

421 New Karner Road
Albany, NY 12205
(518) 452-4291
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Ben
FYK 12/10/97

8 December 1997

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



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

Dear Dr. Matuszek:

The Agreement for Professional Engineering Services between the New York State Department of Health (NYSDOH) and Environmental Resource Management-Northeast (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 Fourth Year, Second Half (24 October 1997) 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 Fourth Year, Second Half Ground Water Monitoring Report for your files. One copy of this Final Report has also been mailed to the NYSDEC office on 8 December 1997.

Written summation of field and analytical procedures have not been provided in this report since these methods and modes have previously been presented in numerous prior reports. In addition, analyses of data and conclusion drawn from these analyses do not differ significantly from those presented in our previous five reports.

Dr. John Matuszek
8 December 1997
EnviroClean Project No. 190.001
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Should you have any further questions or require additional information,
please feel free to contact me.



Sincerely,

Joseph S. Besca
Regional Manager, EnviroClean-Northeast

cc Mr. Gerald Rider, NYSDEC

NEW YORK STATE DEPARTMENT OF HEALTH

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

8 December 1997

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



NEW YORK STATE DEPARTMENT OF HEALTH

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

8 December 1997

Prepared for:

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

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

[REDACTED]

Figure 5-1
Ground Water Storage Tank Operating Report

Date	Time	Tank Fill			Storage Tank Initial Readings		Storage Tank Final Readings *		Volume Disposed *	Total Volume Disposed *
					Level	Volume	Level **	Volume **		
		Start	Ongoing	Full	%	Gallons *	%	Gallons	Gallons	Gallons
11/10/93	10:20				1.0		2.4	231		
11/12/93	10:15				2.4		3.6	309		
11/15/93	10:50				3.6		4.8	387		
11/17/93	8:15				4.8		5.8	452		
11/19/93	7:45				5.8		6.6	504		
11/22/93	7:50				6.6		7.4	556		
11/24/93	7:55				7.4		8.4	621		
11/29/93	8:05				8.4		9.2	673		
12/1/93	7:50				9.2		10.0	725		
12/3/93	7:55				10.0		11.0	790		
12/9/93	8:10				11.0		12.0	855		
12/13/93	7:55				12.0		12.8	907		
12/16/93	8:15				12.8		13.8	972		
12/20/93	8:20				13.8		14.8	1037		
12/23/93	7:50				14.8		15.7	1095		
12/30/93	14:40				15.7		16.6	1154		
1/5/94	8:15				16.6		17.5	1213		
1/13/94	9:30				17.5		18.5	1278		
1/19/94	9:15				18.5		19.5	1343		
1/21/94	8:20				19.5		20.4	1401		
1/25/94	7:15				20.4		21.4	1466		
1/28/94	10:00				21.4		22.4	1531		
1/31/94	9:40				22.4		23.4	1596		
2/4/94	14:55				23.4		23.8	1622		
2/11/94	9:50						26.8	1817		
2/22/94	18:00						29.6	1999		
2/25/94	12:30				29.6		30.1	2031		
3/1/94	16:30				31.2		31.4	2116		
3/4/94	13:40				31.4		32.2	2168		
3/8/94	8:25				32.2		33.0	2220		
3/11/94	10:55				33.0		33.9	2279		
3/15/94	10:00				33.9		34.8	2337		

** If tank is not being drained, do not fill in these columns.

* One percent (1%) is approximately equal to 65 gallons.

Figure 5-1
Ground Water Storage Tank Operating Report

Date	Time	Tank Fill			Storage Tank Initial Readings		Storage Tank Final Readings *		Volume Disposed *	Total Volume Disposed *
					Level	Volume	Level **	Volume **		
		Start	Ongoing	Full	%	Gallons *	%	Gallons	Gallons	Gallons
3/18/94	14:00				34.8		35.7	2395		
3/22/94	10:30				35.7		36.5	2448		
3/29/94	7:30						43.0	2870		
4/5/94	7:45						48.5	3215		
4/8/94	16:00						50.2	3338		
4/11/94	13:15						52.3	3475		
4/15/94	11:30						55.2	3663		
4/25/94	12:30						62.6	4144		
4/29/94	13:30						65.6	4339		
5/2/94	13:15						68.5	4527		
5/4/94	12:00				68.5		69.4	4586		
5/6/94	10:00				69.4		70.4	4651		
5/9/94	12:00				70.4		71.3	4710		
5/11/94	13:00				71.3		72.2	4768		
5/13/94	14:30				72.2		73.4	4846	4683	4683
5/16/94	10:00						1.35	163		
5/17/94	9:30				1.35		2.4	243		
5/20/94	13:00				Level Indicator Repairs by J.R. Hall - Module Removed					
5/23/94	13:30				2.4		3.6	327		
5/26/94	11:00				3.6		4.8	411		
5/31/94	10:00				4.8		6.0	495		
6/3/94	11:00						8.0	635		
6/6/94	9:45				8.0		8.8	691		
6/8/94	8:05				8.8	Module Replaced	9.8	761		
6/10/94	12:00				9.8		10.3	796		
6/13/94	11:00				10.3		11.2	859		
6/16/94	9:00				11.2		11.8	901		
6/17/94	11:45						12.3	936		
6/20/94	14:00						13.1	992		
6/22/94	13:30						13.9	1048		
6/24/94	13:00						15.0	1125		
6/28/94	13:00						16.5	1230		

** If tank is not being drained, do not fill in these columns.

* One percent (1%) is approximately equal to 65 gallons (winter).

**Figure 5-1
Ground Water Storage Tank Operating Report**

Date	Time	Tank Fill			Storage Tank Initial Readings		Storage Tank Final Readings *		Volume Disposed *	Total Volume Disposed *
					Level	Volume	Level **	Volume **		
		Start	Ongoing	Full	%	Gallons *	%	Gallons	Gallons	Gallons
7/1/94	8:15						18.1	1342		
7/5/94	10:30						19.3	1426		
7/8/94	14:00						20.5	1510		
7/11/94	12:45						21.7	1594		
7/13/94	10:15						22.3	1636		
7/15/94	8:30				LEAK DETECTOR ALARM GOES OFF					
7/18/94	13:30				22.3		23.4	1713		
7/19/94	11:00				23.4		23.9	1748		
7/21/94	11:15				23.9		24.7	1804		
7/26/94	7:30						27.1	1972		
8/1/94	7:30						30.5	2210		
8/3/94	7:45						32.2	2323		
8/5/94	7:45						33.2	2399		
8/8/94	8:00						34.5	2490		
8/10/94	8:00						34.7	2504		
8/12/94	9:00						35.5	2560		
8/15/94	8:45						37.3	2686		
8/17/94	8:00						38.6	2777		
8/19/94	18:00						39.9	2868		
8/23/94	11:45						41.3	2966		
8/26/94	13:00						42.5	3050		
8/31/94	16:30						44.6	3197		
9/2/94	13:30						45.8	3281		
9/6/94	13:30						47.2	3379		
9/8/94	11:00						48.4	3463		
9/13/94	13:00						49.9	3568		
9/15/94	17:15						50.6	3617		
9/19/94	14:15						52.5	3750		
9/22/94	13:00						53.8	3841		
9/26/94	9:10						55.5	3960		
9/28/94	10:30						56.6	4037		
10/4/94	11:45						59.6	4247		

** If tank is not being drained, do not fill in these columns.

* One percent (1%) is approximately equal to 65 gallons (winter)

