Semivolatile Organic Compounds, Pesticide/PCBs

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MEMORANDUM

DATE: 27 January 1998

TO: John Meyer, WAM, U.S. EPA, Region X

FROM: Jennifer M. Baier, Environmental Chemist, WESTON, Seattle JMB
RNM Roger McGinnis, Senior Environmental Chemist, WESTON, Seattle

SUBJECT: Validation of Organics (semivolatile compounds, pesticides and PCBs)
SDG No: T873
Site: Willamette River

WORK ASSIGNMENT NO: 46-23-0JZZ

DOC. CONTROL NO.: 4000-019-036-AAAY

WORK ORDER NO.: 4000-019-036-5200-00

cc: Bruce Woods, RAP-WAM, U.S. EPA, Region X
Karen Stash, Project Manager, WESTON, Seattle (memo only)

The quality assurance review of 10 samples, SDG T873, collected from the Willamette River has been completed. The sediment samples were analyzed at low level for semivolatiles, pesticides and PCBs by Analytical Resources, Inc. The samples were numbered:

97384060	97384062	97384063	97384064	97384066
97384067	97384068	97384069	97384070	97384071

Data Qualifications

The following comments refer to the laboratory performance in meeting the quality control criteria described in the technical specifications of the laboratory subcontract. The review follows the format described in the *National Functional Guidelines for Organic Data Review* (EPA OSWER Directive 9240.1-05, February 1994).

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1. Timeliness

All samples met holding time criteria.

2. GC/MS Instrument Performance Check

All tuning check compound mass abundances and ratios were within required limits.

3. Initial Calibration

All target compound list (TCL) analytes and system monitoring compounds were within required limits for the initial calibration with $\overline{RRF}$ percent relative standard deviations (percent RSD) less than 30 percent except:

Date	Fraction	Compound	Percent RSD	Associated Samples
2/27/97	BNA	Benzyl alcohol	47.2	97384060, 97384062, 97384063, 97384064, 97384066, 97384067, 97384068, 97384069, 97384070, 97384071
		2,4-Dinitrophenol	52.2	

Results and quantitation limits for compounds associated with the above calibrations and samples have been qualified as estimated (J) as a high RSD is indicative of calibration nonlinearity.

4. Continuing Calibrations

All target compound list (TCL) analytes were within required limits for the continuing calibrations with average relative response factors $\overline{RRF}$ greater than 0.05 except:

Fraction	Date	Time	Compound	$\overline{RRF}$	Associated Samples
BNA	10/22/97	1223	2,4-Dinitrophenol	0.019	None
			4,6-Dinitro-2-methylphenol	0.039	

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Positive results for compounds associated with the above calibrations and samples have been qualified as estimated (J). Quantitation limits for all undetected compounds with $\overline{RRF}$ below 0.05 have been rejected.

All target compound list (TCL) analytes were within required limits for the continuing calibration with $\overline{RRF}$ percent differences less than 25 percent except:

Fraction	Date	Time	Compound	% Diff	Associated Samples
BNA	10/15/97	1118	Benzyl alcohol	-29.2	97384064
			Hexachlorocyclopentadiene	48.6	97384066
			4-Nitroaniline	-50	
			Di-n-butylphthalate	-32	
BNA	10/16/97	1252	Benzyl alcohol	-34.2	97384067
			N-Nitroso-di-n-propylamine	26.1	97384069
			Hexachlorocyclopentadiene	52.2	97384071
			Pentachlorophenol	27.9	
			Carbazole	38.5	
			Di-n-butylphthalate	-27.8	
			Benzo(g,h,i)perylene	-29.4	
BNA	10/22/97	1223	Benzyl alcohol	-46.6	None
			2,2'-oxybis(1-Chloropropane)	-35.3	
			Hexachlorocyclopentadiene	72.5	
			2,4-Dinitrophenol	80.6	
			4-Nitrophenol	-49.5	
			Diethylphthalate	-25.8	
			4,6-Dinitro-2-methylphenol	72.1	
			N-Nitrosodiphenylamine	26.1	
			Pentachlorophenol	29.9	
			Carbazole	37.3	
			2,4,6-Tribromophenol (surr)	-39.4	

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Fraction	Date	Time	Compound	% Diff	Associated Samples
BNA	10/24/97	1343	Benzyl alcohol	-57.7	97384060
			2,2'-oxybis(1-Chloropropane)	-37.5	97384062
			Hexachlorocyclopentadiene	46.6	97384063
			3-Nitroaniline	26.9	97384068
			2,4-Dinitrophenol	36.7	97384070
			4-Nitroaniline	47.2	
			4,6-Dinitro-2-methylphenol	26.4	
			Pentachlorophenol	29.2	
			Carbazole	47.5	
BNA	10/28/97	1041	Benzyl alcohol	-45.7	97384062 DL
			2,2'-oxybis(1-Chloropropane)	-34	
			4-Chloroaniline	52.3	
			Hexachlorocyclopentadiene	57.5	
			3-Nitroaniline	68.7	
			4-Nitroaniline	33	
			Pentachlorophenol	38.8	
			Carbazole	63.8	
			3,3'-Dichlorobenzidine	40.9	

Positive results for compounds associated with the above calibrations and samples have been qualified as estimated (J).

5. Detection Limits—Acceptable

Laboratory reporting limits are equal to or less than project required quantitation limits.

6. Blanks

a. Laboratory Method Blanks

Laboratory method blank frequency criteria were met.

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The following compounds were detected in laboratory method blanks.

Fraction	Blank ID	Date	Compound (R. T.)	Concentration (µg/kg)
BNA	Method Blank	10/22/97	bis(2-Ethylhexyl)phthalate	160
			1,1,2,2-Tetrachloroethane (6.78)	48
			Unknown alcohol (13.92)	25
			Unknown hydrocarbon (24.67)	23

Reported levels of the above compounds were qualified as undetected with an adjusted quantitation limit (UJ) in samples if concentrations were less than five times concentrations present in the blank (ten times for common laboratory contaminants [e.g., phthalates]).

b. Field Blanks

No field blanks were associated with this SDG.

7. System Monitoring Compounds (Surrogates)

Surrogate compound percent recovery met quality control criteria.

8. Matrix Spike and Matrix Spike Duplicate

Matrix spike (MS) or matrix spike duplicate (MSD) percent recovery for the following compounds were outside QC guidelines.

Sample	Fraction	Type	Compound	Percent Recovery	QC Limits
97384060	BNA	MS	1,4-Dichlorobenzene	14.3	28-104
			N-Nitroso-di-n-propylamine	36.2	41-126
			1,2,4-Trichlorobenzene	30.3	38-104

Relative percent differences (RPD) between the MS and MSD percent recoveries exceeded QC guidelines for the following compounds:

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Sample	Fraction	Compound	RPD	QC Limits
97384060	BNA	Phenol	46	35
		2-Chlorophenol	59	50
		1,4-Dichlorobenzene	87	27
		1,2,4-Trichlorobenzene	48	23
		Acenaphthene	30	19

No action was taken based on MS/MSD data since surrogate compound recoveries were acceptable.

9. Field Duplicate Analysis

No field duplicate samples were associated with this sample delivery group.

10. Internal Standards Performance

Internal standard areas were within requirements of -50 percent to +100 percent of associated calibration internal standard areas. Retention time shifts for internal standards met requirements of less than 30 seconds.

11. GC/ECD Instrument Performance

a. Resolution Check Mixture

The resolution check mixture was analyzed at the proper frequency. Resolution (valley depth) between adjacent peaks was greater than 60 percent of the shorter peak.

b. Performance Evaluation Mixture

i. Frequency

Samples were analyzed at the proper frequency.

ii. Resolution

Resolution was greater than 90 percent for all adjacent peaks.

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iii. Retention Time Windows

Retention times of all pesticides were within windows calculated from the initial calibration.

iv. Pesticide Recovery

Recovery for all single component pesticides and surrogate compounds were within QC limits of 75 to 125 percent for both GC columns.

v. DDT/Endrin Breakdown

The percent breakdown for 4,4'-DDT and Endrin was less than 20 percent for each compound and combined breakdown was less than 30 percent on both GC columns.

12. Pesticide Initial Calibration

a. Individual Standard Mixtures

Resolution between adjacent peaks for the initial calibration, mid level concentration was greater than 90 percent.

Retention time windows were calculated correctly.

Appropriate standards concentrations were used and peak heights of 50 to 100 percent of full scale were obtained.

Calibration factor percent relative standard deviation (%RSD) exceeded QC criteria of 20 percent for pesticides and 30 percent for surrogates listed below:

Analyzed	GC Column	Compound	%RSD
10/14/97	DB-5	alpha-BHC	20.6

Results and quantitation limits for analytes listed above have been qualified as estimated (J).

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13. Pesticide Calibration Verification

Instrument blanks and PEM samples were analyzed at the proper frequency.

Resolution between adjacent peaks in individual pesticide mixtures exceeded 90 percent.

Pesticide standard peaks actual and calculated concentrations of individual pesticides was within QC criteria of ±25 percent.

The difference between actual and calculated concentrations of individual pesticides exceeded QC criteria of ±25 percent for the following pesticides:

Date	GC Column	Compound	% Diff	Associated Samples
10/16/97	DB-608	delta-BHC	30	97384060 97384064 97384070

Results and quantitation limits for pesticides listed above were qualified as estimated (J).

14. Pesticide Cleanup Checks

a. Florisil Cartridge Cleanup

Recovery for mixture A pesticides and surrogates were within QC limits of 80 to 120 percent. Recovery of 2,4,5-trichlorophenol was less than 5 percent as required.

b. Gel Permeation Cleanup (GPC)

All pesticides in the matrix spiking solution met recovery limits of 80 to 110 percent. Aroclor-1016 and 1260 patterns matched those of standards.

GPC blank concentrations did not exceed one-half the quantitation limit for any target analytes.

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15. Sample Analysis

The following sample results exhibited greater than 35 percent difference between the primary and confirmation columns for pesticide analysis.

Sample	Compound	ECD4A Concentration (µg/kg)	ECD4B Concentration (µg/kg)	%D
97384060	4,4'-DDD	13	5.8	124.1
97384064	4,4'-DDD	15	7.3	105.5
97384070	4,4'-DDT	17	8.6	97.9

The percent differences are not deemed significant at the reported concentrations. The lower concentration was reported for each analyte.

16. Laboratory Contact

The laboratory was contacted regarding sample 97384070, which should not have been analyzed. Since the associated porewater sample from the same location was received by the laboratory past holding time limits, the location was resampled for both sediment and porewater. The results from 97384070 will be disregarded.

Data Assessment

Upon consideration of the data qualifications noted above, the data are ACCEPTABLE for use except where flagged with data qualifiers that modify the usefulness of the individual values.

Data Qualifiers

U - The compound was analyzed for, but was not detected.

UJ - The compound was analyzed for, but was not detected. The associated quantitation limit is an estimate because quality control criteria were not met.

J - The analyte was positively identified, but the associated numerical value is an estimated quantity because quality control criteria were not met or because concentrations reported are less than the quantitation limit or lowest calibration standard.

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R - Quality control indicates that data are unusable (compound may or may not be present). Resampling and reanalysis are necessary for verification.

N - Presumptive evidence of presence of material (tentative identification).

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ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T873A
LIMS ID: 97-17222
Matrix: Sediment
Data Release Authorized:
Reported: 10/29/97

Sample No: 9738 4060
WR-SD-SD001-0000
QC Report No: T873-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/17/97
Date Received: 09/19/97

Date extracted: 10/01/97
Date analyzed: 10/24/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 31.9%
pH: 7.4

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U J
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U J
106-44-5	**4-Methylphenol**	**23**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	98 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**260**
106-47-8	4-Chloroaniline	59 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	**2-Methylnaphthalene**	**100**
77-47-4	Hexachlorocyclopentadiene	98 U J
88-06-2	2,4,6-Trichlorophenol	98 U
95-95-4	2,4,5-Trichlorophenol	98 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	98 U
131-11-3	Dimethylphthalate	20 U
208-96-8	**Acenaphthylene**	**100**
99-09-2	3-Nitroaniline	120 U J
83-32-9	**Acenaphthene**	**90**
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	98 U
132-64-9	**Dibenzofuran**	**20**
606-20-2	2,6-Dinitrotoluene	98 U

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ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS

Lab Sample ID: T873A
LIMS ID: 97-17222
Matrix: Sediment
Data Release Authorized: ONB
Reported: 10/29/97

Sample No: 9738 4060
WR-SD-SD001-0000
QC Report No: T873-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/17/97
Date Received: 09/19/97

Date extracted: 10/01/97
Date analyzed: 10/24/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 31.9%
pH: 7.4

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	98 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	**Fluorene**	**76**
100-01-6	4-Nitroaniline	98 U J
534-52-1	4,6-Dinitro-2-Methylphenol	200 U J
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	98 U J
85-01-8	**Phenanthrene**	**630**
86-74-8	**Carbazole**	**38 J**
120-12-7	**Anthracene**	**130**
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**1,100**
129-00-0	**Pyrene**	**1,300**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	98 U
56-55-3	**Benzo(a)anthracene**	**570**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**46 ~~B~~ UJ**
218-01-9	**Chrysene**	**760**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**950**
207-08-9	**Benzo(k)fluoranthene**	**540**
50-32-8	**Benzo(a)pyrene**	**1,100**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**570**
53-70-3	**Dibenz(a,h)anthracene**	**150**
191-24-2	**Benzo(g,h,i)perylene**	**710**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	54.5%	d5-Phenol	62.4%
2-Fluorobiphenyl	64.1%	2-Fluorophenol	62.0%
d14-p-Terphenyl	78.4%	2,4,6-Tribromophenol	85.5%
d4-1,2-Dichlorobenzene	41.9%	d4-2-Chlorophenol	57.9%

FORM-1

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ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4060
WR-SD- SD001-0000

Lab Sample ID: T873A
LIMS ID: 97-17222
Matrix: Sediment

QC Report No: T873-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/17/97
Date Received: 09/19/97

Data Release Authorized: MB
Reported: 11/11/97

Date Analyzed: 10/24/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Cycloalkane	7.00	SVOA	400 J N
2.	--	Unknown_Cycloalkane	7.70	SVOA	320 J N
3.	--	Unknown_Cycloalkane	8.90	SVOA	290 J N
4.	--	Unknown_Aromatic	18.30	SVOA	280 J N
5.	--	Unknown	19.03	SVOA	180 J N
6.	--	Unknown_Alcohol	19.33	SVOA	340 J N
7.	--	Unknown	19.68	SVOA	560 J N
8.	--	Unknown	19.77	SVOA	430 J N
9.	--	Unknown_Aromatic	20.63	SVOA	950 J N
10.	--	Unknown	20.95	SVOA	170 J N
11.	--	Unknown	21.23	SVOA	160 J N
12.	--	Unknown_Aromatic	21.94	SVOA	250 J N
13.	--	Unknown_Acid_Ester	22.84	SVOA	460 J N
14.	--	Unknown	23.38	SVOA	370 J N
15.	--	Unknown_Acid_Ester	23.66	SVOA	230 J N
16.	--	Unknown_Acid_Ester	24.05	SVOA	320 J N
17.	--	Unknown_C20.H12_PNA	24.90	SVOA	480 J N
18.	--	Unknown_C22.H12_PNA	27.37	SVOA	370 J N
19.	--	Unknown_Sterol_type	27.75	SVOA	240 J N
20.	--	Unknown_Sterol_type	28.20	SVOA	260 J N

FORM-1-B

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ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T873B
LIMS ID: 97-17223
Matrix: Sediment
Data Release Authorized: GMB
Reported: 10/29/97

Sample No: 9738 4062
WR-SD-SD003-0000
QC Report No: T873-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/17/97
Date Received: 09/19/97

Date extracted: 10/01/97
Date analyzed: 10/24/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 34.4%
pH: 7.2

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	**4-Methylphenol**	**23**
621-64-7	N-Nitroso-Di-N-Propylamine	38 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	95 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	57 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**170**
106-47-8	4-Chloroaniline	57 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	**2-Methylnaphthalene**	**92**
77-47-4	Hexachlorocyclopentadiene	95 U J
88-06-2	2,4,6-Trichlorophenol	95 U
95-95-4	2,4,5-Trichlorophenol	95 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	95 U
131-11-3	Dimethylphthalate	19 U
208-96-8	**Acenaphthylene**	**72**
99-09-2	3-Nitroaniline	110 U J
83-32-9	**Acenaphthene**	**110**
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	95 U
132-64-9	**Dibenzofuran**	**27**
606-20-2	2,6-Dinitrotoluene	95 U

FORM-1

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ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T873B
LIMS ID: 97-17223
Matrix: Sediment
Data Release Authorized: PNB
Reported: 10/29/97

Sample No: 9738 4062
WR-SD-SD003-0000
QC Report No: T873-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/17/97
Date Received: 09/19/97

Date extracted: 10/01/97
Date analyzed: 10/24/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 34.4%
pH: 7.2

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	95 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**110**
100-01-6	4-Nitroaniline	95 U J
534-52-1	4,6-Dinitro-2-Methylphenol	190 U J
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	**Pentachlorophenol**	**110** J
85-01-8	**Phenanthrene**	**1,300**
86-74-8	**Carbazole**	**67** J
120-12-7	**Anthracene**	**200**
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	~~2,400 E~~ 2500 D
129-00-0	**Pyrene**	~~2,100 E~~ 2300 D
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	95 U
56-55-3	**Benzo(a)anthracene**	**940**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**56** ~~J~~ UJ
218-01-9	**Chrysene**	**1,100**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**1,100**
207-08-9	**Benzo(k)fluoranthene**	**630**
50-32-8	**Benzo(a)pyrene**	**1,100**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**520**
53-70-3	**Dibenz(a,h)anthracene**	**140**
191-24-2	**Benzo(g,h,i)perylene**	**580**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	57.8%	d5-Phenol	60.1%
2-Fluorobiphenyl	63.2%	2-Fluorophenol	62.0%
d14-p-Terphenyl	75.0%	2,4,6-Tribromophenol	83.9%
d4-1,2-Dichlorobenzene	44.7%	d4-2-Chlorophenol	57.1%

FORM-1

JMB 12/9/97
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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4062
WR-SD-SD003-0000

Lab Sample ID: T873B
LIMS ID: 97-17223
Matrix: Sediment

QC Report No: T873-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/17/97
Date Received: 09/19/97

Data Release Authorized: DMB
Reported: 11/11/97

Date Analyzed: 10/24/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_C15.H12_PNA	18.13	SVOA	210 J N
2.	--	Unknown_C15.H12_PNA	18.21	SVOA	280 J N
3.	--	Unknown_Aromatic	18.31	SVOA	230 J N
4.	--	Unknown	18.76	SVOA	290 J N
5.	--	Unknown	19.05	SVOA	930 J N
6.	--	Unknown	19.68	SVOA	950 J N
7.	--	Unknown_C17.H12_PNA	20.43	SVOA	200 J N
8.	--	Unknown_Aromatic	20.65	SVOA	2,200 J N
9.	--	Benzothiophene_Isomer	21.88	SVOA	250 J N
10.	--	Unknown_Aromatic	21.95	SVOA	370 J N
11.	--	Unknown_Acid_Ester	22.84	SVOA	270 J N
12.	--	Unknown_C19.H14_PNA	23.19	SVOA	250 J N
13.	--	Unknown	23.37	SVOA	220 J N
14.	--	Unknown_C20.H12_PNA	24.89	SVOA	480 J N
15.	--	Unknown	27.30	SVOA	240 J N
16.	--	Unknown_C22.H12_PNA	27.37	SVOA	500 J N
17.	--	Unknown_Aromatic	27.47	SVOA	610 J N
18.	--	Unknown	27.65	SVOA	370 J N
19.	--	Unknown_Sterol_type	27.76	SVOA	490 J N
20.	--	Unknown_Sterol_type	28.20	SVOA	260 J N

FORM-1-B

JMB 12/9/97 ~~000187~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 1 of 2

Sample No: 9738 4062
DILUTION

Lab Sample ID: T873B
LIMS ID: 97-17223
Matrix: Sediment
Data Release Authorized: JMB
Reported: 10/29/97

QC Report No: T873-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/17/97
Date Received: 09/19/97

Date extracted: 10/01/97
Date analyzed: 10/28/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:5
Percent Moisture: 34.4%
pH: 7.2

CAS Number	Analyte	ug/kg
108-95-2	Phenol	95 U
111-44-4	Bis-(2-Chloroethyl) Ether	190 U
95-57-8	2-Chlorophenol	95 U
541-73-1	1,3-Dichlorobenzene	95 U
106-46-7	1,4-Dichlorobenzene	95 U
100-51-6	Benzyl Alcohol	95 U J
95-50-1	1,2-Dichlorobenzene	95 U
95-48-7	2-Methylphenol	95 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	95 U J
106-44-5	4-Methylphenol	95 U
621-64-7	N-Nitroso-Di-N-Propylamine	190 U
67-72-1	Hexachloroethane	95 U
98-95-3	Nitrobenzene	95 U
78-59-1	Isophorone	95 U
88-75-5	2-Nitrophenol	480 U
105-67-9	2,4-Dimethylphenol	95 U
65-85-0	Benzoic Acid	950 U
111-91-1	bis(2-Chloroethoxy) Methane	95 U
120-83-2	2,4-Dichlorophenol	290 U
120-82-1	1,2,4-Trichlorobenzene	95 U
91-20-3	**Naphthalene**	**170**
106-47-8	4-Chloroaniline	290 U J
87-68-3	Hexachlorobutadiene	95 U
59-50-7	4-Chloro-3-methylphenol	190 U
91-57-6	2-Methylnaphthalene	95 U
77-47-4	Hexachlorocyclopentadiene	480 U J
88-06-2	2,4,6-Trichlorophenol	480 U
95-95-4	2,4,5-Trichlorophenol	480 U
91-58-7	2-Chloronaphthalene	95 U
88-74-4	2-Nitroaniline	480 U
131-11-3	Dimethylphthalate	95 U
208-96-8	Acenaphthylene	95 U
99-09-2	3-Nitroaniline	570 U J
83-32-9	**Acenaphthene**	**110**
51-28-5	2,4-Dinitrophenol	950 U J
100-02-7	4-Nitrophenol	480 U
132-64-9	Dibenzofuran	95 U
606-20-2	2,6-Dinitrotoluene	480 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 2 of 2

Sample No: 9738 4062
DILUTION

Lab Sample ID: T873B
LIMS ID: 97-17223
Matrix: Sediment
Data Release Authorized: GRP
Reported: 10/29/97

QC Report No: T873-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/17/97
Date Received: 09/19/97

Date extracted: 10/01/97
Date analyzed: 10/28/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:5
Percent Moisture: 34.4%
pH: 7.2

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	480 U
84-66-2	Diethylphthalate	95 U
7005-72-3	4-Chlorophenyl-phenylether	95 U
86-73-7	**Fluorene**	**96**
100-01-6	4-Nitroaniline	480 U J
534-52-1	4,6-Dinitro-2-Methylphenol	950 U
86-30-6	N-Nitrosodiphenylamine	95 U
101-55-3	4-Bromophenyl-phenylether	95 U
118-74-1	Hexachlorobenzene	95 U
87-86-5	Pentachlorophenol	480 U J
85-01-8	**Phenanthrene**	**1,200**
86-74-8	Carbazole	95 U J
120-12-7	**Anthracene**	**190**
84-74-2	Di-n-Butylphthalate	95 U
206-44-0	**Fluoranthene**	**2,500**
129-00-0	**Pyrene**	**2,300**
85-68-7	Butylbenzylphthalate	95 U
91-94-1	3,3'-Dichlorobenzidine	480 U J
56-55-3	**Benzo(a)anthracene**	**930**
117-81-7	bis(2-Ethylhexyl)phthalate	95 U
218-01-9	**Chrysene**	**1,200**
117-84-0	Di-n-Octyl phthalate	95 U
205-99-2	**Benzo(b)fluoranthene**	**700**
207-08-9	**Benzo(k)fluoranthene**	**770**
50-32-8	**Benzo(a)pyrene**	**1,000**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**560**
53-70-3	**Dibenz(a,h)anthracene**	**140**
191-24-2	**Benzo(g,h,i)perylene**	**770**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	53.0%	d5-Phenol	61.7%
2-Fluorobiphenyl	60.8%	2-Fluorophenol	54.7%
d14-p-Terphenyl	71.8%	2,4,6-Tribromophenol	69.7%
d4-1,2-Dichlorobenzene	43.8%	d4-2-Chlorophenol	57.1%

FORM-1

~~000240~~
JMB 12/9/97

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4062
DILUTION

Lab Sample ID: T873B
LIMS ID: 97-17223
Matrix: Sediment

QC Report No: T873-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/17/97
Date Received: 09/19/97

Data Release Authorized: GMP
Reported: 11/11/97

Date Analyzed: 10/28/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	---	Unknown_C15.H12_PNA	18.49	SVOA	260 J
2.	---	Unknown_Aromatic	18.72	SVOA	340 J
3.	---	Unknown	19.17	SVOA	230 J
4.	---	Unknown	19.45	SVOA	920 J
5.	---	Unknown_Aromatic	20.08	SVOA	800 J
6.	---	Unknown_Aromatic	21.03	SVOA	2,400 J
7.	---	Unknown_Hydrocarbon	21.27	SVOA	460 J
8.	---	Unknown_C18.H10_PNA	22.36	SVOA	300 J
9.	---	Unknown_Hydrocarbon	22.61	SVOA	990 J
10.	---	Unknown_Acid_Ester	23.24	SVOA	200 J
11.	---	Unknown	23.76	SVOA	240 J
12.	---	Unknown_Hydrocarbon	23.86	SVOA	500 J
13.	---	Unknown_Hydrocarbon	25.02	SVOA	480 J
14.	---	Unknown_C20.H12_PNA	25.25	SVOA	370 J
15.	---	Unknown_Sterol_type	27.68	SVOA	900 J
16.	---	Unknown	27.83	SVOA	340 J
17.	---	Unknown	28.02	SVOA	300 J
18.	---	Unknown_Sterol_type	28.13	SVOA	430 J
19.	---	Unknown_Sterol_type	28.56	SVOA	400 J
20.					

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T873C
LIMS ID: 97-17224
Matrix: Sediment
Data Release Authorized: ANB
Reported: 10/29/97

Sample No: 9738 4063
WR-SD-SD005-0000
QC Report No: T873-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/17/97
Date Received: 09/19/97

Date extracted: 10/01/97
Date analyzed: 10/24/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 42.1%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 UJ
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 UJ
106-44-5	**4-Methylphenol**	**32**
621-64-7	N-Nitroso-Di-N-Propylamine	38 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	96 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**180**
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	**2-Methylnaphthalene**	**74**
77-47-4	Hexachlorocyclopentadiene	96 UJ
88-06-2	2,4,6-Trichlorophenol	96 U
95-95-4	2,4,5-Trichlorophenol	96 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	96 U
131-11-3	Dimethylphthalate	19 U
208-96-8	**Acenaphthylene**	**63**
99-09-2	3-Nitroaniline	120 UJ
83-32-9	**Acenaphthene**	**150**
51-28-5	2,4-Dinitrophenol	190 UJ
100-02-7	4-Nitrophenol	96 U
132-64-9	**Dibenzofuran**	**27**
606-20-2	2,6-Dinitrotoluene	96 U

FORM-1

JMB 12/9/97 ~~000286~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS

Lab Sample ID: T873C
LIMS ID: 97-17224
Matrix: Sediment
Data Release Authorized: RWR
Reported: 10/29/97

Sample No: 9738 4063
WR-SD-SD005-0000
QC Report No: T873-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/17/97
Date Received: 09/19/97

Date extracted: 10/01/97
Date analyzed: 10/24/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 42.1%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	96 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**100**
100-01-6	4-Nitroaniline	96 UJ
534-52-1	4,6-Dinitro-2-Methylphenol	190 UJ
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	96 UJ
85-01-8	**Phenanthrene**	**610**
86-74-8	**Carbazole**	**37 J**
120-12-7	**Anthracene**	**110**
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**1,100**
129-00-0	**Pyrene**	**1,300**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	96 U
56-55-3	**Benzo(a)anthracene**	**480**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**120 BUJ**
218-01-9	**Chrysene**	**620**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**500**
207-08-9	**Benzo(k)fluoranthene**	**520**
50-32-8	**Benzo(a)pyrene**	**780**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**400**
53-70-3	**Dibenz(a,h)anthracene**	**100**
191-24-2	**Benzo(g,h,i)perylene**	**460**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	62.0%	d5-Phenol	63.5%
2-Fluorobiphenyl	66.6%	2-Fluorophenol	67.6%
d14-p-Terphenyl	82.2%	2,4,6-Tribromophenol	85.9%
d4-1,2-Dichlorobenzene	52.1%	d4-2-Chlorophenol	61.3%

FORM-1

JMB 12/9/97

~~000287~~

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4063
WR-SD- SD005-0000

Lab Sample ID: T873C
LIMS ID: 97-17224
Matrix: Sediment

QC Report No: T873-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/17/97
Date Received: 09/19/97

Data Release Authorized: AB
Reported: 11/11/97

Date Analyzed: 10/24/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid	16.64	SVOA	200 J N
2.	132-65-0	Dibenzothiophene	16.84	SVOA	120 JN
3.	--	Unknown	17.86	SVOA	130 J N
4.	--	Unknown_C15.H12_PNA	18.14	SVOA	130 J N
5.	--	Unknown	18.25	SVOA	330 J N
6.	--	Unknown_Aromatic	18.31	SVOA	250 J N
7.	--	Unknown_C16.H14_PNA	19.24	SVOA	210 J N
8.	--	Unknown	19.68	SVOA	580 J N
9.	--	Unknown_Aromatic	20.63	SVOA	910 J N
10.	--	Benzothiophene_Isomer	21.90	SVOA	140 J N
11.	--	Unknown	22.54	SVOA	170 J N
12.	--	Unknown_Acid_Ester	22.85	SVOA	530 J N
13.	--	Unknown_Sterol_type	23.38	SVOA	170 J N
14.	--	Unknown_C20.H12_PNA	24.89	SVOA	250 J N
15.	--	Unknown_Sterol_type	25.92	SVOA	160 J N
16.	--	Unknown_C22.H12_PNA	27.38	SVOA	650 J N
17.	--	Unknown	27.47	SVOA	530 J N
18.	--	Unknown	27.66	SVOA	230 J N
19.	--	Unknown	27.77	SVOA	450 J N
20.	--	Unknown_Sterol_type	28.22	SVOA	320 J N

FORM-1-B

JMB 12/9/97 ~~000288~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T873D
LIMS ID: 97-17225
Matrix: Sediment
Data Release Authorized:
Reported: 10/29/97

Sample No: 9738 4064
WR-SD-SD011-0000
QC Report No: T873-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/17/97
Date Received: 09/19/97

Date extracted: 10/01/97
Date analyzed: 10/15/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.5 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 47.0%
pH: 7.0

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	40 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U J
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U
106-44-5	**4-Methylphenol**	**24**
621-64-7	N-Nitroso-Di-N-Propylamine	40 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	99 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**270**
106-47-8	4-Chloroaniline	59 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	40 U
91-57-6	**2-Methylnaphthalene**	**140**
77-47-4	Hexachlorocyclopentadiene	99 U J
88-06-2	2,4,6-Trichlorophenol	99 U
95-95-4	2,4,5-Trichlorophenol	99 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	99 U
131-11-3	Dimethylphthalate	20 U
208-96-8	**Acenaphthylene**	**31**
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**120**
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	99 U
132-64-9	**Dibenzofuran**	**25**
606-20-2	2,6-Dinitrotoluene	99 U

FORM-1

JMB 12/9/97

~~000339~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T873D
LIMS ID: 97-17225
Matrix: Sediment
Data Release Authorized: BWB
Reported: 10/29/97

Sample No: 9738 4064
WR-SD-SD011-0000
QC Report No: T873-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/17/97
Date Received: 09/19/97

Date extracted: 10/01/97
Date analyzed: 10/15/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.5 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 47.0%
pH: 7.0

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	99 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	**Fluorene**	**86**
100-01-6	4-Nitroaniline	99 UJ
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	99 U
85-01-8	**Phenanthrene**	**480**
86-74-8	**Carbazole**	**26**
120-12-7	**Anthracene**	**100**
84-74-2	Di-n-Butylphthalate	20 UJ
206-44-0	**Fluoranthene**	**470**
129-00-0	**Pyrene**	**560**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	99 U
56-55-3	**Benzo(a)anthracene**	**170**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**170** ~~J~~UJ
218-01-9	**Chrysene**	**240**
117-84-0	**Di-n-Octyl phthalate**	**21**
205-99-2	**Benzo(b)fluoranthene**	**200**
207-08-9	**Benzo(k)fluoranthene**	**230**
50-32-8	**Benzo(a)pyrene**	**280**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**160**
53-70-3	**Dibenz(a,h)anthracene**	**42**
191-24-2	**Benzo(g,h,i)perylene**	**170**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	56.0%	d5-Phenol	56.2%
2-Fluorobiphenyl	67.5%	2-Fluorophenol	57.7%
d14-p-Terphenyl	80.7%	2,4,6-Tribromophenol	78.2%
d4-1,2-Dichlorobenzene	42.5%	d4-2-Chlorophenol	56.0%

FORM-1

JMB 12/9/97
~~000310~~

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4064
WR-SD-SD011-0000

Lab Sample ID: T873D
LIMS ID: 97-17225
Matrix: Sediment

QC Report No: T873-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/17/97
Date Received: 09/19/97

