

Tom ^{TR}
Mark —
Hew is response
coming on the
site. We
owe them!
3/3/00 J

NEW YORK STATE DEPARTMENT OF HEALTH

*Semi-Annual Ground Water Monitoring Report
Seventh Year, Second Half*

28 January 2000

Prepared for:

New York State Department of Health
P.O. Box 509
Empire State Plaza
Albany, New York 12201-0509

Prepared by:

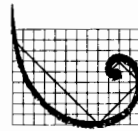
ERM-ENVIROCLEAN NORTHEAST, INC.
421 New Karner Road
Albany, New York 12205



28 January 2000

FF 4

Dr. John Matuszek
New York State Department of Health
P.O. Box 509
Empire State Plaza
Albany, New York 12201-0509



EnviroClean

RE: Semi-Annual Ground Water Monitoring Report
Seventh Year, Second Half
NYSDOH Restoration Project
Axelrod Institute
New Scotland Avenue
Albany, New York
NYSDEC ID No. 401031
ERM-EnviroClean Project No. 190.001

Dear Dr. Matuszek:

The Agreement for Professional Engineering Services between the New York State Department of Health (NYSDOH) and Environmental Resources Management, Inc. (ERM), dated 19 January 1993 requires that the Engineer submit a Summary Report with each Ground Water Monitoring Event performed at the NYSDOH Restoration Site (the Site). This ground water monitoring report presents the results of the Sixth Year, First Half (25 June 1999) sampling event.

Based on the Order on Consent (Index #A4-0304-93-07) between the NYSDOH and the NYSDEC, the Ground Water Monitoring Report is to be submitted within an agreed upon time from the receipt of validated data by the three parties. Enclosed as requested are three Final copies of the Sixth Year, First Half Ground Water Monitoring Report for your files. One copy of this Final Report has also been mailed to the NYSDEC office on 28 January 1999.

A written summation of field and analytical procedures has not been provided in this report because these methods and modes have previously been presented in numerous prior reports, most recently in December 1995. Analyses of data and conclusions drawn from these analyses do not differ significantly from those presented in previous reports. Should you have any further questions or require additional information, please feel free to contact me at 452-1429.

Dr. John Matuszek
28 January 2000
EnviroClean Project No. 190.001
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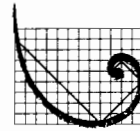
421 New Karner Road
Albany, NY 12205
(518) 452-4291
(518) 452-4295 (Fax)

Sincerely yours,



Thomas K. Elmendorf
Regional Manager, EnviroClean-Northeast

c.c. Mr. Gerald Rider, NYSDEC



EnviroClean



**DATA VALIDATION REVIEW OF
GROUND WATER SAMPLE ANALYSES
NYSDOH WADSWORTH CENTER
ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)
PROJECT NUMBER EC027.00.01
ADIRONDACK ENVIRONMENTAL SERVICES, INC. (AES)
CASE NUMBER: EC9902, SDG NUMBER: MW-4D**

Deliverables:

The above referenced data summary package and sample data package for seven ground water samples, one field duplicate, one trip blank and one set of matrix spike/matrix spike duplicate (MS/MSD) samples contain all required deliverables as stipulated under the 1991 New York State Analytical Services Protocols (ASP) Superfund Category for Target Compound List (TCL) Volatile Organic Compounds (VOCs) and Semivolatile Organic Compounds (SVOCs). The data have been validated according to the protocols and quality control (QC) requirements of the ASP, the USEPA National Functional Guidelines for Organic Data Review (February 1994), the analytical methods and the reviewer's professional judgment.

<u>Samples</u>		<u>QC Samples</u>
MW-4S	MW-5S	MW-8M MS/MSD
MW-4M	MW-5M	MW-12S (MW-5S Field Duplicate)
MW-4D	MW-8S	Trip Blank
	MW-8M	

Organics

The following items/criteria were reviewed for this report:

- Case narrative and deliverables compliance
- Holding times and sample preservation (including pH and temperature)
- System Monitoring Compound (Surrogate) recoveries, summary and data
- MS/MSD results, recoveries, summary and data
- Matrix Spike Blank (MSB) recoveries, summary and data
- Method blank summary and data
- Gas Chromatography (GC)/Mass Spectroscopy (MS) tuning and performance
- Initial and continuing calibration summaries and data
- Internal standard areas, retention times, summary and data
- Trip blank data

- Field duplicate sample results
- Organic analysis data sheets (Form I)
- GC/MS chromatograms mass spectra and quantitation reports
- Quantitation/detection limits
- Qualitative and quantitative compound identification

The items listed above were technically and contractually in compliance with NYSDEC ASP protocols with the exceptions discussed in the text below. The data have been validated according to the procedures outlined above and qualified accordingly.

Volatiles

- The following table lists compounds that exceeded 30 percent relative standard deviation (%RSD) for relative response factors (RRF) in the initial calibration (ICAL) or 25 percent difference (%D) between the initial calibration average response factor and the continuing calibration verification (CCV) response factor. Associated field samples are also listed. Positive results for these compounds in associated samples are considered estimated and flagged "J". All non-detect results for the compound of interest in the appropriate samples are flagged "UJ".

Calibration	Compound	Deficiency	Associated Samples
ICAL	chloromethane	%RSD=33.1	All samples
10/26/99	acetone	%RSD=34.8	
11:09-16:11	2-hexanone	%RSD=31.5	
CCV	chloromethane	%D=27.0	MW-4M, MW-4D, MW-5S, MW-5M, MW-8M, MW-12S, MW-4S, Trip Blank
11/15/99	carbon disulfide	%D=47.3	
@ 09:17	1,2-dichloropropane	%D=25.6	
	2-hexanone	%D=25.9	
	1,1,2,2-tetrachloroethane	%D=26.6	
CCV	chloromethane	%D=34.9	MW-8S
11/17/99	carbon disulfide	%D=54.0	
@ 11:11	2-hexanone	%D=29.4	
	1,1,2,2-tetrachloroethane	%D=25.9	

- Sample MW-8M MSD exhibited the system monitoring compound (SMC) 1,2-dichloroethane-d4 with a slightly high recovery (115%; QC limits 76-114%). The recovery of this SMC in the MS and the unspiked sample were acceptable, therefore no qualification of the sample data is required.

Semivolatiles

- Surrogate recoveries were slightly below QC limits for 2-fluorobiphenyl (QC limits: 43-116%) for samples MW-5M (39%) and MW-12S (38%) and 2-fluorophenol (QC limits: 21-110%) for samples MW-5S (19%) and MW-4S (15%). Data are not qualified with respect to surrogate recovery unless two or more semivolatile surrogates, within the same fraction, are out of specification. Since only one base/neutral surrogate and one acid surrogate were outside QC limits and a matrix effect was not established, no qualification of the sample results is required. The recovery of 2-chlorophenol-d4, a surrogate with advisory limits, was below QC limits (33-110%) for sample MW- 5S (28%). Since this surrogate is advisory, no qualification of data is necessary.
- The following table lists blanks, blank contaminants with concentrations, and the associated samples. Common laboratory phthalate contaminants (bis(2-ethylhexyl)phthalate) are negated in a sample if the sample concentration is less than or equal to ten times the highest associated blank concentration. For all other compounds, an action level of five times the highest associated blank concentration is used. Concentrations of tentatively identified compounds (TICs) in samples less than five times the associated blank concentration will be negated as laboratory contamination.