Figure 5-1
Ground Water Storage Tank Operating Report

Date	Time	Tank Fill			Storage Tank Initial Readings		Storage Tank Final Readings *		Volume Disposed *	Total Volume Disposed *
					Level	Volume	Level **	Volume **		
		Start	Ongoing	Full	%	Gallons *	%	Gallons	Gallons	Gallons
10/6/94	9:50						60.5	4310		
10/11/94	11:20						62.5	4450		
10/17/94	9:12						65.1	4632		
10/19/94	13:00						65.7	4674		
10/21/94	13:30						66.3	4716		
10/24/94	13:00						67.2	4779		
10/26/94	7:30						68.1	4842		
10/29/94	10:00						69.7	4954		
11/2/94	8:55						71.6	5087		
11/9/94	7:55						74.0	5255		
11/11/94	10:17						75.0	5325		
11/15/94	10:03						76.0	5395		
11/18/94	10:28						77.3	5486		
11/21/94	10:43						78.6	5577		
11/29/94	9:10						79.6	5647	5546	10,229
12/6/94	8:00				Level Indicator Repairs by J.R. Hall - Module Removed					
12/6/94	8:30						3.8	341		
12/8/94	12:25						3.6	327		
12/12/94	11:17						5.0	425		
12/14/94	8:56						5.8	481		
12/19/94	9:06						7.8	621		
12/21/94	14:24						8.5	670		
12/27/94	9:20						11.5	880		
1/4/95	9:15						14.7	1104		
1/6/95	9:30						15.8	1181		
1/10/95	9:06						17.7	1314		
1/13/95	12:00						19.2	1419		
1/17/95	5:00						20.1	1482		
1/24/95	9:07						24.7	1804		
1/26/95	7:22						25.7	1874		
2/1/95	8:15						26.6	1937		
2/2/95	12:15						27.1	1972		

** If tank is not being drained, do not fill in these columns.

* One percent (1%) is approximately equal to 75 gallons.

Figure 5-1
Ground Water Storage Tank Operating Report

Date	Time	Tank Fill			Storage Tank Initial Readings		Storage Tank Final Readings *		Volume Disposed *	Total Volume Disposed *
					Level	Volume	Level **	Volume **		
		Start	Ongoing	Full	%	Gallons *	%	Gallons	Gallons	Gallons
2/8/95	14:15						29.6	2147		
2/10/95	12:15						31.0	2245		
2/14/95	12:15						32.5	2350		
2/15/95	9:25						33.1	2392		
2/21/95	11:15						35.0	2525		
2/23/95	11:25						36.2	2609		
2/27/95	14:12						38.4	2763		
3/2/95	11:03						40.1	2882		
3/9/95	14:30						43.4	3113		
3/13/95	13:25						45.2	3239		
3/16/95	9:30						46.3	3316		
3/17/95	9:35						46.8	3351		
3/21/95	14:19						49.2	3591		
3/23/95	14:02						50.4	3603		
3/27/95	10:15						52.7	3764		
3/29/95	9:30						53.5	3820		
4/3/95	11:10						56.5	4030		
4/5/95	9:38						57.9	4128		
4/14/95	16:35						61.9	4408		
4/19/95	10:52						64.1	4562		
4/21/95	10:07						64.8	4611		
4/24/95	09:37						66.4	4723		
4/28/95	13:52						69.0	4905		
5/2/95	11:55						70.8	5031		
5/9/95	10:00						73.6	5227		
5/11/95	08:54						74.7	5304		
5/15/95	9:00						76.5	5430		
5/19/95	9:30							59	5371	15,600
5/19-6/2/95	Problems with Dial Readout and Probe - Adjustment									
6/2/95	9:00						0.6	119		
6/5/95	10:45						1.0	148		
6/6/95	10:15						1.5	185		

** If tank is not being drained, do not fill in these columns.

* One percent (1%) is approximately equal to 70 gallons.

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Figure 5-1
Ground Water Storage Tank Operating Report

Date	Time	Tank Fill			Storage Tank Initial Readings		Storage Tank Final Readings *		Volume Disposed *	Total Volume Disposed *
					Level	Volume	Level **	Volume **		
		Start	Ongoing	Full	%	Gallons *	%	Gallons	Gallons	Gallons
6/8/95	3:15						2.2	236		
6/13/95	08:35						4.1	374.3		
6/16/95	09:30						5.1	447.3		
6/21/95	11:05						6.5	550		
6/27/95	13:00						8.5	696		
7/5/95	14:05						10.9	871		
7/10/95	10:15						12.8	1009.4		
7/11/95	2:15pm						13.0	1024		
7/14/95	9:45						13.7	1075.1		
7/19/95	10:40						15.2	1185		
7/21/95	10:36						16.1	1256		
7/25/95	13:52						17.9	1382		
8/1/95	14:10						19.8	1520		
8/4/95	14:30						21.4	1637		
8/7/95	14:05						23.7	1805		
8/10/95	09:00						25.2	1915		
8/14/95	09:50						26.6	2017		
8/17/95	04:10						27.6	2090		
8/21/95	09:30						28.5	2156		
8/23/95	08:49						29.7	2243		
8/28/95	13:20						31.3	2360		
9/5/95	13:40						33.6	2528		
9/11/95	13:50						36.9	2769		
9/14/95	11:35						37.5	2813		
9/18/95	14:30						38.9	2915		
9/21/95	11:25						40.4	3024		
9/25/95	10:50						42.5	3178		
9/28/95	10:45						42.8	3199		
10/4/95	14:48						44.3	3309		
10/9/95	14:28						46.8	3491		
10/11/95	14:14						48.2	3594		
10/16/95	13:40						50.0	3725		

** If tank is not being drained, do not fill in these columns.

* One percent (1%) is approximately equal to 70 gallons.

Figure 5-1
Ground Water Storage Tank Operating Report

7/

Date	Time	Tank Fill			Storage Tank Initial Readings		Storage Tank Final Readings *		Volume Disposed *	Total Volume Disposed *
					Level	Volume	Level **	Volume **		
		Start	Ongoing	Full	%	Gallons *	%	Gallons	Gallons	Gallons
10/17/95	14:30						50.4	3754		
10/20/95	10:00						52.0	3871		
10/27/95	10:25						55.9	4156		
10/30/95	10:30						57.5	4273		
11/03/95	08:30						59.1	4389		
11/07/95	10:30						61.6	4572		
11/10/95	10:00						63.2	4689		
11/14/95	08:30						65.7	4871		
11/17/95	13:30						67.1	4973		
11/20/95	08:15						68.9	5105	5060	20,660
								55		
12/7/95	14:00						2.4	243		
12/12/95	9:15						4.6	397		
12/19/95	9:30						8.4	663		
12/24/95	9:45						11.2	859		
12/29/95	10:15						12.4	943		
1/4/96	11:00						15.0	1,125		
1/10/96	14:30						19.2	1,419		
1/16/96	10:00						21.1	1,552		
1/22/96	09:50						23.0	1,685		
1/29/96	09:30						24.9	1,818		
1/31/96	10:20						26.7	1,944		
2/9/96	15:30						33.7	2,434		
2/13/96	10:05						35.4	* 2,553 *		
2/19/96	Probes Cleaned - Pump still not working - think "ice" in line									
2/23/96	9:10						36.2	2,609		
2/26/96	14:40						37.9	2,728		
2/29/96	09:15						39.8	2,861		
3/5/96	08:50						42.2	3,029		
3/11/96	09:15						45.5	3,260		
3/13/96	10:25						46.1	3,302		

** If tank is not being drained, do not fill in these columns. (# x 73) + 75 (6/2/95 to 11/20/95)
 * One percent (1%) is approximately equal to 70 gallons. (1# x 70) + 75 (12/7/95 to 4/20/96)

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Figure 5-1
Ground Water Storage Tank Operating Report