Data Release Authorized:
Reported: 11/11/97

Date Analyzed: 10/15/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid	16.44	SVOA	180 J N
2.	--	Unknown_Organic_Acid	17.10	SVOA	240 J N
3.	--	Unknown_Acid_Ester	17.83	SVOA	93 J N
4.	--	Unknown_Organic_Acid	18.08	SVOA	560 J N
5.	--	Unknown	18.13	SVOA	350 J N
6.	--	Unknown_Organic_Acid	18.23	SVOA	680 J N
7.	--	Unknown	18.37	SVOA	180 J N
8.	--	Unknown	19.05	SVOA	250 J N
9.	--	Unknown_Aromatic	19.51	SVOA	890 J N
10.	--	Unknown_Aromatic	20.45	SVOA	360 J N
11.	--	Unknown_Aldehyde	22.91	SVOA	160 J N
12.	--	Unknown_Aldehyde	24.14	SVOA	740 J N
13.	--	Unknown_Sterol_type	26.05	SVOA	240 J N
14.	--	Unknown_Aromatic	27.44	SVOA	350 J N
15.	--	Unknown	27.63	SVOA	470 J N
16.	--	Unknown_Sterol_type	27.76	SVOA	820 J N
17.	--	Unknown	27.96	SVOA	220 J N
18.	--	Unknown	28.12	SVOA	220 J N
19.	--	Unknown_Sterol_type	28.24	SVOA	720 J N
20.	--	Unknown	28.54	SVOA	180 J N

FORM-1-B

JMB 12/9/97 ~~000341~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T873E
LIMS ID: 97-17226
Matrix: Sediment
Data Release Authorized: BVB
Reported: 10/29/97

Sample No: 9738 4066
WR-SD-SD015-0000
QC Report No: T873-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/17/97
Date Received: 09/19/97

Date extracted: 10/01/97
Date analyzed: 10/15/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 41.5%
pH: 7.0

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 UJ
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U
106-44-5	**4-Methylphenol**	**25**
621-64-7	N-Nitroso-Di-N-Propylamine	38 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	95 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	57 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**120**
106-47-8	4-Chloroaniline	57 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	**2-Methylnaphthalene**	**38**
77-47-4	Hexachlorocyclopentadiene	95 UJ
88-06-2	2,4,6-Trichlorophenol	95 U
95-95-4	2,4,5-Trichlorophenol	95 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	95 U
131-11-3	Dimethylphthalate	19 U
208-96-8	**Acenaphthylene**	**32**
99-09-2	3-Nitroaniline	110 U
83-32-9	**Acenaphthene**	**50**
51-28-5	2,4-Dinitrophenol	190 UJ
100-02-7	4-Nitrophenol	95 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	95 U

FORM-1

JMB 12/9/97 ~~000393~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T873E
LIMS ID: 97-17226
Matrix: Sediment
Data Release Authorized: BKP
Reported: 10/29/97

Sample No: 9738 4066
WR-SD-SD015-0000
QC Report No: T873-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/17/97
Date Received: 09/19/97

Date extracted: 10/01/97
Date analyzed: 10/15/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 41.5%
pH: 7.0

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	95 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**40**
100-01-6	4-Nitroaniline	95 UJ
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	95 U
85-01-8	**Phenanthrene**	**260**
86-74-8	Carbazole	19 U
120-12-7	**Anthracene**	**52**
84-74-2	Di-n-Butylphthalate	19 UJ
206-44-0	**Fluoranthene**	**410**
129-00-0	**Pyrene**	**450**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	95 U
56-55-3	**Benzo(a)anthracene**	**140**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**120 ~~J~~UJ**
218-01-9	**Chrysene**	**210**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**180**
207-08-9	**Benzo(k)fluoranthene**	**180**
50-32-8	**Benzo(a)pyrene**	**240**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**140**
53-70-3	**Dibenz(a,h)anthracene**	**38**
191-24-2	**Benzo(g,h,i)perylene**	**160**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	62.0%	d5-Phenol	59.4%
2-Fluorobiphenyl	72.5%	2-Fluorophenol	66.1%
d14-p-Terphenyl	87.9%	2,4,6-Tribromophenol	94.1%
d4-1,2-Dichlorobenzene	54.6%	d4-2-Chlorophenol	62.0%

FORM-1

JMB 12/9/97 ~~020394~~

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4066
WR-SD-SD015-0000

Lab Sample ID: T873E
LIMS ID: 97-17226
Matrix: Sediment

QC Report No: T873-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/17/97
Date Received: 09/19/97

Data Release Authorized: ART
Reported: 11/11/97

Date Analyzed: 10/15/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	-------NO UNKNOWNS FOUND >10% IS PEAK HT----------				
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					

FORM-1-B

JMB 12/9/97 ~~000395~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T873F
LIMS ID: 97-17227
Matrix: Sediment
Data Release Authorized:
Reported: 10/29/97

Sample No: 9738 4067
WR-SD-SD017-0000
QC Report No: T873-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/17/97
Date Received: 09/19/97

Date extracted: 10/01/97
Date analyzed: 10/16/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 44.3%
pH: 6.9

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	40 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U J
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U
106-44-5	4-Methylphenol	20 U
621-64-7	N-Nitroso-Di-N-Propylamine	40 U J
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	100 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	60 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**28**
106-47-8	4-Chloroaniline	60 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	40 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	100 U J
88-06-2	2,4,6-Trichlorophenol	100 U
95-95-4	2,4,5-Trichlorophenol	100 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	100 U
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**30**
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	100 U
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	100 U

FORM-1

JMB 12/9/97 ~~020446~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T873F
LIMS ID: 97-17227
Matrix: Sediment
Data Release Authorized:
Reported: 10/29/97

Sample No: 9738 4067
WR-SD-SD017-0000
QC Report No: T873-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/17/97
Date Received: 09/19/97

Date extracted: 10/01/97
Date analyzed: 10/16/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 44.3%
pH: 6.9

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	100 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	**Fluorene**	**29**
100-01-6	4-Nitroaniline	100 U
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	100 UJ
85-01-8	**Phenanthrene**	**150**
86-74-8	Carbazole	20 UJ
120-12-7	**Anthracene**	**36**
84-74-2	Di-n-Butylphthalate	20 UJ
206-44-0	**Fluoranthene**	**240**
129-00-0	**Pyrene**	**240**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	100 U
56-55-3	**Benzo(a)anthracene**	**83**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**140** BUJ
218-01-9	**Chrysene**	**130**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**86**
207-08-9	**Benzo(k)fluoranthene**	**110**
50-32-8	**Benzo(a)pyrene**	**110**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**63**
53-70-3	Dibenz(a,h)anthracene	20 U
191-24-2	**Benzo(g,h,i)perylene**	**66** J

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	58.6%	d5-Phenol	61.1%
2-Fluorobiphenyl	64.5%	2-Fluorophenol	58.3%
d14-p-Terphenyl	81.9%	2,4,6-Tribromophenol	86.3%
d4-1,2-Dichlorobenzene	50.2%	d4-2-Chlorophenol	58.9%

FORM-1

JMB 12/9/97 ~~030117~~

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4067
WR-SD-SD017-0000

Lab Sample ID: T873F
LIMS ID: 97-17227
Matrix: Sediment

QC Report No: T873-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/17/97
Date Received: 09/19/97

Data Release Authorized:
Reported: 11/11/97

Date Analyzed: 10/16/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown	17.45	SVOA	190 J N
2.	--	Unknown	17.91	SVOA	150 J N
3.	--	Unknown_Organic_Acid	18.02	SVOA	130 J N
4.	--	Unknown_Organic_Acid	18.18	SVOA	140 J N
5.	--	Unknown	18.58	SVOA	940 J N
6.	--	Unknown	19.02	SVOA	120 J N
7.	--	Unknown_Alcohol	19.37	SVOA	170 J N
8.	--	Unknown_Aromatic	19.47	SVOA	140 J N
9.	--	Unknown_Aromatic	20.44	SVOA	1,400 J N
10.	--	Unknown_Aromatic	23.17	SVOA	180 J N
11.	--	Unknown	23.32	SVOA	270 J N
12.	--	Unknown_Alcohol	23.91	SVOA	150 J N
13.	--	Unknown_Sterol_type	25.99	SVOA	250 J N
14.	--	Unknown_Sterol_type	26.29	SVOA	140 J N
15.	--	Unknown_Aromatic	27.37	SVOA	370 J N
16.	--	Unknown	27.55	SVOA	320 J N
17.	--	Unknown_Sterol_type	27.70	SVOA	650 J N
18.	--	Unknown	27.88	SVOA	240 J N
19.	--	Unknown_Aromatic	28.05	SVOA	130 J N
20.	--	Unknown_Sterol_type	28.16	SVOA	270 J N

JMB 12/9/97

FORM-1-B

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T873G
LIMS ID: 97-17228
Matrix: Sediment
Data Release Authorized:
Reported: 10/29/97

Sample No: 9738 4068
WR-SD-SD018-0000
QC Report No: T873-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/17/97
Date Received: 09/19/97

Date extracted: 10/01/97
Date analyzed: 10/24/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.5 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 51.1%
pH: 7.0

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	4-Methylphenol	19 U
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	97 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**150**
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	**2-Methylnaphthalene**	**420**
77-47-4	Hexachlorocyclopentadiene	97 U J
88-06-2	2,4,6-Trichlorophenol	97 U
95-95-4	2,4,5-Trichlorophenol	97 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	97 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U J
83-32-9	**Acenaphthene**	**270**
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	97 U
132-64-9	**Dibenzofuran**	**48**
606-20-2	2,6-Dinitrotoluene	97 U

FORM-1

~~030493~~ JMB 12/9/97

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS

Lab Sample ID: T873G
LIMS ID: 97-17228
Matrix: Sediment
Data Release Authorized: MB
Reported: 10/29/97

Sample No: 9738 4068
WR-SD-SD018-0000
QC Report No: T873-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/17/97
Date Received: 09/19/97

Date extracted: 10/01/97
Date analyzed: 10/24/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.5 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 51.1%
pH: 7.0

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	97 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**140**
100-01-6	4-Nitroaniline	97 U J
534-52-1	4,6-Dinitro-2-Methylphenol	190 U J
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	97 U J
85-01-8	**Phenanthrene**	**440**
86-74-8	**Carbazole**	**180 J**
120-12-7	**Anthracene**	**70**
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**390**
129-00-0	**Pyrene**	**360**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	97 U
56-55-3	**Benzo(a)anthracene**	**120**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**120** ~~J~~
218-01-9	**Chrysene**	**160**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**140**
207-08-9	**Benzo(k)fluoranthene**	**100**
50-32-8	**Benzo(a)pyrene**	**150**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**79**
53-70-3	**Dibenz(a,h)anthracene**	**24**
191-24-2	**Benzo(g,h,i)perylene**	**90**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	48.8%	d5-Phenol	51.3%
2-Fluorobiphenyl	51.9%	2-Fluorophenol	53.9%
d14-p-Terphenyl	69.7%	2,4,6-Tribromophenol	66.7%
d4-1,2-Dichlorobenzene	36.4%	d4-2-Chlorophenol	49.1%

FORM-1

JMB 12/9/97
~~000194~~

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4068
WR-SD-SD018-0000

Lab Sample ID: T873G
LIMS ID: 97-17228
Matrix: Sediment

QC Report No: T873-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/17/97
Date Received: 09/19/97

Data Release Authorized: OGB
Reported: 11/11/97

Date Analyzed: 10/24/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	79-34-5	Ethane,_1,1,2,2-tetrachlo	6.71	SVOA	300 ~~JNB~~ JN
2.	90-12-0	Naphthalene,_1-methyl-___	12.23	SVOA	160 JN
3.	--	Unknown_Organic_Acid_____	16.64	SVOA	160 JN
4.	--	Unknown_Ketone_____	18.27	SVOA	340 JN
5.	--	Unknown_Organic_Acid_____	18.41	SVOA	210 JN
6.	--	Unknown_____	19.68	SVOA	230 JN
7.	--	Unknown_Aromatic_____	20.61	SVOA	290 JN
8.	--	Unknown_Aldehyde_____	23.10	SVOA	190 JN
9.	--	Unknown_Aldehyde_____	24.31	SVOA	450 JN
10.	--	Unknown_Aldehyde_____	25.44	SVOA	210 JN
11.	--	Unknown_____	26.04	SVOA	350 JN
12.	--	Unknown_Sterol_type_____	26.22	SVOA	420 JN
13.	--	Unknown_Sterol_type_____	26.47	SVOA	190 JN
14.	--	Unknown_Sterol_type_____	26.93	SVOA	140 JN
15.	--	Unknown_____	27.48	SVOA	750 JN
16.	--	Unknown_____	27.66	SVOA	200 JN
17.	--	Unknown_____	27.78	SVOA	730 JN
18.	--	Unknown_Aromatic_____	28.01	SVOA	170 JN
19.	--	Unknown_____	28.11	SVOA	160 JN
20.	--	Unknown_Sterol_type_____	28.22	SVOA	320 JN

FORM-1-B

JMB 12/9/97

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T873H
LIMS ID: 97-17229
Matrix: Sediment
Data Release Authorized:
Reported: 10/29/97

Sample No: 9738 4069
WR-SD-SD019-0000
QC Report No: T873-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/17/97
Date Received: 09/19/97

Date extracted: 10/01/97
Date analyzed: 10/16/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 45.8%
pH: 6.9

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 UJ
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U
106-44-5	4-Methylphenol	19 U
621-64-7	N-Nitroso-Di-N-Propylamine	39 UJ
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	97 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**29**
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	97 UJ
88-06-2	2,4,6-Trichlorophenol	97 U
95-95-4	2,4,5-Trichlorophenol	97 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	97 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**31**
51-28-5	2,4-Dinitrophenol	190 UJ
100-02-7	4-Nitrophenol	97 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	97 U

FORM-1

JMB 12/9/97 ~~000544~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS

Lab Sample ID: T873H
LIMS ID: 97-17229
Matrix: Sediment
Data Release Authorized: BMB
Reported: 10/29/97

Sample No: 9738 4069
WR-SD-SD019-0000
QC Report No: T873-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/17/97
Date Received: 09/19/97

Date extracted: 10/01/97
Date analyzed: 10/16/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 45.8%
pH: 6.9

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	97 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**26**
100-01-6	4-Nitroaniline	97 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	97 U J
85-01-8	**Phenanthrene**	**150**
86-74-8	Carbazole	19 U J
120-12-7	**Anthracene**	**43**
84-74-2	Di-n-Butylphthalate	19 U J
206-44-0	**Fluoranthene**	**230**
129-00-0	**Pyrene**	**220**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	97 U
56-55-3	**Benzo(a)anthracene**	**90**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**98** ~~J~~ U J
218-01-9	**Chrysene**	**120**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**100**
207-08-9	**Benzo(k)fluoranthene**	**95**
50-32-8	**Benzo(a)pyrene**	**130**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**75**
53-70-3	**Dibenz(a,h)anthracene**	**22**
191-24-2	**Benzo(g,h,i)perylene**	**81** J

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	48.5%	d5-Phenol	46.3%
2-Fluorobiphenyl	53.3%	2-Fluorophenol	45.7%
d14-p-Terphenyl	60.3%	2,4,6-Tribromophenol	69.1%
d4-1,2-Dichlorobenzene	39.4%	d4-2-Chlorophenol	46.5%

FORM-1

JMB 12/9/97

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4069
WR-SD- SD019- 0000

Lab Sample ID: T873H
LIMS ID: 97-17229
Matrix: Sediment

QC Report No: T873-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/17/97
Date Received: 09/19/97

Data Release Authorized:
Reported: 11/11/97

Date Analyzed: 10/16/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	79-34-5	Ethane,_1,1,2,2-tetrachlo	6.58	SVOA	340 ~~JNB~~ JN
2.	--	Unknown_Aromatic_____	18.11	SVOA	120 J N
3.	--	Unknown_____	19.02	SVOA	150 J N
4.	--	Unknown_____	19.38	SVOA	100 J N
5.	--	Unknown_Aromatic_____	19.48	SVOA	190 J N
6.	--	Unknown_Aromatic_____	20.41	SVOA	200 J N
7.	--	Unknown_Aldehyde_____	22.88	SVOA	190 J N
8.	--	Unknown_Aromatic_____	23.18	SVOA	380 J N
9.	--	Unknown_____	23.33	SVOA	440 J N
10.	--	Unknown_Aldehyde_____	24.10	SVOA	840 J N
11.	--	Unknown_Alcohol_____	24.48	SVOA	270 J N
12.	--	Unknown_Aldehyde_____	25.23	SVOA	390 J N
13.	--	Unknown_Sterol_type_____	26.00	SVOA	200 J N
14.	--	Unknown_Aldehyde_____	26.30	SVOA	180 J N
15.	--	Unknown_Aromatic_____	27.38	SVOA	570 J N
16.	--	Unknown_Aromatic_____	27.57	SVOA	470 J N
17.	--	Unknown_Sterol_type_____	27.70	SVOA	830 J N
18.	--	Unknown_Organic_Acid_____	27.88	SVOA	280 J N
19.	--	Unknown_____	28.06	SVOA	180 J N
20.	--	Unknown_Sterol_type_____	28.16	SVOA	270 J N

FORM-1-B

JMB 12/9/97
~~000546~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T873I
LIMS ID: 97-17230
Matrix: Sediment
Data Release Authorized:
Reported: 10/29/97

Sample No: 9738 4070
WR-SD-SD020-0000
QC Report No: T873-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/17/97
Date Received: 09/19/97

Date extracted: 10/01/97
Date analyzed: 10/24/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 50.3%
pH: 6.9

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	4-Methylphenol	19 U
621-64-7	N-Nitroso-Di-N-Propylamine	38 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	96 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	57 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**31**
106-47-8	4-Chloroaniline	57 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	96 U J
88-06-2	2,4,6-Trichlorophenol	96 U
95-95-4	2,4,5-Trichlorophenol	96 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	96 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	110 U J
83-32-9	**Acenaphthene**	**43**
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	96 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	96 U

FORM-1

JMB 12/9/97 ~~000592~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T873I
LIMS ID: 97-17230
Matrix: Sediment
Data Release Authorized: [illegible]
Reported: 10/29/97

Sample No: 9738 4070
WR-SD-SD020-0000
QC Report No: T873-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/17/97
Date Received: 09/19/97

Date extracted: 10/01/97
Date analyzed: 10/24/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 50.3%
pH: 6.9

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	96 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**35**
100-01-6	4-Nitroaniline	96 U J
534-52-1	4,6-Dinitro-2-Methylphenol	190 U J
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	96 U J
85-01-8	**Phenanthrene**	**220**
86-74-8	**Carbazole**	**19 J**
120-12-7	**Anthracene**	**38**
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**330**
129-00-0	**Pyrene**	**360**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	96 U
56-55-3	**Benzo(a)anthracene**	**110**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**90 ~~B~~UJ**
218-01-9	**Chrysene**	**160**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**120**
207-08-9	**Benzo(k)fluoranthene**	**110**
50-32-8	**Benzo(a)pyrene**	**150**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**74**
53-70-3	**Dibenz(a,h)anthracene**	**22**
191-24-2	**Benzo(g,h,i)perylene**	**83**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	49.0%	d5-Phenol	50.9%
2-Fluorobiphenyl	57.0%	2-Fluorophenol	53.2%
d14-p-Terphenyl	75.4%	2,4,6-Tribromophenol	79.6%
d4-1,2-Dichlorobenzene	37.8%	d4-2-Chlorophenol	48.8%

FORM-1

JMB 12/9/97
~~000593~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4070
WR-SD-SD020-0000

Lab Sample ID: T873I
LIMS ID: 97-17230
Matrix: Sediment

QC Report No: T873-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/17/97
Date Received: 09/19/97

Data Release Authorized:
Reported: 11/11/97

Date Analyzed: 10/24/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid	16.63	SVOA	130 J N
2.	--	Unknown	18.22	SVOA	130 J N
3.	--	Unknown_Aromatic	18.31	SVOA	130 J N
4.	--	Unknown_Organic_Acid	18.37	SVOA	140 J N
5.	--	Unknown	18.77	SVOA	340 J N
6.	--	Unknown_Aromatic	19.24	SVOA	160 J N
7.	--	Unknown	19.68	SVOA	470 J N
8.	--	Unknown_Aromatic	20.62	SVOA	390 J N
9.	--	Unknown_Aldehyde	23.10	SVOA	230 J N
10.	--	Unknown_Aromatic	23.38	SVOA	500 J N
11.	--	Unknown	23.53	SVOA	190 J N
12.	--	Unknown_Aldehyde	25.43	SVOA	200 J N
13.	--	Unknown_Aromatic	26.36	SVOA	140 J N
14.	--	Unknown_Sterol_type	26.92	SVOA	130 J N
15.	--	Unknown_Aromatic	27.48	SVOA	1,200 J N
16.	--	Unknown	27.67	SVOA	570 J N
17.	--	Unknown	27.78	SVOA	890 J N
18.	--	Unknown	28.01	SVOA	130 J N
19.	--	Unknown	28.11	SVOA	200 J N
20.	--	Unknown_Sterol_type	28.21	SVOA	420 J N

FORM-1-B

~~010594~~
JMB 12/9/97

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T873J
LIMS ID: 97-17231
Matrix: Sediment
Data Release Authorized: [illegible]
Reported: 10/29/97

Sample No: 9738 4071
WR-SD-SD024-0000
QC Report No: T873-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/17/97
Date Received: 09/19/97

Date extracted: 10/01/97
Date analyzed: 10/16/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 48.8%
pH: 6.9

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U
106-44-5	4-Methylphenol	19 U
621-64-7	N-Nitroso-Di-N-Propylamine	39 U J
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	97 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**30**
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	97 U J
88-06-2	2,4,6-Trichlorophenol	97 U
95-95-4	2,4,5-Trichlorophenol	97 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	97 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**26**
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	97 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	97 U

FORM-1

JMB 12/9/97 ~~000641~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T873J
LIMS ID: 97-17231
Matrix: Sediment
Data Release Authorized:
Reported: 10/29/97

Sample No: 9738 4071
WR-SD-SD024-0000
QC Report No: T873-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/17/97
Date Received: 09/19/97

Date extracted: 10/01/97
Date analyzed: 10/16/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 48.8%
pH: 6.9

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	97 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**20**
100-01-6	4-Nitroaniline	97 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	97 U J
85-01-8	**Phenanthrene**	**120**
86-74-8	Carbazole	19 U J
120-12-7	**Anthracene**	**28**
84-74-2	Di-n-Butylphthalate	19 U J
206-44-0	**Fluoranthene**	**210**
129-00-0	**Pyrene**	**220**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	97 U
56-55-3	**Benzo(a)anthracene**	**83**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**140** ~~J~~ UJ
218-01-9	**Chrysene**	**120**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**99**
207-08-9	**Benzo(k)fluoranthene**	**89**
50-32-8	**Benzo(a)pyrene**	**120**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**66**
53-70-3	**Dibenz(a,h)anthracene**	**21**
191-24-2	**Benzo(g,h,i)perylene**	**69** J

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	41.0%	d5-Phenol	40.2%
2-Fluorobiphenyl	49.7%	2-Fluorophenol	36.9%
d14-p-Terphenyl	66.8%	2,4,6-Tribromophenol	71.6%
d4-1,2-Dichlorobenzene	32.8%	d4-2-Chlorophenol	38.5%

FORM-1

JMB 12/9/97

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4071
WR-SD-SD024-0000

Lab Sample ID: T873J
LIMS ID: 97-17231
Matrix: Sediment

QC Report No: T873-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/17/97
Date Received: 09/19/97

Data Release Authorized: [illegible]
Reported: 11/11/97

Date Analyzed: 10/16/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	79-34-5	Ethane,_1,1,2,2-tetrachlo	6.58	SVOA	230 ~~JNB~~ R
2.	--	Unknown_Cycloalkane_____	17.45	SVOA	160 J N
3.	--	Unknown_____	18.58	SVOA	190 J N
4.	--	Unknown_Aromatic_____	19.48	SVOA	280 J N
5.	--	Unknown_Aromatic_____	20.42	SVOA	450 J N
6.	--	Unknown_____	21.73	SVOA	260 J N
7.	--	Unknown_Aldehyde_____	22.88	SVOA	400 J N
8.	--	Unknown_Aromatic_____	23.18	SVOA	420 J N
9.	--	Unknown_____	23.33	SVOA	560 J N
10.	--	Unknown_Cycloalkane_____	24.49	SVOA	590 J N
11.	--	Unknown_Aldehyde_____	25.22	SVOA	860 J N
12.	--	Unknown_Alcohol_____	25.58	SVOA	620 J N
13.	--	Unknown_Sterol_type_____	26.00	SVOA	530 J N
14.	--	Unknown_Alcohol_____	26.30	SVOA	460 J N
15.	--	Unknown_Aromatic_____	27.38	SVOA	920 J N
16.	--	Unknown_____	27.58	SVOA	730 J N
17.	--	Unknown_Sterol_type_____	27.71	SVOA	1,300 J N
18.	--	Unknown_____	27.90	SVOA	470 J N
19.	--	Unknown_Aromatic_____	28.06	SVOA	290 J N
20.	--	Unknown_Sterol_type_____	28.17	SVOA	510 J N

FORM-1-B

JMB 12/9/97
~~030643~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9738 4060
WR-SD-SD001-0000

Lab Sample ID: T873A
LIMS ID: 97-17222
Matrix: Sediment
Data Release Authorized:
Reported: 10/20/97

QC Report No: T873-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/17/97
Date Received: 09/19/97

Date extracted: 10/01/97
Date analyzed: 10/17/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 51.1 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:1
Percent Moisture: 31.9%
pH: 7.4

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	0.98 U J
319-85-7	beta-BHC	0.98 U
319-86-8	delta-BHC	2.0 ~~U~~ UI J
58-89-9	gamma-BHC (Lindane)	0.98 U
76-44-8	Heptachlor	0.98 U
309-00-2	Aldrin	0.98 U
1024-57-3	Heptachlor Epoxide	0.98 U
959-98-8	Endosulfan I	0.98 U
60-57-1	Dieldrin	2.0 U
72-55-9	**4,4'-DDE**	**1.6 J**
72-20-8	Endrin	2.0 U
33213-65-9	Endosulfan II	2.0 U
72-54-8	**4,4'-DDD**	**5.8 J**
1031-07-8	Endosulfan Sulfate	2.0 U
50-29-3	4,4'-DDT	2.0 U
72-43-5	Methoxychlor	9.8 U
53494-70-5	Endrin Ketone	2.0 U
7421-93-4	Endrin Aldehyde	2.0 U
57-74-9	gamma Chlordane	0.98 U
5103-71-9	alpha Chlordane	0.98 U
8001-35-2	Toxaphene	98 U
12674-11-2	Aroclor 1016	20 U
53469-21-9	Aroclor 1242	20 U
12672-29-6	Aroclor 1248	20 U
11097-69-1	Aroclor 1254	20 U
11096-82-5	Aroclor 1260	20 U
11104-28-2	Aroclor 1221	39 U
11141-16-5	Aroclor 1232	20 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	57.0%
Tetrachlorometaxylene	46.8%

FORM-1

~~01334~~

JMB 12/9/97

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9738 4064

WR- SD- SD011-0000

Lab Sample ID: T873D
LIMS ID: 97-17225
Matrix: Sediment
Data Release Authorized:
Reported: 10/20/97

QC Report No: T873-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/17/97
Date Received: 09/19/97

Date extracted: 10/01/97
Date analyzed: 10/17/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 50.4 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:1
Percent Moisture: 47.0%
pH: 7.0

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	0.99 U J
319-85-7	beta-BHC	0.99 U
319-86-8	delta-BHC	2.5 ~~U~~ UI J
58-89-9	gamma-BHC (Lindane)	0.99 U
76-44-8	Heptachlor	0.99 U
309-00-2	Aldrin	0.99 U
1024-57-3	Heptachlor Epoxide	0.99 U
959-98-8	Endosulfan I	0.99 U
60-57-1	Dieldrin	2.0 U
72-55-9	**4,4'-DDE**	**2.7**
72-20-8	Endrin	2.0 U
33213-65-9	Endosulfan II	2.0 U
72-54-8	**4,4'-DDD**	**7.3** J
1031-07-8	Endosulfan Sulfate	2.0 U
50-29-3	**4,4'-DDT**	**15**
72-43-5	Methoxychlor	9.9 U
53494-70-5	Endrin Ketone	2.0 U
7421-93-4	Endrin Aldehyde	2.0 U
57-74-9	gamma Chlordane	0.99 U
5103-71-9	alpha Chlordane	0.99 U
8001-35-2	Toxaphene	99 U
12674-11-2	Aroclor 1016	20 U
53469-21-9	Aroclor 1242	20 U
12672-29-6	Aroclor 1248	20 U
11097-69-1	Aroclor 1254	20 U
11096-82-5	Aroclor 1260	20 U
11104-28-2	Aroclor 1221	40 U
11141-16-5	Aroclor 1232	20 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	55.0%
Tetrachlorometaxylene	38.8%

FORM-1

JMB 12/9/97 ~~090893~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9738 4070

WR-SD-SD020-0000

Lab Sample ID: T873I
LIMS ID: 97-17230
Matrix: Sediment
Data Release Authorized:
Reported: 10/20/97

QC Report No: T873-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/17/97
Date Received: 09/19/97

Date extracted: 10/01/97
Date analyzed: 10/17/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 52.2 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:1
Percent Moisture: 50.3%
pH: 6.9

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	0.96 U J
319-85-7	beta-BHC	0.96 U J
319-86-8	delta-BHC	2.7 X UI J
58-89-9	gamma-BHC (Lindane)	0.96 U J
76-44-8	Heptachlor	0.96 U J
309-00-2	Aldrin	0.96 U J
1024-57-3	Heptachlor Epoxide	0.96 U J
959-98-8	Endosulfan I	0.96 U J
60-57-1	Dieldrin	1.9 U J
72-55-9	**4,4'-DDE**	**2.7** J
72-20-8	Endrin	1.9 U J
33213-65-9	Endosulfan II	1.9 U J
72-54-8	**4,4'-DDD**	**3.8** J
1031-07-8	Endosulfan Sulfate	1.9 U J
50-29-3	**4,4'-DDT**	**8.6** J
72-43-5	Methoxychlor	9.6 U J
53494-70-5	Endrin Ketone	18 X UI J
7421-93-4	Endrin Aldehyde	1.9 U J
57-74-9	gamma Chlordane	0.96 U J
5103-71-9	alpha Chlordane	0.96 U J
8001-35-2	Toxaphene	96 U J
12674-11-2	Aroclor 1016	19 U J
53469-21-9	Aroclor 1242	19 U J
12672-29-6	Aroclor 1248	19 U J
11097-69-1	Aroclor 1254	19 U J
11096-82-5	Aroclor 1260	19 U J
11104-28-2	Aroclor 1221	38 U J
11141-16-5	Aroclor 1232	19 U J

Pesticide Surrogate Recovery

Decachlorobiphenyl	49.5%
Tetrachlorometaxylene	34.5%

FORM-1

JMB 12/9/97

~~000002~~

Roy F. Weston, Inc.
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Seattle, Washington 98104-5057
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FEB 03 1998
Environmental Cleanup Office

MEMORANDUM

DATE: 27 January 1998

TO: John Meyer, WAM, U.S. EPA, Region X

FROM: Jennifer M. Baier, Environmental Chemist, WESTON, Seattle JMB
RNM Roger McGinnis, Senior Environmental Chemist, WESTON, Seattle

SUBJECT: Validation of Organics (semivolatiles, pesticides, and PCBs)
SDG No: T870
Site: Willamette River

WORK ASSIGNMENT NO: 46-23-0JZZ

DOC. CONTROL NO.: 4000-019-036-AAAN

WORK ORDER NO.: 4000-019-036-5200-00

cc: Bruce Woods, RAP-WAM, U.S. EPA, Region X
Karen Stash, Project Manager, WESTON, Seattle (memo only)

The quality assurance review of 26 samples, SDG T870, collected from the Willamette River has been completed. The sediment samples were analyzed at low level for semivolatiles, pesticides and PCBs by Analytical Resources, Inc. The samples were numbered:

97384072	97384073	97384074	97384076	97384078
97384079	97384080	97384081	97384082	97384083
97384084	97384085	97384086	97384088	97384089
97384090	97384091	97384093	97384094	97384095
97384096	97384097	97384098	97384099	97384100
97384101				

Data Qualifications

The following comments refer to the laboratory performance in meeting the quality control criteria described in the technical specifications of the laboratory subcontract. The review follows the format described in the *National Functional Guidelines for Organic Data Review* (EPA OSWER Directive 9240.1-05, February 1994).

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1. Timeliness

All samples met holding time criteria except the following:

Sample Number	Fraction	Sampling Date	Extraction Date	Holding Time	QC Limit
97384088	Pest/PCB	9/18/97	11/5/97	48 days	14 days
97384091	Pest/PCB	9/18/97	10/21/97	33 days	14 days
97384101	Pest/PCB	9/18/97	11/5/97	48 days	14 days

Samples were stored at -18°C upon receipt by the laboratory and thus, according to PSEP protocols, holding times may be extended to one year. No data were qualified.

2. GC/MS Instrument Performance Check

All tuning check compound mass abundances and ratios were within required limits.

3. Initial Calibration

All target compound list (TCL) analytes and system monitoring compounds were within required limits for the initial calibration with $\overline{RRF}$ percent relative standard deviations (percent RSD) less than 30 percent except:

Date	Fraction	Compound	Percent RSD	Associated Samples
2/27/97	BNA	Benzyl alcohol	47.2	None
		2,4-Dinitrophenol	52.2	
10/16/97	BNA	2,4-Dinitrophenol	50.1	97384072, 97384073, 97384074, 97384076, 97384078, 97384079, 97384080, 97384081, 97384082, 97384083, 97384084, 97384085, 97384086, 97384088, 97384089, 97384090, 97384091, 97384093, 97384094, 97384095, 97384096, 97384097, 97384098, 97384099, 97384100, 97384101

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Results and quantitation limits for compounds associated with the above calibrations and samples have been qualified as estimated (J) as a high RSD is indicative of calibration nonlinearity.

