-DICHLOROETHENE	< 0.5 MCG/L
1,1-DICHLOROETHANE	< 0.5 MCG/L
2,2-DICHLOROPROPANE	< 0.5 MCG/L
CIS-1,2-DICHLOROETHENE	< 0.5 MCG/L
CHLOROFORM	< 0.5 MCG/L
BROMOCHLOROMETHANE	< 0.5 MCG/L
1,1,1-TRICHLOROETHANE	< 0.5 MCG/L
1,1-DICHLOROPROPENE	< 0.5 MCG/L
CARBON TETRACHLORIDE	< 0.5 MCG/L
1,2-DICHLOROETHANE	< 0.5 MCG/L
BENZENE	< 0.5 MCG/L
TRICHLOROETHENE	< 0.5 MCG/L
1,2-DICHLOROPROPANE	< 0.5 MCG/L
BROMODICHLOROMETHANE	< 0.5 MCG/L
DIBROMOMETHANE	< 0.5 MCG/L
CIS-1,3-DICHLOROPROPENE	< 0.5 MCG/L
TOLUENE	< 0.5 MCG/L
TRANS-1,3-DICHLOROPROPENE	< 0.5 MCG/L
1,1,2-TRICHLOROETHANE	< 0.5 MCG/L
1,3-DICHLOROPROPANE	< 0.5 MCG/L
TETRACHLOROETHENE	< 0.5 MCG/L
DIBROMOCHLOROMETHANE	< 0.5 MCG/L

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DIRECTOR OF ENVIRONMENTAL SANITATION
ULSTER COUNTY HEALTH DEPT.
300 FLATBUSH AVE.
KINGSTON, N.Y. 12401

SUBMITTED BY: MAPSTONE

RESULTS OF EXAMINATION

FINAL REPORT

9580002

SAMPLE RECEIVED: 95/01/05/

CHARGE: 13.57

SUBDIVISION: WOODSTOCK

COUNTY: ULSTER

LOCATION: SAUGERTIES LANDFILL

DATE OF SAMPLING: 94/01/04 07:50

DATE PRINTED: 95/01/31

PARAMETER	RESULT
1,2-DIBROMOETHANE (EDB)	< 0.5 MCG/L
CHLOROBENZENE	< 0.5 MCG/L
1,1,1,2-TETRACHLOROETHANE	< 0.5 MCG/L
ETHYLBENZENE	< 0.5 MCG/L
M,P-XYLENE	< 0.5 MCG/L
O-XYLENE	< 0.5 MCG/L
STYRENE	< 0.5 MCG/L
ISOPROPYLBENZENE (Cumene)	< 0.5 MCG/L
BROMOFORM	< 0.5 MCG/L
1,1,2,2-TETRACHLOROETHANE	< 0.5 MCG/L
1,2,3-TRICHLOROPROPANE	< 0.5 MCG/L
N-PROPYLBENZENE	< 0.5 MCG/L
BROMOBENZENE	< 0.5 MCG/L
1,3,5-TRIMETHYLBENZENE	< 0.5 MCG/L
O-CHLOROTOLUENE	< 0.5 MCG/L
P-CHLOROTOLUENE	< 0.5 MCG/L
TERT-BUTYLBENZENE	< 0.5 MCG/L
1,2,4-TRIMETHYLBENZENE	< 0.5 MCG/L
SEC-BUTYLBENZENE	< 0.5 MCG/L
4-ISOPROPYLTOLUENE (p-Cymene)	< 0.5 MCG/L
1,3-DICHLOROBENZENE	< 0.5 MCG/L
1,4-DICHLOROBENZENE	< 0.5 MCG/L
N-BUTYLBENZENE	< 0.5 MCG/L
1,2-DICHLOROBENZENE	< 0.5 MCG/L
1,2-DIBROMO-3-CHLOROPROPANE	< 0.5 MCG/L
1,2,4-TRICHLOROBENZENE	< 0.5 MCG/L
HEXACHLOROBUTADIENE (C-46)	< 0.5 MCG/L
NAPHTHALENE	< 0.5 MCG/L
1,2,3-TRICHLOROBENZENE	< 0.5 MCG/L
PH OF VOLATILE ALIQUOT	2