Blank	Contaminant	Concentration (Action Level)	Associated Samples
WBLK01	bis (2-ethylhexyl)phthalate	14 (140 µg/l)	MW-4M, MW-4D, MW-5S, MW-8S, MW-12S
	unknown TIC @ 2.36	4 J (20 µg/l)	
	unknown TIC @ 2.43	2 J (10 µg/l)	
	unknown TIC @ 2.55	6 J (30 µg/l)	
	oxygenated TIC @ 7.19	7 J (35 µg/l)	
	phthalate TIC @ 19.47	2 J (10 µg/l)	
	unknown TIC @ 28.03	50 J (250 µg/l)	
WBLK02	butanoic acid @ 2.06	6 J (30 µg/l)	MW-5M, MW-4S
	unknown TIC @ 2.31	3 J (15 µg/l)	
	unknown TIC @ 28.04	7 J (35 µg/l)	
WBLK03	phthalate TIC @ 19.46	3 J (15 µg/l)	MW-8M
	unknown TIC @ 28.02	20 J (100 µg/l)	

- Any TICs found in samples that were identified as "siloxane compounds" are negated in all samples since these compounds are common laboratory artifacts typically originating from GC column bleed. Additionally, all TICs are qualified as estimated "J" since the concentrations are based on an arbitrary response

factor and their identification are based on the best match mass spectra library search.

- The following table lists compounds that exceeded 30 percent relative standard deviation (%RSD) for response factors in the initial calibration or 25 percent difference (%D) between the initial calibration (ICAL) average response factor and the continuing calibration (CCV) response factor. Associated samples are listed. Positive results for these compounds in associated samples are considered estimated and flagged "J". All non-detect results for the compound of interest in the appropriate sample are also estimated and are flagged "UJ".

Calibration	Compound	Deficiency	Associated Samples
CCV	hexachlorobutadiene	%D=29.4	All samples
12/02/99	hexachlorocyclopentadiene	%D=25.3	
@ 10:47	4,6-dinitro-2-methylphenol	%D=25.8	
	4-bromophenyl-phenylether	%D=25.9	
	hexachlorobenzene	%D=32.6	
	3,3'-dichlorobenzidine	%D=33.2	
	phenol-d5	%D=27.5	

Package Summary:

All data are valid and usable with qualifications as noted in this review.

Signed:



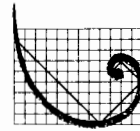
Andrew J. Coenen
Project Scientist

Dated: 01/25/00

Dr. John Matuszek
28 January 2000
EnviroClean Project No. 190.001
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Ground Water Storage Operating Report

5-16

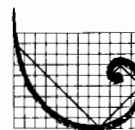
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Heaters up

DOHS-1 XLS 12/7/93

Dr. John Matuszek
28 January 2000
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Hazardous Waste Manifests

HAZARDOUS WASTE MANIFEST
P.O. Box 12820, Albany, New York 12212

(Rev. 3/97)

COPY 1 — Disposer State — Mailed by TSD Facility

TONAWANDA TANK TRANSPORT SERVICE, INC.

1140 MILITARY ROAD
P.O. BOX H
BUFFALO, NY 14217
(716) 873-9703

3618 U.S. ROUTE 42 SOUTH
LEBANON, OH 45036
(513) 398-6997



PICK UP		DELIVERY	
NAME NEW YORK DEPT. OF HEALTH	NAME CECOS		
STREET 120 NEW SCOTTLAND AVE	STREET 56th ST & PINE AVE.		
CITY ALBANY NY	CITY NIAGARA FALLS NY.	STATE	ZIP CODE
CONTACT NAME		CONTACT NAME	
SCHEDULED TIME 8:00AM		SCHEDULED TIME 8:00AM	
ADDITIONAL INFORMATION		ADDITIONAL INFORMATION	

PURCHASE ORDER NO.	WORK ORDER NUMBER	MANIFEST NUMBER 12280-AAB	PRODUCT CODE 12280-AAB
LOAD NUMBER 10001003	TRACTOR NUMBER 47	TRAILER NUMBER 405	DRIVER'S NAME DAVID M. ...

TYPE (CIRCLE ONE)	MATERIAL DESCRIPTION	QUANTITY
☒ TANK (S/S) (R/L) ☐ VAC ☐ DUMP ☐ VAN ☐ ROLL-OFF ☐ FLATBED	HAZ WASTE As per manifest # N9B8589519	4800 G

PICK UP	DELIVERY
ARRIVAL TIME 7:00 AM	ARRIVAL TIME _____ DATE _____
RELEASE TIME 8:30 PM	RELEASE TIME _____ DATE _____
TRAILER EMPTY UPON ARRIVAL ☒ YES ☐ NO	TRAILER EMPTY UPON DEPARTURE ☐ YES ☐ NO
DIP MEASUREMENT (Tankers Only) _____ INCHES	(If not, explain below)
COMMENTS: (EXPLAIN ALL DELAYS)	COMMENTS: (EXPLAIN ALL DELAYS)
I, THE UNDERSIGNED, CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND COMPLETE.	
SHIPPER'S SIGNATURE	CONSIGNEE'S SIGNATURE

OFFICE USE ONLY

TRIP	ACCOUNTING	DRIVER'S #
TOLLS		
DEMURRAGE		
LAYOVER		
VAC		
MISC		
TOTAL:		



314 North Pearl Street
Albany, New York 12207
518-434-4546/434-0891 FAX

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CHAIN OF CUSTODY RECORD

CLIENT NAME ERM CTO	PROJECT NAME (Location) Axle Road Institute	SAMPLERS: (Names) JAKE EIDEN JIM WESSELS
ADDRESS 421 New Kanner Rd - Albany	PO NUMBER DOH	SAMPLERS: (Signature) [Signature]

AES SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION & LOCATION	DATE SAMPLED	TIME A=a.m. P=p.m.	SAMPLE TYPE			NUMBER OF CONT'S	ANALYSIS REQUIRED
				MATRIX	COMP	GRAB		
	MW-8M/MS/MSD	11/11/99	8:50 P	WATER	X		3	FDA
			A					
			P					
			A					
			P					
			A					
			P					
			A					
			P					
			A					
			P					
			A					
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			A					
			P					
			A					
			P					
			A					
			P					

Turnaround Time:

Standard

Laboratory Approval:

Relinquished by: (Signature)

[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:

M. L. P.

Date/Time

11/11/99 9:28 AM

Method of Shipment:

Next Delivery

Send Report To:

Tom Elmendorf

Client Phone No.:

452-4391

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

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Albany, New York 12207
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CHAIN OF CUSTODY RECORD

CLIENT NAME ERM CTO	PROJECT NAME (Location) DOH AXEL ROD I NEW FUDE	SAMPLERS: (Names) JIM WESSELS THOMAS ELMENDORF JACOB ELDER
ADDRESS ALBANY NY 421 NEW KAWER RD	PO NUMBER DCH	SAMPLERS: (Signature) <i>[Signature]</i>

AES SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION & LOCATION	DATE SAMPLED	TIME A=a.m. P=p.m.	SAMPLE TYPE			NUMBER OF CONT'S	ANALYSIS REQUIRED
				MATRIX	COMP	GRAB		
	MW-4S	11/1/99	A P	WATER		X	3	EPA 624/625 (A-P)
	MW-4M		A P			X	3	
	MW-4D		A P			X	3	
	MW-5S		A P			X	3	
	MW-5M		A P			X	3	
	MW-8S		A P			X	3	
	MW-8M		A P			X	3	
	MW-12S		A P			X	3	
	Trip Blank		A P			X	1	
			A P					
			A P					
			A P					
			A P					
			A P					

Turnaround Time:

STANDARD

Laboratory Approval:

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date/Time <i>[Blank]</i>
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date/Time <i>[Blank]</i>
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date/Time <i>[Blank]</i>
Dispatched by: (Signature) <i>[Signature]</i>	Date/Time <i>[Blank]</i>	Received for Laboratory by: <i>[Signature]</i>
Method of Shipment: HAND DELIVERY	Send Report To: JACOB ELDER	Client Phone No.: 452-4331

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

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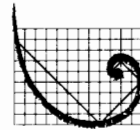
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Adirondack Environmental Services, Inc.