4. Continuing Calibrations

All target compound list (TCL) analytes were within required limits for the continuing calibrations with average relative response factors $\overline{RRF}$ greater than 0.05 except:

Date	Fraction	Compound	$\overline{RRF}$	Associated Samples
10/22/97	BNA	2,4-Dinitrophenol	0.019	97384079
		4,6-Dinitro-2-methyphenol	0.039	

Positive results for compounds associated with the above calibrations and samples have been qualified as estimated (J). Quantitation limits for all undetected compounds with $\overline{RRF}$ below 0.05 have been rejected.

All target compound list (TCL) analytes were within required limits for the continuing calibration with $\overline{RRF}$ percent differences less than 25 percent except:

Date	Time	Compound	% Diff	Associated Samples
10/16/97	1252	Benzyl alcohol	-34.2	97384093, 97384095, 97384096, 97384099, 97384100, 97384101
		N-Nitroso-di-n-propylamine	26.1	
		Hexachlorocyclopentadiene	52.2	
		Pentachlorophenol	27.9	
		Carbazole	38.5	
		Di-n-butylphthalate	-27.8	
		Benzo(g,h,i)perylene	-29.4	

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Date	Time	Compound	% Diff	Associated Samples
10/17/97	1313	Benzyl alcohol	-31.6	97384086, 97384088, 97384081, 97384095DL
		Hexachlorocyclopentadiene	46.6	
		4-Nitroaniline	-30.8	
		Pentachlorophenol	34.7	
		Di-n-butylphthalate	-31.3	
10/20/97	1451	2,2′-oxybis(1-Chloropropane)	27.1	97384076, 97384078, 97384082, 97384084
		2,4-Dinitrophenol	-32.8	
		2,4,6-Tribromophenol (surr)	-36.9	
10/22/97	1223	Benzyl alcohol	-46.6	97384079
		2,2′-oxybis(1-Chloropropane)	-35.3	
		Hexachlorocyclopentadiene	72.5	
		2,4-Dinitrophenol	80.6	
		4-Nitrophenol	-49.5	
		Diethylphthalate	-25.8	
		4,6-Dinitro-2-methylphenol	72.1	
		N-Nitrosodiphenylamine	26.1	
		Pentachlorophenol	29.9	
		Carbazole	37.3	
		2,4,6-Tribromophenol (surr)	-39.4	
10/24/97	1343	Benzyl alcohol	-57.7	97384080, 97384083, 97384089, 97384090, 97384091, 97384094
		2,2′-oxybis(1-Chloropropane)	-37.5	
		Hexachlorocyclopentadiene	46.6	
		3-Nitroaniline	26.9	
		2,4-Dinitrophenol	36.7	
		4-Nitroaniline	47.2	
		4,6-Dinitro-2-methylphenol	26.4	
		Pentachlorophenol	29.2	
		Carbazole	47.5	

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Date	Time	Compound	% Diff	Associated Samples
10/28/97	1041	Benzyl alcohol	-45.7	97384080DL, 97384097, 97384098
		2,2'oxybis(1-Chloropropane)	-34	
		4-Chloroaniline	52.3	
		Hexachlorocyclopentadiene	57.5	
		3-Nitroaniline	68.7	
		4-Nitroaniline	33	
		Pentachlorophenol	38.8	
		Carbazole	63.8	
		3,3'-Dichlorobenzidine	40.9	
10/29/97	1333	Benzyl alcohol	-37.4	97384081DL
		Hexachlorocyclopentadiene	53.4	
		Pentachlorophenol	35.4	
		Carbazole	29.1	

Positive results for compounds associated with the above calibrations and samples have been qualified as estimated (J).

5. Detection Limits—Acceptable

Laboratory reporting limits are equal to or less than project required quantitation limits.

6. Blanks

a. Laboratory Method Blanks

The following compounds were detected in laboratory method blanks.

Blank ID	Fraction	Compound (R.T.)	Concentration
Method Blank (10/22/97)	BNA	bis(2-Ethylhexyl)phthalate	16
		1,1,2,2-Tetrachloroethane (6.78)	60
		Unknown Cycloalkane (13.92)	44
		Unknown (23.13)	23

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Blank ID	Fraction	Compound (R.T.)	Concentration
		Unknown (23.37)	280
		Unknown Hydrocarbon (23.51)	32
		Unknown (24.57)	160
		Unknown (24.92)	120
		Unknown (26.81)	370
		Unknown (27.57)	340
Method Blank (10/22/97)	BNA	bis(2-Ethylhexyl)phthalate	160
		1,1,2,2-Tetrachloroethane (6.78)	48
		Unknown Alcohol (13.92)	25
		Unknown Hydrocarbon (24.67)	23

Reported levels of the above compounds were qualified as undetected with an adjusted quantitation limit (UJ) in samples if concentrations were less than five times concentrations present in the blank (ten times for common laboratory contaminants [e.g., phthalates]).

b. Field Blanks

No field blanks were associated with this SDG.

7. System Monitoring Compounds (Surrogates)

Surrogate compound percent recovery met quality control criteria for all samples except:

Sample	Fraction	Compound	Percent Recovery	QC Limits
97384090	BNA-Acid	2-Fluorophenol	22.8	25-121
97384076	Pest/PCB	Decachlorobiphenyl	39.8	43-155
97384086	Pest/PCB	Decachlorobiphenyl	36.5	43-155

Results and quantitation limits for samples listed above were qualified as estimated (J/UJ) if any two semivolatile surrogates were outside the recovery limits. For samples with any surrogate recovery less than 10 percent, positive results were qualified as estimated (J)

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and quantitation limits for undetected compounds were rejected (R). Data qualification was not required.

8. Matrix Spike and Matrix Spike Duplicate

All matrix spike (MS) and matrix spike duplicate (MSD) percent recoveries met QC guidelines. All relative percent differences between the MS and MSD recoveries were within QC guidelines.

9. Field Duplicate Analysis

Samples 97384086 and 97384088 were field duplicates. Results exhibited reasonable agreement.

10. Internal Standards Performance

Internal standard areas were within requirements of -50 percent to +100 percent of associated calibration internal standard areas. Retention time shifts for internal standards met requirements of less than 30 seconds.

11. GC/ECD Instrument Performance

a. Resolution Check Mixture

The resolution check mixture was analyzed at the proper frequency. Resolution (valley depth) between adjacent peaks was greater than 60 percent of the shorter peak.

b. Performance Evaluation Mixture

i. Frequency

Samples were analyzed at the proper frequency.

ii. Resolution

Resolution was greater than 90 percent for all adjacent peaks.

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iii. Retention Time Windows

Retention times of all pesticides were within windows calculated from the initial calibration.

iv. Pesticide Recovery

Recovery for all single component pesticides and surrogate compounds were within QC limits of 75 to 125 percent for both GC columns.

v. DDT/Endrin Breakdown

The percent breakdown for 4,4′-DDT and Endrin was less than 20 percent for each compound and combined breakdown was less than 30 percent on both GC columns.

12. Pesticide Initial Calibration

a. Individual Standard Mixtures

Resolution between adjacent peaks for the initial calibration, mid level concentration was greater than 90 percent.

Retention time windows were calculated correctly.

Appropriate standards concentrations were used and peak heights of 50 to 100 percent of full scale were obtained.

Calibration factor percent relative standard deviation (%RSD) exceeded QC criteria of 20 percent for pesticides and 30 percent for surrogates listed below:

GC Column	Date	Compound	% RSD
DB-5	10/14/97	alpha-BHC	20.6
DB-5	11/11/97	delta-BHC	21.9
		4,4′-DDT	27.3

Results and quantitation limits for analytes listed above have been qualified as estimated (J).

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13. Pesticide Calibration Verification

Instrument blanks and PEM samples were analyzed at the proper frequency.

Resolution between adjacent peaks in individual pesticide mixtures exceeded 90 percent.

Pesticide standard peaks actual and calculated concentrations of individual pesticides was within QC criteria of ±25 percent.

The difference between actual and calculated concentrations of individual pesticides exceeded QC criteria of ±25 percent for the following pesticides:

GC Column	Date	Time	Compound	% Diff
DB-608	10/28/97	18:48	alpha-BHC	60
			beta-BHC	50
			gamma-BHC	50
DB-5	10/29/97	1:58	delta-BHC	55
			Endosulfan sulfate	48
			Endrin ketone	43
DB-608	10/29/97	1:25	alpha-BHC	40
			gamma-BHC	35
			4,4′-DDD	28
DB-608	10/29/97	1:58	beta-BHC	30
			gamma-BHC	90
			Aldrin	35
			Heptachlor epoxide	30
			Endosulfan sulfate	60
			Endrin ketone	43
			alpha-Chlordane	30
DB-5	11/11/97	19:56	4,4′-DDT	28
DB-5	11/12/97	2:32	Endosulfan sulfate	28
			Endrin ketone	28

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GC Column	Date	Time	Compound	% Diff
DB-608	11/12/97	2:32	delta-BHC	40
			Endosulfan sulfate	35
			Endrin ketone	28

Results and quantitation limits for pesticides listed above were qualified as estimated (J).

14. Pesticide Cleanup Checks

a. Florisil Cartridge Cleanup

Recovery for mixture A pesticides and surrogates were within QC limits of 80 to 120 percent. Recovery of 2,4,5-trichlorophenol was less than 5 percent as required.

b. Gel Permeation Cleanup (GPC)

All pesticides in the matrix spiking solution met recovery limits of 80 to 110 percent. Aroclor-1016 and 1260 patterns matched those of standards.

GPC blank concentrations did not exceed one-half the quantitation limit for any target analytes.

15. Sample Analysis

The following sample results exhibited greater than 35 percent difference between the primary and confirmation columns for pesticide analysis.

Sample	Compound	%D
97384091	4,4′-DDE	52.9
	4,4′-DDD	36.4
	4,4′-DDT	70

The percent differences are not deemed significant at the reported concentrations. The lower concentration was reported for each analyte.

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16. Laboratory Contact

No laboratory contact was required.

Data Assessment

Upon consideration of the data qualifications noted above, the data are ACCEPTABLE for use except where flagged with data qualifiers that modify the usefulness of the individual values.

Data Qualifiers

U - The compound was analyzed for, but was not detected.

UJ - The compound was analyzed for, but was not detected. The associated quantitation limit is an estimate because quality control criteria were not met.

J - The analyte was positively identified, but the associated numerical value is an estimated quantity because quality control criteria were not met or because concentrations reported are less than the quantitation limit or lowest calibration standard.

R - Quality control indicates that data are unusable (compound may or may not be present). Resampling and reanalysis are necessary for verification.

N - Presumptive evidence of presence of material (tentative identification).

UI - Analyte was undetected. Quantitation limit increased due to interferences.

E - Value exceeds range of instrument. Value is estimated.

D - Value from sample dilution.

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T870A
LIMS ID: 97-17196
Matrix: Sediment
Data Release Authorized: MW
Reported: 10/30/97

Sample No: 9738 4072
WR-SD-SD026-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/17/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/17/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 46.5%
pH: 7.0

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U
106-44-5	4-Methylphenol	20 U
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	98 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**30**
106-47-8	4-Chloroaniline	59 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	98 U
88-06-2	2,4,6-Trichlorophenol	98 U
95-95-4	2,4,5-Trichlorophenol	98 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	98 U
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**31**
51-28-5	2,4-Dinitrophenol	200 UJ
100-02-7	4-Nitrophenol	98 U
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	98 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T870A
LIMS ID: 97-17196
Matrix: Sediment
Data Release Authorized: MW
Reported: 10/30/97

Sample No: 9738 4072
WR-SD-SD026-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/17/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/17/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 46.5%
pH: 7.0

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	98 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	**Fluorene**	**27**
100-01-6	4-Nitroaniline	98 U
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	98 U
85-01-8	**Phenanthrene**	**130**
86-74-8	Carbazole	20 U
120-12-7	**Anthracene**	**29**
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**160**
129-00-0	**Pyrene**	**220**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	98 U
56-55-3	**Benzo(a)anthracene**	**81**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**140** ~~B~~UJ
218-01-9	**Chrysene**	**120**
117-84-0	**Di-n-Octyl phthalate**	**91**
205-99-2	**Benzo(b)fluoranthene**	**92**
207-08-9	**Benzo(k)fluoranthene**	**83**
50-32-8	**Benzo(a)pyrene**	**120**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**94**
53-70-3	Dibenz(a,h)anthracene	20 U
191-24-2	**Benzo(g,h,i)perylene**	**59**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	61.4%	d5-Phenol	57.8%
2-Fluorobiphenyl	58.6%	2-Fluorophenol	52.1%
d14-p-Terphenyl	66.1%	2,4,6-Tribromophenol	90.9%
d4-1,2-Dichlorobenzene	50.0%	d4-2-Chlorophenol	54.6%

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FORM-1

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4072
WR-SD-SD026-0000

Lab Sample ID: T870A
LIMS ID: 97-17196
Matrix: Sediment

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/17/97
Date Received: 09/20/97

Data Release Authorized: MV
Reported: 10/30/97

Date Analyzed: 10/17/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid	24.02	SVOA	620 JN
2.	--	Unknown_Organic_Acid	24.13	SVOA	400 JN
3.	109-29-5	Oxacycloheptadecan-2-one	25.63	SVOA	1,600 JN
4.	--	Unknown	25.73	SVOA	500 JN
5.	57-10-3	Hexadecanoic_acid	25.88	SVOA	1,400 JN
6.	112-80-1	Oleic_Acid	28.07	SVOA	520 JN
7.	--	Unknown	33.40	SVOA	650 JN
8.	--	Unknown_Phthalate	35.10	SVOA	1,300 JN
9.	--	Unknown	35.15	SVOA	1,400 JN
10.	--	Unknown_Phthalate	35.20	SVOA	1,700 JN
11.	--	Unknown	35.28	SVOA	910 JN
12.	--	Unknown_Phthalate	35.33	SVOA	1,000 JN
13.	--	Unknown_Phthalate	35.43	SVOA	1,400 JN
14.	--	Unknown_Phthalate	35.57	SVOA	710 JN
15.	--	Unknown_Cycloalkane	37.43	SVOA	620 JN
16.	57-88-5	Cholesterol	37.82	SVOA	870 JN
17.	80-97-7	Cholestanol	37.88	SVOA	830 JN
18.	83-46-5	.beta.-Sitosterol	39.43	SVOA	2,600 JN
19.	--	Unknown	39.52	SVOA	810 JN
20.	--	Unknown	39.57	SVOA	840 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T870B
LIMS ID: 97-17197
Matrix: Sediment
Data Release Authorized: MW
Reported: 10/30/97

Sample No: 9738 4073
WR-SD-SD028-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/17/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/17/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 43.6%
pH: 6.9

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U
106-44-5	4-Methylphenol	20 U
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	98 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**23**
106-47-8	4-Chloroaniline	59 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	98 U
88-06-2	2,4,6-Trichlorophenol	98 U
95-95-4	2,4,5-Trichlorophenol	98 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	98 U
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**50**
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	98 U
132-64-9	**Dibenzofuran**	**28**
606-20-2	2,6-Dinitrotoluene	98 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T870B
LIMS ID: 97-17197
Matrix: Sediment
Data Release Authorized: MJ
Reported: 10/30/97

Sample No: 9738 4073
WR-SD-SD028-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/17/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/17/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 43.6%
pH: 6.9

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	98 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	**Fluorene**	**51**
100-01-6	4-Nitroaniline	98 U
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	98 U
85-01-8	**Phenanthrene**	**220**
86-74-8	Carbazole	20 U
120-12-7	**Anthracene**	**35**
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**210**
129-00-0	**Pyrene**	**210**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	98 U
56-55-3	**Benzo(a)anthracene**	**74**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**110** BUJ
218-01-9	**Chrysene**	**120**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**80**
207-08-9	**Benzo(k)fluoranthene**	**58**
50-32-8	**Benzo(a)pyrene**	**78**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**61**
53-70-3	Dibenz(a,h)anthracene	20 U
191-24-2	**Benzo(g,h,i)perylene**	**36**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	51.0%	d5-Phenol	46.2%
2-Fluorobiphenyl	55.0%	2-Fluorophenol	39.9%
d14-p-Terphenyl	64.2%	2,4,6-Tribromophenol	76.4%
d4-1,2-Dichlorobenzene	43.0%	d4-2-Chlorophenol	45.6%

FORM-1

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4073
WR-SD- SD028-0000

Lab Sample ID: T870B
LIMS ID: 97-17197
Matrix: Sediment

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/17/97
Date Received: 09/20/97

Data Release Authorized: MW
Reported: 10/30/97

Date Analyzed: 10/17/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown	9.77	SVOA	320 JN
2.	97-78-9	Glycine, N-methyl-N-(1-ox	23.08	SVOA	140 JN
3.	1002-84-2	Pentadecanoic acid	24.00	SVOA	380 JN
4.	--	Unknown	24.12	SVOA	250 JN
5.	112-39-0	Hexadecanoic acid, methyl	25.27	SVOA	140 JN
6.	2091-29-4	9-Hexadecenoic acid	25.60	SVOA	890 JN
7.	--	Unknown	25.68	SVOA	280 JN
8.	57-10-3	Hexadecanoic acid	25.85	SVOA	860 JN
9.	--	Unknown	28.03	SVOA	520 JN
10.	57-11-4	Octadecanoic acid	28.22	SVOA	280 JN
11.	--	Unknown	29.05	SVOA	360 JN
12.	112-85-6	Docosanoic acid	32.55	SVOA	340 JN
13.	--	Unknown	33.37	SVOA	370 JN
14.	--	Unknown Aldehyde	35.10	SVOA	820 JN
15.	--	Unknown	36.90	SVOA	400 JN
16.	--	Unknown	37.43	SVOA	300 JN
17.	57-88-5	Cholesterol	37.80	SVOA	570 JN
18.	83-46-5	.beta.-Sitosterol	39.38	SVOA	1,200 JN
19.	--	Unknown	39.53	SVOA	660 JN
20.	--	Unknown	39.83	SVOA	360 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T870C
LIMS ID: 97-17198
Matrix: Sediment
Data Release Authorized: MW
Reported: 10/30/97

Sample No: 9738 4074
WR-SD-SD030-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/17/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/17/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 42.6%
pH: 7.0

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U
106-44-5	**4-Methylphenol**	**21**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	97 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**57**
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	**2-Methylnaphthalene**	**46**
77-47-4	Hexachlorocyclopentadiene	97 U
88-06-2	2,4,6-Trichlorophenol	97 U
95-95-4	2,4,5-Trichlorophenol	97 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	97 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**170**
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	97 U
132-64-9	**Dibenzofuran**	**110**
606-20-2	2,6-Dinitrotoluene	97 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T870C
LIMS ID: 97-17198
Matrix: Sediment
Data Release Authorized: MW
Reported: 10/30/97

Sample No: 9738 4074
WR-SD-SD030-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/17/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/17/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 42.6%
pH: 7.0

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	97 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**170**
100-01-6	4-Nitroaniline	97 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	97 U
85-01-8	**Phenanthrene**	**1,100**
86-74-8	**Carbazole**	**37**
120-12-7	**Anthracene**	**130**
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**1,400**
129-00-0	**Pyrene**	**1,300**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	97 U
56-55-3	**Benzo(a)anthracene**	**280**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**100** BUJ
218-01-9	**Chrysene**	**400**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**270**
207-08-9	**Benzo(k)fluoranthene**	**240**
50-32-8	**Benzo(a)pyrene**	**180**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**94**
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	**Benzo(g,h,i)perylene**	**62**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	51.6%	d5-Phenol	50.5%
2-Fluorobiphenyl	54.5%	2-Fluorophenol	43.4%
d14-p-Terphenyl	65.9%	2,4,6-Tribromophenol	73.7%
d4-1,2-Dichlorobenzene	45.8%	d4-2-Chlorophenol	48.5%

FORM-1

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4074
WR-SD- SD030-0000

Lab Sample ID: T870C
LIMS ID: 97-17198
Matrix: Sediment

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/17/97
Date Received: 09/20/97

Data Release Authorized: MV
Reported: 10/30/97

Date Analyzed: 10/17/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown	9.78	SVOA	300 JN
2.	544-63-8	Tetradecanoic_acid	23.12	SVOA	160 JN
3.	1002-84-2	Pentadecanoic_acid	24.02	SVOA	210 JN
4.	--	Unknown_Organic_Acid	24.13	SVOA	140 JN
5.	203-64-5	4H-Cyclopenta[def]phenant	25.42	SVOA	120 JN
6.	--	Unknown	25.63	SVOA	710 JN
7.	--	Unknown	25.73	SVOA	280 JN
8.	57-10-3	Hexadecanoic_acid	25.88	SVOA	630 JN
9.	--	Unknown	26.22	SVOA	110 JN
10.	--	Unknown	26.37	SVOA	190 JN
11.	--	Unknown	26.68	SVOA	140 JN
12.	--	Unknown	27.67	SVOA	120 JN
13.	57-11-4	Octadecanoic_acid	28.25	SVOA	120 JN
14.	--	Unknown	29.08	SVOA	310 JN
15.	112-85-6	Docosanoic_acid	32.60	SVOA	380 JN
16.	--	Unknown	33.42	SVOA	450 JN
17.	--	Unknown	35.15	SVOA	810 JN
18.	--	Unknown	36.93	SVOA	460 JN
19.	--	Unknown	39.42	SVOA	380 JN
20.	--	Unknown	39.57	SVOA	460 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T870D
LIMS ID: 97-17199
Matrix: Sediment
Data Release Authorized: MW
Reported: 10/30/97

Sample No: 9738 4076
WR-SD-SD035-0006
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/20/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 52.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 44.6%
pH: 6.9

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	4-Methylphenol	19 U
621-64-7	N-Nitroso-Di-N-Propylamine	38 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	95 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	57 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**20**
106-47-8	4-Chloroaniline	57 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	95 U
88-06-2	2,4,6-Trichlorophenol	95 U
95-95-4	2,4,5-Trichlorophenol	95 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	95 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	110 U
83-32-9	**Acenaphthene**	**29 ~~J~~ N**
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	95 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	95 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T870D
LIMS ID: 97-17199
Matrix: Sediment
Data Release Authorized: MW
Reported: 10/30/97

Sample No: 9738 4076
WR-SD-SD035-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/20/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 52.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 44.6%
pH: 6.9

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	95 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**26**
100-01-6	4-Nitroaniline	95 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	95 U
85-01-8	**Phenanthrene**	**130**
86-74-8	Carbazole	19 U
120-12-7	**Anthracene**	**25**
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**120**
129-00-0	**Pyrene**	**200**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3 3'-Dichlorobenzidine	95 U
56-55-3	**Benzo(a)anthracene**	**74**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**110** ~~B~~ uJ
218-01-9	**Chrysene**	**92**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**83**
207-08-9	**Benzo(k)fluoranthene**	**80**
50-32-8	**Benzo(a)pyrene**	**110**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**76**
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	**Benzo(g,h,i)perylene**	**77**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	45.3%	d5-Phenol	52.5%
2-Fluorobiphenyl	51.5%	2-Fluorophenol	41.7%
d14-p-Terphenyl	72.1%	2,4,6-Tribromophenol	62.5%
d4-1,2-Dichlorobenzene	37.8%	d4-2-Chlorophenol	47.9%

FORM-1

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4076
WR-SD-SD035-0000

Lab Sample ID: T870D
LIMS ID: 97-17199
Matrix: Sediment

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Data Release Authorized: MW
Reported: 10/30/97

Date Analyzed: 10/20/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown	10.03	SVOA	720 JN
2.	--	Unknown_Siloxane	16.40	SVOA	300 JN
3.	--	Unknown	24.25	SVOA	380 JN
4.	--	Unknown_Organic_Acid	24.37	SVOA	290 JN
5.	2091-29-4	9-Hexadecenoic_acid	25.87	SVOA	850 JN
6.	--	Unknown_Organic_Acid	25.95	SVOA	300 JN
7.	57-10-3	Hexadecanoic_acid	26.12	SVOA	1,100 JN
8.	--	Unknown	26.58	SVOA	210 JN
9.	--	Unknown	28.30	SVOA	410 JN
10.	57-11-4	Octadecanoic_acid	28.48	SVOA	170 JN
11.	--	Unknown_Alkyl_PNA	29.33	SVOA	260 JN
12.	112-85-6	Docosanoic_acid	32.80	SVOA	230 JN
13.	--	Unknown	33.67	SVOA	230 JN
14.	--	Unknown	35.32	SVOA	220 JN
15.	--	Unknown	35.37	SVOA	290 JN
16.	--	Unknown_Aldehyde	37.13	SVOA	170 JN
17.	--	Unknown	39.68	SVOA	360 JN
18.	--	Unknown	39.85	SVOA	300 JN
19.	--	Unknown	40.15	SVOA	200 JN
20.	--	Unknown	40.28	SVOA	550 JN

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T870E
LIMS ID: 97-17200
Matrix: Sediment
Data Release Authorized: MW
Reported: 10/30/97

Sample No: 9738 4078
WR-SD-SD023-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/20/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:5
Percent Moisture: 55.4%
pH: 6.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	97 U
111-44-4	Bis-(2-Chloroethyl) Ether	190 U
95-57-8	2-Chlorophenol	97 U
541-73-1	1,3-Dichlorobenzene	97 U
106-46-7	1,4-Dichlorobenzene	97 U
100-51-6	Benzyl Alcohol	97 U
95-50-1	1,2-Dichlorobenzene	97 U
95-48-7	2-Methylphenol	97 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	97 UJ
106-44-5	4-Methylphenol	97 U
621-64-7	N-Nitroso-Di-N-Propylamine	190 U
67-72-1	Hexachloroethane	97 U
98-95-3	Nitrobenzene	97 U
78-59-1	Isophorone	97 U
88-75-5	2-Nitrophenol	490 U
105-67-9	2,4-Dimethylphenol	97 U
65-85-0	Benzoic Acid	970 U
111-91-1	bis(2-Chloroethoxy) Methane	97 U
120-83-2	2,4-Dichlorophenol	290 U
120-82-1	1,2,4-Trichlorobenzene	97 U
91-20-3	**Naphthalene**	**100**
106-47-8	4-Chloroaniline	290 U
87-68-3	Hexachlorobutadiene	97 U
59-50-7	4-Chloro-3-methylphenol	190 U
91-57-6	2-Methylnaphthalene	97 U
77-47-4	Hexachlorocyclopentadiene	490 U
88-06-2	2,4,6-Trichlorophenol	490 U
95-95-4	2,4,5-Trichlorophenol	490 U
91-58-7	2-Chloronaphthalene	97 U
88-74-4	2-Nitroaniline	490 U
131-11-3	Dimethylphthalate	97 U
208-96-8	Acenaphthylene	97 U
99-09-2	3-Nitroaniline	580 U
83-32-9	**Acenaphthene**	**420**
51-28-5	2,4-Dinitrophenol	970 UJ
100-02-7	4-Nitrophenol	490 U
132-64-9	**Dibenzofuran**	**110**
606-20-2	2,6-Dinitrotoluene	490 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T870E
LIMS ID: 97-17200
Matrix: Sediment
Data Release Authorized: MW
Reported: 10/30/97

Sample No: 9738 4078
WR-SD-SD023-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/20/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:5
Percent Moisture: 55.4%
pH: 6.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	490 U
84-66-2	Diethylphthalate	97 U
7005-72-3	4-Chlorophenyl-phenylether	97 U
86-73-7	**Fluorene**	**230**
100-01-6	4-Nitroaniline	490 U
534-52-1	4,6-Dinitro-2-Methylphenol	970 U
86-30-6	N-Nitrosodiphenylamine	97 U
101-55-3	4-Bromophenyl-phenylether	97 U
118-74-1	Hexachlorobenzene	97 U
87-86-5	Pentachlorophenol	490 U
85-01-8	**Phenanthrene**	**2,200**
86-74-8	**Carbazole**	**420**
120-12-7	**Anthracene**	**430**
84-74-2	Di-n-Butylphthalate	97 U
206-44-0	**Fluoranthene**	**4,200**
129-00-0	**Pyrene**	**4,600**
85-68-7	Butylbenzylphthalate	97 U
91-94-1	3,3'-Dichlorobenzidine	490 U
56-55-3	**Benzo(a)anthracene**	**3,200**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**470** ~~B~~ UJ
218-01-9	**Chrysene**	**3,200**
117-84-0	Di-n-Octyl phthalate	97 U
205-99-2	**Benzo(b)fluoranthene**	**5,600**
207-08-9	**Benzo(k)fluoranthene**	**3,600**
50-32-8	**Benzo(a)pyrene**	**4,900**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**3,300**
53-70-3	**Dibenz(a,h)anthracene**	**830**
191-24-2	**Benzo(g,h,i)perylene**	**2,500**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	48.2%	d5-Phenol	48.1%
2-Fluorobiphenyl	54.8%	2-Fluorophenol	38.9%
d14-p-Terphenyl	69.0%	2,4,6-Tribromophenol	68.4%
d4-1,2-Dichlorobenzene	40.8%	d4-2-Chlorophenol	46.9%

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4078
WR-SD-SD023-0000

Lab Sample ID: T870E
LIMS ID: 97-17200
Matrix: Sediment

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Data Release Authorized: MW
Reported: 10/30/97

Date Analyzed: 10/20/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown	24.28	SVOA	330 JN
2.	--	Unknown_PNA	25.67	SVOA	320 JN
3.	--	Unknown	25.77	SVOA	1,600 JN
4.	--	Unknown	25.87	SVOA	500 JN
5.	57-10-3	Hexadecanoic_acid	26.00	SVOA	860 JN
6.	--	Unknown_PNA_+_C.E.	29.32	SVOA	1,300 JN
7.	--	Unknown_PNA	29.52	SVOA	670 JN
8.	--	Benzo[b]naphtho[1,2-d_Iso	31.23	SVOA	850 JN
9.	203-12-3	Benzo[ghi]fluoranthene	31.37	SVOA	1,200 JN
10.	--	Unknown_PNA	32.35	SVOA	1,200 JN
11.	--	Unknown_Alkyl_PNA	33.30	SVOA	1,200 JN
12.	--	Unknown_Alkyl_PNA_+_C.E.	33.42	SVOA	810 JN
13.	--	Unknown_Alkyl_PNA_+_C.E.	33.82	SVOA	860 JN
14.	--	Unknown_PNA	35.48	SVOA	1,300 JN
15.	--	Unknown_PNA	35.95	SVOA	3,400 JN
16.	--	Unknown_PNA	36.30	SVOA	1,400 JN
17.	--	Unknown	38.25	SVOA	1,000 JN
18.	--	Unknown_PNA	39.05	SVOA	950 JN
19.	--	Unknown	39.68	SVOA	870 JN
20.	--	Unknown	40.25	SVOA	1,300 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T870F
LIMS ID: 97-17201
Matrix: Sediment
Data Release Authorized: MV
Reported: 10/30/97

Sample No: 9738 4079
WR-SD-SD022-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/22/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 50.5%
pH: 6.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 UJ
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 UJ
106-44-5	4-Methylphenol	19 U
621-64-7	N-Nitroso-Di-N-Propylamine	38 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	96 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**35**
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	96 UJ
88-06-2	2,4,6-Trichlorophenol	96 U
95-95-4	2,4,5-Trichlorophenol	96 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	96 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**110**
51-28-5	2,4-Dinitrophenol	190 ~~UJ~~ R
100-02-7	4-Nitrophenol	96 UJ
132-64-9	**Dibenzofuran**	**30**
606-20-2	2,6-Dinitrotoluene	96 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T870F
LIMS ID: 97-17201
Matrix: Sediment
Data Release Authorized: MW
Reported: 10/30/97

Sample No: 9738 4079
WR-SD-SD022-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/22/97
Instrument: ntl
GPC Cleanup: YES

Sample Amount: 52.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 50.5%
pH: 6.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	96 U
84-66-2	Diethylphthalate	19 UJ
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**56**
100-01-6	4-Nitroaniline	96 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 ~~UJ~~ R
86-30-6	N-Nitrosodiphenylamine	19 UJ
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	96 UJ
85-01-8	**Phenanthrene**	**580**
86-74-8	**Carbazole**	**200 J**
120-12-7	**Anthracene**	**120**
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**1,200**
129-00-0	**Pyrene**	**1,200**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	96 U
56-55-3	**Benzo(a)anthracene**	**950**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**160 BUJ**
218-01-9	**Chrysene**	**1,100**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**1,200**
207-08-9	**Benzo(k)fluoranthene**	**1,000**
50-32-8	**Benzo(a)pyrene**	**1,300**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**730**
53-70-3	**Dibenz(a,h)anthracene**	**300**
191-24-2	**Benzo(g,h,i)perylene**	**760**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	35.9%	d5-Phenol	42.5%
2-Fluorobiphenyl	47.8%	2-Fluorophenol	36.6%
d14-p-Terphenyl	55.7%	2,4,6-Tribromophenol	58.9%
d4-1,2-Dichlorobenzene	28.9%	d4-2-Chlorophenol	38.3%

FORM-1

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4079
WR-SD- SD022-0000

Lab Sample ID: T870F
LIMS ID: 97-17201
Matrix: Sediment

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Data Release Authorized: MW
Reported: 10/30/97