**** ADDITIONAL PARAMETERS ****

ANALYSIS: ICP-2 ICP GROUPING 2 - TOTAL RECOVERABLE

PARAMETER	RESULT
MERCURY	< 0.2 MCG/L
ARSENIC, TOTAL RECOVERABLE	14. MCG/L
SELENIUM, TOTAL RECOVERABLE	< 5. MCG/L
LEAD, TOTAL RECOVERABLE	< 5. MCG/L
BERYLLIUM, TOTAL RECOVERABLE	< 1. MCG/L
SILVER, TOTAL RECOVERABLE	< 10. MCG/L
BARIUM, TOTAL RECOVERABLE	24. MCG/L
CADMIUM, TOTAL RECOVERABLE	< 3. MCG/L
COBALT, TOTAL RECOVERABLE	< 5. MCG/L
CHROMIUM, TOTAL RECOVERABLE	< 5. MCG/L
COPPER, TOTAL RECOVERABLE	6. MCG/L
IRON, TOTAL RECOVERABLE	149. MCG/L

**** CONTINUED ON NEXT PAGE ****

RESULTS OF EXAMINATION

FINAL REPORT

9580002
LOCAL SUBDIVISION: WOODSTOCK
LOCATION: SAUGERTIES LANDFILL
DATE OF SAMPLING: 94/01/04 07:50

SAMPLE RECEIVED: 95/01/05/

CHARGE: 13.57

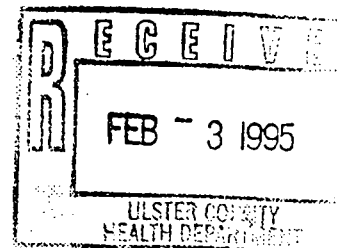
COUNTY: ULSTER

DATE PRINTED: 95/01/31

-----PARAMETER-----	-----RESULT-----
MANGANESE, TOTAL RECOVERABLE	474. MCG/L
NICKEL, TOTAL RECOVERABLE	7. MCG/L
STRONTIUM, TOTAL RECOVERABLE	< 50. MCG/L
TITANIUM, TOTAL RECOVERABLE	< 5. MCG/L
VANADIUM, TOTAL RECOVERABLE	< 5. MCG/L
ZINC, TOTAL RECOVERABLE	< 10. MCG/L
MOLYBDENUM, TOTAL RECOVERABLE	< 20. MCG/L
ANTIMONY, TOTAL RECOVERABLE	< 75. MCG/L
TIN, TOTAL RECOVERABLE	< 50. MCG/L
THALLIUM, TOTAL RECOVERABLE	< 75. MCG/L
ALUMINUM, TOTAL RECOVERABLE	< 30. MCG/L
CALCIUM, TOTAL RECOVERABLE	5.5 MG/L
POTASSIUM, TOTAL RECOVERABLE	2.3 MG/L
MAGNESIUM, TOTAL RECOVERABLE	1.0 MG/L
SODIUM, TOTAL RECOVERABLE	216. MG/L

-----PARAMETER-----	-----RESULT-----
CHLORIDE	159. MG/L
ALKALINITY TO PH 4.5 (AS CaCO3)	286. MG/L
PH	6.85

**** END OF REPORT ****



PAGE 1

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 9580001 SAMPLE RECEIVED: 95/01/05/ CHARGE: 15.22
PROGRAM: 110: STATE SUPERFUND ANALYTICAL SERVICES
SOURCE ID: DRAINAGE BASIN: 13 GAZETTEER CODE: 5569
POLITICAL SUBDIVISION: WOODSTOCK COUNTY: ULSTER
LATITUDE: LONGITUDE: Z DIRECTION:
LOCATION: SAUGERTIES LANDFILL
DESCRIPTION: ~~BERNIE~~ 12 SAWWOOD IN WOODSTOCK - PRE-SOFTNER UTIL TAP
REPORTING LAB: DEDP: DIV. ENVIRONMENTAL DISEASE PREVENTION - ACCESSION LAB
TEST PATTERN: 5022W: VOLATILE ORGANICS IN WATER
SAMPLE TYPE: 120: PRIVATE WATER SUPPLY - DRILLED WELL
TIME OF SAMPLING: 95/01/05 07:45 DATE PRINTED: 95/01/31