Dr. John Matuszek
28 January 2000
EnviroClean Project No. 190.001
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Albany, NY 12205
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(518) 452-4295 (Fax)



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ATTACHMENT
(Date Validation)

SDG NUMBER: MW-4D VOC

SAMPLE I.D.	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED	ASSOCIATED METHOD	ASSOCIATED INITIAL CALIBRATION	ASSOCIATED CONTINUING CALIBRATION
MW-4D	11-09-99	11-09-99	11-15-99	BLANK	10-26-99 (11:09-16:11)	11-15-99 (09:17)
MW-4M	11-09-99	11-09-99	11-15-99	VBLK01	10-26-99 (11:09-16:11)	11-15-99 (09:17)
MW-4S	11-09-99	11-09-99	11-15-99	VBLK01	10-26-99 (11:09-16:11)	11-15-99 (09:17)
MW-5M	11-09-99	11-09-99	11-15-99	VBLK01	10-26-99 (11:09-16:11)	11-15-99 (09:17)
MW-5S	11-09-99	11-09-99	11-15-99	VBLK01	10-26-99 (11:09-16:11)	11-15-99 (09:17)
MW-8M	11-09-99	11-09-99	11-15-99	VBLK01	10-26-99 (11:09-16:11)	11-15-99 (09:17)
MW-8S	11-09-99	11-09-99	11-17-99	VBLK02	10-26-99 (11:09-16:11)	11-17-99 (11:11)
MW-12S	11-09-99	11-09-99	11-15-99	VBLK01	10-26-99 (11:09-16:11)	11-15-99 (09:17)
MW-8M MS	11-09-99	11-09-99	11-15-99	VBLK01	10-26-99 (11:09-16:11)	11-15-99 (09:17)
MW-8M MSD	11-09-99	11-09-99	11-15-99	VBLK01	10-26-99 (11:09-16:11)	11-15-99 (09:17)
TRIP BLANK	-	11-09-99	11-15-99	VBLK01	10-26-99 (11:09-16:11)	11-15-99 (09:17)
MSB	-	-	11-15-99	VBLK01	10-26-99 (11:09-16:11)	11-15-99 (09:17)

SDG NUMBER: MW-4D SVOC

SAMPLE I.D.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	ASSOCIATED METHOD	INITIAL CALIBRATION	ASSOCIATED CONTINUING CALIBRATION
MW-4D	11-09-99	11-09-99	11-10-99	12-02-99	WBLK01	10-17-99 (12:46-17:17)	12-02-99 (10:47)
MW-4M	11-09-99	11-09-99	11-10-99	12-02-99	WBLK01	10-17-99 (12:46-17:17)	12-02-99 (10:47)
MW-4S	11-09-99	11-09-99	11-11-99	12-02-99	WBLK02	10-17-99 (12:46-17:17)	12-02-99 (10:47)
MW-5M	11-09-99	11-09-99	11-11-99	12-02-99	WBLK02	10-17-99 (12:46-17:17)	12-02-99 (10:47)
MW-5S	11-09-99	11-09-99	11-10-99	12-02-99	WBLK01	10-17-99 (12:46-17:17)	12-02-99 (10:47)
MW-8M	11-11-99	11-11-99	11-15-99	12-02-99	WBLK03	10-17-99 (12:46-17:17)	12-02-99 (10:47)
MW-8S	11-09-99	11-09-99	11-10-99	12-02-99	WBLK01	10-17-99 (12:46-17:17)	12-02-99 (10:47)
MW-12S	11-09-99	11-09-99	11-10-99	12-02-99	WBLK01	10-17-99 (12:46-17:17)	12-02-99 (10:47)
MW-8M MS	11-11-99	11-11-99	11-15-99	12-02-99	WBLK03	10-17-99 (12:46-17:17)	12-02-99 (10:47)
MW-8M MSD	11-11-99	11-11-99	11-15-99	12-02-99	WBLK03	10-17-99 (12:46-17:17)	12-02-99 (10:47)
WMSB	-	-	11-15-99	12-02-99	WBLK03	10-17-99 (12:46-17:17)	12-02-99 (10:47)

TABLE 2. SUMMARY OF VALIDATED VOLATILE ORGANIC COMPOUNDS AND PHYSICAL PARAMETERS
Second Half, Sixth Year

	MW-4D	MW-4M	MW-4S	MW-5M	MW-5S	MW-8M	MW-8S	MW-12S	TRIP BLANK
Methylene Chloride	10 U	10 U	38000	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	10 UJ	10 UJ	89000 J	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Chloroform	1 J	10 U	4700 J	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	10 U	2 J	1000 J	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	10 U	50	11000	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	10 U	21	21000	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	10 U	16	15000	10 U	10 U	10 U	10 U	10 U	10 U
cis-1,2-Dichloroethene	10 U	1 J	3600 J	10 U	10 U	10 U	10 U	10 U	10 U
m,p-Xylenes	10 U	40	40000	10 U	10 U	10 U	10 U	10 U	10 U
o-Xylene	10 U	12	12000	10 U	10 U	10 U	10 U	10 U	10 U
Ethylether	ND	30 JN	8000 JN	ND	40 JN	ND	7 JN	ND	ND
Diisopropylether	ND	10 JN	ND	ND	20 JN	ND	ND	ND	ND
1,4-Dioxane	ND	ND	ND	ND	20 JN	ND	ND	ND	ND
Ground Water Field Measurements									
Temperature (Celsius)	-	-	-	-	-	-	-	-	-
Conductivity (umhos/cm)	0.002	0.002	0.009	0.012	1.657	0.025	0.007	-	-
pH	8.47	7.77	6.55	8.22	6.83	8.55	6.78	-	-
Ground Water Elevation (feet amsl)	203.84	211.64	210.79	207.84	206.39	209.97	211.93	-	-

Notes: Concentrations are in micrograms per liter (µg/l).

U = Compound not detected. Numeric value is sample specific quantitation limit for that compound.

J = Estimated value due to data validation requirements, concentration is below (RQL or compound is a TIC).

ND = TIC not detected in that sample.

N = Identified TIC.

B = Compound identified in associated method blank.

TABLE 3. SUMMARY OF VALIDATED SEMI-VOLATILE ORGANIC COMPOUNDS
Second Half, Sixth Year

	MW-4D	MW-4M	MW-4S	MW-5M	MW-5S	MW-8S	MW-8S	MW-12S
Phenol	11 U	10 U	190	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	11 U	10 U	36 J	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	11 U	10 U	70	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	26 U	26 U	120	26 U	25 U	24 U	25 U	25 U
Naphthalene	11 U	10 U	130	10 U	10 U	10 U	10 U	10 U
Bis(2-ethylhexyl)phthalate	11 U	10 U	50 U	5 J	10 U	1 J	10 U	10 U
Total Unk. Aromatics	ND	ND	90 J	ND	2 J	ND	ND	ND
Total Unk. Oxy. Cmpds	ND	ND	100 J	ND	ND	ND	ND	ND
Total Unknowns	32 J	ND	160 J	ND	2 J	5 J	ND	20 J
Total Unk. Acids	ND	ND	20 J	ND	ND	ND	ND	ND
Sulfur	ND	10 JN	ND	ND	ND	ND	ND	ND
Butanoic Acid	ND	ND	60 JN	ND	ND	ND	ND	ND
Pentanoic Acid	ND	ND	200 JN	ND	ND	ND	ND	ND
Dimethyl trisulfide	ND	ND	50 JN	ND	ND	ND	ND	ND
Bicyclo[2.2.1]heptan-2-one	ND	ND	40 JN	ND	ND	ND	ND	ND
Decanoic Acid	ND	ND	10 JN	ND	ND	ND	ND	ND
Benzoic Acid	ND	ND	400 JN	ND	ND	ND	ND	ND

Notes: Concentrations are in micrograms per liter ($\mu\text{g}/\text{l}$).