Date Analyzed: 10/22/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Cycloalkane_____	6.97	SVOA	330 JN
2.	80-56-8	.alpha.-Pinene_____	7.08	SVOA	660 JN
3.	--	Unknown_Cycloalkane_____	7.73	SVOA	580 JN
4.	--	Unknown_Cycloalkane_____	10.61	SVOA	390 JN
5.	--	Unknown_Organic_Acid_____	18.33	SVOA	270 JN
6.	203-64-5	4H-Cyclopenta[def]phenant	18.38	SVOA	300 JN
7.	--	Unknown_Aromatic_____	19.76	SVOA	170 JN
8.	--	Unknown_Aromatic_____	19.86	SVOA	230 JN
9.	--	Unknown_____	20.36	SVOA	140 JN
10.	--	Unknown_Aromatic_____	20.70	SVOA	370 JN
11.	--	Unknown_Aldehyde_____	24.40	SVOA	170 JN
12.	--	Unknown_C20.H12_PNA_____	24.98	SVOA	270 JN
13.	--	Unknown_____	25.52	SVOA	140 JN
14.	--	Unknown_Aromatic_____	25.64	SVOA	140 JN
15.	--	Unknown_Aromatic_____	25.87	SVOA	130 JN
16.	--	Unknown_Sterol_type_____	26.27	SVOA	160 JN
17.	--	Unknown_Sterol_type_____	27.42	SVOA	210 JN
18.	--	Unknown_C22.H12_PNA_____	27.49	SVOA	180 JN
19.	--	Unknown_Sterol_type_____	27.89	SVOA	220 JN
20.	--	Unknown_Sterol_type_____	28.33	SVOA	150 JN

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T870G
LIMS ID: 97-17202
Matrix: Sediment
Data Release Authorized: MW
Reported: 10/30/97

Sample No: 9738 4080
WR-SD-SD033-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/24/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 50.3%
pH: 6.7

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	4-Methylphenol	19 U
621-64-7	N-Nitroso-Di-N-Propylamine	38 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	96 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	57 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**160**
106-47-8	4-Chloroaniline	57 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	**2-Methylnaphthalene**	**99**
77-47-4	Hexachlorocyclopentadiene	96 U J
88-06-2	2,4,6-Trichlorophenol	96 U
95-95-4	2,4,5-Trichlorophenol	96 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	96 U
131-11-3	Dimethylphthalate	19 U
208-96-8	**Acenaphthylene**	**35**
99-09-2	3-Nitroaniline	110 U J
83-32-9	**Acenaphthene**	**970**
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	96 U
132-64-9	**Dibenzofuran**	**220**
606-20-2	2,6-Dinitrotoluene	96 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T870G
LIMS ID: 97-17202
Matrix: Sediment
Data Release Authorized: MM
Reported: 10/30/97

Sample No: 9738 4080
WR-SD-SD033-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/24/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 50.3%
pH: 6.7

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	96 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**530**
100-01-6	4-Nitroaniline	96 U J
534-52-1	4,6-Dinitro-2-Methylphenol	190 U J
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	96 U J
85-01-8	**Phenanthrene**	~~4,100 E~~ 4800 D
86-74-8	**Carbazole**	~~2,600 E~~ 2800 DJ
120-12-7	**Anthracene**	**1,100**
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	~~7,600 E~~ 12000 D
129-00-0	**Pyrene**	**12,000** ~~E~~ D
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	96 U
56-55-3	**Benzo(a)anthracene**	~~9,600 E~~ 8200 D
117-81-7	**bis(2-Ethylhexyl)phthalate**	**330** ~~E~~
218-01-9	**Chrysene**	~~9,300 E~~ 9500 D
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	~~9,700 E~~ 9800 D
207-08-9	**Benzo(k)fluoranthene**	~~4,100 E~~ 9200 D
50-32-8	**Benzo(a)pyrene**	~~8,900 E~~ 12000 D
193-39-5	**Indeno(1,2,3-cd)pyrene**	~~5,600 E~~ 8000 D
53-70-3	**Dibenz(a,h)anthracene**	~~3,300 E~~ 3600 D
191-24-2	**Benzo(g,h,i)perylene**	~~5,600 E~~ 8700 D

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	41.8%	d5-Phenol	38.6%
2-Fluorobiphenyl	49.1%	2-Fluorophenol	40.7%
d14-p-Terphenyl	119%	2,4,6-Tribromophenol	74.3%
d4-1,2-Dichlorobenzene	31.2%	d4-2-Chlorophenol	38.1%

FORM-1

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4080
WR-SD-SD033-0000

Lab Sample ID: T870G
LIMS ID: 97-17202
Matrix: Sediment

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Data Release Authorized: MV
Reported: 10/30/97

Date Analyzed: 10/24/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_C15.H12_PNA	18.10	SVOA	420 JN
2.	--	Unknown_C15.H12_PNA	18.17	SVOA	560 JN
3.	--	Unknown_PNA	18.26	SVOA	660 JN
4.	--	Unknown_Aromatic	18.35	SVOA	1,900 JN
5.	--	Unknown_Organic_Acid	18.45	SVOA	590 JN
6.	--	Unknown_C15H9N_Aromatic	19.73	SVOA	550 JN
7.	--	Unknown_C17.H12_PNA	20.48	SVOA	550 JN
8.	--	Unknown_C17.H12_PNA	20.73	SVOA	2,100 JN
9.	--	Unknown_C17.H12_PNA	20.85	SVOA	1,700 JN
10.	--	Unknown_Aromatic	21.55	SVOA	630 JN
11.	--	Benzothiophene_Isomer	21.94	SVOA	940 JN
12.	--	Unknown_C16H11N_Aromatic	22.86	SVOA	810 JN
13.	--	Unknown_C16H11N_Aromatic	22.96	SVOA	590 JN
14.	--	Unknown_C19.H14_PNA	23.25	SVOA	700 JN
15.	--	Unknown_C20.H12_PNA	24.99	SVOA	1,600 JN
16.	--	Unknown_C20.H12_PNA	25.21	SVOA	1,200 JN
17.	--	Unknown	25.44	SVOA	690 JN
18.	--	Unknown_C22.H14_PNA	26.99	SVOA	450 JN
19.	--	Unknown_C22.H14_PNA	27.07	SVOA	470 JN
20.	--	Unknown_C22.H12_PNA	27.51	SVOA	1,300 JN

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FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T870G
LIMS ID: 97-17202
Matrix: Sediment
Data Release Authorized: MV
Reported: 10/30/97

Sample No. 9738 4080
DILUTION

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/28/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:20
Percent Moisture: 50.3%
pH: 6.7

CAS Number	Analyte	ug/kg
108-95-2	Phenol	380 U
111-44-4	Bis-(2-Chloroethyl) Ether	760 U
95-57-8	2-Chlorophenol	380 U
541-73-1	1,3-Dichlorobenzene	380 U
106-46-7	1,4-Dichlorobenzene	380 U
100-51-6	Benzyl Alcohol	380 UJ
95-50-1	1,2-Dichlorobenzene	380 U
95-48-7	2-Methylphenol	380 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	380 UJ
106-44-5	4-Methylphenol	380 U
621-64-7	N-Nitroso-Di-N-Propylamine	760 U
67-72-1	Hexachloroethane	380 U
98-95-3	Nitrobenzene	380 U
78-59-1	Isophorone	380 U
88-75-5	2-Nitrophenol	1,900 U
105-67-9	2,4-Dimethylphenol	380 U
65-85-0	Benzoic Acid	3,800 U
111-91-1	bis(2-Chloroethoxy) Methane	380 U
120-83-2	2,4-Dichlorophenol	1,100 U
120-82-1	1,2,4-Trichlorobenzene	380 U
91-20-3	Naphthalene	380 U
106-47-8	4-Chloroaniline	1,100 UJ
87-68-3	Hexachlorobutadiene	380 U
59-50-7	4-Chloro-3-methylphenol	760 U
91-57-6	2-Methylnaphthalene	380 U
77-47-4	Hexachlorocyclopentadiene	1,900 UJ
88-06-2	2,4,6-Trichlorophenol	1,900 U
95-95-4	2,4,5-Trichlorophenol	1,900 U
91-58-7	2-Chloronaphthalene	380 U
88-74-4	2-Nitroaniline	1,900 U
131-11-3	Dimethylphthalate	380 U
208-96-8	Acenaphthylene	380 U
99-09-2	3-Nitroaniline	2,300 UJ
83-32-9	**Acenaphthene**	**800**
51-28-5	2,4-Dinitrophenol	3,800 UJ
100-02-7	4-Nitrophenol	1,900 U
132-64-9	Dibenzofuran	380 U
606-20-2	2,6-Dinitrotoluene	1,900 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 2 of 2

Sample No. 5738 4080
DILUTION

Lab Sample ID: T870G
LIMS ID: 97-17202
Matrix: Sediment
Data Release Authorized: MW
Reported: 10/30/97

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/28/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:20
Percent Moisture: 50.3%
pH: 6.7

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	1,900 U
84-66-2	Diethylphthalate	380 U
7005-72-3	4-Chlorophenyl-phenylether	380 U
86-73-7	**Fluorene**	**420**
100-01-6	4-Nitroaniline	1,900 U J
534-52-1	4,6-Dinitro-2-Methylphenol	3,800 U
86-30-6	N-Nitrosodiphenylamine	380 U
101-55-3	4-Bromophenyl-phenylether	380 U
118-74-1	Hexachlorobenzene	380 U
87-86-5	Pentachlorophenol	1,900 U J
85-01-8	**Phenanthrene**	**4,800**
86-74-8	**Carbazole**	**2,800 J**
120-12-7	**Anthracene**	**990**
84-74-2	Di-n-Butylphthalate	380 U
206-44-0	**Fluoranthene**	**12,000**
129-00-0	**Pyrene**	**12,000**
85-68-7	Butylbenzylphthalate	380 U
91-94-1	3,3'-Dichlorobenzidine	1,900 U J
56-55-3	**Benzo(a)anthracene**	**8,200**
117-81-7	bis(2-Ethylhexyl)phthalate	380 U
218-01-9	**Chrysene**	**9,500**
117-84-0	Di-n-Octyl phthalate	380 U
205-99-2	**Benzo(b)fluoranthene**	**9,800**
207-08-9	**Benzo(k)fluoranthene**	**9,200**
50-32-8	**Benzo(a)pyrene**	**12,000**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**8,000**
53-70-3	**Dibenz(a,h)anthracene**	**3,600**
191-24-2	**Benzo(g,h,i)perylene**	**8,700**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	35.2%	d5-Phenol	36.8%
2-Fluorobiphenyl	46.4%	2-Fluorophenol	34.7%
d14-p-Terphenyl	60.8%	2,4,6-Tribromophenol	49.6%
d4-1,2-Dichlorobenzene	33.6%	d4-2-Chlorophenol	36.8%

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4080
DILUTION

Lab Sample ID: T870G
LIMS ID: 97-17202
Matrix: Sediment

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/18/97
Date Received: 09/20/97

Data Release Authorized: MW
Reported: 10/30/97

Date Analyzed: 10/28/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	---	Unknown_Hydrocarbon	11.13	SVOA	2,900 J
2.	---	Unknown	18.72	SVOA	940 J
3.	---	Unknown_C17.H12_PNA	21.04	SVOA	2,000 J
4.	---	Unknown_C17.H12_PNA	21.17	SVOA	1,300 J
5.	---	Benzothiophene_Isomer	22.26	SVOA	780 J
6.	---	Unknown_PNA	22.34	SVOA	1,200 J
7.	---	Unknown_Hydrocarbon	22.61	SVOA	1,100 J
8.	---	Unknown_PNA	22.99	SVOA	1,600 J
9.	---	Unknown_C19.H14_PNA	23.57	SVOA	900 J
10.	---	Unknown	23.76	SVOA	850 J
11.	---	Unknown_Hydrocarbon	23.86	SVOA	2,500 J
12.	---	Unknown_C20.H12_PNA	24.97	SVOA	1,300 J
13.	---	Unknown_Hydrocarbon	25.02	SVOA	800 J
14.	---	Unknown_C20.H12_PNA	25.27	SVOA	4,200 J
15.	---	Unknown_PNA	25.95	SVOA	790 J
16.	---	Unknown_C22.H14_PNA	26.95	SVOA	1,000 J
17.	---	Unknown_C22.H14_PNA	27.34	SVOA	1,300 J
18.	---	Unknown_C22.H12_PNA	27.74	SVOA	1,900 J
19.	---	Unknown	28.13	SVOA	870 J
20.	---	Unknown_Aromatic	28.57	SVOA	830 J

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T870H
LIMS ID: 97-17203
Matrix: Sediment
Data Release Authorized: MW
Reported: 10/30/97

Sample No: 9738 4081
WR-SD-SD032-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/17/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:5
Percent Moisture: 55.7%
pH: 6.4

CAS Number	Analyte	ug/kg
108-95-2	Phenol	98 U
111-44-4	Bis-(2-Chloroethyl) Ether	200 U
95-57-8	2-Chlorophenol	98 U
541-73-1	1,3-Dichlorobenzene	98 U
106-46-7	1,4-Dichlorobenzene	98 U
100-51-6	Benzyl Alcohol	98 UJ
95-50-1	1,2-Dichlorobenzene	98 U
95-48-7	2-Methylphenol	98 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	98 U
106-44-5	4-Methylphenol	98 U
621-64-7	N-Nitroso-Di-N-Propylamine	200 U
67-72-1	Hexachloroethane	98 U
98-95-3	Nitrobenzene	98 U
78-59-1	Isophorone	98 U
88-75-5	2-Nitrophenol	490 U
105-67-9	2,4-Dimethylphenol	98 U
65-85-0	Benzoic Acid	980 U
111-91-1	bis(2-Chloroethoxy) Methane	98 U
120-83-2	2,4-Dichlorophenol	290 U
120-82-1	1,2,4-Trichlorobenzene	98 U
91-20-3	**Naphthalene**	**990**
106-47-8	4-Chloroaniline	290 U
87-68-3	Hexachlorobutadiene	98 U
59-50-7	4-Chloro-3-methylphenol	200 U
91-57-6	**2-Methylnaphthalene**	**490**
77-47-4	Hexachlorocyclopentadiene	490 UJ
88-06-2	2,4,6-Trichlorophenol	490 U
95-95-4	2,4,5-Trichlorophenol	490 U
91-58-7	2-Chloronaphthalene	98 U
88-74-4	2-Nitroaniline	490 U
131-11-3	Dimethylphthalate	98 U
208-96-8	Acenaphthylene	98 U
99-09-2	3-Nitroaniline	590 U
83-32-9	**Acenaphthene**	~~7,900 E~~ 7800 D
51-28-5	2,4-Dinitrophenol	980 UJ
100-02-7	4-Nitrophenol	490 U
132-64-9	**Dibenzofuran**	**1,300**
606-20-2	2,6-Dinitrotoluene	490 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T870H
LIMS ID: 97-17203
Matrix: Sediment
Data Release Authorized: MW
Reported: 10/30/97

Sample No: 9738 4081
WR-SD-SD032-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/17/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:5
Percent Moisture: 55.7%
pH: 6.4

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	490 U
84-66-2	Diethylphthalate	98 U
7005-72-3	4-Chlorophenyl-phenylether	98 U
86-73-7	**Fluorene**	**3,500**
100-01-6	4-Nitroaniline	490 UJ
534-52-1	4,6-Dinitro-2-Methylphenol	980 U
86-30-6	N-Nitrosodiphenylamine	98 U
101-55-3	4-Bromophenyl-phenylether	98 U
118-74-1	Hexachlorobenzene	98 U
87-86-5	Pentachlorophenol	490 UJ
85-01-8	**Phenanthrene**	~~27,000 E~~ 36000 DJ
86-74-8	**Carbazole**	~~11,000 E~~ 10000 DJ
120-12-7	**Anthracene**	~~9,000 E~~ 8900 D
84-74-2	Di-n-Butylphthalate	98 UJ
206-44-0	**Fluoranthene**	~~47,000 E~~ 81000 D
129-00-0	**Pyrene**	~~75,000 E~~ 87000 D
85-68-7	Butylbenzylphthalate	98 U
91-94-1	3,3'-Dichlorobenzidine	490 U
56-55-3	**Benzo(a)anthracene**	~~71,000 E~~ 67000 D
117-81-7	**bis(2-Ethylhexyl)phthalate**	**390 BUJ**
218-01-9	**Chrysene**	~~50,000 E~~ 73000 D
117-84-0	Di-n-Octyl phthalate	98 U
205-99-2	**Benzo(b)fluoranthene**	~~61,000 E~~ 80000 D
207-08-9	**Benzo(k)fluoranthene**	~~15,000 E~~ 76000 D
50-32-8	**Benzo(a)pyrene**	~~53,000 E~~ 94000 D
193-39-5	**Indeno(1,2,3-cd)pyrene**	~~34,000 E~~ 50000 D
53-70-3	**Dibenz(a,h)anthracene**	~~16,000 E~~ 25000 D
191-24-2	**Benzo(g,h,i)perylene**	~~30,000 E~~ 44000 D

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	43.8%	d5-Phenol	42.0%
2-Fluorobiphenyl	50.2%	2-Fluorophenol	44.9%
d14-p-Terphenyl	108%	2,4,6-Tribromophenol	50.7%
d4-1,2-Dichlorobenzene	37.2%	d4-2-Chlorophenol	44.4%

FORM-1

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ANALYTICAL
RESOURCES
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ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4081
WR-SD-SD032-0000

Lab Sample ID: T870H
LIMS ID: 97-17203
Matrix: Sediment

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Data Release Authorized: MW
Reported: 10/30/97

Date Analyzed: 10/17/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Aromatic	18.11	SVOA	7,000 JN
2.	--	Unknown_PNA	20.24	SVOA	2,900 JN
3.	--	Unknown_PNA	20.49	SVOA	8,600 JN
4.	--	Unknown_PNA	20.62	SVOA	7,800 JN
5.	--	Unknown_Aromatic	20.72	SVOA	7,100 JN
6.	--	Unknown_C18.H14_PNA	21.30	SVOA	4,100 JN
7.	--	Benzothiophene_Isomer	21.70	SVOA	3,500 JN
8.	--	Unknown_PNA	21.81	SVOA	3,700 JN
9.	--	Unknown_Aromatic	22.48	SVOA	5,900 JN
10.	--	Unknown_Quinoline	22.62	SVOA	3,400 JN
11.	--	Unknown_C19.H14_PNA	23.02	SVOA	4,400 JN
12.	--	Unknown	23.21	SVOA	5,400 JN
13.	--	Unknown	23.33	SVOA	7,000 JN
14.	--	Unknown	24.02	SVOA	3,000 JN
15.	--	Unknown_C20.H12_PNA	24.46	SVOA	5,300 JN
16.	--	Unknown_C20.H12_PNA	24.76	SVOA	15,000 JN
17.	--	Unknown	25.21	SVOA	4,600 JN
18.	--	Unknown	25.28	SVOA	2,900 JN
19.	--	Unknown_C22.H14_PNA	26.89	SVOA	2,900 JN
20.	--	Unknown_C22.H12_PNA	27.37	SVOA	5,200 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 1 of 2

Sample No. 9738 4081
DILUTION

Lab Sample ID: T870H
LIMS ID: 97-17203
Matrix: Sediment
Data Release Authorized: m
Reported: 10/30/97

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/29/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:100
Percent Moisture: 55.7%
pH: 6.4

CAS Number	Analyte	ug/kg
108-95-2	Phenol	2,000 U
111-44-4	Bis-(2-Chloroethyl) Ether	3,900 U
95-57-8	2-Chlorophenol	2,000 U
541-73-1	1,3-Dichlorobenzene	2,000 U
106-46-7	1,4-Dichlorobenzene	2,000 U
100-51-6	Benzyl Alcohol	2,000 UJ
95-50-1	1,2-Dichlorobenzene	2,000 U
95-48-7	2-Methylphenol	2,000 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	2,000 U
106-44-5	4-Methylphenol	2,000 U
621-64-7	N-Nitroso-Di-N-Propylamine	3,900 U
67-72-1	Hexachloroethane	2,000 U
98-95-3	Nitrobenzene	2,000 U
78-59-1	Isophorone	2,000 U
88-75-5	2-Nitrophenol	9,800 U
105-67-9	2,4-Dimethylphenol	2,000 U
65-85-0	Benzoic Acid	20,000 U
111-91-1	bis(2-Chloroethoxy) Methane	2,000 U
120-83-2	2,4-Dichlorophenol	5,900 U
120-82-1	1,2,4-Trichlorobenzene	2,000 U
91-20-3	Naphthalene	2,000 U
106-47-8	4-Chloroaniline	5,900 U
87-68-3	Hexachlorobutadiene	2,000 U
59-50-7	4-Chloro-3-methylphenol	3,900 U
91-57-6	2-Methylnaphthalene	2,000 U
77-47-4	Hexachlorocyclopentadiene	9,800 UJ
88-06-2	2,4,6-Trichlorophenol	9,800 U
95-95-4	2,4,5-Trichlorophenol	9,800 U
91-58-7	2-Chloronaphthalene	2,000 U
88-74-4	2-Nitroaniline	9,800 U
131-11-3	Dimethylphthalate	2,000 U
208-96-8	Acenaphthylene	2,000 U
99-09-2	3-Nitroaniline	12,000 U
83-32-9	**Acenaphthene**	**7,800**
51-28-5	2,4-Dinitrophenol	20,000 UJ
100-02-7	4-Nitrophenol	9,800 U
132-64-9	Dibenzofuran	2,000 U
606-20-2	2,6-Dinitrotoluene	9,800 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 2 of 2

Sample No: 9738 4081
DILUTION

Lab Sample ID: T870H
LIMS ID: 97-17203
Matrix: Sediment
Data Release Authorized: MV
Reported: 10/30/97

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/29/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:100
Percent Moisture: 55.7%
pH: 6.4

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	9,800 U
84-66-2	Diethylphthalate	2,000 U
7005-72-3	4-Chlorophenyl-phenylether	2,000 U
86-73-7	**Fluorene**	**3,000**
100-01-6	4-Nitroaniline	9,800 U
534-52-1	4,6-Dinitro-2-Methylphenol	20,000 U
86-30-6	N-Nitrosodiphenylamine	2,000 U
101-55-3	4-Bromophenyl-phenylether	2,000 U
118-74-1	Hexachlorobenzene	2,000 U
87-86-5	Pentachlorophenol	9,800 U J
85-01-8	**Phenanthrene**	**36,000**
86-74-8	**Carbazole**	**10,000** J
120-12-7	**Anthracene**	**8,900**
84-74-2	Di-n-Butylphthalate	2,000 U
206-44-0	**Fluoranthene**	**81,000**
129-00-0	**Pyrene**	**87,000**
85-68-7	Butylbenzylphthalate	2,000 U
91-94-1	3,3'-Dichlorobenzidine	9,800 U
56-55-3	**Benzo(a)anthracene**	**67,000**
117-81-7	bis(2-Ethylhexyl)phthalate	2,000 U
218-01-9	**Chrysene**	**73,000**
117-84-0	Di-n-Octyl phthalate	2,000 U
205-99-2	**Benzo(b)fluoranthene**	**80,000**
207-08-9	**Benzo(k)fluoranthene**	**76,000**
50-32-8	**Benzo(a)pyrene**	**94,000**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**50,000**
53-70-3	**Dibenz(a,h)anthracene**	**25,000**
191-24-2	**Benzo(g,h,i)perylene**	**44,000**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	D	d5-Phenol	D
2-Fluorobiphenyl	D	2-Fluorophenol	D
d14-p-Terphenyl	D	2,4,6-Tribromophenol	D
d4-1,2-Dichlorobenzene	D	d4-2-Chlorophenol	D

FORM-1

JMB 12/15/97

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4081
DILUTION

Lab Sample ID: T870H
LIMS ID: 97-17203
Matrix: Sediment

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/18/97
Date Received: 09/20/97

Data Release Authorized:
Reported: 10/30/97

Date Analyzed: 10/29/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	---	Unknown_Aromatic	18.65	SVOA	7,400 J
2.	---	Unknown_C17.H12_PNA	20.98	SVOA	16,000 J
3.	---	Unknown_C17.H12_PNA	21.11	SVOA	14,000 J
4.	---	Unknown_Aromatic	21.23	SVOA	6,100 J
5.	---	Unknown_C18.H14_PNA	21.84	SVOA	6,700 J
6.	---	Unknown_PNA	21.96	SVOA	5,200 J
7.	---	Benzothiophene_Isomer	22.20	SVOA	5,600 J
8.	---	Unknown_C18.H10_PNA	22.30	SVOA	9,300 J
9.	---	Unknown_Aromatic	22.34	SVOA	4,800 J
10.	---	Unknown_PNA	22.93	SVOA	16,000 J
11.	---	Unknown_Quinoline	23.10	SVOA	5,800 J
12.	---	Unknown_C19.H14_PNA	23.51	SVOA	9,200 J
13.	---	Unknown_Aromatic	23.70	SVOA	9,000 J
14.	---	Unknown	23.79	SVOA	16,000 J
15.	---	Unknown_C20.H12_PNA	24.90	SVOA	12,000 J
16.	---	Unknown_C20.H12_PNA	25.20	SVOA	32,000 J
17.	---	Unknown_PNA	25.65	SVOA	7,900 J
18.	---	Unknown	26.10	SVOA	5,500 J
19.	---	Unknown_C22.H14_PNA	26.87	SVOA	7,200 J
20.	---	Unknown_C22.H14_PNA	27.65	SVOA	7,000 J

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T870I
LIMS ID: 97-17204
Matrix: Sediment
Data Release Authorized: MW
Reported: 10/30/97

Sample No: 9738 4082
WR-SD-SD031-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/20/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:5
Percent Moisture: 49.2%
pH: 6.8

CAS Number	Analyte	ug/kg
108-95-2	Phenol	98 U
111-44-4	Bis-(2-Chloroethyl) Ether	200 U
95-57-8	2-Chlorophenol	98 U
541-73-1	1,3-Dichlorobenzene	98 U
106-46-7	1,4-Dichlorobenzene	98 U
100-51-6	Benzyl Alcohol	98 U
95-50-1	1,2-Dichlorobenzene	98 U
95-48-7	2-Methylphenol	98 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	98 UJ
106-44-5	4-Methylphenol	98 U
621-64-7	N-Nitroso-Di-N-Propylamine	200 U
67-72-1	Hexachloroethane	98 U
98-95-3	Nitrobenzene	98 U
78-59-1	Isophorone	98 U
88-75-5	2-Nitrophenol	490 U
105-67-9	2,4-Dimethylphenol	98 U
65-85-0	Benzoic Acid	980 U
111-91-1	bis(2-Chloroethoxy) Methane	98 U
120-83-2	2,4-Dichlorophenol	290 U
120-82-1	1,2,4-Trichlorobenzene	98 U
91-20-3	**Naphthalene**	**200**
106-47-8	4-Chloroaniline	290 U
87-68-3	Hexachlorobutadiene	98 U
59-50-7	4-Chloro-3-methylphenol	200 U
91-57-6	2-Methylnaphthalene	98 U
77-47-4	Hexachlorocyclopentadiene	490 U
88-06-2	2,4,6-Trichlorophenol	490 U
95-95-4	2,4,5-Trichlorophenol	490 U
91-58-7	2-Chloronaphthalene	98 U
88-74-4	2-Nitroaniline	490 U
131-11-3	Dimethylphthalate	98 U
208-96-8	**Acenaphthylene**	**160**
99-09-2	3-Nitroaniline	590 U
83-32-9	**Acenaphthene**	**470**
51-28-5	2,4-Dinitrophenol	980 UJ
100-02-7	4-Nitrophenol	490 U
132-64-9	**Dibenzofuran**	**120**
606-20-2	2,6-Dinitrotoluene	490 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T870I
LIMS ID: 97-17204
Matrix: Sediment
Data Release Authorized: MW
Reported: 10/30/97

Sample No: 9738 4082
WR-SD-SD031-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/20/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:5
Percent Moisture: 49.2%
pH: 6.8

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	490 U
84-66-2	Diethylphthalate	98 U
7005-72-3	4-Chlorophenyl-phenylether	98 U
86-73-7	**Fluorene**	**350**
100-01-6	4-Nitroaniline	490 U
534-52-1	4,6-Dinitro-2-Methylphenol	980 U
86-30-6	N-Nitrosodiphenylamine	98 U
101-55-3	4-Bromophenyl-phenylether	98 U
118-74-1	Hexachlorobenzene	98 U
87-86-5	Pentachlorophenol	490 U
85-01-8	**Phenanthrene**	**2,800**
86-74-8	**Carbazole**	**390**
120-12-7	**Anthracene**	**630**
84-74-2	Di-n-Butylphthalate	98 U
206-44-0	**Fluoranthene**	**4,700**
129-00-0	**Pyrene**	**5,500**
85-68-7	Butylbenzylphthalate	98 U
91-94-1	3,3'-Dichlorobenzidine	490 U
56-55-3	**Benzo(a)anthracene**	**3,200**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**190** ~~B~~ UJ
218-01-9	**Chrysene**	**3,300**
117-84-0	Di-n-Octyl phthalate	98 U
205-99-2	**Benzo(b)fluoranthene**	**4,900**
207-08-9	**Benzo(k)fluoranthene**	**3,700**
50-32-8	**Benzo(a)pyrene**	**4,900**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**3,500**
53-70-3	**Dibenz(a,h)anthracene**	**1,000**
191-24-2	**Benzo(g,h,i)perylene**	**2,700**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	54.8%	d5-Phenol	46.3%
2-Fluorobiphenyl	58.2%	2-Fluorophenol	46.0%
d14-p-Terphenyl	68.8%	2,4,6-Tribromophenol	66.3%
d4-1,2-Dichlorobenzene	44.8%	d4-2-Chlorophenol	47.6%

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4082
WR-SD-SD031-0000

Lab Sample ID: T870I
LIMS ID: 97-17204
Matrix: Sediment

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Data Release Authorized: MW
Reported: 10/30/97

Date Analyzed: 10/20/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_PNA	25.65	SVOA	510 J N
2.	--	Unknown	25.75	SVOA	1,000 J N
3.	--	Unknown_Organic_Acid	25.98	SVOA	720 J N
4.	--	Unknown_PNA	29.32	SVOA	1,100 J N
5.	--	Unknown_PNA	29.52	SVOA	640 J N
6.	--	Benzo[b]naphtho[1,2-d_Iso	31.22	SVOA	820 J N
7.	--	Unknown_PNA_+_C.E.	31.35	SVOA	1,300 J N
8.	--	Unknown_PNA	32.35	SVOA	1,200 J N
9.	--	Unknown_Alkyl_PNA	33.30	SVOA	1,100 J N
10.	--	Unknown	33.65	SVOA	1,400 J N
11.	--	Unknown	33.72	SVOA	960 J N
12.	--	Unknown	33.82	SVOA	830 J N
13.	--	Unknown	35.33	SVOA	960 J N
14.	--	Unknown_PNA	35.47	SVOA	1,100 J N
15.	--	Unknown_PNA	35.93	SVOA	3,700 J N
16.	--	Unknown_PNA	36.28	SVOA	1,600 J N
17.	--	Unknown_PNA	39.03	SVOA	1,100 J N
18.	--	Unknown	39.65	SVOA	1,000 J N
19.	--	Unknown	39.82	SVOA	860 J N
20.	--	Unknown	40.25	SVOA	1,800 J N

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T870J
LIMS ID: 97-17205
Matrix: Sediment
Data Release Authorized: MW
Reported: 10/30/97

Sample No: 9738 4083
WR-SD-SD016-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/24/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 44.2%
pH: 6.8

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	40 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U J
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U J
106-44-5	**4-Methylphenol**	**29**
621-64-7	N-Nitroso-Di-N-Propylamine	40 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	99 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	60 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**28**
106-47-8	4-Chloroaniline	60 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	40 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	99 U J
88-06-2	2,4,6-Trichlorophenol	99 U
95-95-4	2,4,5-Trichlorophenol	99 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	99 U
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U J
83-32-9	Acenaphthene	20 U
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	99 U
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	99 U

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FORM-1

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T870J
LIMS ID: 97-17205
Matrix: Sediment
Data Release Authorized: MW
Reported: 10/30/97

Sample No: 9738 4083
WR-SD- SD016-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/24/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 44.2%
pH: 6.8

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	99 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	Fluorene	20 U
100-01-6	4-Nitroaniline	99 U J
534-52-1	4,6-Dinitro-2-Methylphenol	200 U J
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	99 U J
85-01-8	**Phenanthrene**	**110**
86-74-8	**Carbazole**	**37 J**
120-12-7	**Anthracene**	**26**
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**240**
129-00-0	**Pyrene**	**230**
85-68-7	**Butylbenzylphthalate**	**31**
91-94-1	3,3'-Dichlorobenzidine	99 U
56-55-3	**Benzo(a)anthracene**	**130**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**130 ~~B~~ UJ**
218-01-9	**Chrysene**	**180**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**170**
207-08-9	**Benzo(k)fluoranthene**	**160**
50-32-8	**Benzo(a)pyrene**	**200**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**120**
53-70-3	**Dibenz(a,h)anthracene**	**44**
191-24-2	**Benzo(g,h,i)perylene**	**130**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	49.9%	d5-Phenol	45.4%
2-Fluorobiphenyl	50.8%	2-Fluorophenol	53.3%
d14-p-Terphenyl	68.7%	2,4,6-Tribromophenol	74.0%
d4-1,2-Dichlorobenzene	42.2%	d4-2-Chlorophenol	47.1%

FORM-1

JMB 12/15/97

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4083
WR-SD-SD016-0000

Lab Sample ID: T870J
LIMS ID: 97-17205
Matrix: Sediment

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Data Release Authorized: MW
Reported: 10/30/97