<> NO NAOH AND ZINC ACETATE PRESERVED BOTTLE SUBMITTED FOR SULFIDE TEST. <>

ANALYSIS: 5022W VOLATILE ORGANICS IN WATER-EPA 502.2 (DES 310-33)
DATE REPORTED: 95/01/19 REPORT MAILED OUT

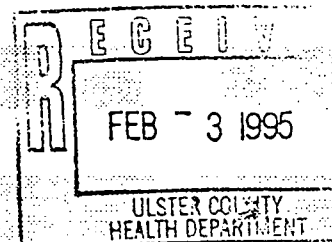
-----PARAMETER-----	-----RESULT-----
DICHLORODIFLUOROMETHANE (FREON-12)	< 0.5 MCG/L
CHLOROMETHANE	< 0.5 MCG/L
VINYL CHLORIDE	< 0.5 MCG/L
BROMOMETHANE	< 0.5 MCG/L
CHLOROETHANE	< 0.5 MCG/L
TRICHLOROFLUOROMETHANE (FREON-11)	< 0.5 MCG/L
1,1-DICHLOROETHENE	< 0.5 MCG/L
METHYLENE CHLORIDE (DICHLOROMETHANE)	< 0.5 MCG/L
TRANS-1,2-DICHLOROETHENE	< 0.5 MCG/L
1,1-DICHLOROETHANE	0.5 MCG/L [PL]
2,2-DICHLOROPROPANE	< 0.5 MCG/L
CIS-1,2-DICHLOROETHENE	< 0.5 MCG/L
CHLOROFORM	< 0.5 MCG/L
BROMOCHLOROMETHANE	< 0.5 MCG/L
1,1,1-TRICHLOROETHANE	< 0.5 MCG/L
1,1-DICHLOROPROPENE	< 0.5 MCG/L
CARBON TETRACHLORIDE	< 0.5 MCG/L
1,2-DICHLOROETHANE	< 0.5 MCG/L
BENZENE	< 0.5 MCG/L
TRICHLOROETHENE	< 0.5 MCG/L
1,2-DICHLOROPROPANE	< 0.5 MCG/L
BROMODICHLOROMETHANE	< 0.5 MCG/L
DIBROMOMETHANE	< 0.5 MCG/L
CIS-1,3-DICHLOROPROPENE	< 0.5 MCG/L
TOLUENE	< 0.5 MCG/L
TRANS-1,3-DICHLOROPROPENE	< 0.5 MCG/L
1,1,2-TRICHLOROETHANE	< 0.5 MCG/L
1,3-DICHLOROPROPANE	< 0.5 MCG/L

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ULSTER COUNTY HEALTH DEPT.
300 FLATBUSH AVE.
KINGSTON, N.Y. 12401

SUBMITTED BY: MAPSTONE



PAGE 2

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 9580001 SAMPLE RECEIVED: 95/01/05/ CHARGE: 15.22
POLITICAL SUBDIVISION: WOODSTOCK COUNTY: ULSTER
LOCATION: SAUGERTIES LANDFILL
TIME OF SAMPLING: 95/01/05 07:45 DATE PRINTED: 95/01/31