U = Compound not detected. Numeric value is sample specific quantitation limit for that compound.

J = Estimated value due to data validation requirements, concentration is below CRQL or compound is a TIC.

B = Compound identified in an associated method blank.

ND = TIC not detected in that sample.

N = Identified TIC.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-4D

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-4D

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

Lab File ID: D1359

Level: (low/med) LOW

Date Received: 11/09/99

Moisture: not dec. _____

Date Analyzed: 11/15/99

GC Column: RTX502.2 ID: .32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

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

Q

74-87-3-----	Chloromethane	10.	UJ
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.	UJ
75-15-0-----	Carbon Disulfide	10.	UJ
75-35-4-----	1,1-Dichloroethene	10.	U
75-34-3-----	1,1-Dichloroethane	10.	U
156-60-5-----	1,2-Dichloroethene-trans	10.	U
67-66-3-----	Chloroform	1.	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
75-27-4-----	Bromodichloromethane	10.	U
78-87-5-----	1,2-Dichloropropane	10.	UJ
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
108-10-1-----	4-Methyl-2-Pentanone	10.	U
591-78-6-----	2-Hexanone	10.	UJ
127-18-4-----	Tetrachloroethene	10.	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10.	UJ
108-88-3-----	Toluene	10.	U
108-90-7-----	Chlorobenzene	10.	U
100-41-4-----	Ethylbenzene	10.	U
100-42-5-----	Styrene	10.	U
156-59-2-----	1,2-Dichloroethene-cis	10.	U
106-42-3-----	m,p-Xylenes	10.	U
95-47-6-----	o-Xylene	10.	U

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FORM 1 VOA

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-4D

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-4D

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

Lab File ID: D1359

Level: (low/med) LOW

Date Received: 11/09/99

% Moisture: not dec. _____

Date Analyzed: 11/15/99

GC Column: RTX502.2 ID: - = .32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

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

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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FORM I VOA-TIC

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-4M

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-4M

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

Lab File ID: D1358

Level: (low/med) LOW

Date Received: 11/09/99

Moisture: not dec. _____

Date Analyzed: 11/15/99

GC Column: RTX502.2 ID: .32 (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

74-87-3-----	Chloromethane	10.	UJ
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.	UJ
75-15-0-----	Carbon Disulfide	10.	UJ
75-35-4-----	1,1-Dichloroethene	10.	U
75-34-3-----	1,1-Dichloroethane	10.	U
156-60-5-----	1,2-Dichloroethene-trans	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
75-27-4-----	Bromodichloromethane	10.	U
78-87-5-----	1,2-Dichloropropane	10.	UJ
10061-01-5-----	cis-1,3-Dichloropropene	10.	U
79-01-6-----	Trichloroethene	2.	J
124-48-1-----	Dibromochloromethane	10.	U
79-00-5-----	1,1,2-Trichloroethane	10.	U
71-43-2-----	Benzene	50.	
10061-02-6-----	trans-1,3-Dichloropropene	10.	U
75-25-2-----	Bromoform	10.	U
108-10-1-----	4-Methyl-2-Pentanone	10.	U
591-78-6-----	2-Hexanone	10.	UJ
127-18-4-----	Tetrachloroethene	10.	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10.	UJ
108-88-3-----	Toluene	21.	
108-90-7-----	Chlorobenzene	10.	U
100-41-4-----	Ethylbenzene	16.	
100-42-5-----	Styrene	10.	U
156-59-2-----	1,2-Dichloroethene-cis	1.	J
106-42-3-----	m,p-Xylenes	40.	
95-47-6-----	o-Xylene	12.	

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-4M

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-4M

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

Lab File ID: D1358

Level: (low/med) LOW

Date Received: 11/09/99

% Moisture: not dec. _____

Date Analyzed: 11/15/99

GC Column: RTX502.2 ID: - .32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

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

Number TICs found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 60-29-7	Ethyl ether (8CI)	6.35	30.	J N
2. 108-20-3	Diisopropyl ether (DOT)	8.47	10.	J N
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FORM I VOA-TIC

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-4S

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-4S

Sample wt/vol: .010 (g/mL) ML

Lab File ID: D1366

Level: (low/med) LOW

Date Received: 11/09/99

% Moisture: not dec. _____

Date Analyzed: 11/15/99

GC Column: RTX502.2 ID: .32 (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

74-87-3-----	Chloromethane	5000.	U J
74-83-9-----	Bromomethane	5000.	U
75-01-4-----	Vinyl Chloride	5000.	U
75-00-3-----	Chloroethane	5000.	U
75-09-2-----	Methylene Chloride	38000.	
67-64-1-----	Acetone	89000.	
75-15-0-----	Carbon Disulfide	5000.	U J
75-35-4-----	1,1-Dichloroethene	5000.	U
75-34-3-----	1,1-Dichloroethane	5000.	U
156-60-5-----	1,2-Dichloroethene-trans	5000.	U
67-66-3-----	Chloroform	4700.	J
107-06-2-----	1,2-Dichloroethane	5000.	U
78-93-3-----	2-Butanone	5000.	U
71-55-6-----	1,1,1-Trichloroethane	5000.	U
56-23-5-----	Carbon Tetrachloride	5000.	U
75-27-4-----	Bromodichloromethane	5000.	U
78-87-5-----	1,2-Dichloropropane	5000.	U J
10061-01-5-----	cis-1,3-Dichloropropene	5000.	U
79-01-6-----	Trichloroethene	1000.	J
124-48-1-----	Dibromochloromethane	5000.	U
79-00-5-----	1,1,2-Trichloroethane	5000.	U
71-43-2-----	Benzene	11000.	
10061-02-6-----	trans-1,3-Dichloropropene	5000.	U
75-25-2-----	Bromoform	5000.	U
108-10-1-----	4-Methyl-2-Pentanone	5000.	U
591-78-6-----	2-Hexanone	5000.	U J
127-18-4-----	Tetrachloroethene	5000.	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5000.	U J
108-88-3-----	Toluene	21000.	
108-90-7-----	Chlorobenzene	5000.	U
100-41-4-----	Ethylbenzene	15000.	
100-42-5-----	Styrene	5000.	U
156-59-2-----	1,2-Dichloroethene-cis	3600.	J
106-42-3-----	m,p-Xylenes	40000.	
95-47-6-----	o-Xylene	12000.	

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FORM 1A VOA

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-4S

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-4S

Sample wt/vol: .010 (g/mL) ML

Lab File ID: D1366

Level: (low/med) LOW

Date Received: 11/09/99

% Moisture: not dec. _____

Date Analyzed: 11/15/99

GC Column: RTX502.2 ID: .32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

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

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 60-29-7	Ethyl ether (8CI)	6.35	8000.	J N
2.				
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FORM I VOA-TIC

3/90

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-5M

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-5M

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

Lab File ID: D1361

Level: (low/med) LOW

Date Received: 11/09/99

% Moisture: not dec. _____

Date Analyzed: 11/15/99

GC Column: RTX502.2 ID: .32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

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

CAS NO.