Date Analyzed: 10/24/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	79-34-5	Ethane,_1,1,2,2-tetrachlo	6.71	SVOA	180 ~~JNB~~ R
2.	--	Unknown_Alcohol_____	13.95	SVOA	340 J N
3.	--	Unknown_Organic_Acid_____	16.63	SVOA	120 J N
4.	--	Unknown_____	18.24	SVOA	220 J N
5.	--	Unknown_Organic_Acid_____	18.39	SVOA	180 J N
6.	--	Unknown_PNA_____	19.24	SVOA	200 J N
7.	--	Unknown_Aromatic_____	19.67	SVOA	200 J N
8.	--	Unknown_Aromatic_____	20.62	SVOA	560 J N
9.	--	Unknown_____	23.51	SVOA	130 J N
10.	--	Unknown_Aldehyde_____	25.44	SVOA	180 J N
11.	--	Unknown_____	26.05	SVOA	240 J N
12.	--	Unknown_____	26.19	SVOA	190 J N
13.	--	Unknown_Aromatic_____	26.37	SVOA	170 J N
14.	--	Unknown_Sterol_type_____	26.47	SVOA	180 J N
15.	--	Unknown_Sterol_type_____	26.92	SVOA	130 J N
16.	--	Unknown_Aromatic_____	27.48	SVOA	890 J N
17.	--	Unknown_____	27.67	SVOA	240 J N
18.	--	Unknown_Aromatic_____	27.78	SVOA	790 J N
19.	--	Unknown_____	28.02	SVOA	140 J N
20.	--	Unknown_Sterol_type_____	28.23	SVOA	220 J N

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T870K
LIMS ID: 97-17206
Matrix: Sediment
Data Release Authorized:
Reported: 10/30/97

Sample No: 9738 4084
WR-SD-SD027-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/21/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 52.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 44.7%
pH: 6.7

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	4-Methylphenol	19 U
621-64-7	N-Nitroso-Di-N-Propylamine	38 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	95 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	57 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	Naphthalene	19 U
106-47-8	4-Chloroaniline	57 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	95 U
88-06-2	2,4,6-Trichlorophenol	95 U
95-95-4	2,4,5-Trichlorophenol	95 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	95 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	110 U
83-32-9	**Acenaphthene**	**36**
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	95 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	95 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T870K
LIMS ID: 97-17206
Matrix: Sediment
Data Release Authorized: MW
Reported: 10/30/97

Sample No: 9738 4084
WR-SD-SD027-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/21/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 52.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 44.7%
pH: 6.7

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	95 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**27**
100-01-6	4-Nitroaniline	95 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	95 U
85-01-8	**Phenanthrene**	**300**
86-74-8	**Carbazole**	**58**
120-12-7	**Anthracene**	**50**
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**520**
129-00-0	**Pyrene**	**630**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	95 U
56-55-3	**Benzo(a)anthracene**	**380**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**120** BWJ
218-01-9	**Chrysene**	**420**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**680**
207-08-9	**Benzo(k)fluoranthene**	**460**
50-32-8	**Benzo(a)pyrene**	**650**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**420**
53-70-3	**Dibenz(a,h)anthracene**	**120**
191-24-2	**Benzo(g,h,i)perylene**	**330**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	46.4%	d5-Phenol	46.7%
2-Fluorobiphenyl	51.0%	2-Fluorophenol	40.7%
d14-p-Terphenyl	64.2%	2,4,6-Tribromophenol	65.2%
d4-1,2-Dichlorobenzene	38.3%	d4-2-Chlorophenol	45.9%

FORM-1

JMB 12/15/97

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4084
WR-SD-SD027-0000

Lab Sample ID: T870K
LIMS ID: 97-17206
Matrix: Sediment

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Data Release Authorized: MW
Reported: 10/30/97

Date Analyzed: 10/21/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	79-34-5	Ethane,_1,1,2,2-tetrachlo	7.53	SVOA	320 ~~JNB~~ JN
2.	--	Unknown_Organic_Acid_____	24.22	SVOA	150 JN
3.	--	Unknown_Organic_Acid_____	24.35	SVOA	180 JN
4.	--	Unknown_____	25.83	SVOA	760 JN
5.	--	Unknown_____	25.93	SVOA	280 JN
6.	544-63-8	Tetradecanoic_acid_____	26.08	SVOA	610 JN
7.	57-11-4	Octadecanoic_acid_____	28.47	SVOA	130 JN
8.	--	Unknown_____	29.35	SVOA	260 JN
9.	--	Unknown_PNA_+_C.E._____	31.38	SVOA	440 JN
10.	--	Unknown_____	33.45	SVOA	440 JN
11.	--	Unknown_____	33.68	SVOA	510 JN
12.	--	Unknown_____	34.98	SVOA	390 JN
13.	--	Unknown_____	35.38	SVOA	1,100 JN
14.	--	Unknown_PNA_____	35.97	SVOA	500 JN
15.	--	Unknown_Aldehyde_____	37.17	SVOA	680 JN
16.	--	Unknown_____	38.45	SVOA	340 JN
17.	--	Unknown_____	39.70	SVOA	720 JN
18.	471-68-1	Olean-12-ene_____	39.87	SVOA	770 JN
19.	--	Unknown_____	40.17	SVOA	440 JN
20.	--	Unknown_____	40.30	SVOA	1,300 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T870L
LIMS ID: 97-17207
Matrix: Sediment
Data Release Authorized:
Reported: 10/30/97

Sample No: 9738 4085
WR-SD-SD025-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/17/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 52.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 44.6%
pH: 6.8

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U
106-44-5	**4-Methylphenol**	**20**
621-64-7	N-Nitroso-Di-N-Propylamine	38 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	95 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	57 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**22**
106-47-8	4-Chloroaniline	57 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	95 U
88-06-2	2,4,6-Trichlorophenol	95 U
95-95-4	2,4,5-Trichlorophenol	95 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	95 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	110 U
83-32-9	**Acenaphthene**	**25**
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	95 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	95 U

FORM-1

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~~000929~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T870L
LIMS ID: 97-17207
Matrix: Sediment
Data Release Authorized:
Reported: 10/30/97

Sample No: 9738 4085
WR-SD-SD025-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/17/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 52.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 44.6%
pH: 6.8

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	95 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**22**
100-01-6	4-Nitroaniline	95 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	95 U
85-01-8	**Phenanthrene**	**160**
86-74-8	**Carbazole**	**25**
120-12-7	**Anthracene**	**30**
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**280**
129-00-0	**Pyrene**	**300**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	95 U
56-55-3	**Benzo(a)anthracene**	**170**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**120** ~~B~~ UJ
218-01-9	**Chrysene**	**240**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**250**
207-08-9	**Benzo(k)fluoranthene**	**230**
50-32-8	**Benzo(a)pyrene**	**260**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**160**
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	**Benzo(g,h,i)perylene**	**96**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	62.4%	d5-Phenol	55.3%
2-Fluorobiphenyl	63.4%	2-Fluorophenol	51.5%
d14-p-Terphenyl	73.6%	2,4,6-Tribromophenol	97.3%
d4-1,2-Dichlorobenzene	56.5%	d4-2-Chlorophenol	55.8%

FORM-1

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~~000930~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4085
WR-SD-SD025-0000

Lab Sample ID: T870L
LIMS ID: 97-17207
Matrix: Sediment

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Data Release Authorized: MW
Reported: 10/30/97

Date Analyzed: 10/17/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	79-34-5	Ethane, 1,1,2,2-tetrachlo	7.28	SVOA	440 ~~JNB~~ JN
2.	544-63-8	Tetradecanoic acid	23.10	SVOA	140 JN
3.	--	Unknown Organic Acid	23.98	SVOA	220 JN
4.	638-53-9	Tridecanoic acid	24.12	SVOA	210 JN
5.	2091-29-4	9-Hexadecenoic acid	25.60	SVOA	860 JN
6.	--	Unknown	25.70	SVOA	300 JN
7.	57-10-3	Hexadecanoic acid	25.85	SVOA	650 JN
8.	--	Unknown	26.22	SVOA	190 JN
9.	--	Unknown	27.98	SVOA	150 JN
10.	57-11-4	Octadecanoic acid	28.23	SVOA	130 JN
11.	--	Unknown Alkyl PNA	29.08	SVOA	360 JN
12.	--	Unknown Aldehyde	33.20	SVOA	240 JN
13.	--	Unknown	33.40	SVOA	440 JN
14.	--	Unknown	33.62	SVOA	400 JN
15.	--	Unknown	35.08	SVOA	350 JN
16.	--	Unknown Aldehyde	35.13	SVOA	820 JN
17.	--	Unknown Aldehyde	36.92	SVOA	520 JN
18.	--	Unknown	39.40	SVOA	620 JN
19.	471-68-1	Olean-12-ene	39.55	SVOA	680 JN
20.	--	Unknown	39.85	SVOA	240 JN

FORM-1-B

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~~000931~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T870M
LIMS ID: 97-17208
Matrix: Sediment
Data Release Authorized:
Reported: 10/30/97

Sample No: 9738 4086
WR-SD-SD021-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/17/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 49.4%
pH: 6.5

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 UJ
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U
106-44-5	4-Methylphenol	20 U
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	99 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**21**
106-47-8	4-Chloroaniline	59 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	99 UJ
88-06-2	2,4,6-Trichlorophenol	99 U
95-95-4	2,4,5-Trichlorophenol	99 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	99 U
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**31**
51-28-5	2,4-Dinitrophenol	200 UJ
100-02-7	4-Nitrophenol	99 U
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	99 U

FORM-1

~~000984~~
JMB 12/15/9

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T870M
LIMS ID: 97-17208
Matrix: Sediment
Data Release Authorized: WW
Reported: 10/30/97

Sample No: 9738 4086
WR-SD-SD021-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/17/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 49.4%
pH: 6.5

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	99 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	**Fluorene**	**22**
100-01-6	4-Nitroaniline	99 U J
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	99 U J
85-01-8	**Phenanthrene**	**180**
86-74-8	**Carbazole**	**42**
120-12-7	**Anthracene**	**31**
84-74-2	Di-n-Butylphthalate	20 U J
206-44-0	**Fluoranthene**	**390**
129-00-0	**Pyrene**	**310**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	99 U
56-55-3	**Benzo(a)anthracene**	**180**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**130** ~~J~~ UJ
218-01-9	**Chrysene**	**240**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**250**
207-08-9	**Benzo(k)fluoranthene**	**220**
50-32-8	**Benzo(a)pyrene**	**260**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**140**
53-70-3	**Dibenz(a,h)anthracene**	**63**
191-24-2	**Benzo(g,h,i)perylene**	**130**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	56.1%	d5-Phenol	61.6%
2-Fluorobiphenyl	61.0%	2-Fluorophenol	59.5%
d14-p-Terphenyl	64.2%	2,4,6-Tribromophenol	77.0%
d4-1,2-Dichlorobenzene	44.6%	d4-2-Chlorophenol	59.4%

FORM-1

~~000985~~
JMB 12/15/97

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4086
WR-SD-SD021-0000

Lab Sample ID: T870M
LIMS ID: 97-17208
Matrix: Sediment

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Data Release Authorized: MW
Reported: 10/30/97

Date Analyzed: 10/17/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	79-34-5	Ethane,_1,1,2,2-tetrachlo	6.54	SVOA	260 ~~JNB~~ R
2.	--	Unknown_____	18.54	SVOA	270 JN
3.	--	Unknown_Aromatic_____	19.43	SVOA	220 JN
4.	--	Unknown_Aromatic_____	20.38	SVOA	350 JN
5.	--	Unknown_Aldehyde_____	22.84	SVOA	190 JN
6.	--	Unknown_Aromatic_____	23.14	SVOA	240 JN
7.	--	Unknown_____	23.28	SVOA	280 JN
8.	--	Unknown_Aldehyde_____	24.06	SVOA	920 JN
9.	--	Unknown_Sterol_type_____	24.45	SVOA	300 JN
10.	--	Unknown_C20.H12_PNA_____	24.65	SVOA	170 JN
11.	--	Unknown_Aldehyde_____	25.19	SVOA	490 JN
12.	--	Unknown_Aromatic_____	25.32	SVOA	220 JN
13.	--	Unknown_Sterol_type_____	25.69	SVOA	160 JN
14.	--	Unknown_____	25.81	SVOA	470 JN
15.	--	Unknown_Aldehyde_____	26.25	SVOA	290 JN
16.	--	Unknown_Aromatic_____	27.33	SVOA	620 JN
17.	--	Unknown_____	27.51	SVOA	340 JN
18.	--	Unknown_Sterol_type_____	27.64	SVOA	630 JN
19.	--	Unknown_____	28.00	SVOA	140 JN
20.	--	Unknown_Sterol_type_____	28.11	SVOA	240 JN

FORM-1-B

~~000986~~ JMB 12/15/97

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T870N
LIMS ID: 97-17209
Matrix: Sediment
Data Release Authorized: MW
Reported: 10/30/97

Sample No: 9738 4088
WR-SD-SD021-1000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/17/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 46.7%
pH: 6.7

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 UJ
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U
106-44-5	4-Methylphenol	20 U
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	99 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**23**
106-47-8	4-Chloroaniline	59 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	99 UJ
88-06-2	2,4,6-Trichlorophenol	99 U
95-95-4	2,4,5-Trichlorophenol	99 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	99 U
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**29**
51-28-5	2,4-Dinitrophenol	200 UJ
100-02-7	4-Nitrophenol	99 U
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	99 U

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FORM-1

~~001032~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T870N
LIMS ID: 97-17209
Matrix: Sediment
Data Release Authorized: MM
Reported: 10/30/97

Sample No: 9738 4088
WR-SD-SD021-1000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/17/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 46.7%
pH: 6.7

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	99 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	**Fluorene**	**22**
100-01-6	4-Nitroaniline	99 UJ
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	99 UJ
85-01-8	**Phenanthrene**	**150**
86-74-8	**Carbazole**	**36**
120-12-7	**Anthracene**	**29**
84-74-2	Di-n-Butylphthalate	20 UJ
206-44-0	**Fluoranthene**	**340**
129-00-0	**Pyrene**	**280**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	99 U
56-55-3	**Benzo(a)anthracene**	**170**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**150** ~~J~~UJ
218-01-9	**Chrysene**	**230**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**230**
207-08-9	**Benzo(k)fluoranthene**	**240**
50-32-8	**Benzo(a)pyrene**	**240**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**140**
53-70-3	**Dibenz(a,h)anthracene**	**60**
191-24-2	**Benzo(g,h,i)perylene**	**100**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	55.9%	d5-Phenol	58.1%
2-Fluorobiphenyl	59.3%	2-Fluorophenol	56.7%
d14-p-Terphenyl	70.2%	2,4,6-Tribromophenol	79.5%
d4-1,2-Dichlorobenzene	47.0%	d4-2-Chlorophenol	56.9%

FORM-1

~~001033~~
JMB 12/15/97

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4088
WR-SD-SD021-1000

Lab Sample ID: T870N
LIMS ID: 97-17209
Matrix: Sediment

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Data Release Authorized: MW
Reported: 10/30/97

Date Analyzed: 10/17/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	79-34-5	Ethane,_1,1,2,2-tetrachlo	6.55	SVOA	240 ~~JNB~~ R
2.	--	Unknown_Organic_Acid_____	17.99	SVOA	140 JN
3.	--	Unknown_Organic_Acid_____	18.13	SVOA	150 JN
4.	--	Unknown_Aromatic_____	19.43	SVOA	170 JN
5.	--	Unknown_Aromatic_____	20.38	SVOA	240 JN
6.	--	Unknown_Aldehyde_____	22.85	SVOA	180 JN
7.	--	Unknown_Aromatic_____	23.14	SVOA	210 JN
8.	--	Unknown_Aldehyde_____	24.06	SVOA	710 JN
9.	--	Unknown_C20.H12_PNA_____	24.65	SVOA	140 JN
10.	--	Unknown_Aldehyde_____	25.19	SVOA	400 JN
11.	--	Unknown_____	25.31	SVOA	150 JN
12.	--	Unknown_Aromatic_____	25.69	SVOA	120 JN
13.	--	Unknown_Sterol_type_____	25.96	SVOA	300 JN
14.	--	Unknown_Aromatic_____	26.16	SVOA	130 JN
15.	--	Unknown_Sterol_type_____	26.25	SVOA	210 JN
16.	--	Unknown_Aromatic_____	27.33	SVOA	540 JN
17.	--	Unknown_____	27.51	SVOA	280 JN
18.	--	Unknown_Sterol_type_____	27.64	SVOA	570 JN
19.	--	Unknown_____	28.00	SVOA	110 JN
20.	--	Unknown_Sterol_type_____	28.11	SVOA	240 JN

FORM-1-B

~~001034~~

JMB
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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T8700
LIMS ID: 97-17210
Matrix: Sediment
Data Release Authorized: MW
Reported: 10/30/97

Sample No: 9738 4089
WR-SD-SD029-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/24/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 49.2%
pH: 6.8

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U J
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U J
106-44-5	**4-Methylphenol**	**20**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	98 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**74**
106-47-8	4-Chloroaniline	59 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	**2-Methylnaphthalene**	**37**
77-47-4	Hexachlorocyclopentadiene	98 U J
88-06-2	2,4,6-Trichlorophenol	98 U
95-95-4	2,4,5-Trichlorophenol	98 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	98 U
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U J
83-32-9	**Acenaphthene**	**88**
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	98 U
132-64-9	**Dibenzofuran**	**37**
606-20-2	2,6-Dinitrotoluene	98 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T8700
LIMS ID: 97-17210
Matrix: Sediment
Data Release Authorized: MW
Reported: 10/30/97

Sample No: 9738 4089
WR-SD-SD029-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/24/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 49.2%
pH: 6.8

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	98 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	**Fluorene**	**67**
100-01-6	4-Nitroaniline	98 UJ
534-52-1	4,6-Dinitro-2-Methylphenol	200 UJ
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	98 UJ
85-01-8	**Phenanthrene**	**490**
86-74-8	**Carbazole**	**190** J
120-12-7	**Anthracene**	**97**
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**1,200**
129-00-0	**Pyrene**	**1,200**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	98 U
56-55-3	**Benzo(a)anthracene**	**620**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**91** ~~J~~ UJ
218-01-9	**Chrysene**	**790**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**1,000**
207-08-9	**Benzo(k)fluoranthene**	**500**
50-32-8	**Benzo(a)pyrene**	**810**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**470**
53-70-3	**Dibenz(a,h)anthracene**	**210**
191-24-2	**Benzo(g,h,i)perylene**	**470**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	26.6%	d5-Phenol	26.2%
2-Fluorobiphenyl	30.7%	2-Fluorophenol	30.6%
d14-p-Terphenyl	48.2%	2,4,6-Tribromophenol	48.0%
d4-1,2-Dichlorobenzene	22.7%	d4-2-Chlorophenol	26.2%

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~~001082~~

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4089
WR-SD-SD029-0000

Lab Sample ID: T8700
LIMS ID: 97-17210
Matrix: Sediment

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Data Release Authorized: MW
Reported: 10/30/97

Date Analyzed: 10/24/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown	18.07	SVOA	400 J N
2.	--	Unknown	18.34	SVOA	740 J N
3.	--	Unknown	18.43	SVOA	1,300 J N
4.	--	Unknown	18.67	SVOA	260 J N
5.	--	Unknown	19.00	SVOA	490 J N
6.	--	Unknown_Aromatic	19.38	SVOA	3,900 J N
7.	--	Unknown_Aromatic	19.70	SVOA	680 J N
8.	--	Unknown	19.88	SVOA	1,700 J N
9.	--	Unknown_Aromatic	20.70	SVOA	3,600 J N
10.	--	Unknown_PNA	20.81	SVOA	360 J N
11.	--	Unknown_PNA	23.22	SVOA	320 J N
12.	--	Unknown_Sterol_type	24.69	SVOA	300 J N
13.	--	Unknown_C20.H12_PNA	24.91	SVOA	350 J N
14.	--	Unknown_Sterol_type	25.93	SVOA	280 J N
15.	--	Unknown	26.38	SVOA	280 J N
16.	--	Unknown	27.39	SVOA	630 J N
17.	--	Unknown_Aromatic	27.49	SVOA	690 J N
18.	--	Unknown	27.67	SVOA	270 J N
19.	--	Unknown_Sterol_type	27.78	SVOA	430 J N
20.	--	Unknown_Sterol_type	28.24	SVOA	300 J N

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FORM-1-B

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T870P
LIMS ID: 97-17211
Matrix: Sediment
Data Release Authorized: MW
Reported: 10/30/97

Sample No: 9738 4090
WR-SD-SD002-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/25/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 22.2%
pH: 7.1

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U J
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U J
106-44-5	4-Methylphenol	20 U
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	98 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	Naphthalene	20 U
106-47-8	4-Chloroaniline	59 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	98 U J
88-06-2	2,4,6-Trichlorophenol	98 U
95-95-4	2,4,5-Trichlorophenol	98 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	98 U
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U J
83-32-9	Acenaphthene	20 U
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	98 U
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	98 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T870P
LIMS ID: 97-17211
Matrix: Sediment
Data Release Authorized: MW
Reported: 10/30/97

Sample No: 9738 4090
WR-SD-SD002-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/25/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 22.2%
pH: 7.1

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	98 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	Fluorene	20 U
100-01-6	4-Nitroaniline	98 UJ
534-52-1	4,6-Dinitro-2-Methylphenol	200 UJ
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	98 UJ
85-01-8	Phenanthrene	20 U
86-74-8	Carbazole	20 UJ
120-12-7	Anthracene	20 U
84-74-2	Di-n-Butylphthalate	20 UJ
206-44-0	**Fluoranthene**	**22**
129-00-0	**Pyrene**	**40**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	98 U
56-55-3	Benzo(a)anthracene	20 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**35 ~~B~~UJ**
218-01-9	Chrysene	20 U
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	Benzo(b)fluoranthene	20 U
207-08-9	Benzo(k)fluoranthene	20 U
50-32-8	Benzo(a)pyrene	20 U
193-39-5	Indeno(1,2,3-cd)pyrene	20 U
53-70-3	Dibenz(a,h)anthracene	20 U
191-24-2	Benzo(g,h,i)perylene	20 U

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	54.0%	d5-Phenol	24.4%
2-Fluorobiphenyl	44.8%	2-Fluorophenol	22.8%
d14-p-Terphenyl	76.1%	2,4,6-Tribromophenol	42.2%
d4-1,2-Dichlorobenzene	42.8%	d4-2-Chlorophenol	31.8%

FORM-1

JMB 12/15/97

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4090
WR-SD-SD002-0000

Lab Sample ID: T870P
LIMS ID: 97-17211
Matrix: Sediment

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Data Release Authorized: MW
Reported: 10/30/97

Date Analyzed: 10/25/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	79-34-5	Ethane,_1,1,2,2-tetrachlo	6.70	SVOA	260 ~~JNB~~ R
2.	--	Unknown_Cycloalkane_____	14.01	SVOA	210 JN
3.	--	Unknown_____	15.98	SVOA	93 JN
4.	--	Unknown_Hydrocarbon_____	20.12	SVOA	46 JN
5.	--	Unknown_Aldehyde_____	21.77	SVOA	44 JN
6.	--	Unknown_Hydrocarbon_____	22.19	SVOA	87 JN
7.	--	Unknown_Hydrocarbon_____	22.82	SVOA	57 JN
8.	--	Unknown_Hydrocarbon_____	23.44	SVOA	190 JN
9.	--	Unknown_Hydrocarbon_____	24.60	SVOA	230 JN
10.	--	Unknown_____	25.20	SVOA	120 JN
11.	--	Unknown_____	25.42	SVOA	410 JN
12.	--	Unknown_Hydrocarbon_____	25.68	SVOA	120 JN
13.	--	Unknown_____	27.36	SVOA	71 JN
14.	--	Unknown_____	27.74	SVOA	86 JN
15.	--	Unknown_Sterol_type_____	28.18	SVOA	180 JN
16.					
17.					
18.					
19.					
20.					

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FORM-1-B

~~001135~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T870Q
LIMS ID: 97-17212
Matrix: Sediment
Data Release Authorized: WW
Reported: 10/30/97

Sample No: 9738 4091
WR-SD-SD004-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/25/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 53.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 23.8%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	37 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	4-Methylphenol	19 U
621-64-7	N-Nitroso-Di-N-Propylamine	37 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	94 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	56 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	Naphthalene	19 U
106-47-8	4-Chloroaniline	56 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	37 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	94 U J
88-06-2	2,4,6-Trichlorophenol	94 U
95-95-4	2,4,5-Trichlorophenol	94 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	94 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	110 U J
83-32-9	Acenaphthene	19 U
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	94 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	94 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T870Q
LIMS ID: 97-17212
Matrix: Sediment
Data Release Authorized: WW
Reported: 10/30/97

Sample No: 9738 4091
WR-SD-SD004-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/25/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 53.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 23.8%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	94 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	Fluorene	19 U
100-01-6	4-Nitroaniline	94 U J
534-52-1	4,6-Dinitro-2-Methylphenol	190 U J
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	94 U J
85-01-8	**Phenanthrene**	**190**
86-74-8	**Carbazole**	**33 J**
120-12-7	**Anthracene**	**24**
84-74-2	Di-n-Butylphthalate	19 U J
206-44-0	**Fluoranthene**	**340**
129-00-0	**Pyrene**	**320**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	94 U
56-55-3	**Benzo(a)anthracene**	**77**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**46 ~~B~~ U J**
218-01-9	**Chrysene**	**130**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**96**
207-08-9	**Benzo(k)fluoranthene**	**77**
50-32-8	**Benzo(a)pyrene**	**100**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**54**
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	**Benzo(g,h,i)perylene**	**60**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	54.8%	d5-Phenol	47.9%
2-Fluorobiphenyl	52.0%	2-Fluorophenol	55.5%
d14-p-Terphenyl	71.9%	2,4,6-Tribromophenol	72.9%
d4-1,2-Dichlorobenzene	44.5%	d4-2-Chlorophenol	48.4%

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FORM-1

~~001163~~

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4091
WR-SD-SD004-0000

Lab Sample ID: T870Q
LIMS ID: 97-17212
Matrix: Sediment

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Data Release Authorized: MW
Reported: 10/30/97

Date Analyzed: 10/25/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	79-34-5	Ethane,_1,1,2,2-tetrachlo	6.71	SVOA	180 ~~JNB~~ R
2.	--	Unknown_Alcohol_____	14.01	SVOA	110 JN
3.	--	Unknown_____	15.98	SVOA	130 JN
4.	--	Unknown_Cycloalkane_____	18.08	SVOA	42 JN
5.	--	Unknown_PNA_____	18.35	SVOA	78 JN
6.	--	Unknown_Aromatic_____	18.75	SVOA	51 JN
7.	--	Unknown_PNA_____	19.23	SVOA	44 JN
8.	--	Unknown_____	19.67	SVOA	53 JN
9.	--	Unknown_____	19.78	SVOA	77 JN
10.	--	Unknown_Aromatic_____	20.59	SVOA	98 JN
11.	--	Unknown_Aldehyde_____	23.09	SVOA	65 JN
12.	--	Unknown_Aldehyde_____	24.30	SVOA	240 JN
13.	--	Unknown_Aldehyde_____	25.43	SVOA	120 JN
14.	--	Unknown_Hydrocarbon_____	25.69	SVOA	310 JN
15.	--	Unknown_Sterol_type_____	25.89	SVOA	130 JN
16.	--	Unknown_Sterol_type_____	26.18	SVOA	110 JN
17.	--	Unknown_____	27.37	SVOA	69 JN
18.	--	Unknown_Aromatic_____	27.46	SVOA	190 JN
19.	--	Unknown_Sterol_type_____	27.75	SVOA	280 JN
20.	--	Unknown_Sterol_type_____	28.20	SVOA	210 JN

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FORM-1-B

~~001164~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T870R
LIMS ID: 97-17213
Matrix: Sediment
Data Release Authorized:
Reported: 10/30/97

Sample No: 9738 4093
WR-SD-SD006-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/16/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 47.1%
pH: 7.2

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	40 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U J
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U
106-44-5	4-Methylphenol	20 U
621-64-7	N-Nitroso-Di-N-Propylamine	40 U J
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	99 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	60 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**29**
106-47-8	4-Chloroaniline	60 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	40 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	99 U J
88-06-2	2,4,6-Trichlorophenol	99 U
95-95-4	2,4,5-Trichlorophenol	99 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	99 U
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**21**
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	99 U
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	99 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T870R
LIMS ID: 97-17213
Matrix: Sediment
Data Release Authorized: MW
Reported: 10/30/97

Sample No: 9738 4093
WR-SD-SD006-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/16/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 47.1%
pH: 7.2

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	99 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	**Fluorene**	**22**
100-01-6	4-Nitroaniline	99 U
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	99 U J
85-01-8	**Phenanthrene**	**120**
86-74-8	**Carbazole**	**31 J**
120-12-7	**Anthracene**	**31**
84-74-2	Di-n-Butylphthalate	20 U J
206-44-0	**Fluoranthene**	**200**
129-00-0	**Pyrene**	**170**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	99 U
56-55-3	**Benzo(a)anthracene**	**86**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**320 ~~J~~**
218-01-9	**Chrysene**	**120**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**120**
207-08-9	**Benzo(k)fluoranthene**	**94**
50-32-8	**Benzo(a)pyrene**	**110**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**71**
53-70-3	**Dibenz(a,h)anthracene**	**27**
191-24-2	**Benzo(g,h,i)perylene**	**59 J**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	48.9%	d5-Phenol	50.0%
2-Fluorobiphenyl	55.8%	2-Fluorophenol	49.1%
d14-p-Terphenyl	66.7%	2,4,6-Tribromophenol	74.0%
d4-1,2-Dichlorobenzene	39.3%	d4-2-Chlorophenol	49.8%

FORM-1

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ANALYTICAL
RESOURCES
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ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4093
WR-SD-SD006-0000

Lab Sample ID: T870R
LIMS ID: 97-17213
Matrix: Sediment

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Data Release Authorized: MW
Reported: 10/30/97

Date Analyzed: 10/16/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	79-34-5	Ethane,_1,1,2,2-tetrachlo	6.58	SVOA	260 ~~JNB~~ R
2.	--	Unknown	17.45	SVOA	320 JN
3.	--	Unknown	18.57	SVOA	150 JN
4.	--	Unknown	19.03	SVOA	120 JN
5.	--	Unknown_Aromatic	19.42	SVOA	260 JN
6.	--	Unknown_Aromatic	20.42	SVOA	470 JN
7.	--	Unknown_Aldehyde	22.89	SVOA	290 JN
8.	--	Unknown	23.33	SVOA	290 JN
9.	--	Unknown_Alcohol	24.50	SVOA	390 JN
10.	--	Unknown_Aldehyde	25.23	SVOA	790 JN
11.	--	Unknown_Sterol_type	26.02	SVOA	690 JN
12.	--	Unknown_Sterol_type	26.20	SVOA	280 JN
13.	--	Unknown_Sterol_type	26.30	SVOA	510 JN
14.	--	Unknown_Sterol_type	26.79	SVOA	280 JN
15.	--	Unknown	27.30	SVOA	760 JN
16.	--	Unknown_Aromatic	27.38	SVOA	740 JN
17.	--	Unknown	27.58	SVOA	270 JN
18.	--	Unknown	27.71	SVOA	980 JN
19.	--	Unknown_Aromatic	28.07	SVOA	250 JN
20.	--	Unknown_Sterol_type	28.18	SVOA	490 JN

FORM-1-B

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~~001208~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T870S
LIMS ID: 97-17214
Matrix: Sediment
Data Release Authorized: WW
Reported: 10/30/97

Sample No: 9738 4094
WR-SD-SD007-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/25/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 45.1%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	4-Methylphenol	19 U
621-64-7	N-Nitroso-Di-N-Propylamine	38 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	96 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	57 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	Naphthalene	19 U
106-47-8	4-Chloroaniline	57 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	96 U J
88-06-2	2,4,6-Trichlorophenol	96 U
95-95-4	2,4,5-Trichlorophenol	96 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	96 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	110 U J
83-32-9	**Acenaphthene**	**21**
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	96 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	96 U

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~~001254~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T870S
LIMS ID: 97-17214
Matrix: *Sediment*
Data Release Authorized: MW
Reported: 10/30/97

Sample No: 9738 4094
WR-SD-SD007-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/25/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 45.1%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	96 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**26**
100-01-6	4-Nitroaniline	96 U J
534-52-1	4,6-Dinitro-2-Methylphenol	190 U J
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	96 U J
85-01-8	**Phenanthrene**	**100**
86-74-8	Carbazole	19 U J
120-12-7	Anthracene	19 U
84-74-2	Di-n-Butylphthalate	19 U J
206-44-0	**Fluoranthene**	**160**
129-00-0	**Pyrene**	**120**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	96 U
56-55-3	**Benzo(a)anthracene**	**53**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**110** ~~J~~ U J
218-01-9	**Chrysene**	**72**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**60**
207-08-9	**Benzo(k)fluoranthene**	**61**
50-32-8	**Benzo(a)pyrene**	**59**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**35**
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	**Benzo(g,h,i)perylene**	**37**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	36.1%	d5-Phenol	30.2%
2-Fluorobiphenyl	36.0%	2-Fluorophenol	36.3%
d14-p-Terphenyl	50.2%	2,4,6-Tribromophenol	52.0%
d4-1,2-Dichlorobenzene	26.4%	d4-2-Chlorophenol	31.7%

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~~001255~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4094
WR-SD-SD007-0000

Lab Sample ID: T870S
LIMS ID: 97-17214
Matrix: Sediment

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Data Release Authorized: MW
Reported: 10/30/97

Date Analyzed: 10/25/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	79-34-5	Ethane,_1,1,2,2-tetrachlo	6.71	SVOA	220 ~~JNB~~ R
2.	--	Unknown_Organic_Acid_____	16.62	SVOA	64 J N
3.	--	Unknown_____	18.11	SVOA	83 J N
4.	--	Unknown_Organic_Acid_____	18.22	SVOA	150 J N
5.	--	Unknown_Organic_Acid_____	18.38	SVOA	140 J N
6.	--	Unknown_____	19.03	SVOA	59 J N
7.	--	Unknown_____	19.67	SVOA	120 J N
8.	--	Unknown_Aromatic_____	20.61	SVOA	340 J N
9.	--	Unknown_Aldehyde_____	23.09	SVOA	210 J N
10.	--	Unknown_Aromatic_____	23.36	SVOA	250 J N
11.	--	Unknown_____	23.51	SVOA	180 J N
12.	--	Unknown_Aldehyde_____	24.32	SVOA	690 J N
13.	--	Unknown_Aldehyde_____	25.43	SVOA	260 J N
14.	--	Unknown_Aromatic_____	26.19	SVOA	230 J N
15.	--	Unknown_Sterol_type_____	26.93	SVOA	260 J N
16.	--	Unknown_____	27.48	SVOA	1,000 J N
17.	--	Unknown_____	27.67	SVOA	460 J N
18.	--	Unknown_____	27.77	SVOA	1,000 J N
19.	--	Unknown_____	28.11	SVOA	310 J N
20.	--	Unknown_Sterol_type_____	28.22	SVOA	400 J N