-----PARAMETER-----	-----RESULT-----
TETRACHLOROETHENE	< 0.5 MCG/L
DIBROMOCHLOROMETHANE	< 0.5 MCG/L
1,2-DIBROMOETHANE (EDB)	< 0.5 MCG/L
CHLOROBENZENE	0.6 MCG/L
1,1,1,2-TETRACHLOROETHANE	< 0.5 MCG/L
ETHYLBENZENE	< 0.5 MCG/L
M/P-XYLENE	< 0.5 MCG/L
O-XYLENE	< 0.5 MCG/L
STYRENE	< 0.5 MCG/L
ISOPROPYLBENZENE (Cumene)	< 0.5 MCG/L
BROMOFORM	< 0.5 MCG/L
1,1,2,2-TETRACHLOROETHANE	< 0.5 MCG/L
1,2,3-TRICHLOROPROPANE	< 0.5 MCG/L
N-PROPYLBENZENE	< 0.5 MCG/L
BROMOBENZENE	< 0.5 MCG/L
1,3,5-TRIMETHYLBENZENE	< 0.5 MCG/L
O-CHLOROTOLUENE	< 0.5 MCG/L
P-CHLOROTOLUENE	< 0.5 MCG/L
TERT-BUTYLBENZENE	< 0.5 MCG/L
1,2,4-TRIMETHYLBENZENE	< 0.5 MCG/L
SEC-BUTYLBENZENE	< 0.5 MCG/L
4-ISOPROPYLTOLUENE (p-Cymene)	< 0.5 MCG/L
1,3-DICHLOROBENZENE	< 0.5 MCG/L
1,4-DICHLOROBENZENE	< 0.5 MCG/L
N-BUTYLBENZENE	< 0.5 MCG/L
1,2-DICHLOROBENZENE	< 0.5 MCG/L
1,2-DIBROMO-3-CHLOROPROPANE	< 0.5 MCG/L
1,2,4-TRICHLOROBENZENE	< 0.5 MCG/L
HEXACHLOROBUTADIENE (C-46)	< 0.5 MCG/L
NAPHTHALENE	< 0.5 MCG/L
1,2,3-TRICHLOROBENZENE	< 0.5 MCG/L
PH OF VOLATILE ALIQUOT	2

**** ADDITIONAL PARAMETERS ****

ANALYSIS: 10-180 DEC - BUREAU OF MUN. WASTE - I
DATE REPORTED: 95/01/25 REPORT MAILED OUT

-----PARAMETER-----	-----RESULT-----
NITROGEN, AMMONIA, AS N	2.71 MG/L
NITROGEN, NITRATE (+NO2) AS N	< 0.02 MG/L
CHLORIDE	160. MG/L
SULFATE	39.4 MG/L
SOLIDS, TOTAL DISSOLVED, 180 C	627. MG/L
PH	6.78
ALKALINITY TO PH 4.5 (AS CaCO3)	286. MG/L
HARDNESS, TOTAL AS CaCO3	323. MG/L

**** CONTINUED ON NEXT PAGE ****

PAGE 3

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 9580001 SAMPLE RECEIVED: 95/01/05/ CHARGE: 15.22
POLITICAL SUBDIVISION: WOODSTOCK COUNTY: ULSTER
LOCATION: SAUGERTIES LANDFILL
TIME OF SAMPLING: 95/01/05 07:45 DATE PRINTED: 95/01/31