COMPOUND

Q

74-87-3-----	Chloromethane	10.	U J
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 J
75-15-0-----	Carbon Disulfide	10.	U J
75-35-4-----	1,1-Dichloroethene	10.	U
75-34-3-----	1,1-Dichloroethane	10.	U
156-60-5-----	1,2-Dichloroethene-trans	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
75-27-4-----	Bromodichloromethane	10.	U
78-87-5-----	1,2-Dichloropropane	10.	U J
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
108-10-1-----	4-Methyl-2-Pentanone	10.	U
591-78-6-----	2-Hexanone	10.	U J
127-18-4-----	Tetrachloroethene	10.	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10.	U J
108-88-3-----	Toluene	10.	U
108-90-7-----	Chlorobenzene	10.	U
100-41-4-----	Ethylbenzene	10.	U
100-42-5-----	Styrene	10.	U
156-59-2-----	1,2-Dichloroethene-cis	10.	U
106-42-3-----	m,p-Xylenes	10.	U
95-47-6-----	o-Xylene	10.	U

Ac 01/24/00

FORM 1 VOA

3/90

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-5M

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-5M

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

Lab File ID: D1361

Level: (low/med) LOW

Date Received: 11/09/99

Moisture: not dec. _____

Date Analyzed: 11/15/99

GC Column: RTX502.2 ID: .32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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FORM I VOA-TIC

3/90

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-5S

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-5S

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

Lab File ID: D1360

Level: (low/med) LOW

Date Received: 11/09/99

Moisture: not dec. _____

Date Analyzed: 11/15/99

GC Column: RTX502.2 ID: .32 (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

74-87-3-----	Chloromethane	10.	U J
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 J
75-15-0-----	Carbon Disulfide	10.	U J
75-35-4-----	1,1-Dichloroethene	10.	U
75-34-3-----	1,1-Dichloroethane	10.	U
156-60-5-----	1,2-Dichloroethene-trans	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
75-27-4-----	Bromodichloromethane	10.	U
78-87-5-----	1,2-Dichloropropane	10.	U J
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
108-10-1-----	4-Methyl-2-Pentanone	10.	U
591-78-6-----	2-Hexanone	10.	U J
127-18-4-----	Tetrachloroethene	10.	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10.	U J
108-88-3-----	Toluene	10.	U
108-90-7-----	Chlorobenzene	10.	U
100-41-4-----	Ethylbenzene	10.	U
100-42-5-----	Styrene	10.	U
156-59-2-----	1,2-Dichloroethene-cis	10.	U
106-42-3-----	m,p-Xylenes	10.	U
95-47-6-----	o-Xylene	10.	U

11/24/00

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-5S

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902 SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-5S

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

Lab File ID: D1360

Level: (low/med) LOW

Date Received: 11/09/99

Moisture: not dec. _____

Date Analyzed: 11/15/99

GC Column: RTX502.2 ID: - .32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 60-29-7	Ethyl ether (8CI)	6.35	40.	J N
2. 108-20-3	Diisopropyl ether (DOT)	8.47	20.	J N
3. 123-91-1	1,4-Dioxane	13.07	20.	J N
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FORM I VOA-TIC

3/90

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8M

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-8M

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

Lab File ID: D1363

Level: (low/med) LOW

Date Received: 11/09/99

Moisture: not dec. _____

Date Analyzed: 11/15/99

GC Column: RTX502.2 ID: .32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
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74-87-3-----	Chloromethane	10.	UJ
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.	UJ
75-15-0-----	Carbon Disulfide	10.	UJ
75-35-4-----	1,1-Dichloroethene	10.	U
75-34-3-----	1,1-Dichloroethane	10.	U
156-60-5-----	1,2-Dichloroethene-trans	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
75-27-4-----	Bromodichloromethane	10.	U
78-87-5-----	1,2-Dichloropropane	10.	UJ
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
108-10-1-----	4-Methyl-2-Pentanone	10.	U
591-78-6-----	2-Hexanone	10.	UJ
127-18-4-----	Tetrachloroethene	10.	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10.	UJ
108-88-3-----	Toluene	10.	U
108-90-7-----	Chlorobenzene	10.	U
100-41-4-----	Ethylbenzene	10.	U
100-42-5-----	Styrene	10.	U
156-59-2-----	1,2-Dichloroethene-cis	10.	U
106-42-3-----	m,p-Xylenes	10.	U
95-47-6-----	o-Xylene	10.	U

As of 11/15/99

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-8M

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-8M

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

Lab File ID: D1363

Level: (low/med) LOW

Date Received: 11/09/99

Moisture: not dec. _____

Date Analyzed: 11/15/99

GC Column: RTX502.2 ID: .32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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FORM I VOA-TIC

3/90

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8S

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-8S

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

Lab File ID: D1394

Level: (low/med) LOW

Date Received: 11/09/99

% Moisture: not dec. _____

Date Analyzed: 11/17/99

GC Column: RTX502.2 ID: - .32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

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

CAS NO.

COMPOUND

Q

74-87-3-----	Chloromethane	10.	U J
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 J
75-15-0-----	Carbon Disulfide	10.	U J
75-35-4-----	1,1-Dichloroethene	10.	U
75-34-3-----	1,1-Dichloroethane	10.	U
156-60-5-----	1,2-Dichloroethene-trans	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
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
108-10-1-----	4-Methyl-2-Pentanone	10.	U
591-78-6-----	2-Hexanone	10.	U J
127-18-4-----	Tetrachloroethene	10.	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10.	U J
108-88-3-----	Toluene	10.	U
108-90-7-----	Chlorobenzene	10.	U
100-41-4-----	Ethylbenzene	10.	U
100-42-5-----	Styrene	10.	U
156-59-2-----	1,2-Dichloroethene-cis	10.	U
106-42-3-----	m,p-Xylenes	10.	U
95-47-6-----	o-Xylene	10.	U

11/24/00

FORM 1-VOA

3/90

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-8S

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-8S

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

Lab File ID: D1394

Level: (low/med) LOW

Date Received: 11/09/99

Moisture: not dec. _____

Date Analyzed: 11/17/99

GC Column: RTX502.2 ID: .32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 60-29-7	Ethyl ether (8CI)	6.32	7.	J N
2.				
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FORM I VOA-TIC

3/90

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-12S

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-12S

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

Lab File ID: D1364

Level: (low/med) LOW

Date Received: 11/09/99

% Moisture: not dec. _____

Date Analyzed: 11/15/99

GC Column: RTX502.2 ID: .32 (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

74-87-3-----	Chloromethane	10.	UJ
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.	UJ
75-15-0-----	Carbon Disulfide	10.	UJ
75-35-4-----	1,1-Dichloroethene	10.	U
75-34-3-----	1,1-Dichloroethane	10.	U
156-60-5-----	1,2-Dichloroethene-trans	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
75-27-4-----	Bromodichloromethane	10.	U
78-87-5-----	1,2-Dichloropropane	10.	UJ
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
108-10-1-----	4-Methyl-2-Pentanone	10.	U
591-78-6-----	2-Hexanone	10.	UJ
127-18-4-----	Tetrachloroethene	10.	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10.	UJ
108-88-3-----	Toluene	10.	U
108-90-7-----	Chlorobenzene	10.	U
100-41-4-----	Ethylbenzene	10.	U
100-42-5-----	Styrene	10.	U
156-59-2-----	1,2-Dichloroethene-cis	10.	U
106-42-3-----	m,p-Xylenes	10.	U
95-47-6-----	o-Xylene	10.	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-12S