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FORM-1-B

~~001256~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T870T
LIMS ID: 97-17215
Matrix: Sediment
Data Release Authorized: MW
Reported: 10/30/97

Sample No: 9738 4095
WR-SD-SD008-0006
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/16/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 45.2%
pH: 6.7

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 UJ
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U
106-44-5	4-Methylphenol	19 U
621-64-7	N-Nitroso-Di-N-Propylamine	38 UJ
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	96 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**39**
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	**2-Methylnaphthalene**	**30**
77-47-4	Hexachlorocyclopentadiene	96 UJ
88-06-2	2,4,6-Trichlorophenol	96 U
95-95-4	2,4,5-Trichlorophenol	96 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	96 U
131-11-3	Dimethylphthalate	19 U
208-96-8	**Acenaphthylene**	**23**
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**97**
51-28-5	2,4-Dinitrophenol	190 UJ
100-02-7	4-Nitrophenol	96 U
132-64-9	**Dibenzofuran**	**48**
606-20-2	2,6-Dinitrotoluene	96 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T870T
LIMS ID: 97-17215
Matrix: Sediment
Data Release Authorized: WW
Reported: 10/30/97

Sample No: 9738 4095
WR-SD-SD008-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/16/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 45.2%
pH: 6.7

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	96 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**87**
100-01-6	4-Nitroaniline	96 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	96 U J
85-01-8	**Phenanthrene**	**810**
86-74-8	**Carbazole**	**220 J**
120-12-7	**Anthracene**	**150**
84-74-2	Di-n-Butylphthalate	19 U J
206-44-0	**Fluoranthene**	~~2,100 E~~ 2200 D
129-00-0	**Pyrene**	**1,400**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	96 U
56-55-3	**Benzo(a)anthracene**	**530**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**210** ~~J~~
218-01-9	**Chrysene**	**1,100**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**860**
207-08-9	**Benzo(k)fluoranthene**	**600**
50-32-8	**Benzo(a)pyrene**	**510**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**260**
53-70-3	**Dibenz(a,h)anthracene**	**110**
191-24-2	**Benzo(g,h,i)perylene**	**200 J**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	48.7%	d5-Phenol	46.6%
2-Fluorobiphenyl	58.4%	2-Fluorophenol	44.8%
d14-p-Terphenyl	76.3%	2,4,6-Tribromophenol	81.8%
d4-1,2-Dichlorobenzene	34.9%	d4-2-Chlorophenol	46.3%

FORM-1

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4095
WR-SD-SD008-0000

Lab Sample ID: T870T
LIMS ID: 97-17215
Matrix: Sediment

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Data Release Authorized: MW
Reported: 10/30/97

Date Analyzed: 10/16/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	79-34-5	Ethane,_1,1,2,2-tetrachlo	6.58	SVOA	200 ~~JNB~~ R
2.	--	Unknown_C15.H12_PNA_____	17.95	SVOA	110 JN
3.	--	Unknown_C15.H12_PNA_____	18.03	SVOA	120 JN
4.	--	Unknown_Aromatic_____	18.13	SVOA	350 JN
5.	84-65-1	9,10-Anthracenedione_____	18.57	SVOA	320 JN
6.	--	Unknown_C16.H14_PNA_____	19.04	SVOA	250 JN
7.	--	Unknown_____	20.43	SVOA	540 JN
8.	--	Benzothiophene_Isomer____	21.70	SVOA	400 JN
9.	--	Unknown_Aldehyde_____	22.90	SVOA	230 JN
10.	--	Unknown_____	23.19	SVOA	170 JN
11.	--	Unknown_Aldehyde_____	24.11	SVOA	880 JN
12.	--	Unknown_C20.H12_PNA_____	24.72	SVOA	370 JN
13.	--	Unknown_Aldehyde_____	25.24	SVOA	560 JN
14.	--	Unknown_Sterol_type_____	25.74	SVOA	270 JN
15.	--	Unknown_Sterol_type_____	26.01	SVOA	190 JN
16.	--	Unknown_Aromatic_____	27.38	SVOA	700 JN
17.	--	Unknown_____	27.57	SVOA	240 JN
18.	--	Unknown_Sterol_type_____	27.71	SVOA	670 JN
19.	--	Unknown_____	28.07	SVOA	180 JN
20.	--	Unknown_Sterol_type_____	28.18	SVOA	280 JN

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FORM-1-B

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 1 of 2

Sample No. 9738 4095
DILUTION

Lab Sample ID: T870T
LIMS ID: 97-17215
Matrix: Sediment
Data Release Authorized:
Reported: 10/30/97

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/17/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:3
Percent Moisture: 45.2%
pH: 6.7

CAS Number	Analyte	ug/kg
108-95-2	Phenol	58 U
111-44-4	Bis-(2-Chloroethyl) Ether	120 U
95-57-8	2-Chlorophenol	58 U
541-73-1	1,3-Dichlorobenzene	58 U
106-46-7	1,4-Dichlorobenzene	58 U
100-51-6	Benzyl Alcohol	58 U J
95-50-1	1,2-Dichlorobenzene	58 U
95-48-7	2-Methylphenol	58 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	58 U
106-44-5	4-Methylphenol	58 U
621-64-7	N-Nitroso-Di-N-Propylamine	120 U
67-72-1	Hexachloroethane	58 U
98-95-3	Nitrobenzene	58 U
78-59-1	Isophorone	58 U
88-75-5	2-Nitrophenol	290 U
105-67-9	2,4-Dimethylphenol	58 U
65-85-0	Benzoic Acid	580 U
111-91-1	bis(2-Chloroethoxy) Methane	58 U
120-83-2	2,4-Dichlorophenol	170 U
120-82-1	1,2,4-Trichlorobenzene	58 U
91-20-3	Naphthalene	58 U
106-47-8	4-Chloroaniline	170 U
87-68-3	Hexachlorobutadiene	58 U
59-50-7	4-Chloro-3-methylphenol	120 U
91-57-6	2-Methylnaphthalene	58 U
77-47-4	Hexachlorocyclopentadiene	290 U J
88-06-2	2,4,6-Trichlorophenol	290 U
95-95-4	2,4,5-Trichlorophenol	290 U
91-58-7	2-Chloronaphthalene	58 U
88-74-4	2-Nitroaniline	290 U
131-11-3	Dimethylphthalate	58 U
208-96-8	Acenaphthylene	58 U
99-09-2	3-Nitroaniline	350 U
83-32-9	**Acenaphthene**	**84**
51-28-5	2,4-Dinitrophenol	580 U J
100-02-7	4-Nitrophenol	290 U
132-64-9	Dibenzofuran	58 U
606-20-2	2,6-Dinitrotoluene	290 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 2 of 2

Sample No. 9738 4095
DILUTION

Lab Sample ID: T870T
LIMS ID: 97-17215
Matrix: Sediment
Data Release Authorized: MW
Reported: 10/30/97

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/17/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:3
Percent Moisture: 45.2%
pH: 6.7

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	290 U
84-66-2	Diethylphthalate	58 U
7005-72-3	4-Chlorophenyl-phenylether	58 U
86-73-7	**Fluorene**	**74**
100-01-6	4-Nitroaniline	290 U J
534-52-1	4,6-Dinitro-2-Methylphenol	580 U
86-30-6	N-Nitrosodiphenylamine	58 U
101-55-3	4-Bromophenyl-phenylether	58 U
118-74-1	Hexachlorobenzene	58 U
87-86-5	Pentachlorophenol	290 U J
85-01-8	**Phenanthrene**	**760**
86-74-8	**Carbazole**	**140**
120-12-7	**Anthracene**	**120**
84-74-2	Di-n-Butylphthalate	58 U J
206-44-0	**Fluoranthene**	**2,200**
129-00-0	**Pyrene**	**1,400**
85-68-7	Butylbenzylphthalate	58 U
91-94-1	3,3'-Dichlorobenzidine	290 U
56-55-3	**Benzo(a)anthracene**	**510**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**210** BUJ
218-01-9	**Chrysene**	**1,100**
117-84-0	Di-n-Octyl phthalate	58 U
205-99-2	**Benzo(b)fluoranthene**	**840**
207-08-9	**Benzo(k)fluoranthene**	**530**
50-32-8	**Benzo(a)pyrene**	**480**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**240**
53-70-3	**Dibenz(a,h)anthracene**	**95**
191-24-2	**Benzo(g,h,i)perylene**	**190**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	42.8%	d5-Phenol	44.2%
2-Fluorobiphenyl	49.6%	2-Fluorophenol	43.4%
d14-p-Terphenyl	63.4%	2,4,6-Tribromophenol	67.2%
d4-1,2-Dichlorobenzene	31.6%	d4-2-Chlorophenol	43.9%

FORM-1

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~~001354~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4095
DILUTION

Lab Sample ID: T870T
LIMS ID: 97-17215
Matrix: Sediment

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/18/97
Date Received: 09/20/97

Data Release Authorized: MW
Reported: 10/30/97

Date Analyzed: 10/17/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	79-34-5	Ethane,_1,1,2,2-tetrachlo	6.54	SVOA	200 ~~JNB~~ R
2.	---	Unknown_Aromatic_____	18.07	SVOA	240 J
3.	84-65-1	9,10-Anthracenedione_____	18.50	SVOA	280 JN
4.	---	Unknown_C16.H14_PNA_____	18.99	SVOA	190 J
5.	---	Unknown_Aromatic_____	19.43	SVOA	160 J
6.	---	Unknown_____	20.37	SVOA	520 J
7.	---	Benzothiophene_Isomer____	21.65	SVOA	310 J
8.	---	Unknown_C19.H14_PNA_____	22.95	SVOA	320 J
9.	---	Unknown_Aldehyde_____	24.05	SVOA	1,300 J
10.	---	Unknown_C20.H12_PNA_____	24.64	SVOA	600 J
11.	---	Unknown_Aldehyde_____	25.18	SVOA	670 J
12.	---	Unknown_Sterol_type_____	25.68	SVOA	250 J
13.	---	Unknown_Sterol_type_____	26.24	SVOA	340 J
14.	---	Unknown_Sterol_type_____	26.72	SVOA	260 J
15.	---	Unknown_____	27.22	SVOA	490 J
16.	---	Unknown_Aromatic_____	27.31	SVOA	1,000 J
17.	---	Unknown_____	27.49	SVOA	370 J
18.	---	Unknown_Aromatic_____	27.62	SVOA	980 J
19.	---	Unknown_____	27.98	SVOA	240 J
20.	---	Unknown_Sterol_type_____	28.09	SVOA	370 J

FORM-1-B

~~001355~~ JMB 12/15/97

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T870U
LIMS ID: 97-17216
Matrix: Sediment
Data Release Authorized: MW
Reported: 10/30/97

Sample No: 9738 4096
WR-SD-SD009-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/16/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.5 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 46.0%
pH: 7.0

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U
106-44-5	4-Methylphenol	19 U
621-64-7	N-Nitroso-Di-N-Propylamine	39 U J
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	97 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**30**
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	**2-Methylnaphthalene**	**28**
77-47-4	Hexachlorocyclopentadiene	97 U J
88-06-2	2,4,6-Trichlorophenol	97 U
95-95-4	2,4,5-Trichlorophenol	97 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	97 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**74**
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	97 U
132-64-9	**Dibenzofuran**	**51**
606-20-2	2,6-Dinitrotoluene	97 U

FORM-1

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~~001401~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T870U
LIMS ID: 97-17216
Matrix: Sediment
Data Release Authorized: MV
Reported: 10/30/97

Sample No: 9738 4096
WR-SD-SD009-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/16/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.5 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 46.0%
pH: 7.0

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	97 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**86**
100-01-6	4-Nitroaniline	97 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	97 UJ
85-01-8	**Phenanthrene**	**310**
86-74-8	**Carbazole**	**29 J**
120-12-7	**Anthracene**	**49**
84-74-2	Di-n-Butylphthalate	19 UJ
206-44-0	**Fluoranthene**	**340**
129-00-0	**Pyrene**	**240**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	97 U
56-55-3	**Benzo(a)anthracene**	**100**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**180 BUJ**
218-01-9	**Chrysene**	**130**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**110**
207-08-9	**Benzo(k)fluoranthene**	**110**
50-32-8	**Benzo(a)pyrene**	**120**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**69**
53-70-3	**Dibenz(a,h)anthracene**	**27**
191-24-2	**Benzo(g,h,i)perylene**	**48 J**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	51.8%	d5-Phenol	49.1%
2-Fluorobiphenyl	62.0%	2-Fluorophenol	49.0%
d14-p-Terphenyl	76.8%	2,4,6-Tribromophenol	84.5%
d4-1,2-Dichlorobenzene	44.2%	d4-2-Chlorophenol	50.4%

FORM-1

JMB 12/15/97

~~001402~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4096
WR-SD-SD009-0000

Lab Sample ID: T870U
LIMS ID: 97-17216
Matrix: Sediment

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Data Release Authorized: MW
Reported: 10/30/97

Date Analyzed: 10/16/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	79-34-5	Ethane,_1,1,2,2-tetrachlo	6.59	SVOA	150 ~~JNB~~ R
2.	--	Unknown_Organic_Acid_____	18.17	SVOA	230 J N
3.	--	Unknown_____	18.58	SVOA	190 J N
4.	--	Unknown_____	18.84	SVOA	110 J N
5.	--	Unknown_Aromatic_____	19.48	SVOA	280 J N
6.	--	Unknown_Aromatic_____	20.42	SVOA	430 J N
7.	--	Unknown_Aldehyde_____	22.88	SVOA	410 J N
8.	--	Unknown_Aromatic_____	23.18	SVOA	440 J N
9.	--	Unknown_____	23.33	SVOA	370 J N
10.	--	Unknown_Aldehyde_____	24.11	SVOA	1,600 J N
11.	--	Unknown_Aldehyde_____	25.22	SVOA	910 J N
12.	--	Unknown_Sterol_type_____	25.73	SVOA	340 J N
13.	--	Unknown_Sterol_type_____	26.00	SVOA	310 J N
14.	--	Unknown_____	26.20	SVOA	330 J N
15.	--	Unknown_____	26.30	SVOA	470 J N
16.	--	Unknown_Aromatic_____	27.38	SVOA	1,400 J N
17.	--	Unknown_____	27.56	SVOA	690 J N
18.	--	Unknown_Sterol_type_____	27.71	SVOA	1,300 J N
19.	--	Unknown_____	28.06	SVOA	310 J N
20.	--	Unknown_Sterol_type_____	28.17	SVOA	660 J N

FORM-1-B

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~~001403~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T870V
LIMS ID: 97-17217
Matrix: Sediment
Data Release Authorized: MW
Reported: 10/30/97

Sample No: 9738 4097
WR-SD-SD010-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/28/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 44.2%
pH: 6.8

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	40 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U J
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U J
106-44-5	4-Methylphenol	20 U
621-64-7	N-Nitroso-Di-N-Propylamine	40 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	99 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	60 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	Naphthalene	20 U
106-47-8	4-Chloroaniline	60 U J
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	40 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	99 U J
88-06-2	2,4,6-Trichlorophenol	99 U
95-95-4	2,4,5-Trichlorophenol	99 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	99 U
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U J
83-32-9	Acenaphthene	20 U
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	99 U
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	99 U

FORM-1

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~~001452~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T870V
LIMS ID: 97-17217
Matrix: Sediment
Data Release Authorized: MW
Reported: 10/30/97

Sample No: 9738 4097
WR-SD-SD010-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/28/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 44.2%
pH: 6.8

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	99 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	Fluorene	20 U
100-01-6	4-Nitroaniline	99 U J
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	99 U J
85-01-8	**Phenanthrene**	**36**
86-74-8	Carbazole	20 U J
120-12-7	Anthracene	20 U
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**69**
129-00-0	**Pyrene**	**67**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	99 U J
56-55-3	**Benzo(a)anthracene**	**35**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**89** ~~B~~ UJ
218-01-9	**Chrysene**	**50**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**41**
207-08-9	**Benzo(k)fluoranthene**	**40**
50-32-8	**Benzo(a)pyrene**	**46**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**31**
53-70-3	Dibenz(a,h)anthracene	20 U
191-24-2	**Benzo(g,h,i)perylene**	**38**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	47.4%	d5-Phenol	53.0%
2-Fluorobiphenyl	52.8%	2-Fluorophenol	50.4%
d14-p-Terphenyl	64.4%	2,4,6-Tribromophenol	69.6%
d4-1,2-Dichlorobenzene	42.8%	d4-2-Chlorophenol	49.3%

FORM-1

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4097
WR-SD-SD010-000C

Lab Sample ID: T870V
LIMS ID: 97-17217
Matrix: Sediment

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Data Release Authorized: MW
Reported: 10/30/97

Date Analyzed: 10/28/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	79-34-5	Ethane,_1,1,2,2-tetrachlo	7.05	SVOA	190 ~~JNB~~ R
2.	--	Unknown_Alcohol_____	19.99	SVOA	85 JN
3.	--	Unknown_____	20.08	SVOA	110 JN
4.	--	Unknown_Aromatic_____	21.02	SVOA	240 JN
5.	--	Unknown_Aldehyde_____	23.51	SVOA	160 JN
6.	--	Unknown_Aromatic_____	23.77	SVOA	350 JN
7.	--	Unknown_Aldehyde_____	24.72	SVOA	640 JN
8.	--	Unknown_Aldehyde_____	25.85	SVOA	220 JN
9.	--	Unknown_Cycloalkane_____	26.19	SVOA	160 JN
10.	--	Unknown_Aromatic_____	26.36	SVOA	190 JN
11.	--	Unknown_Sterol_type_____	26.59	SVOA	480 JN
12.	--	Unknown_Sterol_type_____	26.86	SVOA	240 JN
13.	--	Unknown_Sterol_type_____	27.31	SVOA	260 JN
14.	--	Unknown_Sterol_type_____	27.70	SVOA	1,300 JN
15.	--	Unknown_Aromatic_____	27.86	SVOA	520 JN
16.	--	Unknown_Aromatic_____	28.03	SVOA	540 JN
17.	--	Unknown_____	28.15	SVOA	860 JN
18.	--	Unknown_____	28.31	SVOA	370 JN
19.	--	Unknown_____	28.47	SVOA	170 JN
20.	--	Unknown_Sterol_type_____	28.58	SVOA	450 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T870W
LIMS ID: 97-17218
Matrix: Sediment
Data Release Authorized: MW
Reported: 10/30/97

Sample No: 9738 4098
WR-SD-SD012-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/28/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 26.5%
pH: 7.0

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	4-Methylphenol	19 U
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	97 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	Naphthalene	19 U
106-47-8	4-Chloroaniline	58 U J
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	97 U J
88-06-2	2,4,6-Trichlorophenol	97 U
95-95-4	2,4,5-Trichlorophenol	97 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	97 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U J
83-32-9	Acenaphthene	19 U
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	97 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	97 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T870W
LIMS ID: 97-17218
Matrix: Sediment
Data Release Authorized:
Reported: 10/30/97

Sample No: 9738 4098
WR-SD-SD012-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/28/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 26.5%
pH: 7.0

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	97 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	Fluorene	19 U
100-01-6	4-Nitroaniline	97 U J
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	97 U J
85-01-8	**Phenanthrene**	**44**
86-74-8	Carbazole	19 U J
120-12-7	Anthracene	19 U
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**110**
129-00-0	**Pyrene**	**110**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	97 U J
56-55-3	**Benzo(a)anthracene**	**86**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**70** ~~J~~ U J
218-01-9	**Chrysene**	**110**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**90**
207-08-9	**Benzo(k)fluoranthene**	**100**
50-32-8	**Benzo(a)pyrene**	**120**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**72**
53-70-3	**Dibenz(a,h)anthracene**	**31**
191-24-2	**Benzo(g,h,i)perylene**	**80**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	48.6%	d5-Phenol	54.5%
2-Fluorobiphenyl	53.9%	2-Fluorophenol	52.6%
d14-p-Terphenyl	63.4%	2,4,6-Tribromophenol	69.2%
d4-1,2-Dichlorobenzene	45.2%	d4-2-Chlorophenol	50.9%

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4098
WR-SD-SD012-0000

Lab Sample ID: T870W
LIMS ID: 97-17218
Matrix: Sediment

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Data Release Authorized: MW
Reported: 10/30/97

Date Analyzed: 10/28/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	79-34-5	Ethane,_1,1,2,2-tetrachlo	7.04	SVOA	280 ~~JNB~~ JN
2.	--	Unknown_Alcohol_____	14.28	SVOA	200 JN
3.	7342-38-3	Stannane,_chlorotris(2-me	16.07	SVOA	3,400 JN
4.	1461-25-2	Stannane,_tetrabutyl-____	16.12	SVOA	250 JN
5.	--	Unknown_Stannane_____	16.51	SVOA	390 JN
6.	--	Unknown_Acid_Ester_____	18.45	SVOA	60 JN
7.	--	Unknown_PNA_____	18.76	SVOA	78 JN
8.	--	Unknown_Alcohol_____	19.98	SVOA	92 JN
9.	--	Unknown_Aromatic_____	20.09	SVOA	95 JN
10.	--	Unknown_Aromatic_____	21.02	SVOA	160 JN
11.	--	Unknown_____	23.93	SVOA	640 JN
12.	--	Unknown_Aldehyde_____	24.71	SVOA	190 JN
13.	--	Unknown_Aldehyde_____	25.84	SVOA	93 JN
14.	--	Unknown_Sterol_type_____	26.59	SVOA	150 JN
15.	--	Unknown_Aromatic_____	27.85	SVOA	140 JN
16.	--	Unknown_____	28.03	SVOA	170 JN
17.	--	Unknown_Aromatic_____	28.14	SVOA	320 JN
18.	--	Unknown_____	28.30	SVOA	160 JN
19.	--	Unknown_Sterol_type_____	28.57	SVOA	200 JN
20.	--	Unknown_____	29.11	SVOA	58 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T870X
LIMS ID: 97-17219
Matrix: Sediment
Data Release Authorized: MW
Reported: 10/30/97

Sample No: 9738 4099
WR-SD-SD013-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/16/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 42.3%
pH: 6.6

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U
106-44-5	4-Methylphenol	19 U
621-64-7	N-Nitroso-Di-N-Propylamine	38 U J
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	96 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	Naphthalene	19 U
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	96 U J
88-06-2	2,4,6-Trichlorophenol	96 U
95-95-4	2,4,5-Trichlorophenol	96 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	96 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U
83-32-9	Acenaphthene	19 U
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	96 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	96 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T870X
LIMS ID: 97-17219
Matrix: Sediment
Data Release Authorized: MW
Reported: 10/30/97

Sample No: 9738 4099
WR-SD-SD013-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/16/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 42.3%
pH: 6.6

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	96 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	Fluorene	19 U
100-01-6	4-Nitroaniline	96 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	96 UJ
85-01-8	**Phenanthrene**	**68**
86-74-8	**Carbazole**	**19 J**
120-12-7	Anthracene	19 U
84-74-2	Di-n-Butylphthalate	19 UJ
206-44-0	**Fluoranthene**	**140**
129-00-0	**Pyrene**	**130**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	96 U
56-55-3	**Benzo(a)anthracene**	**72**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**1,200 ~~B~~ UJ**
218-01-9	**Chrysene**	**96**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**84**
207-08-9	**Benzo(k)fluoranthene**	**100**
50-32-8	**Benzo(a)pyrene**	**100**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**61**
53-70-3	**Dibenz(a,h)anthracene**	**25**
191-24-2	**Benzo(g,h,i)perylene**	**62 J**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	59.2%	d5-Phenol	55.7%
2-Fluorobiphenyl	64.6%	2-Fluorophenol	57.6%
d14-p-Terphenyl	75.2%	2,4,6-Tribromophenol	80.6%
d4-1,2-Dichlorobenzene	53.7%	d4-2-Chlorophenol	57.8%

FORM-1

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4099
WR-SD-SD013-0000

Lab Sample ID: T870X
LIMS ID: 97-17219
Matrix: Sediment

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Data Release Authorized: MW
Reported: 10/30/97

Date Analyzed: 10/16/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	79-34-5	Ethane,_1,1,2,2-tetrachlo	6.58	SVOA	140 ~~UNB~~ R
2.	--	Unknown_Ketone	14.53	SVOA	62 JN
3.	--	Unknown_Acid_Ester	17.65	SVOA	64 JN
4.	--	Unknown_Organic_Acid	18.15	SVOA	74 JN
5.	--	Unknown	18.57	SVOA	230 JN
6.	--	Unknown_Aromatic	19.47	SVOA	150 JN
7.	--	Unknown_Aromatic	20.41	SVOA	260 JN
8.	--	Unknown_Aldehyde	22.89	SVOA	240 JN
9.	--	Unknown	23.33	SVOA	160 JN
10.	--	Unknown_Aldehyde	24.10	SVOA	970 JN
11.	--	Unknown_Aldehyde	25.23	SVOA	400 JN
12.	--	Unknown_Sterol_type	25.73	SVOA	120 JN
13.	--	Unknown_Sterol_type	26.00	SVOA	250 JN
14.	--	Unknown_Aldehyde	26.30	SVOA	250 JN
15.	--	Unknown_Sterol_type	26.78	SVOA	140 JN
16.	--	Unknown_Aromatic	27.37	SVOA	910 JN
17.	--	Unknown	27.56	SVOA	270 JN
18.	--	Unknown_Sterol_type	27.69	SVOA	830 JN
19.	--	Unknown	28.06	SVOA	200 JN
20.	--	Unknown_Sterol_type	28.17	SVOA	300 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T870Y
LIMS ID: 97-17220
Matrix: Sediment
Data Release Authorized: MW
Reported: 10/30/97

Sample No: 9738 4100
WR-SD-SD014-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/16/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 42.3%
pH: 6.9

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U
106-44-5	4-Methylphenol	19 U
621-64-7	N-Nitroso-Di-N-Propylamine	39 U J
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	96 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	Naphthalene	19 U
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	96 U J
88-06-2	2,4,6-Trichlorophenol	96 U
95-95-4	2,4,5-Trichlorophenol	96 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	96 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U
83-32-9	Acenaphthene	19 U
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	96 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	96 U

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~~001588~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T870Y
LIMS ID: 97-17220
Matrix: Sediment
Data Release Authorized: MW
Reported: 10/30/97

Sample No: 9738 4100
WR-SD-SD014-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/16/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 42.3%
pH: 6.9

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	96 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	Fluorene	19 U
100-01-6	4-Nitroaniline	96 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	96 UJ
85-01-8	**Phenanthrene**	**80**
86-74-8	**Carbazole**	**24** J
120-12-7	Anthracene	19 U
84-74-2	Di-n-Butylphthalate	19 UJ
206-44-0	**Fluoranthene**	**170**
129-00-0	**Pyrene**	**160**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	96 U
56-55-3	**Benzo(a)anthracene**	**89**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**110** ~~B~~UJ
218-01-9	**Chrysene**	**120**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**110**
207-08-9	**Benzo(k)fluoranthene**	**140**
50-32-8	**Benzo(a)pyrene**	**130**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**82**
53-70-3	**Dibenz(a,h)anthracene**	**33**
191-24-2	**Benzo(g,h,i)perylene**	**80** J

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	48.8%	d5-Phenol	41.7%
2-Fluorobiphenyl	55.2%	2-Fluorophenol	46.2%
d14-p-Terphenyl	71.4%	2,4,6-Tribromophenol	72.0%
d4-1,2-Dichlorobenzene	44.3%	d4-2-Chlorophenol	45.7%

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FORM-1

~~001589~~

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4100
WR-SD-SD014-0000

Lab Sample ID: T870Y
LIMS ID: 97-17220
Matrix: Sediment

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Data Release Authorized:
Reported: 10/30/97

Date Analyzed: 10/16/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Acid_Ester	17.65	SVOA	76 JN
2.	--	Unknown_Organic_Acid	18.14	SVOA	69 JN
3.	--	Unknown	18.34	SVOA	70 JN
4.	--	Unknown	18.57	SVOA	150 JN
5.	--	Unknown	18.84	SVOA	100 JN
6.	--	Unknown	19.02	SVOA	86 JN
7.	--	Unknown_Aromatic	19.48	SVOA	160 JN
8.	--	Unknown_Aromatic	20.42	SVOA	290 JN
9.	--	Unknown_Aldehyde	22.87	SVOA	160 JN
10.	--	Unknown_Aldehyde	24.10	SVOA	660 JN
11.	--	Unknown_Aldehyde	25.22	SVOA	280 JN
12.	--	Unknown_Sterol_type	25.72	SVOA	90 JN
13.	--	Unknown_Sterol_type	25.99	SVOA	220 JN
14.	--	Unknown_Sterol_type	26.29	SVOA	180 JN
15.	--	Unknown_Sterol_type	26.77	SVOA	110 JN
16.	--	Unknown_Aromatic	27.37	SVOA	560 JN
17.	--	Unknown	27.55	SVOA	220 JN
18.	--	Unknown	27.68	SVOA	580 JN
19.	--	Unknown	28.05	SVOA	150 JN
20.	--	Unknown_Sterol_type	28.16	SVOA	220 JN

FORM-1-B

JMB 12/15/97

~~001590~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T870Z
LIMS ID: 97-17221
Matrix: Sediment
Data Release Authorized: MW
Reported: 10/30/97

Sample No: 9738 4101
WR-SD-SD034-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/17/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.5 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 43.0%
pH: 6.9

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U
106-44-5	4-Methylphenol	19 U
621-64-7	N-Nitroso-Di-N-Propylamine	39 U J
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	97 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**29**
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	**2-Methylnaphthalene**	**26**
77-47-4	Hexachlorocyclopentadiene	97 U J
88-06-2	2,4,6-Trichlorophenol	97 U
95-95-4	2,4,5-Trichlorophenol	97 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	97 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**110**
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	97 U
132-64-9	**Dibenzofuran**	**38**
606-20-2	2,6-Dinitrotoluene	97 U

FORM-1

JMB 12/15/97

~~001633~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T870Z
LIMS ID: 97-17221
Matrix: Sediment
Data Release Authorized: MW
Reported: 10/30/97

Sample No: 9738 4101
WR-SD-SD034-0000
QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/17/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.5 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 43.0%
pH: 6.9

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	97 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**74**
100-01-6	4-Nitroaniline	97 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	97 U J
85-01-8	**Phenanthrene**	**710**
86-74-8	**Carbazole**	**340** J
120-12-7	**Anthracene**	**120**
84-74-2	Di-n-Butylphthalate	19 U J
206-44-0	**Fluoranthene**	**1,400**
129-00-0	**Pyrene**	**1,000**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	97 U
56-55-3	**Benzo(a)anthracene**	**720**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**110** BUJ
218-01-9	**Chrysene**	**930**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**1,100**
207-08-9	**Benzo(k)fluoranthene**	**790**
50-32-8	**Benzo(a)pyrene**	**1,000**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**620**
53-70-3	**Dibenz(a,h)anthracene**	**270**
191-24-2	**Benzo(g,h,i)perylene**	**540** J

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	49.0%	d5-Phenol	50.3%
2-Fluorobiphenyl	65.0%	2-Fluorophenol	47.5%
d14-p-Terphenyl	82.8%	2,4,6-Tribromophenol	88.9%
d4-1,2-Dichlorobenzene	38.1%	d4-2-Chlorophenol	49.8%

FORM-1

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~~001634~~

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4101
WR-SD- SD034-0000

Lab Sample ID: T870Z
LIMS ID: 97-17221
Matrix: Sediment

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Data Release Authorized:
Reported: 10/30/97

Date Analyzed: 10/17/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown	18.11	SVOA	190 JN
2.	--	Unknown	18.57	SVOA	210 JN
3.	--	Unknown_Aromatic	19.48	SVOA	380 JN
4.	--	Unknown_Aromatic	20.42	SVOA	940 JN
5.	--	Unknown_C17.H12_PNA	20.59	SVOA	270 JN
6.	--	Benzothiophene_Isomer	21.69	SVOA	320 JN
7.	--	Unknown_Aromatic	23.19	SVOA	310 JN
8.	--	Unknown	23.33	SVOA	340 JN
9.	--	Unknown_Aldehyde	24.10	SVOA	1,100 JN
10.	--	Unknown_C20.H12_PNA	24.71	SVOA	620 JN
11.	--	Unknown_Aldehyde	25.23	SVOA	620 JN
12.	--	Unknown_Sterol_type	25.74	SVOA	410 JN
13.	--	Unknown_Sterol_type	26.01	SVOA	590 JN
14.	--	Unknown_Sterol_type	26.30	SVOA	410 JN
15.	--	Unknown_PNA	26.79	SVOA	260 JN
16.	--	Unknown_Aromatic	27.38	SVOA	870 JN
17.	--	Unknown	27.57	SVOA	440 JN
18.	--	Unknown_Sterol_type	27.70	SVOA	1,100 JN
19.	--	Unknown	28.06	SVOA	270 JN
20.	--	Unknown_Sterol_type	28.18	SVOA	450 JN

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FORM-1-B

~~001635~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9738 4076

WR-SD- SD035-0000

Lab Sample ID: T870D
LIMS ID: 97-17199
Matrix: Sediment
Data Release Authorized:
Reported: 11/05/97

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/16/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 52.7 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:1
Percent Moisture: 44.6%
pH: 6.9