Date	Time	Tank Fill			Storage Tank Initial Readings		Storage Tank Final Readings *		Volume Disposed *	Total Volume Disposed *
					Level	Volume	Level **	Volume **		
		Start	Ongoing	Full	%	Gallons *	%	Gallons	Gallons	Gallons
3/15/96	10:10						46.9	3,358		
3/18/96	10:15						47.7	3,414		
3/21/96	13:45						50.2	3,589		
3/26/96	09:30						53.0	3,785		
3/29/96	10:50						55.4	3,953		
4/3/96	10:00						57.7	4,114		
4/8/96	11:25						60.0	4,275		
4/11/96	09:10						61.3	4,366		
4/16/96	12:15						64.0	4,555		
4/18/96	14:45						64.8	4,611		
4/22/96	12:00						66.6	4,737		
4/30/96	07:45						71.6	5,087	5,033	25,693
4/30/96	11:00							54		
5/17/96	12:20						1.4	173		
5/24/96	10:00						3.3	306		
5/28/96	12:25						4.2	369		
5/30/96	9:25						5.8	481		
6/3/96	10:50						7.5	600		
6/6/96	10:00						9.1	712		
6/11/96	10:00						11.8	901		
6/14/96	13:52						13.5	1020		
6/18/96	09:10						15.3	1146		
6/25/96	12:17						18.8	1391		
6/27/96	13:48						19.8	1461		
7/1/96	16:52						21.9	1608		
7/10/96	11:30						25.8	1881		
7/15/96	11:16						28.7	2084		
7/23/96	11:15						32.4	2343		
7/29/96	15:40						34.9	2518		
8/2/96	09:08						36.7	2644		
8/7/96	10:50						38.6	2777		

** If tank is not being drained, do not fill in these columns.

* One percent (1%) is approximately equal to 70 gallons.

$$(\# \times 70) + 75$$

Figure 5-1
Ground Water Storage Tank Operating Report

Date	Time	Tank Fill			Storage Tank Initial Readings		Storage Tank Final Readings *		Volume Disposed *	Total Volume Disposed *
					Level	Volume	Level **	Volume **		
		Start	Ongoing	Full	%	Gallons *	%	Gallons	Gallons	Gallons
8/14/96	09:30						41.6	2987		
8/16/96	16:00						42.3	3036		
8/21/96	10:55						44.2	3169		
8/23/96	15:25						45.1	3232		
8/27/96	08:30						45.9	3288		
8/30/96	11:01						47.4	3393		
9/5/96	09:10						49.6	3547		
9/10/96	09:22						51.4	3673		
9/12/96	15:10						51.8	3701		
9/17/96	09:40						54.0	3855		
9/23/96	16:05						56.5	4030		
9/27/96	15:25						57.6	4107		
10/1/96	13:30						59.3	4226		
10/8/96	11:15						62.7	4464		
10/14/96	13:21						65.4	4653		
10/18/96	14:20						67.1	4772		
10/22/96	15:55						69.0	4905		
10/25/96	12:00						70.0	4975		
10/28/96	08:10						70.6	5017	5,004	30,697
10/28/96					Groundwater Collection System Turned off Following Pump Out of Liquid on 10/28/96					
12/5/96					At request of NYSDOH groundwater pump turned back on 12/5/96 - Pipes cleaned					
12/5/96	09:50						1.0	145		
12/9/96	09:25						3.1	292		
12/12/96	14:40						4.8	411		
12/17/96	10:05						7.3	586		
12/20/96	10:20						8.9	698		
12/24/96	10:25						10.9	838		
12/27/96	12:35						12.4	943		
12/31/96	11:06						14.5	1090		

** If tank is not being drained, do not fill in these columns.

* One percent (1%) is approximately equal to 70 gallons.

$$(\# \times 70) + 75$$

* LDM + TE SITE VIS. to recal. tank lev. Pr

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Figure 5-1
Ground Water Storage Tank Operating Report

Date	Time	Tank Fill			Storage Tank Initial Readings		Storage Tank Final Readings *		Volume Disposed *	Total Volume Disposed *
					Level	Volume	Level **	Volume **		
		Start	Ongoing	Full	%	Gallons *	%	Gallons	Gallons	Gallons
Jan 3, 97	10:15 AM						16.1	1202		
Jan 7, 97	9:58 AM						18.1	1342		
Jan 10, 97	2:22 PM						19.8	1461		
Jan 13, 97	10:44						21.3	1566		
Jan 17, 97	12:30						23.3	1706		
Jan 20, 97	3:06						24.7	1804		
Jan 24, 97	3:30				* DWM + TE turned unit off -		24.7	1804		
Feb 3, 97	10:15				Cleaned level indicators		28.7	2084		
Feb 7, 97	12:30						30.5	2210		
Feb 11, 97	12:30						32.2	2329		
Feb 14, 97	2:15						33.6	2427		
Feb 18, 97	2:15						34.3	2476		
Feb 21, 97	1:49						35.6	2567		
Feb 24, 97	1:00						36.9	2658		
Feb 27, 97	1:30						38.3	2756		
Mar 3, 97	1:55						40.0	2875		
Mar 6, 97	2:20						41.8	3001		
Mar 12, 97	1:55 PM						44.9	3218		
Mar 14, 97	10:30						46.0	3295		
Mar 18, 97	9:30						48.3	3456		
Mar 21, 97	8:30						49.7	3554		
Mar 25, 97	1:50 PM						51.7	3694		
Mar 28, 97	9:30 AM						52.7	3764		
Apr. 1, 97	10:50 AM						55.1	3932		
Apr. 4, 97	09:50 AM						56.2	4009		
Apr. 7, 97	1:25 PM						57.7	4114		
Apr. 11, 97	3:30 PM						58.9	4198		
Apr. 16, 97*	11:00 AM						63.0	4405		
Apr. 18, 97**	3:00 PM						63.0	4405		
Apr. 21, 97	9:20 AM						65.6	4667		
Apr. 24, 97	3:45 PM						66.9	4758		
Apr 28, 97	7:15 AM						69.9	4968	4968	35,665

** If tank is not being drained, do not fill in these columns.

* One percent (1%) is approximately equal to 70 gallons.

$$(\# \times 70) + 75$$

* Pump shut off - needs following
** pump restarted

11/

Figure 5-1
Ground Water Storage Tank Operating Report

Date	Time	Tank Fill			Storage Tank Initial Readings		Storage Tank Final Readings *		Volume Disposed *	Total Volume Disposed *
					Level	Volume	Level **	Volume **		
		Start	Ongoing	Full	%	Gallons *	%	Gallons	Gallons	Gallons
5/2/97	12:00	X			0.0					
5/7/97	9:35				1.4	173				
5/8/97	11:00				2.4	243				
5/13/97	9:45				6.0	495				
5/16/97	10:00				7.8	621				
5/20/97	8:30				12.9	978				
5/23/97	9:45				14.8	1111				
5/27/97	16:15				16.9	1,258				
5/29/97	14:35				18.7	1,384				
6/3/97	17:05				20.9	1,538				
6/6/97	17:20				21.9	1,608				
6/11/97	12:00				23.2	1,699				
6/17/97	11:40				26.0	1,895				
6/23/97	13:15				29.0	2,105				
6/30/97	12:10				32.2	2,329				
7/3/97	14:30				33.4	2,413				
7/8/97	16:20				36.8	51				
7/11/97	09:45				37.2	2,679				
7/15/97	10:17				37.4	2,693				
7/18/97	7:30				38.2	2,749				
7/29/97	12:30				41.4	2,973				
7/31/97	12:00				41.7	2,994				
8/04/97	7:45				42.1	3,022				
8/07/97	7:45				42.5	3,050				
8/12/97	7:45				43.1	3,092				
8/15/97	11:45				44.9	3,218				
8/21/97	11:15				48.1	3,442				
8/25/97	12:15				50.0	3,575				
8/29/97	7:45				51.8	3,701				
9/2/97	16:40				53.6	3,827				
9/5/97	8:00				55.1	3,932				
9/10/97	7:45				56.3	4,016				

** If tank is not being drained, do not fill in these columns.

* One percent (1%) is approximately equal to 70 gallons.