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-12S

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

Lab File ID: D1364

Level: (low/med) LOW

Date Received: 11/09/99

Moisture: not dec. _____

Date Analyzed: 11/15/99

GC Column: RTX502.2 ID: .32 (mm)

Dilution Factor: 1.0

Oil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
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FORM I VOA-TIC

3/90

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: TB

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

Lab File ID: D1370

Level: (low/med) LOW

Date Received: 11/09/99

Moisture: not dec. _____

Date Analyzed: 11/15/99

GC Column: RTX502.2 ID: .32 (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

74-87-3-----	Chloromethane	10.	UJ
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.	UJ
75-15-0-----	Carbon Disulfide	10.	UJ
75-35-4-----	1,1-Dichloroethene	10.	U
75-34-3-----	1,1-Dichloroethane	10.	U
156-60-5-----	1,2-Dichloroethene-trans	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
75-27-4-----	Bromodichloromethane	10.	U
78-87-5-----	1,2-Dichloropropane	10.	UJ
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
108-10-1-----	4-Methyl-2-Pentanone	10.	U
591-78-6-----	2-Hexanone	10.	UJ
127-18-4-----	Tetrachloroethene	10.	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10.	UJ
108-88-3-----	Toluene	10.	U
108-90-7-----	Chlorobenzene	10.	U
100-41-4-----	Ethylbenzene	10.	U
100-42-5-----	Styrene	10.	U
156-59-2-----	1,2-Dichloroethene-cis	10.	U
106-42-3-----	m,p-Xylenes	10.	U
95-47-6-----	o-Xylene	10.	U

FORM T VOA

3/90

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TB

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: TB

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

Lab File ID: D1370

Level: (low/med) LOW

Date Received: 11/09/99

Moisture: not dec. _____

Date Analyzed: 11/15/99

GC Column: RTX502.2 ID: - .32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1.				
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FORM I VOA-TIC

3/90

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-4D

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-4D

Sample wt/vol: 950.0 (g/mL) ML

Lab File ID: A2599

Level: (low/med) LOW

Date Received: 11/09/99

Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/10/99

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 12/02/99

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	11.	U
111-44-4-----	bis(-2-Chloroethyl)Ether	11.	U
95-57-8-----	2-Chlorophenol	11.	U
541-73-1-----	1,3-Dichlorobenzene	11.	U
106-46-7-----	1,4-Dichlorobenzene	11.	U
95-50-1-----	1,2-Dichlorobenzene	11.	U
95-48-7-----	2-Methylphenol	11.	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	11.	U
106-44-5-----	4-Methylphenol	11.	U
621-64-7-----	N-Nitroso-Di-n-propylamine	11.	U
67-72-1-----	Hexachloroethane	11.	U
98-95-3-----	Nitrobenzene	11.	U
78-59-1-----	Isophorone	11.	U
88-75-5-----	2-Nitrophenol	11.	U
105-67-9-----	2,4-Dimethylphenol	11.	U
111-91-1-----	bis(-2-Chloroethoxy)Methane	11.	U
120-83-2-----	2,4-Dichlorophenol	11.	U
120-82-1-----	1,2,4-Trichlorobenzene	11.	U
91-20-3-----	Naphthalene	11.	U
106-47-8-----	4-Chloroaniline	11.	U
87-68-3-----	Hexachlorobutadiene	11.	U J
59-50-7-----	4-Chloro-3-methylphenol	11.	U
91-57-6-----	2-Methylnaphthalene	11.	U
77-47-4-----	Hexachlorocyclopentadiene	11.	U J
88-06-2-----	2,4,6-Trichlorophenol	11.	U
95-95-4-----	2,4,5-Trichlorophenol	26.	U
91-58-7-----	2-Chloronaphthalene	11.	U
88-74-4-----	2-Nitroaniline	26.	U
131-11-3-----	Dimethyl Phthalate	11.	U
208-96-8-----	Acenaphthylene	11.	U
606-20-2-----	2,6-Dinitrotoluene	11.	U
99-09-2-----	3-Nitroaniline	26.	U
92-32-9-----	Acenaphthene	11.	U

At 01/24/00

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-4D

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-4D

Sample wt/vol: 950.0 (g/mL) ML

Lab File ID: A2599

Level: (low/med) LOW

Date Received: 11/09/99

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

Date Extracted: 11/10/99

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 12/02/99

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

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

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

CAS NO.

COMPOUND

Q

51-28-5-----	2,4-Dinitrophenol	26.	U
100-02-7-----	4-Nitrophenol	26.	U
132-64-9-----	Dibenzofuran	11.	U
121-14-2-----	2,4-Dinitrotoluene	11.	U
84-66-2-----	Diethylphthalate	11.	U
7005-72-3-----	4-Chlorophenyl-phenylether	11.	U
86-73-7-----	Fluorene	11.	U
100-01-6-----	4-Nitroaniline	26.	U
534-52-1-----	4,6-Dinitro-2-methylphenol	26.	UJ
86-30-6-----	N-Nitrosodiphenylamine	11.	U
101-55-3-----	4-Bromophenyl-phenylether	11.	UJ
118-74-1-----	Hexachlorobenzene	11.	UJ
87-86-5-----	Pentachlorophenol	26.	U
85-01-8-----	Phenanthrene	11.	U
120-12-7-----	Anthracene	11.	U
86-74-8-----	Carbazole	11.	U
84-74-2-----	Di-n-Butylphthalate	11.	U
206-44-0-----	Fluoranthene	11.	U
129-00-0-----	Pyrene	11.	U
85-68-7-----	Butylbenzylphthalate	11.	U
91-94-1-----	3,3'-Dichlorobenzidine	11.	UJ
56-55-3-----	Benzo(a)Anthracene	11.	U
218-01-9-----	Chrysene	11.	U
117-81-7-----	Bis(2-Ethylhexyl)Phthalate	11	9. U U
117-84-0-----	Di-n-octyl phthalate	11.	U
205-99-2-----	Benzo(b)fluoranthene	11.	U
207-08-9-----	Benzo(k)Fluoranthene	11.	U
50-32-8-----	Benzo(a)Pyrene	11.	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	11.	U
53-70-3-----	Dibenzo(a,h)Anthracene	11.	U
191-24-2-----	Benzo(g,h,i)Perylene	11.	U

(1) Cannot be separated from diphenylamine

FORM 1-SV-2

3790

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1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-4D

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-4D

Sample wt/vol: 950.0 (g/mL) ML

Lab File ID: A2599

Level: (low/med) LOW

Date Received: 11/09/99

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

Date Extracted: 11/10/99

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 12/02/99

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

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

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

Number TICs found: 3

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. - -	UNKNOWN	3.60	20.	J
2. - -	UNKNOWN	8.06	9.	J
3. - -	UNKNOWN	8.61	3.	J
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FORM 1 SV-TIC

3/90

27

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-4M

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-4M

Sample wt/vol: 960.0 (g/mL) ML

Lab File ID: A2598

Level: (low/med) LOW

Date Received: 11/09/99

Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/10/99

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 12/02/99

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
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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	26.	U
91-58-7-----	2-Chloronaphthalene	10.	U
88-74-4-----	2-Nitroaniline	26.	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	26.	U
83-32-9-----	Acenaphthene	10.	U

401/40

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-4M

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-4M

Sample wt/vol: 960.0 (g/mL) ML

Lab File ID: A2598

Level: (low/med) LOW

Date Received: 11/09/99

Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/10/99

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 12/02/99

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

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

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

CAS NO.