ANALYSIS: ICP-2 ICP GROUPING 2 - TOTAL RECOVERABLE

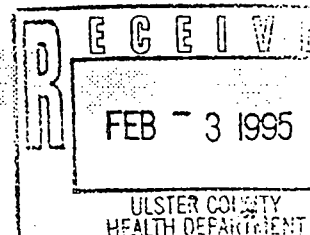
-----PARAMETER-----	-----RESULT-----
MERCURY	< 0.2 MCG/L
ARSENIC, TOTAL RECOVERABLE	41. MCG/L
SELENIUM, TOTAL RECOVERABLE	< 5. MCG/L
LEAD, TOTAL RECOVERABLE	6. MCG/L
BERYLLIUM, TOTAL RECOVERABLE	< 1. MCG/L
SILVER, TOTAL RECOVERABLE	< 10. MCG/L
BARIUM, TOTAL RECOVERABLE	480. MCG/L
CADMIUM, TOTAL RECOVERABLE	< 3. MCG/L
COBALT, TOTAL RECOVERABLE	< 5. MCG/L
CHROMIUM, TOTAL RECOVERABLE	< 5. MCG/L
COPPER, TOTAL RECOVERABLE	14. MCG/L
IRON, TOTAL RECOVERABLE	2080. MCG/L
MANGANESE, TOTAL RECOVERABLE	8190. MCG/L
NICKEL, TOTAL RECOVERABLE	7. MCG/L
STRONTIUM, TOTAL RECOVERABLE	769. MCG/L
TITANIUM, TOTAL RECOVERABLE	< 5. MCG/L
VANADIUM, TOTAL RECOVERABLE	< 5. MCG/L
ZINC, TOTAL RECOVERABLE	13. MCG/L
MOLYBDENUM, TOTAL RECOVERABLE	< 20. MCG/L
ANTIMONY, TOTAL RECOVERABLE	< 75. MCG/L
TIN, TOTAL RECOVERABLE	< 50. MCG/L
THALLIUM, TOTAL RECOVERABLE	< 75. MCG/L
ALUMINUM, TOTAL RECOVERABLE	< 30. MCG/L
CALCIUM, TOTAL RECOVERABLE	103. MG/L
POTASSIUM, TOTAL RECOVERABLE	3.5 MG/L
MAGNESIUM, TOTAL RECOVERABLE	15.8 MG/L
SODIUM, TOTAL RECOVERABLE	60.1 MG/L

-----PARAMETER-----	-----RESULT-----
SULFIDE	[NA]

**** ADDITIONAL PARAMETERS ****

-----PARAMETER-----	-----RESULT-----
C.O.D.	29. MG/L

**** END OF REPORT ****



PAGE 1

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 9580008 SAMPLE RECEIVED: 95/01/05/ CHARGE: 15.22
PROGRAM: 110: STATE SUPERFUND ANALYTICAL SERVICES
SOURCE ID: DRAINAGE BASIN: 13 GAZETTEER CODE: 5569
POLITICAL SUBDIVISION: WOODSTOCK COUNTY: ULSTER
LATITUDE: LONGITUDE: Z DIRECTION:
LOCATION: SAUGERTIES LANDFILL
DESCRIPTION: MULLEN, 6 SAWOOD LA, KITCHEN TAP
REPORTING LAB: DEDP: DIV. ENVIRONMENTAL DISEASE PREVENTION - ACCESSION LAB
TEST PATTERN: 5022W: VOLATILE ORGANICS IN WATER
SAMPLE TYPE: 120: PRIVATE WATER SUPPLY - DRILLED WELL
TIME OF SAMPLING: 95/01/04 : DATE PRINTED: 95/02/07