$\div 12$

5-16

* One percent (1%) is approximately equal to 70 gallons.

Hazardous Waste Manifests

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS
HAZARDOUS WASTE MANIFEST

Please print or type. Do not staple.

P.O. Box 12820, Albany, New York 12212

Form Approved, CMB No. 2050-0039 Expires 9-30-96

**UNIFORM HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA No.

Manifest
Document No.2. Page 1
of 1Information in the shaded areas
is not required by Federal Law.

NY D 148615263 00002

3. Generator's Name and Mailing Address

New York State Department of Health
120 New Scotland Ave.; Albany, N.Y. 12233

A. State Manifest Document No.

NY B 858951 9

B. Generator's ID

Axelrod Institute

C. State Transporter's ID

9A00072631

D. Transporter's Phone (716) 873-9703

E. State Transporter's ID

F. Transporter's Phone ()

G. State Facility's ID

H. Facility's Phone

(716) 282-2676

5. Transporter 1 (Company Name)

Tonawanda Tank

6. US EPA ID Number

NY D 097644891

7. Transporter 2 (Company Name)

8. US EPA ID Number

9. Designated Facility Name and Site Address

BFI - CECOS - Waste water
5600 Niagara Falls Blvd.
Niagara Falls, NY 14304-1532

10. US EPA ID Number

NY D 080336241

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)

a. RQ Hazardous Waste, Liquid, N.O.S. 9,
NA 3082, PG III (F039)

12. Containers

No.

Type

13.
Total
Quantity14.
Unit
Wt/Vol15.
Waste No.XXI TT 5000
~~5000~~

G

EPA
F039
STATE
F039

b.

c.

d.

J. Additional Descriptions for Materials Listed Above

a.

b.

15. Special Handling Instructions and Additional Information

Emergency Site Contact - Mr. Laurie Duncan @ (518) 474-3215
Product Code # 12280-AAB Work Order # 280944

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.

If I am a large quantity generator, I certify that I have program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a small generator, I have made a good faith effort to minimize my waste and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name

Signature

Mo. Day Year

CHARLES E HATCH

[Signature]

11/03/97

17. Transporter 1 (Acknowledgement of Receipt of Materials)

Printed/Typed Name

Signature

Mo. Day Year

Bruce Yorum

[Signature]

10/30/97

18. Transporter 2 (Acknowledgement of Receipt of Materials)

Printed/Typed Name

Signature

Mo. Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name

Signature

Mo. Day Year

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

DATE

10 / 30 / 97

PICK UP			DELIVERY		
NAME DAVID AXELROD INSTITUTE			NAME CECOS		
STREET 120 New Scotland Road			STREET 56th & Pine Avenue		
CITY Albany	STATE NY	ZIP CODE	CITY Niagara Falls	STATE NY	ZIP CODE
CONTACT NAME			CONTACT NAME		
SCHEDULED TIME 8:30 AM			SCHEDULED TIME 8:00 AM 10/31		
ADDITIONAL INFORMATION			ADDITIONAL INFORMATION		

PURCHASE ORDER NO.	WORK ORDER NUMBER 280144	MANIFEST NUMBER N.Y. 8858951 9	PRODUCT CODE
LOAD NUMBER 19710141	TRACTOR NUMBER 18	TRAILER NUMBER 405	DRIVER'S NAME Locum

TYPE (CIRCLE ONE)	MATERIAL DESCRIPTION	QUANTITY
☒ TANK (S/S) (R/L) ☐ JAC ☐ DUMP ☐ VAN ☐ ROLL-OFF ☐ FLATBED	RQ Hazardous waste liquid N.O.S.F. NA3082 1 p6 III F039	5,000 Gal.

PICK UP	DELIVERY
ARRIVAL TIME 8:00 ☒ AM ☐ PM TRAILER EMPTY UPON ARRIVAL ☐ YES ☐ NO If not, explain below DIP MEASUREMENT (Tankers Only) Full INCHES COMMENTS: (EXPLAIN ALL DELAYS) Val from Tank Farm	DRIVER _____ DATE _____ ARRIVAL TIME _____ ☐ AM ☐ PM RELEASE TIME _____ ☐ AM ☐ PM TRAILER EMPTY UPON DEPARTURE ☐ YES ☐ NO (If not, explain below) COMMENTS: (EXPLAIN ALL DELAYS)
I, THE UNDERSIGNED, CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND COMPLETE. X David W. Myers HIPPER'S SIGNATURE	I, THE UNDERSIGNED, CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND COMPLETE. X _____ CONSIGNEE'S SIGNATURE

OFFICE USE ONLY

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

REF 5/96

Generator: New York State Department of Health Manifest Number: NYS 8589519

This waste is subject to the treatment standards specified in Part 265 Subpart D or is subject to applicable prohibition levels specified in 268.12 or RCRA section 3004(d).

1. Identify all EPA codes applicable to this wastestream as per 40CFR261/6NYCR Part 271. Identify the corresponding subcategory or check none if waste code has no subcategory.

[illegible]

Thallium >130 mg/liter
Nickel >134 mg/liter
Halogenated Organic Compounds ≥ 1000 ppm

Signature John P. Doyle Date 10/30/97

Title Secretary Officer



This shipment included F039 multisource leachate. The individual constituents likely to be present are identified below or on the following page.

F039 AND UNIVERSAL TREATMENT STANDARDS CONSTITUENTS

Acenaphthene	Chlordane ¹	trans-1,2-Dichloroethylene
Acenaphthylene	p-Chloroaniline	2,4-Dichlorophenol
Acetone	Chlorobenzene	2,6-Dichlorophenol
Acetonitrile	Chlorobenzilate	2,4-Dichlorophenoxyacetic acid
Acetophenone	2-Chloro-1,3-butadiene	(2,4-D)
2-Acetylaminofluorene	Chlorodibromomethane	1,2-Dichloropropane
Acrolein	Chloroethane	cis-1,3-Dichloropropylene
Acrylamide ¹	Chloroform	trans-1,3-Dichloropropylene
Acrylonitrile	p-Chloro-m-cresol	Dieldrin
Aldrin	2-Chloroethyl vinyl ether ¹	Diethyl phthalate
4-Aminobiphenyl	Chloromethane (methyl chloride)	p-Dimethylaminoazobenzene ¹
Aniline	2-Chloronaphthalene	2,4-Dimethyl phenol
Anthracene	2-Chlorophenol	Dimethyl phthalate
Aramite	3-Chloropropylene	Di-n-butyl phthalate
alpha-BHC	Chrysene	1,4-Dinitrobenzene
beta-BHC	o-Cresol	4,6-Dinitro-o-cresol
delta-BHC	m-Cresol	2,4-Dinitrophenol
gamma-BHC	p-Cresol	2,4-Dinitrotoluene
Benz(a)anthracene	Cyclohexanone	2,6-Dinitrotoluene
Benzal chloride ¹	o,p'-DDD	Di-n-octyl phthalate
Benzene	p,p'-DDD	Di-n-propylnitrosamine
Benzo(a)pyrene	o,p'-DDE	1,4-Dioxane
Benzo(b)fluoranthene	p,p'-DDE	Diphenylamine
Benzo(k)fluoranthene	o,p'-DDT	Diphenylnitrosamine
Benzo(g,h,i)perylene	p,p'-DDT	1,2-Diphenyl hydrazine
Bis(2-chloroethoxy)methane	Dibenz(a,h)anthracene	Disulfoton
Bis(2-chloroethyl)ether	Dibenzo(a,e)pyrene	Endosulfan I
Bis(2-chloroisopropyl)ether	1,2-Dibromo-3-chloropropane	Endosulfan II
Bis(2-ethylhexyl)phthalate	1,2-Dibromoethane (ethylene dibromide)	Endosulfan sulfate
Bromodichloromethane	Dibromomethane	Endrin
Bromomethane (methyl bromide)	m-Dichlorobenzene	Endrin aldehyde
4-Bromophenyl phenyl ether	o-Dichlorobenzene	Ethyl acetate
n-Butyl alcohol	p-Dichlorobenzene	Ethyl benzene
Butyl benzyl phthalate	Dichlorodifluoromethane	Ethyl ether
2-sec-Butyl-4,6-dinitrophenol	1,1-Dichloroethane	Ethyl methacrylate
(Dinoseb)	1,2-Dichloroethane	Ethylene oxide
Carbon disulfide	1,1-Dichloroethylene	Famphur
Carbon tetrachloride		Fluoranthene