COMPOUND

Q

51-28-5-----	2,4-Dinitrophenol	26.	U
100-02-7-----	4-Nitrophenol	26.	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	26.	U
534-52-1-----	4,6-Dinitro-2-methylphenol	26.	UJ
86-30-6-----	N-Nitrosodiphenylamine	10.	U
101-55-3-----	4-Bromophenyl-phenylether	10.	UJ
118-74-1-----	Hexachlorobenzene	10.	UJ
87-86-5-----	Pentachlorophenol	26.	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.	UJ
56-55-3-----	Benzo(a)Anthracene	10.	U
218-01-9-----	Chrysene	10.	U
117-81-7-----	Bis(2-Ethylhexyl)Phthalate	10 9.	U U
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

for a/24/00

3790 29

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-4M

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-4M

Sample wt/vol: 960.0 (g/mL) ML

Lab File ID: A2598

Level: (low/med) LOW

Date Received: 11/09/99

Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/10/99

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 12/02/99

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

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

Number TICs found: 6

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	2.28	6.	BJ
2.	UNKNOWN	2.37	3.	BJ
3.	UNKNOWN OXYGENATED	7.25	10.	BJ
4.	UNKNOWN PHTHALATE	19.45	4.	BJ
5. 10544-50-0	Sulfur, mol. (S8) (8CI9CI)	20.10	10.	J N
6.	UNKNOWN	28.02	50.	BJ
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gpa/24

FORM I SV-TIC

3790

30

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-4S

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-4S

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

Lab File ID: A2607

Level: (low/med) LOW

Date Received: 11/09/99

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

Date Extracted: 11/11/99

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 12/02/99

Injection Volume: 2.0 (uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) N

pH: 7.0

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

108-95-2-----Phenol	190.	
111-44-4-----bis(-2-Chloroethyl)Ether	50.	U
95-57-8-----2-Chlorophenol	50.	U
541-73-1-----1,3-Dichlorobenzene	50.	U
106-46-7-----1,4-Dichlorobenzene	50.	U
95-50-1-----1,2-Dichlorobenzene	50.	U
95-48-7-----2-Methylphenol	36.	J
108-60-1-----2,2'-oxybis(1-Chloropropane)	50.	U
106-44-5-----4-Methylphenol	70.	
621-64-7-----N-Nitroso-Di-n-propylamine	50.	U
67-72-1-----Hexachloroethane	50.	U
98-95-3-----Nitrobenzene	50.	U
78-59-1-----Isophorone	50.	U
88-75-5-----2-Nitrophenol	50.	U
105-67-9-----2,4-Dimethylphenol	120.	
111-91-1-----bis(-2-Chloroethoxy)Methane	50.	U
120-83-2-----2,4-Dichlorophenol	50.	U
120-82-1-----1,2,4-Trichlorobenzene	50.	U
91-20-3-----Naphthalene	130.	
106-47-8-----4-Chloroaniline	50.	U
87-68-3-----Hexachlorobutadiene	50.	U J
59-50-7-----4-Chloro-3-methylphenol	50.	U
91-57-6-----2-Methylnaphthalene	50.	U
77-47-4-----Hexachlorocyclopentadiene	50.	U J
88-06-2-----2,4,6-Trichlorophenol	50.	U
95-95-4-----2,4,5-Trichlorophenol	130.	U
91-58-7-----2-Chloronaphthalene	50.	U
88-74-4-----2-Nitroaniline	130.	U
131-11-3-----Dimethyl Phthalate	50.	U
208-96-8-----Acenaphthylene	50.	U
606-20-2-----2,6-Dinitrotoluene	50.	U
99-09-2-----3-Nitroaniline	130.	U
83-38-9-----Acenaphthene	50.	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-4S

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-4S

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

Lab File ID: A2607

Level: (low/med) LOW

Date Received: 11/09/99

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

Date Extracted: 11/11/99

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 12/02/99

Injection Volume: 2.0 (uL)

Dilution Factor: 5.0

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

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

51-28-5-----	2,4-Dinitrophenol	130.	U
100-02-7-----	4-Nitrophenol	130.	U
132-64-9-----	Dibenzofuran	50.	U
121-14-2-----	2,4-Dinitrotoluene	50.	U
84-66-2-----	Diethylphthalate	50.	U
7005-72-3-----	4-Chlorophenyl-phenylether	50.	U
86-73-7-----	Fluorene	50.	U
100-01-6-----	4-Nitroaniline	130.	U
534-52-1-----	4,6-Dinitro-2-methylphenol	130.	U J
86-30-6-----	N-Nitrosodiphenylamine	50.	U
101-55-3-----	4-Bromophenyl-phenylether	50.	U J
118-74-1-----	Hexachlorobenzene	50.	U J
87-86-5-----	Pentachlorophenol	130.	U
85-01-8-----	Phenanthrene	50.	U
120-12-7-----	Anthracene	50.	U
86-74-8-----	Carbazole	50.	U
84-74-2-----	Di-n-Butylphthalate	50.	U
206-44-0-----	Fluoranthene	50.	U
129-00-0-----	Pyrene	50.	U
85-68-7-----	Butylbenzylphthalate	50.	U
91-94-1-----	3,3'-Dichlorobenzidine	50.	U J
56-55-3-----	Benzo(a)Anthracene	50.	U
218-01-9-----	Chrysene	50.	U
117-81-7-----	Bis(2-Ethylhexyl)Phthalate	50.	U
117-84-0-----	Di-n-octyl phthalate	50.	U
205-99-2-----	Benzo(b)fluoranthene	50.	U
207-08-9-----	Benzo(k)Fluoranthene	50.	U
50-32-8-----	Benzo(a)Pyrene	50.	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	50.	U
53-70-3-----	Dibenzo(a,h)Anthracene	50.	U
191-24-2-----	Benzo(g,h,i)Perylene	50.	U

As of 4/00

(1) - Cannot be separated from diphenylamine

FORM 1-SV-2

3/903 2

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-4S

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-4S

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

Lab File ID: A2607

Level: (low/med) LOW

Date Received: 11/09/99

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

Date Extracted: 11/11/99

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 12/02/99

Injection Volume: 2.0 (uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) N

pH: 7.0

Number TICs found: 14

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. - -	UNKNOWN	2.04	40.	J
2. - -	UNKNOWN AROMATIC	3.36	30.	J
3. 107-92-6	Butanoic acid (9CI)	3.47	60.	J N
4. 109-52-4	Pentanoic acid (9CI)	3.77	200.	J N
5. - -	UNKNOWN AROMATIC	3.89	60.	J
6. 3658-80-8	Trisulfide, dimethyl (9CI)	3.98	50.	J N
7. - -	UNKNOWN OXYGENATED	4.10	100.	J
8. 21368-68-3	Bicyclo[2.2.1]heptan-2-one,	7.05	40.	J N
9. - -	METHYL BENZOIC ACID	9.91	10.	J
10. - -	METHYL BENZOIC ACID	10.69	10.	J
11. 334-48-5	Decanoic acid (8CI9CI)	11.65	10.	J N
12. - -	UNKNOWN	14.50	20.	J
13. - -	UNKNOWN	15.52	100.	J
14. 65-85-0	BENZOIC ACID	9.22	400.	JN
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FORM 1 SV-TIC

3/90

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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-5M

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-5M

Sample wt/vol: 880.0 (g/mL) ML

Lab File ID: A2601

Level: (low/med) LOW

Date Received: 11/09/99

Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/11/99

Concentrated Extract Volume: 900.0 (uL)

Date Analyzed: 12/02/99

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

SPC Cleanup: (Y/N) N

pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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	26.	U
91-58-7-----	2-Chloronaphthalene	10.	U
88-74-4-----	2-Nitroaniline	26.	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	26.	U
83-47-9-----	Acenaphthene	10.	U

Handwritten signature/initials

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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-5M

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-5M

Sample wt/vol: 880.0 (g/mL) ML

Lab File ID: A2601

Level: (low/med) LOW

Date Received: 11/09/99

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

Date Extracted: 11/11/99

Concentrated Extract Volume: 900.0 (uL)

Date Analyzed: 12/02/99

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

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

CAS NO.