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	0.95 U
319-85-7	beta-BHC	0.95 U
319-86-8	delta-BHC	3.0 ~~U~~ UI
58-89-9	gamma-BHC (Lindane)	0.95 U
76-44-8	Heptachlor	0.95 U
309-00-2	Aldrin	0.95 U
1024-57-3	Heptachlor Epoxide	0.95 U
959-98-8	Endosulfan I	0.95 U
60-57-1	Dieldrin	1.9 U
72-55-9	**4,4'-DDE**	**1.4 J**
72-20-8	Endrin	1.9 U
33213-65-9	Endosulfan II	1.9 U
72-54-8	**4,4'-DDD**	**1.1 J**
1031-07-8	Endosulfan Sulfate	1.9 U
50-29-3	**4,4'-DDT**	**1.4 J**
72-43-5	Methoxychlor	9.5 U
53494-70-5	Endrin Ketone	1.9 U
7421-93-4	Endrin Aldehyde	1.9 U
57-74-9	gamma Chlordane	0.95 U
5103-71-9	alpha Chlordane	0.95 U
8001-35-2	Toxaphene	95 U
12674-11-2	Aroclor 1016	19 U
53469-21-9	Aroclor 1242	19 U
12672-29-6	Aroclor 1248	19 U
11097-69-1	Aroclor 1254	19 U
11096-82-5	Aroclor 1260	19 U
11104-28-2	Aroclor 1221	38 U
11141-16-5	Aroclor 1232	19 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	54.5%
Tetrachlorometaxylene	39.8%

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~~002200~~

FORM-1

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9738 4086

WR-SD-SD021-0000

Lab Sample ID: T870M
LIMS ID: 97-17208
Matrix: Sediment
Data Release Authorized:
Reported: 11/05/97

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00
Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/16/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 50.6 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:1
Percent Moisture: 49.4%
pH: 6.5

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	0.99 U
319-85-7	beta-BHC	0.99 U
319-86-8	delta-BHC	1.6 ~~U~~ UI
58-89-9	gamma-BHC (Lindane)	0.99 U
76-44-8	Heptachlor	0.99 U
309-00-2	Aldrin	0.99 U
1024-57-3	Heptachlor Epoxide	0.99 U
959-98-8	Endosulfan I	0.99 U
60-57-1	Dieldrin	2.0 U
72-55-9	**4,4'-DDE**	**2.4**
72-20-8	Endrin	2.0 U
33213-65-9	Endosulfan II	2.0 U
72-54-8	**4,4'-DDD**	**3.4**
1031-07-8	Endosulfan Sulfate	2.0 U
50-29-3	**4,4'-DDT**	**4.6**
72-43-5	Methoxychlor	9.9 U
53494-70-5	Endrin Ketone	2.0 U
7421-93-4	Endrin Aldehyde	2.0 U
57-74-9	gamma Chlordane	0.99 U
5103-71-9	alpha Chlordane	0.99 U
8001-35-2	Toxaphene	99 U
12674-11-2	Aroclor 1016	20 U
53469-21-9	Aroclor 1242	20 U
12672-29-6	Aroclor 1248	20 U
11097-69-1	Aroclor 1254	20 U
11096-82-5	Aroclor 1260	20 U
11104-28-2	Aroclor 1221	40 U
11141-16-5	Aroclor 1232	20 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	52.8%
Tetrachlorometaxylene	36.5%

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9738 4098

WR-SD-SD012-0000

Lab Sample ID: T870W
LIMS ID: 97-17218
Matrix: Sediment
Data Release Authorized:
Reported: 11/05/97

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/01/97
Date analyzed: 10/16/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 51.5 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:1
Percent Moisture: 26.5%
pH: 7.0

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	0.97 U
319-85-7	beta-BHC	0.97 U
319-86-8	delta-BHC	1.6 ~~X~~ UI
58-89-9	gamma-BHC (Lindane)	0.97 U
76-44-8	Heptachlor	0.97 U
309-00-2	Aldrin	0.97 U
1024-57-3	Heptachlor Epoxide	0.97 U
959-98-8	Endosulfan I	0.97 U
60-57-1	Dieldrin	1.9 U
72-55-9	4,4'-DDE	1.9 U
72-20-8	Endrin	1.9 U
33213-65-9	Endosulfan II	1.9 U
72-54-8	**4,4'-DDD**	**1.4 J**
1031-07-8	Endosulfan Sulfate	1.9 U
50-29-3	4,4'-DDT	1.9 U
72-43-5	Methoxychlor	9.7 U
53494-70-5	Endrin Ketone	1.9 U
7421-93-4	Endrin Aldehyde	1.9 U
57-74-9	gamma Chlordane	0.97 U
5103-71-9	alpha Chlordane	0.97 U
8001-35-2	Toxaphene	97 U
12674-11-2	Aroclor 1016	19 U
53469-21-9	Aroclor 1242	19 U
12672-29-6	Aroclor 1248	19 U
11097-69-1	Aroclor 1254	19 U
11096-82-5	Aroclor 1260	19 U
11104-28-2	Aroclor 1221	39 U
11141-16-5	Aroclor 1232	19 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	60.5%
Tetrachlorometaxylene	51.2%

FORM-1

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~~002214~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9738 4091
WR-SD-SD004-0000

Lab Sample ID: T870Q
LIMS ID: 97-20485
Matrix: Sediment
Data Release Authorized:
Reported: 11/05/97

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 10/21/97
Date analyzed: 10/28/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 53.4 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:1
Percent Moisture: 23.8%
pH: 7.3

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	0.94 U J
319-85-7	beta-BHC	0.94 U J
319-86-8	delta-BHC	0.94 U J
58-89-9	gamma-BHC (Lindane)	0.94 U J
76-44-8	Heptachlor	0.94 U J
309-00-2	Aldrin	0.94 U J
1024-57-3	Heptachlor Epoxide	0.94 U J
959-98-8	Endosulfan I	0.94 U J
60-57-1	Dieldrin	1.9 U J
72-55-9	**4,4'-DDE**	**0.84 J**
72-20-8	Endrin	1.9 U J
33213-65-9	Endosulfan II	1.9 U J
72-54-8	**4,4'-DDD**	**1.1 J**
1031-07-8	Endosulfan Sulfate	1.9 U J
50-29-3	**4,4'-DDT**	**1.0 J**
72-43-5	Methoxychlor	9.4 U J
53494-70-5	Endrin Ketone	1.9 U J
7421-93-4	Endrin Aldehyde	1.9 U J
57-74-9	gamma Chlordane	0.94 U J
5103-71-9	alpha Chlordane	0.94 U J
8001-35-2	Toxaphene	94 U J
12674-11-2	Aroclor 1016	19 U J
53469-21-9	Aroclor 1242	19 U J
12672-29-6	Aroclor 1248	19 U J
11097-69-1	Aroclor 1254	19 U J
11096-82-5	Aroclor 1260	19 U J
11104-28-2	Aroclor 1221	37 U J
11141-16-5	Aroclor 1232	19 U J

Pesticide Surrogate Recovery

Decachlorobiphenyl	58.8%
Tetrachlorometaxylene	74.5%

FORM-1

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~~002222~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9738 4088
REANALYSIS
WR-SD-SD021-1000

Lab Sample ID: T870N-RE
LIMS ID: 97-17209
Matrix: Sediment
Data Release Authorized:
Reported: 11/12/97

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 11/05/97
Date analyzed: 11/11/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 50.8 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:1
Percent Moisture: 46.7%
pH: 6.7

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	0.98 U J
319-85-7	beta-BHC	0.98 U J
319-86-8	delta-BHC	0.98 U J
58-89-9	gamma-BHC (Lindane)	0.98 U J
76-44-8	Heptachlor	0.98 U J
309-00-2	Aldrin	0.98 U J
1024-57-3	Heptachlor Epoxide	0.98 U J
959-98-8	Endosulfan I	0.98 U J
60-57-1	Dieldrin	2.0 U J
72-55-9	4,4'-DDE	2.0 U J
72-20-8	Endrin	2.0 U J
33213-65-9	Endosulfan II	2.0 U J
72-54-8	4,4'-DDD	2.0 U J
1031-07-8	Endosulfan Sulfate	2.0 U J
50-29-3	4,4'-DDT	2.0 U J
72-43-5	Methoxychlor	9.8 U J
53494-70-5	Endrin Ketone	2.0 U J
7421-93-4	Endrin Aldehyde	2.0 U J
57-74-9	gamma Chlordane	0.98 U J
5103-71-9	alpha Chlordane	0.98 U J
8001-35-2	Toxaphene	98 U J
12674-11-2	Aroclor 1016	20 U J
53469-21-9	Aroclor 1242	20 U J
12672-29-6	Aroclor 1248	20 U J
11097-69-1	Aroclor 1254	20 U J
11096-82-5	Aroclor 1260	20 U J
11104-28-2	Aroclor 1221	39 U J
11141-16-5	Aroclor 1232	20 U J

Pesticide Surrogate Recovery

Decachlorobiphenyl	41.0%
Tetrachlorometaxylene	46.5%

FORM-1

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9738 4101
REANALYSIS
WR-SD- SD034-0000

Lab Sample ID: T870Z-RE
LIMS ID: 97-17221
Matrix: Sediment
Data Release Authorized:
Reported: 11/12/97

QC Report No: T870-Roy F. Weston
Project: 04000-019-036-5100-00

Date Sampled: 09/18/97
Date Received: 09/20/97

Date extracted: 11/05/97
Date analyzed: 11/11/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 51.5 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:1
Percent Moisture: 43.0%
pH: 6.9

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	0.97 U J
319-85-7	beta-BHC	0.97 U J
319-86-8	delta-BHC	0.97 U J
58-89-9	gamma-BHC (Lindane)	0.97 U J
76-44-8	Heptachlor	0.97 U J
309-00-2	Aldrin	0.97 U J
1024-57-3	Heptachlor Epoxide	0.97 U J
959-98-8	Endosulfan I	0.97 U J
60-57-1	Dieldrin	1.9 U J
72-55-9	**4,4'-DDE**	**1.2 J**
72-20-8	Endrin	1.9 U J
33213-65-9	Endosulfan II	1.9 U J
72-54-8	4,4'-DDD	1.9 U J
1031-07-8	Endosulfan Sulfate	1.9 U J
50-29-3	4,4'-DDT	1.9 U J
72-43-5	Methoxychlor	9.7 U J
53494-70-5	Endrin Ketone	3.4 ~~J~~ UI J
7421-93-4	Endrin Aldehyde	1.9 U J
57-74-9	gamma Chlordane	0.97 U J
5103-71-9	alpha Chlordane	0.97 U J
8001-35-2	Toxaphene	97 U J
12674-11-2	Aroclor 1016	19 U J
53469-21-9	Aroclor 1242	19 U J
12672-29-6	Aroclor 1248	19 U J
11097-69-1	Aroclor 1254	19 U J
11096-82-5	Aroclor 1260	19 U J
11104-28-2	Aroclor 1221	39 U J
11141-16-5	Aroclor 1232	19 U J

Pesticide Surrogate Recovery

Decachlorobiphenyl	42.8%
Tetrachlorometaxylene	49.2%

FORM-1

~~002236~~ JMB 12/15/97

Roy F. Weston, Inc.
Suite 5700
700 5th Avenue
Seattle, Washington 98104-5057
206-521-7600 • Fax 206-521-7601

MANAGERS DESIGNERS/CONSULTANTS

MEMORANDUM

DATE: 28 January 1998

TO: John Meyer, WAM, U.S. EPA, Region X

FROM: Jennifer M. Baier, Environmental Chemist, WESTON, Seattle JMB
RNM Roger McGinnis, Senior Environmental Chemist, WESTON, Seattle

SUBJECT: Validation of Organics (semivolatiles, pesticides, and PCBs)
SDG No: T914
Site: Willamette River

WORK ASSIGNMENT NO: 46-23-0JZZ

DOC. CONTROL NO.: 4000-019-036-AAAZ

WORK ORDER NO.: 4000-019-036-5200-00

cc: Bruce Woods, RAP-WAM, U.S. EPA, Region X
Karen Stash, Project Manager, WESTON, Seattle (memo only)

The quality assurance review of 55 samples, SDG T914, collected from the Willamette River has been completed. The sediment samples were analyzed at low level for semivolatiles, pesticides and PCBs by Analytical Resources, Inc. The samples were numbered:

97384103	97384104	97384105	97384106	97384108
97384109	97384901	97384903	97384904	97384905
97384906	97384907	97384908	97384909	97384910
97384911	97384912	97384913	97384915	97384916
97384917	97384919	97384921	97384922	97384924
97384925	97384926	97384927	97384928	97384929
97384930	97384933	97384934	97384935	97384937
97384938	97384939	97384940	97384941	97384943
97384944	97384945	97384947	97384950	97384952
97384954	97384956	97384958	97384960	97384961
97384963	97384964	97384965	97384966	97384967

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Data Qualifications

The following comments refer to the laboratory performance in meeting the quality control criteria described in the technical specifications of the laboratory subcontract. The review follows the format described in the *National Functional Guidelines for Organic Data Review* (EPA OSWER Directive 9240.1-05, February 1994).

1. Timeliness

All samples met holding time criteria except the following:

Sample Number	Fraction	Sampling Date	Extraction Date	No. of Days	Holding Time
97384103	BNAs	9/19/97	10/10/97	21	14 days
97384104	BNAs	9/19/97	10/10/97	21	14 days
97384105	BNAs	9/19/97	10/10/97	21	14 days
97384106	BNAs	9/19/97	10/10/97	21	14 days
97384108	BNAs	9/19/97	10/10/97	21	14 days
97384109	BNAs	9/19/97	10/10/97	21	14 days
97384901	BNAs	9/19/97	10/10/97	21	14 days
97384903	BNAs	9/19/97	10/10/97	21	14 days
97384904	BNAs	9/19/97	10/10/97	21	14 days
97384905	BNAs	9/19/97	10/10/97	21	14 days
97384906	BNAs	9/19/97	10/10/97	21	14 days
97384907	BNAs	9/19/97	10/10/97	21	14 days
97384908	BNAs	9/19/97	10/10/97	21	14 days
97384913	BNAs	9/19/97	10/10/97	21	14 days
97384915	BNAs	9/19/97	10/10/97	21	14 days
97384916	BNAs	9/19/97	10/10/97	21	14 days
97384917	BNAs	9/19/97	10/10/97	21	14 days
97384919	BNAs	9/20/97	10/10/97	20	14 days
97384921	BNAs	9/20/97	10/10/97	20	14 days
97384922	BNAs	9/20/97	10/10/97	20	14 days
97384924	BNAs	9/20/97	10/10/97	20	14 days
97384925	BNAs	9/20/97	10/10/97	20	14 days

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Sample Number	Fraction	Sampling Date	Extraction Date	No. of Days	Holding Time
97384926	BNAs	9/20/97	10/10/97	20	14 days
97384927	BNAs	9/20/97	10/10/97	20	14 days
97384928	BNAs	9/20/97	10/10/97	20	14 days
97384929	BNAs	9/20/97	10/10/97	20	14 days
97384930	BNAs	9/20/97	10/10/97	20	14 days
97384933	BNAs	9/20/97	10/10/97	20	14 days
97384934	BNAs	9/20/97	10/10/97	20	14 days
97384935	BNAs	9/20/97	10/10/97	20	14 days
97384937	BNAs	9/20/97	10/10/97	20	14 days
97384938	BNAs	9/20/97	10/10/97	20	14 days
97384939	BNAs	9/20/97	10/10/97	20	14 days
97384940	BNAs	9/20/97	10/10/97	20	14 days
97384941	BNAs	9/20/97	10/10/97	20	14 days
97384943	BNAs	9/20/97	10/10/97	20	14 days
97384944	BNAs	9/20/97	10/10/97	20	14 days
97384945	BNAs	9/20/97	10/10/97	20	14 days
97384947	BNAs	9/21/97	10/10/97	19	14 days
97384950	BNAs	9/21/97	10/10/97	19	14 days
97384952	BNAs	9/21/97	10/10/97	19	14 days
97384954	BNAs	9/21/97	10/10/97	19	14 days
97384956	BNAs	9/21/97	10/10/97	19	14 days
97384958	BNAs	9/21/97	10/10/97	19	14 days
97384960	BNAs	9/21/97	10/10/97	19	14 days
97384961	BNAs	9/21/97	11/7/97	47	14 days
97384963	BNAs	9/21/97	10/10/97	19	14 days
97384964	BNAs	9/21/97	10/10/97	19	14 days
97384965	BNAs	9/21/97	10/10/97	19	14 days
97384966	BNAs	9/21/97	10/10/97	19	14 days
97384967	BNAs	9/21/97	10/10/97	19	14 days
97384106	Pest/PCBs	9/19/97	10/10/97	21	14 days
97384913	Pest/PCBs	9/19/97	10/10/97	21	14 days

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Sample Number	Fraction	Sampling Date	Extraction Date	No. of Days	Holding Time
97384915	Pest/PCBs	9/19/97	10/10/97	21	14 days
97384917	Pest/PCBs	9/19/97	10/10/97	21	14 days
97384919	Pest/PCBs	9/20/97	10/10/97	20	14 days
97384922	Pest/PCBs	9/20/97	10/10/97	20	14 days
97384926	Pest/PCBs	9/20/97	10/10/97	20	14 days
97384930	Pest/PCBs	9/20/97	10/10/97	20	14 days
97384941	Pest/PCBs	9/20/97	10/10/97	20	14 days
97384943	Pest/PCBs	9/20/97	10/10/97	20	14 days
97384944	Pest/PCBs	9/20/97	10/10/97	20	14 days
97384945	Pest/PCBs	9/20/97	10/10/97	20	14 days
97384947	Pest/PCBs	9/21/97	10/10/97	19	14 days
97384950	Pest/PCBs	9/21/97	10/24/97	33	14 days

Samples were stored at -18°C upon receipt by the laboratory and thus, according to PSEP protocols, holding times may be extended to one year. No data were qualified.

2. GC/MS Instrument Performance Check

All tuning check compound mass abundances and ratios were within required limits.

3. Initial Calibration

All target compound list (TCL) analytes and system monitoring compounds were within required limits for the initial calibration with average relative response factors $\overline{RRF}$ greater than or equal to 0.05.

All target compound list (TCL) analytes and system monitoring compounds were within required limits for the initial calibration with $\overline{RRF}$ percent relative standard deviations (percent RSD) less than 30 percent except:

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Date	Fraction	Compound	Percent RSD	Associated Samples
2/27/97	BNA	Benzyl alcohol	47.2	97384909, 97384910, 97384911, 97384912, 97384103, 97384104, 97384105, 97384106, 97384108, 97384109, 97384901, 97384903, 97384904, 97384905, 97384906, 97384907, 97384908, 97384913, 97384915, 97384916, 97384901DL, 97384906DL, 97384917, 97384919, 97384921, 97384922, 97384924, 97384925, 97384926, 97384927, 97384928, 97384929, 97384930, 97384934, 97384933, 97384933DL, 97384934DL, 97384941, 97384943, 97384944, 97384945, 97384950, 97384952, 97384937, 97384954, 97384956, 97384958, 97384960, 97384963, 97384964, 97384965, 97384966, 97384967, 97384939, 97384940, 973849639DL, 97384940DL, 97384947, 97384935DL, 973849637DL, 97384938DL
		2,4-Dinitrophenol	52.2	
		Pentachlorophenol	21	
11/7/97	BNA	2,4-Dinitrophenol	38.9	97384941DL, 97384943DL, 97384944DL, 97384945DL, 97384947DL, 97384935, 97384938, 97384961

Results and quantitation limits for compounds associated with the above calibrations and samples have been qualified as estimated (J) as a high RSD is indicative of calibration nonlinearity.

4. Continuing Calibrations

All target compound list (TCL) analytes were within required limits for the continuing calibrations with average relative response factors $\overline{RRF}$ greater than 0.05 except:

Date	Time	Fraction	Compound	$\overline{RRF}$	Associated Samples
10/23/97	11:54	BNA	2,4-Dinitrophenol	0.043	97384105, 97384106, 97384108, 97384109, 97384901, 97384903, 97384904, 97384905, 97384906, 97384907, 97384908, 97384913, 97384915, 97384916
11/10/97	14:55	BNA	2,4-Dinitrophenol	0.034	97384961

Positive results for compounds associated with the above calibrations and samples have been qualified as estimated (J). Quantitation limits for all undetected compounds with $\overline{RRF}$ below 0.05 have been rejected.

All target compound list (TCL) analytes were within required limits for the continuing calibration with $\overline{RRF}$ percent differences less than 25 percent except:

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Date	Fraction	Compound	% Diff	Associated Samples
10/10/97	1115	N-Nitroso-di-n-propylamine	30.8	97384909, 97384910
		Bis(2-Chloroethoxy)methane	34.1	
		4-Chloroaniline	26.4	
		Hexachlorocyclopentadiene	31.2	
		3-Nitroaniline	41.8	
		3,3'-Dichlorobenzidine	37.8	
		Di-n-octylphthalate	35.7	
		Benzo(g,h,i)perylene	-25.9	
10/15/97	1118	Benzyl alcohol	-29.2	97384911, 97384912
		Hexachlorocyclopentadiene	48.6	
		4-Nitroaniline	-50	
		Di-n-butylphthalate	-32	
10/22/97	1223	Benzyl alcohol	-46.6	97384103, 97384104
		2,2'-oxybis(1-chlorpropane)	-35.3	
		Hexachlorocyclopentadiene	72.5	
		2,4-Dinitrophenol	80.6	
		4-Nitrophenol	-49.5	
		Diethylphthalate	-25.8	
		4,6-Dinitro-2-methylphenol	72.1	
		N-Nitrosodiphenylamine	26.1	
		Pentachlorophenol	29.9	
		Carbazole	37.3	
		2,4,6-Tribromophenol (surr)	-39.4	
10/23/97	1154	Bis(2-Chloroethyl)ether	-25.8	97384105, 97384106, 97384108, 97384109, 97384901, 97384903, 97384904, 97384905, 97384906, 97384907, 97384908, 97384913, 97384915, 97384916
		Benzyl alcohol	-52.9	
		2,2'-oxybis(1-Chloropropane)	-33.4	
		4-Chloroaniline	33.8	
		Hexachlorocyclopentadiene	64.4	
		3-Nitroaniline	66.3	
		2,4-Dinitrophenol	56.1	
		4-Nitroaniline	48.4	

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Date	Fraction	Compound	% Diff	Associated Samples
		4,6-Dinitro-2-methylphenol	45.7	
		Pentachlorophenol	36	
		Carbazole	71.5	
10/28/97	1041	Benzyl alcohol	-45.7	97384901DL, 97384906DL, 97384917, 97384919, 97384921, 97384922, 97384924, 97384925, 97384926, 97384927, 97384928, 97384929, 97384930
		2,2′-oxybis(1-Chloropropane)	-34	
		4-Chloroaniline	52.3	
		Hexachlorocyclopentadiene	57.5	
		3-Nitroaniline	68.7	
		4-Nitroaniline	33	
		Pentachlorophenol	38.8	
		Carbazole	63.8	
		3,3′-Dichlorobenzidine	40.9	
10/29/97	1333	Benzyl alcohol	-37.4	97384933, 97384934, 97384933DL, 97384934DL, 97384941, 97384943, 97384944, 97384945, 97384950, 97384952, 97384937
		Hexachlorocyclopentadiene	53.4	
		Pentachlorophenol	35.4	
		Carbazole	29.1	
10/31/97	0026	Bis(2-Chloroethyl)ether	-35.3	97384954, 97384956, 97384958, 97384960, 97384963, 97384964, 97384965, 97384966, 97384967, 97384939, 97384940
		Benzyl alcohol	-37	
		2,2′-oxybis(1-Chloropropane)	-28.8	
		4-Chloroaniline	30.6	
		Hexachlorocyclopentadiene	72.1	
		3-Nitroaniline	63	
		2,4-Dinitrophenol	42.8	
		4-Nitroaniline	58.2	
		N-Nitrosodiphenylamine	52.4	
		Pentachlorophenol	26.5	
		Carbazole	57.5	
		3,3′-Dichlorobenzidine	35.2	
11/3/97	1024	Benzyl alcohol	-42.6	97384939DL, 97384940DL, 97384947, 97384935DL, 97384937DL, 97384938DL
		2,2′-oxybis(1-Chloropropane)	-45.4	
		Benzoic acid	-25.8	

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Date	Fraction	Compound	% Diff	Associated Samples
		4-Chloroaniline	60	
		Hexachlorocyclopentadiene	68.4	
		3-Nitroaniline	79.5	
		4-Nitroaniline	44	
		N-Nitrosodiphenylamine	33	
		Pentachlorophenol	37.4	
		Carbazole	70.7	
		3,3'-Dichlorobenzidine	30	
		Benzo(g,h,i)perylene	-35.2	
11/10/97	1455	Hexachlorocyclopentadiene	25.8	97384961
		2,4-Dinitrophenol	71.4	
		4-Nitroaniline	34	
		4,6-Dinitro-2-methylphenol	53.7	
		bis(2-ethylhexyl)phthalate	-30.5	
		Di-n-octylphthalate	-41.6	

Positive results for compounds associated with the above calibrations and samples have been qualified as estimated (J).

5. Detection Limits—Acceptable

Laboratory reporting limits are less than or equal to project required quantitation limits.

6. Blanks

a. Laboratory Method Blanks

Laboratory method blank frequency criteria were met.

The following compounds were detected in laboratory method blanks.

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Blank ID	Lim No. Date	Compound (Retention Time)	Concentration (µg/kg)	Associated Samples
MB#0	97-17682	1,1,2,2-Tetrachloroethane (6.78)	43	97384909, 97384910, 97384911, 97384912
	10/10/97	Unknown Hydrocarbon (13.85)	43	
		Unknown (22.64)	32	
MB#1	97-17605	Bis(2-Ethylhexyl)phthalate	21	97384103, 97384104, 97384105, 97384106, 97384108, 97384109, 97384901, 97384903, 97384904, 97384905, 97384906, 97384907, 97384908, 97384913, 97384915, 97384916, 97384901DL, 97384906DL, 97384917, 97384919, 97384921, 97384922
	10/22/97	1,1,2,2-Tetrachloroethane (6.79)	50	
		Unknown Hydrocarbon (13.95)	25	
MB#2	97-17585	Bis(2-Ethylhexyl)phthalate	29	97384924, 97384925, 97384926, 97384927, 97384928, 97384929, 97384930, 97384933, 97384934, 97384933DL, 97384934DL, 97384935DL, 97384935
	10/22/97	1,1,2,2-Tetrachloroethane (6.78)	57	
		Unknown Ester (17.22)	24	
		Unknown (23.13)	33	
		Unknown Acid Ester (24.57)	170	
		Unknown (24.91)	170	
		Unknown (26.72)	130	
		Unknown (26.80)	250	
		Unknown (27.54)	360	
MB#3	97-17615	bis(2-Ethylhexyl)phthalate	20	97384941, 97384943, 97384944, 97384945, 97384950, 97384952, 97384937, 97384954, 97384956, 97384958, 97384960, 97384963, 97384964, 97384965, 97384966, 97384967, 97384947, 97384937DL, 97384938DL, 97384941DL, 97384943DL, 97384944DL, 97384945DL, 97384947DL, 97384938
	10/23/97	1,1,2,2-Tetrachloroethane (6.77)	49	
		Unknown Chlorinated Hydrocarbon (7.30)	22	
		Unknown Hydrocarbon (13.90)	28	
		Isopropyl Myristate (17.20)	22	
MB#4	97-17617	1,1,2,2-Tetrachloroethane (8.27)	61	97384939, 97384940, 97384939DL, 97384940DL
	11/3/97	Unknown Hydrocarbon (25.03)	41	
MB#5	97-17630	1,1,2,2-Tetrachloroethane (6.81)	31	97384961
	11/10/97			

Reported levels of the above compounds were qualified as undetected with an adjusted quantitation limit (UJ) in samples if concentrations were less than five

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times concentrations present in the blank (ten times for common laboratory contaminants [e.g., phthalates]).

b. Field Blanks

No field blanks were associated with this SDG.

7. System Monitoring Compounds (Surrogates)

Surrogate compound percent recovery met quality control criteria for all samples except:

Sample	Fraction	Compound	Percent Recovery	QC Limits
97384926	Pest/PCB	Tetrachloro-m-xylene	9.5 %	30 - 150
97384930	Pest/PCB	Tetrachloro-m-xylene	28.2%	30 - 150

Results and quantitation limits for samples listed above were qualified as estimated (J/UJ) if any two semivolatile surrogates were outside the recovery limits. For samples with any surrogate recovery less than 10 percent, positive results were qualified as estimated (J) and quantitation limits for undetected compounds were rejected (R).

8. Matrix Spike and Matrix Spike Duplicate

Matrix spike (MS) or matrix spike duplicate (MSD) percent recovery for the following compounds were outside QC guidelines.

Sample	Fraction	Compound	Percent Recovery	QC Limits
97384925	BNA	Pyrene	19	35-142
LCS (97-17585)	BNA	N-Nitroso-di-n-propylamine	23.8	41-126
		1,2,4-Trichlorobenzene	34.5	38-107
LCS (97-17605)	BNA	N-Nitroso-di-n-propylamine	27.8	41-126
LCS (97-17615)	BNA	N-Nitroso-di-n-propylamine	26.4	41-126
LCS(97-17617)	BNA	N-Nitroso-di-n-propylamine	36.5	41-126
				41-126
LCS (97-17630)	BNA	N-Nitroso-di-n-propylamine	25.8	38-107
		1,2,4-Trichlorobenzene	30.1	

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Sample	Fraction	Compound	Percent Recovery	QC Limits
LCS (97-17682)	BNA	N-Nitroso-di-n-propylamine	36	41-126

Relative percent differences (RPD) between the MS and MSD percent recoveries exceeded QC guidelines for the following compounds:

Sample	Fraction	Compound	RPD	QC Limits
97384925	BNA	Pyrene	86	36
97384952	BNA	Pentachlorophenol	77	47
		Pyrene	44	36

No action was taken based on MS/MSD data since surrogate compound recoveries were acceptable.

9. Field Duplicate Analysis

Samples 97384913/97384915 and 97384941/97384943 were field duplicates. Duplicate results exhibited relative percent differences (RPD) less than 35%, with the exception of the following:

Sample IDs	Analyte	Original	Duplicate	RPD
97384941/97384943	Napthalene	510	280	58.2
	2-Methylnaphthalene	530	240	75.3
	Acenaphthene	11000	5200	71.6
	Dibenzofuran	2600	1500	53.7
	Fluorene	11000	4800	78.5
	Phenanthrene	40000	18000	75.9
	Carbazole	2000	580	110.1
	Anthracene	8000	3500	78.3
	Fluoranthene	19000	9600	65.7
	Pyrene	17000	8400	67.7
	Benzo(a)anthracene	2900	1600	57.8
	Chrysene	3200	1800	56
	Benzo(b)fluoranthene	1100	770	35.3

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Sample IDs	Analyte	Original	Duplicate	RPD
	Benzo(k)fluoranthene	1200	770	43.6
	Benzo(a)pyrene	1400	830	51.1
	Indeno(1,2,3-cd)pyrene	520	290	56.8
	Dibenzo(a,h)anthracene	210	120	54.5
	Benzo(g,h,i)perylene	460	290	45.3

No action was taken since field duplicate results reflect field variability rather than laboratory performance.

10. Internal Standards Performance

Internal standard areas were within requirements of -50 percent to +100 percent of associated calibration internal standard areas. Retention time shifts for internal standards met requirements of less than 30 seconds.

11. GC/ECD Instrument Performance

a. Resolution Check Mixture

The resolution check mixture was analyzed at the proper frequency. Resolution (valley depth) between adjacent peaks was greater than 60 percent of the shorter peak.

b. Performance Evaluation Mixture

i. Frequency

Samples were analyzed at the proper frequency.

ii. Resolution

Resolution was greater than 90 percent for all adjacent peaks.

iii. Retention Time Windows

Retention times of all pesticides were within windows calculated from the initial calibration.

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iv. Pesticide Recovery

Recovery for all single component pesticides and surrogate compounds were within QC limits of 75 to 125 percent for both GC columns.

v. DDT/Endrin Breakdown

The percent breakdown for 4,4'-DDT and Endrin was less than 20 percent for each compound and combined breakdown was less than 30 percent on both GC columns.

12. Pesticide Initial Calibration

a. Individual Standard Mixtures

Resolution between adjacent peaks for the initial calibration, mid level concentration was greater than 90 percent.

Retention time windows were calculated correctly.

Appropriate standards concentrations were used and peak heights of 50 to 100 percent of full scale were obtained.

Calibration factor percent relative standard deviation (%RSD) exceeded QC criteria of 20 percent for pesticides and 30 percent for surrogates listed below:

Date	Time	GC Column	Mix	Analyte	% RSD
10/21/97	15:33	DB-5	B	Endrin Ketone	-95
10/22/97	18:35	DB-5	B	delta-BHC	45
				Endosulfan Sulfate	43
				Endrin Ketone	43
10/22/97	18:35	DB-608	B	delta-BHC	60
				Endosulfan Sulfate	50
				Endrin Ketone	43

Results and quantitation limits for analytes listed above have been qualified as estimated (J).

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13. Pesticide Calibration Verification

Instrument blanks and PEM samples were analyzed at the proper frequency.

Resolution between adjacent peaks in individual pesticide mixtures exceeded 90 percent.

Pesticide standard peaks actual and calculated concentrations of individual pesticides was within QC criteria of ±25 percent.

The difference between actual and calculated concentrations of individual pesticides was within QC criteria of ±25 percent.