<> NO NAOH & ZINC ACETATE PRESERVED BOTTLE SUBMITTED FOR SULFIDE TEST. <>

ANALYSIS: 5022W VOLATILE ORGANICS IN WATER-EPA 502.2 (DES 310-33)
DATE REPORTED: 95/01/18 REPORT MAILED OUT

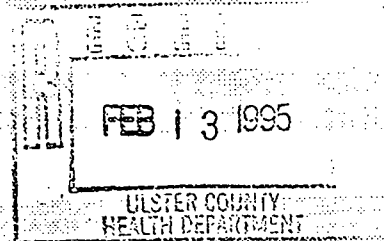
PARAMETER	RESULT
DICHLORODIFLUOROMETHANE (FREON-12)	< 0.5 MCG/L
CHLOROMETHANE	< 0.5 MCG/L
VINYL CHLORIDE	< 0.5 MCG/L
BROMOMETHANE	< 0.5 MCG/L
CHLOROETHANE	< 0.5 MCG/L
TRICHLOROFLUOROMETHANE (FREON-11)	< 0.5 MCG/L
1,1-DICHLOROETHENE	< 0.5 MCG/L
METHYLENE CHLORIDE (DICHLOROMETHANE)	< 0.5 MCG/L
TRANS-1,2-DICHLOROETHENE	< 0.5 MCG/L
1,1-DICHLOROETHANE	< 0.5 MCG/L
2,2-DICHLOROPROPANE	< 0.5 MCG/L
CIS-1,2-DICHLOROETHENE	< 0.5 MCG/L
CHLOROFORM	< 0.5 MCG/L
BROMOCHLOROMETHANE	< 0.5 MCG/L
1,1,1-TRICHLOROETHANE	< 0.5 MCG/L
1,1-DICHLOROPROPENE	< 0.5 MCG/L
CARBON TETRACHLORIDE	< 0.5 MCG/L
1,2-DICHLOROETHANE	< 0.5 MCG/L
BENZENE	< 0.5 MCG/L
TRICHLOROETHENE	< 0.5 MCG/L
1,2-DICHLOROPROPANE	< 0.5 MCG/L
BROMODICHLOROMETHANE	< 0.5 MCG/L
DIBROMOMETHANE	< 0.5 MCG/L
CIS-1,3-DICHLOROPROPENE	< 0.5 MCG/L
TOLUENE	< 0.5 MCG/L
TRANS-1,3-DICHLOROPROPENE	< 0.5 MCG/L
1,1,2-TRICHLOROETHANE	< 0.5 MCG/L
1,3-DICHLOROPROPANE	< 0.5 MCG/L

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ULSTER COUNTY HEALTH DEPT.
300 FLATBUSH AVE.
KINGSTON, N.Y. 12401

SUBMITTED BY: KNUDSEN



PAGE 2

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 9580008 SAMPLE RECEIVED: 95/01/05/ CHARGE: 15.22
POLITICAL SUBDIVISION: WOODSTOCK COUNTY: ULSTER
LOCATION: SAUGERTIES LANDFILL
TIME OF SAMPLING: 95/01/04 : DATE PRINTED: 95/02/07

-----PARAMETER-----	-----RESULT-----
TETRACHLOROETHENE	< 0.5 MCG/L
DIBROMOCHLOROMETHANE	< 0.5 MCG/L
1,2-DIBROMOETHANE (EDB)	< 0.5 MCG/L
CHLOROBENZENE	< 0.5 MCG/L
1,1,1,2-TETRACHLOROETHANE	< 0.5 MCG/L
ETHYLBENZENE	< 0.5 MCG/L
M/P-XYLENE	< 0.5 MCG/L
O-XYLENE	< 0.5 MCG/L
STYRENE	< 0.5 MCG/L
ISOPROPYLBENZENE (Cumene)	< 0.5 MCG/L
BROMOFORM	< 0.5 MCG/L
1,1,2,2-TETRACHLOROETHANE	< 0.5 MCG/L
1,2,3-TRICHLOROPROPANE	< 0.5 MCG/L
N-PROPYLBENZENE	< 0.5 MCG/L
BROMOBENZENE	< 0.5 MCG/L
1,3,5-TRIMETHYLBENZENE	< 0.5 MCG/L
O-CHLOROTOLUENE	< 0.5 MCG/L
P-CHLOROTOLUENE	< 0.5 MCG/L
TERT-BUTYLBENZENE	< 0.5 MCG/L
1,2,4-TRIMETHYLBENZENE	< 0.5 MCG/L
SEC-BUTYLBENZENE	< 0.5 MCG/L
4-ISOPROPYLTOLUENE (p-Cymene)	< 0.5 MCG/L
1,3-DICHLOROBENZENE	< 0.5 MCG/L
1,4-DICHLOROBENZENE	< 0.5 MCG/L
N-BUTYLBENZENE	< 0.5 MCG/L
1,2-DICHLOROBENZENE	< 0.5 MCG/L
1,2-DIBROMO-3-CHLOROPROPANE	< 0.5 MCG/L
1,2,4-TRICHLOROBENZENE	< 0.5 MCG/L
HEXACHLOROBUTADIENE (C-46)	< 0.5 MCG/L
NAPHTHALENE	< 0.5 MCG/L
1,2,3-TRICHLOROBENZENE	< 0.5 MCG/L
PH OF VOLATILE ALIQUOT	2