COMPOUND

Q

51-28-5-----	2,4-Dinitrophenol	26.	U
100-02-7-----	4-Nitrophenol	26.	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	26.	U
534-52-1-----	4,6-Dinitro-2-methylphenol	26.	U J
86-30-6-----	N-Nitrosodiphenylamine	10.	U
101-55-3-----	4-Bromophenyl-phenylether	10.	U J
118-74-1-----	Hexachlorobenzene	10.	U J
87-86-5-----	Pentachlorophenol	26.	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 J
56-55-3-----	Benzo(a)Anthracene	10.	U
218-01-9-----	Chrysene	10.	U
117-81-7-----	Bis(2-Ethylhexyl)Phthalate	5.	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

(4) Cannot be separated from diphenylamine

FORM 1 SV-2

3790

35

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-5M

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-5M

Sample wt/vol: 880.0 (g/mL) ML

Lab File ID: A2601

Level: (low/med) LOW

Date Received: 11/09/99

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

Date Extracted: 11/11/99

Concentrated Extract Volume: 900.0 (uL)

Date Analyzed: 12/02/99

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I-SV-TIC

3790

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-5S

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-5S

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

Lab File ID: A2600

Level: (low/med) LOW

Date Received: 11/09/99

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

Date Extracted: 11/10/99

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 12/02/99

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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

As of 2/24/00

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-5S

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-5S

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

Lab File ID: A2600

Level: (low/med) LOW

Date Received: 11/09/99

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

Date Extracted: 11/10/99

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 12/02/99

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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	10.	U
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

FORM 1 SV-2

3/9038

6/24/00

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-5S

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-5S

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

Lab File ID: A2600

Level: (low/med) LOW

Date Received: 11/09/99

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

Date Extracted: 11/10/99

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 12/02/99

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

Number TICs found: 4

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN OXYGENATED	7.16	7.	BJ
2.	UNKNOWN AROMATIC	13.44	2.	J
3.	UNKNOWN	28.04	60.	BJ
4.	UNKNOWN	28.42	2.	J
5.				
6.				
7.				
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30.				

FORM I-SV-TIC

3/90

39

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8M

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-8M

Sample wt/vol: 930.0 (g/mL) ML

Lab File ID: A2604

Level: (low/med) LOW

Date Received: 11/11/99

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

Date Extracted: 11/15/99

Concentrated Extract Volume: 900.0 (uL)

Date Analyzed: 12/02/99

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

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

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

CAS NO.

COMPOUND

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.	UJ
59-50-7-----	4-Chloro-3-methylphenol	10.	U
91-57-6-----	2-Methylnaphthalene	10.	U
77-47-4-----	Hexachlorocyclopentadiene	10.	UJ
88-06-2-----	2,4,6-Trichlorophenol	10.	U
95-95-4-----	2,4,5-Trichlorophenol	24.	U
91-58-7-----	2-Chloronaphthalene	10.	U
88-74-4-----	2-Nitroaniline	24.	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	24.	U
83-32-9-----	Acenaphthene	10.	U

10/24/00

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8M

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-8M

Sample wt/vol: 930.0 (g/mL) ML

Lab File ID: A2604

Level: (low/med) LOW

Date Received: 11/11/99

Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/15/99

Concentrated Extract Volume: 900.0 (uL)

Date Analyzed: 12/02/99

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

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

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

CAS NO.

COMPOUND

Q

51-28-5-----	2,4-Dinitrophenol	24.	U
100-02-7-----	4-Nitrophenol	24.	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	24.	U
534-52-1-----	4,6-Dinitro-2-methylphenol	24.	U J
86-30-6-----	N-Nitrosodiphenylamine	10.	U
101-55-3-----	4-Bromophenyl-phenylether	10.	U J
118-74-1-----	Hexachlorobenzene	10.	U J
87-86-5-----	Pentachlorophenol	24.	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 J
56-55-3-----	Benzo(a)Anthracene	10.	U
218-01-9-----	Chrysene	10.	U
117-81-7-----	Bis(2-Ethylhexyl)Phthalate	1.	U 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

A20124/0

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-8M

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-8M

Sample wt/vol: 930.0 (g/mL) ML

Lab File ID: A2604

Level: (low/med) LOW

Date Received: 11/11/99

Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/15/99

Concentrated Extract Volume: 900.0 (uL)

Date Analyzed: 12/02/99

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

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

Number TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	2.00	2.	J
2.	UNKNOWN	2.43	2.	BJ
3.	UNKNOWN	2.55	3.	J
4.	COLUMN BLEED	7.34	2.	J
5.	UNKNOWN	28.03	20.	BJ
6.				
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FORM I SV-TIC

3/90

42

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8S

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-8S

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

Lab File ID: A2602

Level: (low/med) LOW

Date Received: 11/09/99

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

Date Extracted: 11/10/99

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 12/02/99

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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
103-35-0-----	Acenaphthylene	10.	U

10/1/2000

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8S

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-8S

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

Lab File ID: A2602

Level: (low/med) LOW

Date Received: 11/09/99

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

Date Extracted: 11/10/99

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 12/02/99

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

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

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

CAS NO.

COMPOUND

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 J
86-30-6-----	N-Nitrosodiphenylamine	10.	U
101-55-3-----	4-Bromophenyl-phenylether	10.	U J
118-74-1-----	Hexachlorobenzene	10.	U J
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 J
56-55-3-----	Benzo(a)Anthracene	10.	U
218-01-9-----	Chrysene	10.	U
117-81-7-----	Bis(2-Ethylhexyl)Phthalate	10.	U
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

Cannot be separated from diphenylamine

FORM 1 SV-2

3/90

44

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-8S

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-8S

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

Lab File ID: A2602

Level: (low/med) LOW

Date Received: 11/09/99

Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/10/99

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 12/02/99

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	28.01	7.	BJ
2.				
3.				
4.				
5.				
6.				
7.				
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FORM 1-SV-TIC

3/90

45

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-12S

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-12S

Sample wt/vol: 900.0 (g/mL) ML

Lab File ID: A2603

Level: (low/med) LOW

Date Received: 11/09/99

Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/10/99

Concentrated Extract Volume: 900.0 (uL)

Date Analyzed: 12/02/99

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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.	UJ
59-50-7-----	4-Chloro-3-methylphenol	10.	U
91-57-6-----	2-Methylnaphthalene	10.	U
77-47-4-----	Hexachlorocyclopentadiene	10.	UJ
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
108-95-2-----	Phenol	10.	U

4/21/24/02

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-12S

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-12S

Sample wt/vol: 900.0 (g/mL) ML

Lab File ID: A2603

Level: (low/med) LOW

Date Received: 11/09/99

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

Date Extracted: 11/10/99

Concentrated Extract Volume: 900.0 (uL)

Date Analyzed: 12/02/99

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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	10	U
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

FORM 1 SV-2

3/90

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1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-12S

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9902 SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-12S

Sample wt/vol: 900.0 (g/mL) ML

Lab File ID: A2603

Level: (low/med) LOW

Date Received: 11/09/99

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

Date Extracted: 11/10/99

Concentrated Extract Volume: 900.0 (uL)

Date Analyzed: 12/02/99

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

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

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. - -	UNKNOWN	3.14	20.	J
2. - -	UNKNOWN	28.02	3.	BJ
3.				
4.				
5.				
6.				
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30.				

FORM I-SV-TIC

3790

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