Fluorene
 Heptachlor
 Heptachlor epoxide
 Hexachlorobenzene
 Hexachlorobutadiene
 Hexachlorocyclopentadiene
 Hexachlorodibenzo-p-dioxins
 Hexachlorodibenzofurans
 Hexachloroethane
 Hexachloropropylene
 Indeno(1,2,3-c,d)pyrene
 Iodomethane
 Isobutyl alcohol
 Isodrin
 Isosafrole
 Kepone
 Methacrylonitrile
 Methanol
 Methapyrilene
 Methoxychlor
 3-Methylcholanthrene
 4,4-Methylene-bis(2-chloroaniline)
Methylene chloride
 Methyl ethyl ketone
 Methyl isobutyl ketone
 Methyl methacrylate
 Methyl methansulfonate
 Methyl parathion
Naphthalene
 2-Naphthylamine
 o-Nitroaniline¹
 p-Nitroaniline
 Nitrobenzene
 5-Nitro-o-toluidine
 o-Nitrophenol¹
 p-Nitrophenol
 N-Nitrosodiethylamine
 N-Nitrosodimethylamine

N-Nitrosodi-n-butylamine
 N-Nitrosomethylethylamine
 N-Nitrosomorpholine
 N-Nitrosopiperidine
 N-Nitrosopyrrolidine
 Parathion
 PCBs (total)
 Pentachlorobenzene
 Pentachlorodibenzo-p-dioxins
 Pentachlorodibenzofurans
 Pentachloroethane¹
 Pentachloronitrobenzene
 Pentachlorophenol
 Phenacetin
 Phenanthrene
 Phenol
 Phorate
 Phthalic acid¹
 Phthalic anhydride
 Pronamide
 Propanenitrile (ethyl cyanide)
 Pyrene
 Pyridine
 Safrole
 Silvex (2,4,5-TP)
 1,2,4,5-Tetrachlorobenzene
 Tetrachlorodibenzo-p-dioxins
 Tetrachlorodibenzofurans
 1,1,1,2-Tetrachloroethane
 1,1,2,2-Tetrachloroethane
 Tetrachloroethylene
 2,3,4,6-Tetrachlorophenol
Toluene
 Toxaphene
 Tribromomethane (bromoform)
 1,2,4-Trichlorobenzene
 1,1,1-Trichloroethane
 1,1,2-Trichloroethane

Trichloroethylene
 Trichloromonofluoromethane
 2,4,5-Trichlorophenol
 2,4,6-Trichlorophenol
 2,4,5-Trichlorophenoxyacetic acid (2,4,5-T)
 1,2,3-Trichloropropane
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Tris(2,3-dibromopropyl) phosphate
 Vinyl chloride
 Xylenes (total)

 Antimony
 Arsenic
 Barium
 Beryllium
 Cadmium
 Chromium (total)
 Cyanide (total)
 Cyanide (amenable)
 Fluoride
 Lead
 Mercury (retort residues)
 Mercury (all others)
 Nickel
 Selenium
 Silver
 Sulfide
 Thallium
 Vanadium

¹This constituent is not a regulated hazardous constituent in F039.

²This constituents includes alpha and gamma isomers.

ATTACHMENT 1

DATA VALIDATION REVIEW OF
GROUND WATER SAMPLE ANALYSES
NYSDOH WADSWORTH CENTER
ERM-NORTHEAST PROJECT NO. 400.141
AES CASE NUMBER: EC9702, SDG NUMBER: MW-4D



Deliverables

The above referenced Data Summary Package and Sample Data Package 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 Semi-Volatile Organic Compounds (SVOCs). The data have been validated according to the protocols and QC requirements of the ASP, the USEPA National Functional Guidelines for Organic Data Review (February 1994 revision), and the reviewer's professional judgment.

This validation report pertains to the following samples:

<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	

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, field 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 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 percent difference (RPD) between the initial calibration response factors or 25% percent difference (%D) between the initial calibration average response factor and the continuing calibration response factor. Associated field samples are also listed. Positive sample results for these compounds are considered estimated and flagged "J", while non-detect results are flagged "UJ".



Calibration	Compound	Deficiency	Associated Samples
10/28/97 (1652-1848)	acetone	RPD = 46.5	all samples
10/31/97 (0828)	acetone	%D = 42.5	all samples

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

SEMI-VOLATILES

- Method blanks SBLK01 and SBLK02 contained the compounds listed in the table below. Concentrations of these compounds in associated samples that are less than five times the blank concentration are negated. Note that an early eluting unknown oxygenated compound and an unknown phthalate were each detected in separate method blanks as well as several of the samples not associated with each of these method blanks. These compounds are laboratory artifacts and their presence in the samples has been rejected regardless of whether the TIC was detected in the associated method blank or not.

Blank ID	Compound	Concentration (µg/l)	Associated Samples
SBLK01	1,4-dichlorobenzene	2	MW-8S, MW-5S,
	pyrene	0.8	MW-4M, MW-4D,
	unknown oxy cmpd @ 3.28	6	MW-5M, MW-12S
	unknown @ 33.31	18	
SBLK02	1,4-dichlorobenzene	2	MW-8M MS/MSD,
	unknown phthalate @ 31.04	8	MW-4S, SMSB
	unknown @ 33.30	18	

- The following table lists compounds that exceeded 25% percent difference (%D) between the initial calibration average response factor and the continuing calibration response factor. Associated field samples are also listed. Positive sample results for these compounds are considered estimated and flagged "J", while non-detect results are flagged "UJ".



Calibration	Compound	Deficiency	Associated Samples
11/14/97 (1651)	bis(2-chloroethyl)ether	%D = 26.5	all samples
	4-chloro-3-methylphenol	%D = 27.1	
	4-nitroaniline	%D = 52.7	
	carbazole	%D = 31.9	
	benzo(k)fluoranthene	%D = 33.2	
	2,4,6-tribromophenol (surr)	%D = 30.0	

Package Summary:

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

Signed: Douglas A. Wolf
Douglas A. Wolf, P.G.
Manager, Data Quality Assurance

Dated: 8 December 1997

SDG NUMBER: *MW-4D VOC*

SAMPLE I.D.	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED	ASSOCIATED METHOD BLANK	ASSOCIATED INITIAL CALIBRATION	ASSOCIATED CONTINUING CALIBRATION
MW-4S	10-24-97	10-24-97	10-31-97	VBLK01	10-28-97 (1652-1848)	10-31-97 (0828)
MW-4M	10-24-97	10-24-97	10-31-97	VBLK01	10-28-97 (1652-1848)	10-31-97 (0828)
MW-4D	10-24-97	10-24-97	10-31-97	VBLK01	10-28-97 (1652-1848)	10-31-97 (0828)
MW-5S	10-24-97	10-24-97	10-31-97	VBLK01	10-28-97 (1652-1848)	10-31-97 (0828)
MW-5M	10-24-97	10-24-97	10-31-97	VBLK01	10-28-97 (1652-1848)	10-31-97 (0828)
MW-8S	10-24-97	10-24-97	10-31-97	VBLK01	10-28-97 (1652-1848)	10-31-97 (0828)
MW-8M	10-24-97	10-24-97	10-31-97	VBLK01	10-28-97 (1652-1848)	10-31-97 (0828)
MW-12S	10-24-97	10-24-97	10-31-97	VBLK01	10-28-97 (1652-1848)	10-31-97 (0828)
MW-8M MS	10-24-97	10-24-97	10-31-97	VBLK01	10-28-97 (1652-1848)	10-31-97 (0828)
MW-8M MSD	10-24-97	10-24-97	10-31-97	VBLK01	10-28-97 (1652-1848)	10-31-97 (0828)
Trip Blank	--	10-24-97	10-31-97	VBLK01	10-28-97 (1652-1848)	10-31-97 (0828)
MSB	--	--	10-31-97	VBLK01	10-28-97 (1652-1848)	10-31-97 (0828)