**** ADDITIONAL PARAMETERS ****

-----PARAMETER-----	-----RESULT-----
SULFIDE	[NA]

ANALYSIS: 10-180 DEC - BUREAU OF MUN. WASTE - 1
DATE PRINTED: 95/02/07 FINAL REPORT

-----PARAMETER-----	-----RESULT-----
NITROGEN, AMMONIA, AS N	0.050 MG/L
NITROGEN, NITRATE (+NO2) AS N	0.41 MG/L
CHLORIDE	98.8 MG/L
SULFATE	26.0 MG/L
SOLIDS, TOTAL DISSOLVED, 180 C	351. MG/L
PH	6.74

**** CONTINUED ON NEXT PAGE ****

PAGE 3

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 9580008 SAMPLE RECEIVED: 95/01/05/ CHARGE: 15.22
POLITICAL SUBDIVISION: WOODSTOCK COUNTY: ULSTER
LOCATION: SAUGERTIES LANDFILL
TIME OF SAMPLING: 95/01/04 : DATE PRINTED: 95/02/07

-----PARAMETER-----

-----RESULT-----

ALKALINITY TO PH 4.5 (AS CACO3)
HARDNESS, TOTAL AS CACO3

156. MG/L
154. MG/L

ANALYSIS: ICP-2 ICP GROUPING 2 - TOTAL RECOVERABLE

-----PARAMETER-----

-----RESULT-----

MERCURY
ARSENIC, TOTAL RECOVERABLE
SELENIUM, TOTAL RECOVERABLE
LEAD, TOTAL RECOVERABLE
BERYLLIUM, TOTAL RECOVERABLE
SILVER, TOTAL RECOVERABLE
BARIUM, TOTAL RECOVERABLE
CADMIUM, TOTAL RECOVERABLE
COBALT, TOTAL RECOVERABLE
CHROMIUM, TOTAL RECOVERABLE
COPPER, TOTAL RECOVERABLE
IRON, TOTAL RECOVERABLE
MANGANESE, TOTAL RECOVERABLE
NICKEL, TOTAL RECOVERABLE
STRONTIUM, TOTAL RECOVERABLE
TITANIUM, TOTAL RECOVERABLE
VANADIUM, TOTAL RECOVERABLE
ZINC, TOTAL RECOVERABLE
MOLYBDENUM, TOTAL RECOVERABLE
ANTIMONY, TOTAL RECOVERABLE
TIN, TOTAL RECOVERABLE
THALLIUM, TOTAL RECOVERABLE
ALUMINUM, TOTAL RECOVERABLE
CALCIUM, TOTAL RECOVERABLE
POTASSIUM, TOTAL RECOVERABLE
MAGNESIUM, TOTAL RECOVERABLE
SODIUM, TOTAL RECOVERABLE

< 0.2 MCG/L
< 10. MCG/L
< 5. MCG/L
< 5. MCG/L
< 1. MCG/L
< 10. MCG/L
158. MCG/L
< 3. MCG/L
< 5. MCG/L
< 5. MCG/L
35. MCG/L
< 10. MCG/L
357. MCG/L
< 5. MCG/L
774. MCG/L
< 5. MCG/L
< 5. MCG/L
989. MCG/L
< 20. MCG/L
< 75. MCG/L
< 50. MCG/L
< 75. MCG/L
< 30. MCG/L
48.1 MG/L
1.1 MG/L
8.3 MG/L
62.7 MG/L

*** ADDITIONAL PARAMETERS ***

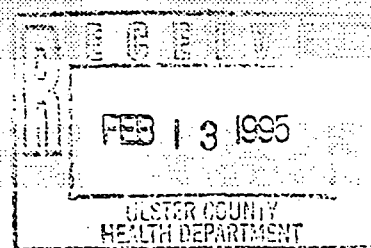
-----PARAMETER-----

-----RESULT-----

C.O.D.

9.5 MG/L

*** END OF REPORT ***





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& ASSOCIATES**

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