SDG NUMBER: MW-4D SVOC

SAMPLE I.D.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	ASSOCIATED METHOD BLANK	ASSOCIATED INITIAL CALIBRATION	ASSOCIATED CONTINUING CALIBRATION
MW-4S	10-24-97	10-24-97	10-29-97	11-15-97	SBLK02	10-23-97 (1723-2108)	11-14-97 (1651)
MW-4M	10-24-97	10-24-97	10-28-97	11-15-97	SBLK01	10-23-97 (1723-2108)	11-14-97 (1651)
MW-4D	10-24-97	10-24-97	10-28-97	11-15-97	SBLK01	10-23-97 (1723-2108)	11-14-97 (1651)
MW-5S	10-24-97	10-24-97	10-28-97	11-14-97	SBLK01	10-23-97 (1723-2108)	11-14-97 (1651)
MW-5M	10-24-97	10-24-97	10-28-97	11-14-97	SBLK01	10-23-97 (1723-2108)	11-14-97 (1651)
MW-8S	10-24-97	10-24-97	10-28-97	11-14-97	SBLK01	10-23-97 (1723-2108)	11-14-97 (1651)
MW-8M	10-24-97	10-24-97	10-29-97	11-14-97	SBLK02	10-23-97 (1723-2108)	11-14-97 (1651)
MW-12S	10-24-97	10-24-97	10-28-97	11-14-97	SBLK01	10-23-97 (1723-2108)	11-14-97 (1651)
MW-8M MS	10-24-97	10-24-97	10-29-97	11-15-97	SBLK02	10-23-97 (1723-2108)	11-14-97 (1651)
MW-8M MSD	10-24-97	10-24-97	10-29-97	11-15-97	SBLK02	10-23-97 (1723-2108)	11-14-97 (1651)
SMSB	--	--	10-29-97	11-14-97	SBLK02	10-23-97 (1723-2108)	11-14-97 (1651)

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

	MW-4S	MW-4M	MW-4D	MW-5S	MW-12S	MW-5M	MW-8S	MW-8M	TRIP BLANK
Methylene Chloride	4800J	10U	10U	10U	10U	10U	10U	10U	10U
Acetone	87000J	10UJ	10UJ	10UJ	10UJ	10UJ	10UJ	10UJ	10UJ
Benzene	8400	10U	10U	10U	10U	10U	10U	10U	10U
Toluene	21000	10U	10U	10U	10U	10U	10U	10U	10U
Ethyl Benzene	10000	10U	10U	10U	10U	10U	10U	10U	10U
Total Xylenes	63000	10U	10U	10U	10U	10U	10U	10U	10U
Ethylether	ND	40JN	ND	90JN	100JN	ND	30JN	ND	ND
Diisopropyl Ether	ND	20JN	ND	30JN	40JN	ND	ND	ND	ND
Unknown Oxy Compound	ND	5J	ND	20J	20J	ND	ND	ND	ND
Ground Water Field Measurements									
Temperature (celcius)	11.9	13.2	11.2	14.2	--	13.3	18.2	18.0	--
Conductivity (umhos/cm)	2040	697	438	2230	--	597	747	360	--
pH	6.80	7.72	7.80	6.90	--	7.60	6.60	6.85	--
Ground Water Elevation (feet amsl)	210.95	209.85	200.40	211.21	--	207.05	210.80	208.28	--

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 CRQL or compound is a TIC.

ND = TIC not detected in that sample.

N = Identified TIC.

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

	MW-4S	MW-4M	MW-4D	MW-5S	MW-12S	MW-5M	MW-8S	MW-8M
Phenol	240	5J	10U	10U	10U	10U	10U	10U
2-Methylphenol	35J	10U	10U	10U	10U	10U	10U	10U
Naphthalene	150	10U	10U	10U	10U	10U	10U	10U
2,4-Dimethylphenol	75	10U	10U	10U	10U	10U	10U	10U
4-Methylphenol	110	10U	10U	10U	10U	10U	10U	10U
Total Unk. Aromatics	140J	ND	ND	ND	ND	ND	ND	ND
Total Unk. Oxy. Compds	630J	15J	ND	150BJ	52BJ	ND	80BJ	ND
Total Unknowns	20J	2J	ND	ND	4J	4J	10J	ND
Hexadecanoic acid	ND	ND	ND	ND	2JN	ND	2JN	ND
Pyridine	40JN	ND	ND	ND	ND	ND	ND	ND
Isomer quinolinol	30J	ND	ND	ND	ND	ND	ND	ND
Benzoic acid	200N	ND	ND	ND	ND	ND	ND	ND
Propanedioic acid, phenyl-	40N	ND	ND	ND	ND	ND	ND	ND
Total Unknown Alkanes	ND	ND	ND	ND	ND	4J	ND	ND

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 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.: EC9702 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: D3856

Level: (low/med) LOW

Date Received: 10/24/97

% Moisture: not dec. _____

Date Analyzed: 10/31/97

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.	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 ⁵
75-15-0-----	Carbon Disulfide	10.	U
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
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
156-59-2-----	1,2-Dichloroethene-cis	10.	U

(2/8/97)

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-4D

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9702

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: D3856

Level: (low/med) LOW

Date Received: 10/24/97

Moisture: not dec. _____

Date Analyzed: 10/31/97

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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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-4M

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9702

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: D3857

Level: (low/med) LOW

Date Received: 10/24/97

Moisture: not dec. _____

Date Analyzed: 10/31/97

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.	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
75-15-0-----	Carbon Disulfide	10.	U
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
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
156-59-2-----	1,2-Dichloroethene-cis	10.	U

12/8/97

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-4M

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9702

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: D3857

Level: (low/med) LOW

Date Received: 10/24/97

% Moisture: not dec. _____

Date Analyzed: 10/31/97

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

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 60-29-7	Ethyl ether (8CI)	7.50	40.	J N
2. 108-20-3	Diisopropyl ether (DOT)	9.68	20.	J N
3.				
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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.: EC9702

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: D3858

Level: (low/med) LOW

Date Received: 10/24/97

Moisture: not dec. _____

Date Analyzed: 10/31/97

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	5000.	U
74-83-9-----	Bromomethane	5000.	U
75-01-4-----	Vinyl Chloride	5000.	U
75-00-3-----	Chloroethane	5000.	U
75-09-2-----	Methylene Chloride	4800.	J
67-64-1-----	Acetone	87000.	J
75-15-0-----	Carbon Disulfide	5000.	U
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	5000.	U
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
10061-01-5-----	cis-1,3-Dichloropropene	5000.	U
79-01-6-----	Trichloroethene	5000.	U
124-48-1-----	Dibromochloromethane	5000.	U
79-00-5-----	1,1,2-Trichloroethane	5000.	U
71-43-2-----	Benzene	8400.	
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
127-18-4-----	Tetrachloroethene	5000.	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5000.	U
108-88-3-----	Toluene	21000.	
108-90-7-----	Chlorobenzene	5000.	U
100-41-4-----	Ethylbenzene	10000.	
100-42-5-----	Styrene	5000.	U
1330-20-7-----	Xylenes (total)	63000.	
156-59-2-----	1,2-Dichloroethene-cis	5000.	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-4S

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9702 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: D3858

Level: (low/med) LOW

Date Received: 10/24/97

Moisture: not dec. _____

Date Analyzed: 10/31/97

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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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-5M

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9702 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: D3854

Level: (low/med) LOW

Date Received: 10/24/97

% Moisture: not dec. _____

Date Analyzed: 10/31/97

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.	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
75-15-0-----	Carbon Disulfide	10.	U
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
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
156-59-2-----	1,2-Dichloroethene-cis	10.	U

12/8/97

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-5M

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9702

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: D3854

Level: (low/med) LOW

Date Received: 10/24/97

Moisture: not dec. _____

Date Analyzed: 10/31/97

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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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-5S

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9702

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: D3853

Level: (low/med) LOW

Date Received: 10/24/97

Moisture: not dec. _____

Date Analyzed: 10/31/97

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.	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 ⁵
75-15-0-----	Carbon Disulfide	10.	U
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
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
156-59-2-----	1,2-Dichloroethene-cis	10.	U

12/5/97

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-5S

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9702

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: D3853

Level: (low/med) LOW

Date Received: 10/24/97

Moisture: not dec. _____

Date Analyzed: 10/31/97

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)	7.50	90.	J N
2. 108-20-3	Diisopropyl ether (DOT)	9.68	30.	J N
3. - -	UNKNOWN OXYGENATED COMPOUND	14.20	20.	J
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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.: EC9702

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: D3852

Level: (low/med) LOW

Date Received: 10/24/97

Moisture: not dec. _____

Date Analyzed: 10/31/97

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.	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 ⁵
75-15-0-----	Carbon Disulfide	10.	U
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
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
156-59-2-----	1,2-Dichloroethene-cis	10.	U

12/5/97

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-8M

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9702

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: D3852

Level: (low/med) LOW

Date Received: 10/24/97

Moisture: not dec. _____

Date Analyzed: 10/31/97

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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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8S

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9702

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: D3851

Level: (low/med) LOW

Date Received: 10/24/97

Moisture: not dec. _____

Date Analyzed: 10/31/97

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.	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
75-15-0-----	Carbon Disulfide	10.	U
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
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
156-59-2-----	1,2-Dichloroethene-cis	10.	U

67
12/8/97

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-8S

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9702

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: D3851

Level: (low/med) LOW

Date Received: 10/24/97

Moisture: not dec. _____

Date Analyzed: 10/31/97

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	7.45	30.	JAN 12/15/97
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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.: EC9702

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: D3855

Level: (low/med) LOW

Date Received: 10/24/97

Moisture: not dec. _____

Date Analyzed: 10/31/97

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.	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 ⁵
75-15-0-----	Carbon Disulfide	10.	U
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
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
156-59-2-----	1,2-Dichloroethene-cis	10.	U

12/8/97

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-12S

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9702

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: D3855

Level: (low/med) LOW

Date Received: 10/24/97

Moisture: not dec. _____

Date Analyzed: 10/31/97

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)	7.51	100.	J N
2. 108-20-3	Diisopropyl ether (DOT)	9.67	40.	J N
3. - -	UNKNOWN OXYGENATED COMPOUND	14.20	20.	J
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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.: EC9702

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: D3859

Level: (low/med) LOW

Date Received: 10/24/97

Moisture: not dec. _____

Date Analyzed: 10/31/97

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.	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 ^J
75-15-0-----	Carbon Disulfide	10.	U
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
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
156-59-2-----	1,2-Dichloroethene-cis	10.	U

12/5/97

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TB

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9702

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: D3859

Level: (low/med) LOW

Date Received: 10/24/97

Moisture: not dec. _____

Date Analyzed: 10/31/97

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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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-4D

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9702 SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-4D

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

Lab File ID: B1844

Level: (low/med) LOW

Date Received: 10/24/97

Moisture: _____ decanted: (Y/N) _____

Date Extracted: 10/28/97

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 11/15/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GC 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 _J
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 _J
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-4D

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9702

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-4D

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

Lab File ID: B1844

Level: (low/med) LOW

Date Received: 10/24/97

Moisture: _____ decanted: (Y/N) _____

Date Extracted: 10/28/97

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 11/15/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

C 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.	UJ
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.	UJ
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.	UJ
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 I SV-2

3/90

025

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-4D

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9702

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-4D

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

Lab File ID: B1844

Level: (low/med) LOW

Date Received: 10/24/97

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

Date Extracted: 10/28/97

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 11/15/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GC Cleanup: (Y/N) N

pH: 7.0

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

Number TICs found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. - -	UNKNOWN OXYGENATED COMPOUND	3.29	16.	BJ
2. - -	UNKNOWN PHTHALATE	31.01	8.	J
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-4M

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9702

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-4M

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

Lab File ID: B1845

Level: (low/med) LOW

Date Received: 10/24/97

Moisture: _____ decanted: (Y/N) _____

Date Extracted: 10/28/97

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 11/15/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

PC 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	5.	J
111-44-4-----bis(-2-Chloroethyl)Ether	10.	U J
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 J
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-4M

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9702

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-4M

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

Lab File ID: B1845

Level: (low/med) LOW

Date Received: 10/24/97

Moisture: _____ decanted: (Y/N) _____

Date Extracted: 10/28/97

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 11/15/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

PC 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.	UJ
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.	UJ
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.	UJ
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 I SV-2

3/90

12/8/97

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-4M

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9702 SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-4M

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

Lab File ID: B1845

Level: (low/med) LOW

Date Received: 10/24/97

Moisture: _____ decanted: (Y/N) _____

Date Extracted: 10/28/97

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 11/15/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

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

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

Number TICs found: 5

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. - -	UNKNOWN OXYGENATED COMPOUND	3.33	90.	BJ
2. - -	UNKNOWN OXYGENATED COMPOUND	3.39	15.	J
3. 60-29-7	Ethyl ether (8CI)	4.54	2.	J N
4. - -	UNKNOWN	23.91	2.	J
5. - -	UNKNOWN	33.31	4.	BJ
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-4S

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9702 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: B1846

Level: (low/med) LOW

Date Received: 10/24/97

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

Date Extracted: 10/29/97

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 11/15/97

Injection Volume: 2.0 (uL)

Dilution Factor: 5.0

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

CAS NO.

COMPOUND

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

Q

108-95-2-----	Phenol	240.	
111-44-4-----	bis(-2-Chloroethyl)Ether	50.	UJ
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	35.	J
108-60-1-----	2,2'-oxybis(1-Chloropropane)	50.	U
106-44-5-----	4-Methylphenol	110.	
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	75.	
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	150.	
106-47-8-----	4-Chloroaniline	50.	U
87-68-3-----	Hexachlorobutadiene	50.	U
59-50-7-----	4-Chloro-3-methylphenol	50.	UJ
91-57-6-----	2-Methylnaphthalene	50.	U
77-47-4-----	Hexachlorocyclopentadiene	50.	U
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
83-32-9-----	Acenaphthene	50.	U

12/8/97

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-4S

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9702

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: B1846

Level: (low/med) LOW

Date Received: 10/24/97

Moisture: _____ decanted: (Y/N) _____

Date Extracted: 10/29/97

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 11/15/97

Injection Volume: 2.0 (uL)

Dilution Factor: 5.0

PC 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
86-30-6-----	N-Nitrosodiphenylamine	50.	U
101-55-3-----	4-Bromophenyl-phenylether	50.	U
118-74-1-----	Hexachlorobenzene	50.	U
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
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

(1) - Cannot be separated from diphenylamine

FORM I SV-2

3/90

12/8/97

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-4S

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9702

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: B1846

Level: (low/med) LOW

Date Received: 10/24/97

Moisture: _____ decanted: (Y/N) _____

Date Extracted: 10/29/97

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 11/15/97

Injection Volume: 2.0 (uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) N

pH: 7.0

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

Number TICs found: 15

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN OXYGENATED COMPOUND	3.32	300.	J
2.	UNKNOWN OXYGENATED COMPOUND	4.38	20.	J
3.	UNKNOWN OXYGENATED COMPOUND	5.40	120.	J
4.	UNKNOWN	5.56	20.	J
5.	UNKNOWN AROMATIC	6.89	20.	J
6.	UNKNOWN AROMATIC	7.61	30.	J
7.	UNKNOWN OXYGENATED COMPOUND	7.76	100.	J
8.	UNKNOWN OXYGENATED COMPOUND	9.80	50.	J
9.	UNKNOWN OXYGENATED COMPOUND	11.12	40.	J
10.	UNKNOWN OXYGENATED AROMATIC	11.18	60.	J
11.	2613-89-0 Propanedioic acid, phenyl-	14.06	40.	J N
12.	UNKNOWN AROMATIC	19.09	90.	J
13.	ISOMER QUINOLINOL	21.38	30.	J
14.	110-86-1 Pyridine	3.94	40.	N
15.	Benzoic Acid	12.28	200.	N
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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.: EC9702

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-5M

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

Lab File ID: B1842

Level: (low/med) LOW

Date Received: 10/24/97

Moisture: _____ decanted: (Y/N) _____

Date Extracted: 10/28/97

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 11/14/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

QC 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 _J
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 _J
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

12/8/97

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-5M

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9702

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-5M

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

Lab File ID: B1842

Level: (low/med) LOW

Date Received: 10/24/97

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

Date Extracted: 10/28/97

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 11/14/97

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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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

12/8/97

(1) - Cannot be separated from diphenylamine

FORM I SV-2

3/90

024

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-5M

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9702

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-5M

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

Lab File ID: B1842

Level: (low/med) LOW

Date Received: 10/24/97

Moisture: _____ decanted: (Y/N) _____

Date Extracted: 10/28/97

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 11/14/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

PC Cleanup: (Y/N) N

pH: 7.0

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

Number TICs found: 5

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN OXYGENATED COMPOUND	3.30	10.	BJ
2.	UNKNOWN PHTHALATE	31.03	6.	J
3.	UNKNOWN	33.31	9.	BJ
4.	UNKNOWN	33.65	4.	J
5.	UNKNOWN ALKANE	34.20	4.	J
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-5S

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9702

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: B1841

Level: (low/med) LOW

Date Received: 10/24/97

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

Date Extracted: 10/28/97

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 11/14/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GC 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 J
95-57-8-----2-Chlorophenol	10.	U
541-73-1-----1,3-Dichlorobenzene	10.	U
106-46-7-----1,4-Dichlorobenzene	10 2.	BJ 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 J
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

12/8/97

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-5S

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9702 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: B1841

Level: (low/med) LOW

Date Received: 10/24/97

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

Date Extracted: 10/28/97

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 11/14/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

G/C Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
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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 J
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 J
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 J
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 I SV-2

3/90

027

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-5S

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9702

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: B1841

Level: (low/med) LOW

Date Received: 10/24/97

Moisture: _____ decanted: (Y/N) _____

Date Extracted: 10/28/97

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 11/14/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GC Cleanup: (Y/N) N

pH: 7.0

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

Number TICs found: 4

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. - -	UNKNOWN OXYGENATED COMPOUND	3.35	140.	BJ
2. - -	UNKNOWN OXYGENATED COMPOUND	3.44	10.	J
3. - -	UNKNOWN PHTHALATE	31.02	8.	JR
4. - -	UNKNOWN	33.31	3.	BJ
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12/8/97

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8M

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9702

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-8M

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

Lab File ID: B1840

Level: (low/med) LOW

Date Received: 10/24/97

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

Date Extracted: 10/29/97

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 11/14/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GC 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.	UJ
95-57-8-----	2-Chlorophenol	10.	U
541-73-1-----	1,3-Dichlorobenzene	10.	U
106-46-7-----	1,4-Dichlorobenzene	10 2.	BJ
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.	UJ
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

12/8/97

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8M

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9702

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-8M

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

Lab File ID: B1840

Level: (low/med) LOW

Date Received: 10/24/97

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

Date Extracted: 10/29/97

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 11/14/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

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

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

12/8/97

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-8M

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9702

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-8M

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

Lab File ID: B1840

Level: (low/med) LOW

Date Received: 10/24/97

Moisture: _____ decanted: (Y/N)____

Date Extracted: 10/29/97

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 11/14/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GC 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 OXYGENATED COMPOUND	3.31	3.	J
2. - -	UNKNOWN PHTHALATE	31.03	3.	BJ
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8S

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9702

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: B1839

Level: (low/med) LOW

Date Received: 10/24/97

Moisture: _____ decanted: (Y/N) _____

Date Extracted: 10/28/97

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 11/14/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GC 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 2.	BJ ✓
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

12/8/97

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8S

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9702

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: B1839

Level: (low/med) LOW

Date Received: 10/24/97

Moisture: _____ decanted: (Y/N) _____

Date Extracted: 10/28/97

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 11/14/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
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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.	UJ
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.	UJ
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.	UJ
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 I SV-2

3/90

042

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-8S

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9702

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: B1839

Level: (low/med) LOW

Date Received: 10/24/97

Moisture: _____ decanted: (Y/N) _____

Date Extracted: 10/28/97

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 11/14/97

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: 5

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. - -	UNKNOWN OXYGENATED COMPOUND	3.37	80.	BJ
2. - -	UNKNOWN	5.29	2.	J
3. - -	UNKNOWN	20.98	6.	J
4. - -	UNKNOWN	23.91	2.	J
5. 57-10-3	Hexadecanoic acid (9CI)	24.30	2.	J N
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-12S

Company Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9702

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-12S

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

Lab File ID: B1843

Level: (low/med) LOW

Date Received: 10/24/97

Moisture: _____ decanted: (Y/N) _____

Date Extracted: 10/28/97

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 11/14/97

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.	UJ
95-57-8-----	2-Chlorophenol	10.	U
541-73-1-----	1,3-Dichlorobenzene	10.	U
106-46-7-----	1,4-Dichlorobenzene	10.2	BJL
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.	UJ
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

12/5/97

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-12S

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9702 SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-12S

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

Lab File ID: B1843

Level: (low/med) LOW

Date Received: 10/24/97

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

Date Extracted: 10/28/97

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 11/14/97

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 I SV-2

3/90

046

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-12S

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: EC9702

SAS No.:

SDG No.: MW-4D

Matrix: (soil/water) WATER

Lab Sample ID: MW-12S

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

Lab File ID: B1843

Level: (low/med) LOW

Date Received: 10/24/97

Moisture: _____ decanted: (Y/N) _____

Date Extracted: 10/28/97

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 11/14/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

Cleanup: (Y/N) N

pH: 7.0

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

Number TICs found: 7

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. - -	UNKNOWN OXYGENATED COMPOUND	3.31	40.	BJ
2. - -	UNKNOWN OXYGENATED COMPOUND	3.45	12.	J
3. - -	UNKNOWN	17.92	2.	J
4. - -	UNKNOWN	23.91	2.	J
5. 57-10-3	Hexadecanoic acid (9CI)	24.30	2.	J N
6. - -	UNKNOWN PHTHALATE	31.02	9.	J
7. - -	UNKNOWN	33.31	4.	BJ
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