14. Pesticide Cleanup Checks

a. Florisil Cartridge Cleanup

Recovery for mixture A pesticides and surrogates were within QC limits of 80 to 120 percent. Recovery of 2,4,5-trichlorophenol was less than 5 percent as required.

b. Gel Permeation Cleanup (GPC)

All pesticides in the matrix spiking solution met recovery limits of 80 to 110 percent. Aroclor-1016 and 1260 patterns matched those of standards.

GPC blank concentrations did not exceed one-half the quantitation limit for any target analytes.

15. Sample Analysis

The following sample results exhibited greater than 35 percent difference between the primary and confirmation columns for pesticide analysis.

Sample ID	Analyte	DB-5	DB-608	% D
97384913	4,4'-DDD	5	3.1	61.3
	4,4'-DDT	12	7.2	66.7
97384915	4,4'-DDD	4.2	3	40
	4,4'-DDT	5	3.2	56.2

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Sample ID	Analyte	DB-5	DB-608	% D
97384917	4,4'-DDD	3.6	2.6	38.5
	4,4'-DDT	5.5	3.9	41
97384919	4,4'-DDD	6.4	4.2	52.4
	4,4'-DDT	19	11	72.7
97384922	4,4'-DDD	2.7	1.7	58.8
97384926	4,4'-DDD	11	4.8	129.2
	Aroclor-1254	55	29	90
97384930	4,4'-DDE	6.8	4.8	41.7
97384941	4,4'-DDD	33	11	200
	4,4'-DDT	67	27	148.1
	Aroclor-1254	48	120	150
97384943	4,4'-DDD	34	14	142.9
	4,4'-DDT	52	24	116.7
97384944	4,4'-DDE	9.2	5.3	73.6
	4,4'-DDD	37	22	68.2
	4,4'-DDT	76	40	90
97384945	4,4'-DDE	26	13	100
	4,4'-DDD	120	48	150
	4,4'-DDT	110	41	168.3
97384950 DL	4,4'-DDD	148	100	47.6
97384961	Aroclor-1254	200	140	43
97384930 DL	4,4'-DDD	45	99	120
97384944 DL	4,4'-DDD	32	47	46.9

Differences can arise from analytical interferences on one column however, the percent differences are not deemed significant at the reported concentrations. The lower concentration was reported for each analyte.

16. Laboratory Contact

No laboratory contact was required.

Data Assessment

Upon consideration of the data qualifications noted above, the data are ACCEPTABLE for use except where flagged with data qualifiers that modify the usefulness of the individual values.

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Data Qualifiers

U - The compound was analyzed for, but was not detected.

UJ - The compound was analyzed for, but was not detected. The associated quantitation limit is an estimate because quality control criteria were not met.

J - The analyte was positively identified, but the associated numerical value is an estimated quantity because quality control criteria were not met or because concentrations reported are less than the quantitation limit or lowest calibration standard.

R - Quality control indicates that data are unusable (compound may or may not be present). Resampling and reanalysis are necessary for verification.

N - Presumptive evidence of presence of material (tentative identification).

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914A
LIMS ID: 97-17585
Matrix: Sediment
Data Release Authorized: [illegible]
Reported: 11/13/97

Sample No: 9738 4103
WR-SD-SD036-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/22/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 45.7%
pH: 6.8

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	**4-Methylphenol**	**450**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	97 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**30**
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	**2-Methylnaphthalene**	**26**
77-47-4	Hexachlorocyclopentadiene	97 U J
88-06-2	2,4,6-Trichlorophenol	97 U
95-95-4	2,4,5-Trichlorophenol	97 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	97 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**81**
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	97 U J
132-64-9	**Dibenzofuran**	**52**
606-20-2	2,6-Dinitrotoluene	97 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914A
LIMS ID: 97-17585
Matrix: Sediment
Data Release Authorized: DWB
Reported: 11/13/97

Sample No: 9738 4103
WR-SD-SD036-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/22/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 45.7%
pH: 6.8

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	97 U
84-66-2	Diethylphthalate	19 U J
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**82**
100-01-6	4-Nitroaniline	97 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U J
86-30-6	N-Nitrosodiphenylamine	19 U J
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	97 U J
85-01-8	**Phenanthrene**	**540**
86-74-8	**Carbazole**	**31 J**
120-12-7	**Anthracene**	**61**
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**560**
129-00-0	**Pyrene**	**470**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	97 U
56-55-3	**Benzo(a)anthracene**	**160**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**150** ~~J~~ U ~~J~~
218-01-9	**Chrysene**	**190**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**120**
207-08-9	**Benzo(k)fluoranthene**	**150**
50-32-8	**Benzo(a)pyrene**	**140**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**75**
53-70-3	**Dibenz(a,h)anthracene**	**26**
191-24-2	**Benzo(g,h,i)perylene**	**83**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	39.0%	d5-Phenol	49.7%
2-Fluorobiphenyl	50.1%	2-Fluorophenol	44.0%
d14-p-Terphenyl	68.1%	2,4,6-Tribromophenol	71.0%
d4-1,2-Dichlorobenzene	31.7%	d4-2-Chlorophenol	42.8%

FORM-1

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ANALYTICAL
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ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4103
WR-SD-SD036-0000

Lab Sample ID: T914A
LIMS ID: 97-17585
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/19/97
Date Received: 09/24/97

Data Release Authorized: BWB
Reported: 11/13/97

Date Analyzed: 10/22/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid_____	6.47	SVOA	450 J N
2.	--	Unknown_Organic_Acid_____	11.63	SVOA	560 J N
3.	--	Unknown_____	17.40	SVOA	440 J N
4.	--	Unknown_Alcohol_____	17.75	SVOA	530 J N
5.	--	Unknown_Aromatic_____	18.39	SVOA	840 J N
6.	--	Unknown_Organic_Acid_____	18.49	SVOA	400 J N
7.	--	Unknown_Aromatic_____	20.69	SVOA	300 J N
8.	--	Unknown_Alcohol_____	24.76	SVOA	320 J N
9.	--	Unknown_Aldehyde_____	25.52	SVOA	290 J N
10.	--	Unknown_Aromatic_____	26.05	SVOA	320 J N
11.	--	Unknown_Sterol_type_____	26.28	SVOA	750 J N
12.	--	Unknown_Sterol_type_____	26.55	SVOA	430 J N
13.	--	Unknown_Sterol_type_____	27.02	SVOA	360 J N
14.	--	Unknown_Sterol_type_____	27.43	SVOA	1,400 J N
15.	--	Unknown_____	27.49	SVOA	370 J N
16.	--	Unknown_Aromatic_____	27.58	SVOA	440 J N
17.	--	Unknown_____	27.76	SVOA	690 J N
18.	--	Unknown_Aromatic_____	27.89	SVOA	960 J N
19.	--	Unknown_Aromatic_____	28.05	SVOA	470 J N
20.	--	Unknown_Sterol_type_____	28.34	SVOA	510 J N

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FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914B
LIMS ID: 97-17586
Matrix: Sediment
Data Release Authorized: CMB
Reported: 11/13/97

Sample No: 9738 4104
WR-SD-SD040-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/22/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 45.7%
pH: 6.6

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	**4-Methylphenol**	**640**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	97 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	Naphthalene	19 U
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	97 U J
88-06-2	2,4,6-Trichlorophenol	97 U
95-95-4	2,4,5-Trichlorophenol	97 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	97 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**30**
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	97 U J
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	97 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914B
LIMS ID: 97-17586
Matrix: Sediment
Data Release Authorized: ONP
Reported: 11/13/97

Sample No: 9738 4104
WR-SD-SD040-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/22/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 45.7%
pH: 6.6

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	97 U
84-66-2	Diethylphthalate	19 U J
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**25**
100-01-6	4-Nitroaniline	97 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U J
86-30-6	N-Nitrosodiphenylamine	19 U J
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	97 U J
85-01-8	**Phenanthrene**	**200**
86-74-8	**Carbazole**	**39 J**
120-12-7	**Anthracene**	**29**
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**310**
129-00-0	**Pyrene**	**310**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	97 U
56-55-3	**Benzo(a)anthracene**	**160**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**190 ~~B~~U**
218-01-9	**Chrysene**	**220**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**190**
207-08-9	**Benzo(k)fluoranthene**	**190**
50-32-8	**Benzo(a)pyrene**	**220**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**120**
53-70-3	**Dibenz(a,h)anthracene**	**51**
191-24-2	**Benzo(g,h,i)perylene**	**140**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	57.6%	d5-Phenol	62.1%
2-Fluorobiphenyl	59.6%	2-Fluorophenol	61.4%
d14-p-Terphenyl	65.6%	2,4,6-Tribromophenol	70.3%
d4-1,2-Dichlorobenzene	49.5%	d4-2-Chlorophenol	58.8%

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4104
WR-SD-SD040-0000

Lab Sample ID: T914B
LIMS ID: 97-17586
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/19/97
Date Received: 09/24/97

Data Release Authorized: BWB
Reported: 11/13/97

Date Analyzed: 10/22/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid	6.55	SVOA	540 J N
2.	--	Unknown_Organic_Acid	11.65	SVOA	740 J N
3.	--	Unknown_Organic_Acid	16.74	SVOA	370 J N
4.	--	Unknown_Organic_Acid	17.40	SVOA	470 J N
5.	--	Unknown_Alcohol	17.58	SVOA	490 J N
6.	--	Unknown_Ketone	18.34	SVOA	400 J N
7.	--	Unknown_Organic_Acid	18.51	SVOA	400 J N
8.	--	Unknown_Aldehyde	24.39	SVOA	680 J N
9.	--	Unknown	24.76	SVOA	300 J N
10.	--	Unknown_Aromatic	26.05	SVOA	310 J N
11.	--	Unknown_Sterol_type	26.28	SVOA	770 J N
12.	--	Unknown_Aromatic	26.55	SVOA	420 J N
13.	--	Unknown_Sterol_type	27.03	SVOA	440 J N
14.	--	Unknown_Sterol_type	27.43	SVOA	1,000 J N
15.	--	Unknown	27.49	SVOA	500 J N
16.	--	Unknown_Aromatic	27.59	SVOA	400 J N
17.	--	Unknown	27.76	SVOA	650 J N
18.	--	Unknown	27.89	SVOA	830 J N
19.	--	Unknown_Aromatic	28.07	SVOA	410 J N
20.	--	Unknown_Sterol_type	28.34	SVOA	470 J N

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914C
LIMS ID: 97-17587
Matrix: Sediment
Data Release Authorized: BNB
Reported: 11/13/97

Sample No: 9738 4105
WR-SD- SD042-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/23/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 49.1%
pH: 6.6

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U J
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U J
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U J
106-44-5	**4-Methylphenol**	**680**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	98 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**36**
106-47-8	4-Chloroaniline	59 U J
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	98 U J
88-06-2	2,4,6-Trichlorophenol	98 U
95-95-4	2,4,5-Trichlorophenol	98 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	98 U
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U J
83-32-9	Acenaphthene	20 U
51-28-5	2,4-Dinitrophenol	200 ~~U J~~ R
100-02-7	4-Nitrophenol	98 U
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	98 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914C
LIMS ID: 97-17587
Matrix: Sediment
Data Release Authorized: EWR
Reported: 11/13/97

Sample No: 9738 4105
WR-SD-SD042-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/23/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 49.1%
pH: 6.6

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	98 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	Fluorene	20 U
100-01-6	4-Nitroaniline	98 U J
534-52-1	4,6-Dinitro-2-Methylphenol	200 U J
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	98 U J
85-01-8	**Phenanthrene**	**79**
86-74-8	**Carbazole**	**28 J**
120-12-7	Anthracene	20 U
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**140**
129-00-0	**Pyrene**	**140**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	98 U
56-55-3	**Benzo(a)anthracene**	**64**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**130 ~~J~~ U**
218-01-9	**Chrysene**	**97**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**75**
207-08-9	**Benzo(k)fluoranthene**	**75**
50-32-8	**Benzo(a)pyrene**	**81**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**48**
53-70-3	**Dibenz(a,h)anthracene**	**21**
191-24-2	**Benzo(g,h,i)perylene**	**57**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	57.0%	d5-Phenol	63.0%
2-Fluorobiphenyl	63.0%	2-Fluorophenol	63.3%
d14-p-Terphenyl	69.5%	2,4,6-Tribromophenol	74.0%
d4-1,2-Dichlorobenzene	48.4%	d4-2-Chlorophenol	58.7%

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4105
WR-SD- SD042-0000

Lab Sample ID: T914C
LIMS ID: 97-17587
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/19/97
Date Received: 09/24/97

Data Release Authorized: BMP
Reported: 11/13/97

Date Analyzed: 10/23/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid_____	6.64	SVOA	530 J N
2.	--	Unknown_Organic_Acid_____	6.86	SVOA	200 J N
3.	--	Unknown_Organic_Acid_____	11.63	SVOA	710 J N
4.	--	Unknown_____	17.38	SVOA	450 J N
5.	--	Unknown_Ketone_____	18.33	SVOA	430 J N
6.	--	Unknown_Organic_Acid_____	18.48	SVOA	350 J N
7.	--	Unknown_Aromatic_____	20.67	SVOA	310 J N
8.	--	Unknown_Aromatic_____	26.01	SVOA	320 J N
9.	--	Unknown_Sterol_type_____	26.24	SVOA	460 J N
10.	--	Unknown_Sterol_type_____	26.31	SVOA	280 J N
11.	--	Unknown_Sterol_type_____	26.52	SVOA	290 J N
12.	--	Unknown_Sterol_type_____	26.99	SVOA	260 J N
13.	--	Unknown_Sterol_type_____	27.41	SVOA	1,300 J N
14.	--	Unknown_Sterol_type_____	27.47	SVOA	420 J N
15.	--	Unknown_Aromatic_____	27.55	SVOA	640 J N
16.	--	Unknown_____	27.61	SVOA	320 J N
17.	--	Unknown_____	27.74	SVOA	640 J N
18.	--	Unknown_____	27.87	SVOA	730 J N
19.	--	Unknown_Sterol_type_____	28.03	SVOA	360 J N
20.	--	Unknown_Sterol_type_____	28.30	SVOA	410 J N

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914D
LIMS ID: 97-17588
Matrix: Sediment
Data Release Authorized: BWB
Reported: 11/13/97

Sample No: 9738 4106
WR-SD-SD049-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/23/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 45.6%
pH: 6.8

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U J
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	**4-Methylphenol**	**460**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	97 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**62**
106-47-8	4-Chloroaniline	58 U J
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	**2-Methylnaphthalene**	**47**
77-47-4	Hexachlorocyclopentadiene	97 U J
88-06-2	2,4,6-Trichlorophenol	97 U
95-95-4	2,4,5-Trichlorophenol	97 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	97 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U J
83-32-9	**Acenaphthene**	**80**
51-28-5	2,4-Dinitrophenol	190 ~~U~~ R
100-02-7	4-Nitrophenol	97 U
132-64-9	**Dibenzofuran**	**54**
606-20-2	2,6-Dinitrotoluene	97 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914D
LIMS ID: 97-17588
Matrix: Sediment
Data Release Authorized: BMB
Reported: 11/13/97

Sample No: 9738 4106
WR-SD-SD049-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/23/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 45.6%
pH: 6.8

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	97 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**74**
100-01-6	4-Nitroaniline	97 U J
534-52-1	4,6-Dinitro-2-Methylphenol	190 U J
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	97 ~~J~~ UJ
85-01-8	**Phenanthrene**	**420**
86-74-8	**Carbazole**	**61 J**
120-12-7	**Anthracene**	**54**
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**560**
129-00-0	**Pyrene**	**380**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	97 U
56-55-3	**Benzo(a)anthracene**	**140**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**110 ~~J~~ U**
218-01-9	**Chrysene**	**160**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**130**
207-08-9	**Benzo(k)fluoranthene**	**93**
50-32-8	**Benzo(a)pyrene**	**120**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**58**
53-70-3	**Dibenz(a,h)anthracene**	**23**
191-24-2	**Benzo(g,h,i)perylene**	**67**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	51.9%	d5-Phenol	57.4%
2-Fluorobiphenyl	55.0%	2-Fluorophenol	58.8%
d14-p-Terphenyl	67.4%	2,4,6-Tribromophenol	79.2%
d4-1,2-Dichlorobenzene	43.2%	d4-2-Chlorophenol	53.5%

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4106
WR-SD-SD049-0000

Lab Sample ID: T914D
LIMS ID: 97-17588
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/19/97
Date Received: 09/24/97

Data Release Authorized: DKB
Reported: 11/13/97

Date Analyzed: 10/23/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid	6.60	SVOA	490 J N
2.	--	Unknown_Organic_Acid	11.63	SVOA	650 J N
3.	--	Unknown_Organic_Acid	16.70	SVOA	220 J N
4.	--	Unknown	17.37	SVOA	330 J N
5.	--	Unknown_Alcohol	17.72	SVOA	250 J N
6.	--	Unknown_Aromatic	18.36	SVOA	520 J N
7.	--	Unknown_Organic_Acid	18.48	SVOA	300 J N
8.	--	Unknown_Aromatic	20.67	SVOA	570 J N
9.	--	Unknown_Aromatic	23.42	SVOA	460 J N
10.	--	Unknown_Sterol_type	24.73	SVOA	480 J N
11.	--	Unknown_Sterol_type	26.02	SVOA	560 J N
12.	--	Unknown_Sterol_type	26.24	SVOA	810 J N
13.	--	Unknown_Sterol_type	27.40	SVOA	2,400 J N
14.	--	Unknown	27.47	SVOA	1,300 J N
15.	--	Unknown	27.55	SVOA	1,300 J N
16.	--	Unknown	27.61	SVOA	900 J N
17.	--	Unknown_Aromatic	27.74	SVOA	1,500 J N
18.	--	Unknown_Aromatic	27.86	SVOA	1,500 J N
19.	--	Unknown_Sterol_type	28.03	SVOA	760 J N
20.	--	Unknown_Sterol_type	28.30	SVOA	740 J N

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FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914E
LIMS ID: 97-17589
Matrix: Sediment
Data Release Authorized: [illegible]
Reported: 11/13/97

Sample No: 9738 4108
WR-SD-SD051-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/23/97
Instrument: ntl
GPC Cleanup: YES

Sample Amount: 51.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 46.1%
pH: 7.4

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U J
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	**4-Methylphenol**	**1,000**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	97 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**360**
106-47-8	4-Chloroaniline	58 U J
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	**2-Methylnaphthalene**	**530**
77-47-4	Hexachlorocyclopentadiene	97 U J
88-06-2	2,4,6-Trichlorophenol	97 U
95-95-4	2,4,5-Trichlorophenol	97 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	97 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U J
83-32-9	**Acenaphthene**	**760**
51-28-5	2,4-Dinitrophenol	190 ~~U~~ R
100-02-7	4-Nitrophenol	97 U
132-64-9	**Dibenzofuran**	**290**
606-20-2	2,6-Dinitrotoluene	97 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914E
LIMS ID: 97-17589
Matrix: Sediment
Data Release Authorized: AMB
Reported: 11/13/97

Sample No: 9738 4108
WR-SD-SD051-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/23/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 46.1%
pH: 7.4

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	97 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	Fluorene	380
100-01-6	4-Nitroaniline	97 U J
534-52-1	4,6-Dinitro-2-Methylphenol	190 U J
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	97 U J
85-01-8	Phenanthrene	1,200
86-74-8	Carbazole	650 J
120-12-7	Anthracene	150
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	Fluoranthene	1,300
129-00-0	Pyrene	900
85-68-7	Butylbenzylphthalate	37
91-94-1	3,3'-Dichlorobenzidine	97 U
56-55-3	Benzo(a)anthracene	380
117-81-7	bis(2-Ethylhexyl)phthalate	220 ~~J~~
218-01-9	Chrysene	470
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	Benzo(b)fluoranthene	370
207-08-9	Benzo(k)fluoranthene	340
50-32-8	Benzo(a)pyrene	390
193-39-5	Indeno(1,2,3-cd)pyrene	220
53-70-3	Dibenz(a,h)anthracene	73
191-24-2	Benzo(g,h,i)perylene	250

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	62.7%	d5-Phenol	66.7%
2-Fluorobiphenyl	65.1%	2-Fluorophenol	68.7%
d14-p-Terphenyl	68.8%	2,4,6-Tribromophenol	82.9%
d4-1,2-Dichlorobenzene	53.5%	d4-2-Chlorophenol	63.2%

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4108
WR-SD-SD051-0000

Lab Sample ID: T914E
LIMS ID: 97-17589
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/19/97
Date Received: 09/24/97

Data Release Authorized: [illegible]
Reported: 11/13/97

Date Analyzed: 10/23/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid	6.74	SVOA	820 JN
2.	--	Unknown_Organic_Acid	6.94	SVOA	210 JN
3.	--	Unknown_Organic_Acid	11.67	SVOA	880 JN
4.	--	Unknown_PNA	18.15	SVOA	230 JN
5.	--	Unknown_Aromatic	18.37	SVOA	950 JN
6.	--	Unknown_Organic_Acid	18.49	SVOA	480 JN
7.	--	Unknown	19.12	SVOA	730 JN
8.	--	Unknown	19.28	SVOA	300 JN
9.	19407-28-4	Phenanthrene,_1,2,3,4,4a,	19.42	SVOA	620 JN
10.	--	Unknown	19.78	SVOA	1,400 JN
11.	--	Unknown_PCB	20.51	SVOA	210 JN
12.	--	Unknown_Aromatic	20.75	SVOA	2,200 JN
13.	--	Unknown_Acid_Ester	22.91	SVOA	400 JN
14.	--	Unknown_Aromatic	25.99	SVOA	270 JN
15.	--	Unknown_Sterol_type	26.26	SVOA	470 JN
16.	--	Unknown_Sterol_type	27.43	SVOA	1,500 JN
17.	--	Unknown	27.77	SVOA	640 JN
18.	--	Unknown	27.89	SVOA	790 JN
19.	--	Unknown	28.05	SVOA	280 JN
20.	--	Unknown_Sterol_type	28.33	SVOA	710 JN

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914F
LIMS ID: 97-17590
Matrix: Sediment
Data Release Authorized: BR
Reported: 11/13/97

Sample No: 9738 4109
WR-SD- SD053-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/23/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 37.2%
pH: 7.0

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	40 U J
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U J
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U J
106-44-5	**4-Methylphenol**	**350**
621-64-7	N-Nitroso-Di-N-Propylamine	40 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	99 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	60 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**210**
106-47-8	4-Chloroaniline	60 U J
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	40 U
91-57-6	**2-Methylnaphthalene**	**67**
77-47-4	Hexachlorocyclopentadiene	99 U J
88-06-2	2,4,6-Trichlorophenol	99 U
95-95-4	2,4,5-Trichlorophenol	99 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	99 U
131-11-3	Dimethylphthalate	20 U
208-96-8	**Acenaphthylene**	**20 J**
99-09-2	3-Nitroaniline	120 U J
83-32-9	**Acenaphthene**	**85**
51-28-5	2,4-Dinitrophenol	200 ~~U~~ R
100-02-7	4-Nitrophenol	99 U
132-64-9	**Dibenzofuran**	**57**
606-20-2	2,6-Dinitrotoluene	99 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914F
LIMS ID: 97-17590
Matrix: Sediment
Data Release Authorized: ANP
Reported: 11/13/97

Sample No: 9738 4109
WR-SD-SD053-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/23/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 37.2%
pH: 7.0

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	99 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	**Fluorene**	**83**
100-01-6	4-Nitroaniline	99 U J
534-52-1	4,6-Dinitro-2-Methylphenol	200 U J
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	99 U J
85-01-8	**Phenanthrene**	**520**
86-74-8	**Carbazole**	**130 J**
120-12-7	**Anthracene**	**96**
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**800**
129-00-0	**Pyrene**	**710**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	99 U
56-55-3	**Benzo(a)anthracene**	**300**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**120 ~~B~~ U**
218-01-9	**Chrysene**	**390**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**320**
207-08-9	**Benzo(k)fluoranthene**	**300**
50-32-8	**Benzo(a)pyrene**	**390**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**210**
53-70-3	**Dibenz(a,h)anthracene**	**80**
191-24-2	**Benzo(g,h,i)perylene**	**240**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	55.7%	d5-Phenol	62.3%
2-Fluorobiphenyl	61.2%	2-Fluorophenol	61.4%
d14-p-Terphenyl	66.5%	2,4,6-Tribromophenol	82.9%
d4-1,2-Dichlorobenzene	46.4%	d4-2-Chlorophenol	57.4%

FORM-1

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4109
WR-SD-SD053-0000

Lab Sample ID: T914F
LIMS ID: 97-17590
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/19/97
Date Received: 09/24/97

Data Release Authorized: OVB
Reported: 11/13/97

Date Analyzed: 10/23/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid_____	11.58	SVOA	270 J N
2.	--	Unknown_Organic_Acid_____	16.70	SVOA	190 J N
3.	--	Unknown_C15.H12_PNA_____	18.14	SVOA	160 J N
4.	--	Unknown_C15.H12_PNA_____	18.27	SVOA	170 J N
5.	--	Unknown_Aromatic_____	18.37	SVOA	190 J N
6.	--	Unknown_____	19.10	SVOA	160 J N
7.	--	Unknown_C16.H14_PNA_____	19.29	SVOA	240 J N
8.	--	Unknown_Aromatic_____	19.75	SVOA	340 J N
9.	--	Unknown_Aromatic_____	20.70	SVOA	1,300 J N
10.	--	Unknown_Aldehyde_____	24.37	SVOA	220 J N
11.	--	Unknown_Aromatic_____	26.02	SVOA	240 J N
12.	--	Unknown_Sterol_type_____	26.25	SVOA	290 J N
13.	--	Unknown_Sterol_type_____	26.54	SVOA	160 J N
14.	--	Unknown_Sterol_type_____	27.40	SVOA	1,000 J N
15.	--	Unknown_____	27.47	SVOA	260 J N
16.	--	Unknown_Aromatic_____	27.56	SVOA	260 J N
17.	--	Unknown_____	27.74	SVOA	450 J N
18.	--	Unknown_Sterol_type_____	27.87	SVOA	520 J N
19.	--	Unknown_Aromatic_____	28.03	SVOA	250 J N
20.	--	Unknown_Sterol_type_____	28.31	SVOA	300 J N

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FORM-1-B

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914G
LIMS ID: 97-17591
Matrix: Sediment
Data Release Authorized: BWB
Reported: 11/13/97

Sample No: 9738 4901
WR-SD-SD056-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/23/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 53.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 41.3%
pH: 7.0

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U J
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	**4-Methylphenol**	**530**
621-64-7	N-Nitroso-Di-N-Propylamine	38 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	94 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	57 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**680**
106-47-8	4-Chloroaniline	57 U J
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	**2-Methylnaphthalene**	**240**
77-47-4	Hexachlorocyclopentadiene	94 U J
88-06-2	2,4,6-Trichlorophenol	94 U
95-95-4	2,4,5-Trichlorophenol	94 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	94 U
131-11-3	**Dimethylphthalate**	**36**
208-96-8	**Acenaphthylene**	**110**
99-09-2	3-Nitroaniline	110 U J
83-32-9	**Acenaphthene**	**340**
51-28-5	2,4-Dinitrophenol	190 ~~U~~ R
100-02-7	4-Nitrophenol	94 U
132-64-9	**Dibenzofuran**	**220**
606-20-2	2,6-Dinitrotoluene	94 U

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FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914G
LIMS ID: 97-17591
Matrix: Sediment
Data Release Authorized:
Reported: 11/13/97

Sample No: 9738 4901
WR-SD-SD056-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/23/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 53.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 41.3%
pH: 7.0

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	94 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	Fluorene	410
100-01-6	4-Nitroaniline	94 U J
534-52-1	4,6-Dinitro-2-Methylphenol	190 U J
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	88 J
85-01-8	Phenanthrene	2,200 ~~E~~ D
86-74-8	Carbazole	610 J
120-12-7	Anthracene	680
84-74-2	Di-n-Butylphthalate	21
206-44-0	Fluoranthene	~~3,400 E~~ 3900 D
129-00-0	Pyrene	~~3,500 E~~ 3900 D
85-68-7	Butylbenzylphthalate	30
91-94-1	3,3'-Dichlorobenzidine	94 U
56-55-3	Benzo(a)anthracene	1,400
117-81-7	bis(2-Ethylhexyl)phthalate	430 ~~B~~
218-01-9	Chrysene	~~1,800 E~~ 1700 D
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	Benzo(b)fluoranthene	~~1,700 E~~ 1000 D
207-08-9	Benzo(k)fluoranthene	1,000
50-32-8	Benzo(a)pyrene	~~1,800 E~~ 1700 D
193-39-5	Indeno(1,2,3-cd)pyrene	1,100
53-70-3	Dibenz(a,h)anthracene	300
191-24-2	Benzo(g,h,i)perylene	1,300

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	65.7%	d5-Phenol	70.0%
2-Fluorobiphenyl	68.2%	2-Fluorophenol	71.8%
d14-p-Terphenyl	76.0%	2,4,6-Tribromophenol	88.3%
d4-1,2-Dichlorobenzene	56.0%	d4-2-Chlorophenol	66.9%

FORM-1

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4901
WR-SD-SD056-0000

Lab Sample ID: T914G
LIMS ID: 97-17591
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/19/97
Date Received: 09/24/97

Data Release Authorized: AWP
Reported: 11/13/97

Date Analyzed: 10/23/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid	6.55	SVOA	690 JN
2.	--	Unknown_Organic_Acid	11.61	SVOA	530 JN
3.	--	Unknown_C15.H12_PNA	18.16	SVOA	240 JN
4.	--	Unknown_C15.H12_PNA	18.22	SVOA	360 JN
5.	--	Unknown_Aromatic	18.40	SVOA	710 JN
6.	--	Unknown_C16.H12_PNA	18.78	SVOA	240 JN
7.	--	Unknown	19.87	SVOA	270 JN
8.	--	Unknown_PNA	20.52	SVOA	290 JN
9.	--	Unknown_Aromatic	20.73	SVOA	1,100 JN
10.	--	Unknown_C17.H12_PNA	20.89	SVOA	320 JN
11.	--	Unknown_C17.H12_PNA	20.94	SVOA	440 JN
12.	--	Unknown_PNA	22.04	SVOA	380 JN
13.	--	Unknown_C20.H12_PNA	24.99	SVOA	290 JN
14.	--	Unknown_Sterol_type	26.00	SVOA	290 JN
15.	--	Unknown_Sterol_type	26.28	SVOA	400 JN
16.	--	Unknown_Sterol_type	27.44	SVOA	1,200 JN
17.	--	Unknown	27.78	SVOA	460 JN
18.	--	Unknown	27.89	SVOA	770 JN
19.	--	Unknown_Aromatic	28.07	SVOA	500 JN
20.	--	Unknown_Sterol_type	28.35	SVOA	780 JN

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FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914G
LIMS ID: 97-17591
Matrix: Sediment
Data Release Authorized: AWR
Reported: 11/13/97

Sample No: 9738 4901
DILUTION
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/28/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 53.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:10
Percent Moisture: 41.3%
pH: 7.0

CAS Number	Analyte	ug/kg
108-95-2	Phenol	190 U
111-44-4	Bis-(2-Chloroethyl) Ether	380 U
95-57-8	2-Chlorophenol	190 U
541-73-1	1,3-Dichlorobenzene	190 U
106-46-7	1,4-Dichlorobenzene	190 U
100-51-6	Benzyl Alcohol	190 U J
95-50-1	1,2-Dichlorobenzene	190 U
95-48-7	2-Methylphenol	190 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	190 U J
106-44-5	**4-Methylphenol**	**400**
621-64-7	N-Nitroso-Di-N-Propylamine	380 U
67-72-1	Hexachloroethane	190 U
98-95-3	Nitrobenzene	190 U
78-59-1	Isophorone	190 U
88-75-5	2-Nitrophenol	940 U
105-67-9	2,4-Dimethylphenol	190 U
65-85-0	Benzoic Acid	1,900 U
111-91-1	bis(2-Chloroethoxy) Methane	190 U
120-83-2	2,4-Dichlorophenol	570 U
120-82-1	1,2,4-Trichlorobenzene	190 U
91-20-3	**Naphthalene**	**560**
106-47-8	4-Chloroaniline	570 U J
87-68-3	Hexachlorobutadiene	190 U
59-50-7	4-Chloro-3-methylphenol	380 U
91-57-6	**2-Methylnaphthalene**	**200**
77-47-4	Hexachlorocyclopentadiene	940 U J
88-06-2	2,4,6-Trichlorophenol	940 U
95-95-4	2,4,5-Trichlorophenol	940 U
91-58-7	2-Chloronaphthalene	190 U
88-74-4	2-Nitroaniline	940 U
131-11-3	Dimethylphthalate	190 U
208-96-8	Acenaphthylene	190 U
99-09-2	3-Nitroaniline	1,100 U J
83-32-9	**Acenaphthene**	**310**
51-28-5	2,4-Dinitrophenol	1,900 U J
100-02-7	4-Nitrophenol	940 U
132-64-9	**Dibenzofuran**	**200**
606-20-2	2,6-Dinitrotoluene	940 U

FORM-1

JMT 1/22/

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914G
LIMS ID: 97-17591
Matrix: Sediment
Data Release Authorized: BNB
Reported: 11/13/97

Sample No: 9738 4901
DILUTION
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/28/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:10
Percent Moisture: 41.3%
pH: 7.0

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	940 U
84-66-2	Diethylphthalate	190 U
7005-72-3	4-Chlorophenyl-phenylether	190 U
86-73-7	**Fluorene**	**330**
100-01-6	4-Nitroaniline	940 U J
534-52-1	4,6-Dinitro-2-Methylphenol	1,900 U
86-30-6	N-Nitrosodiphenylamine	190 U
101-55-3	4-Bromophenyl-phenylether	190 U
118-74-1	Hexachlorobenzene	190 U
87-86-5	Pentachlorophenol	940 U J
85-01-8	**Phenanthrene**	**2,200**
86-74-8	**Carbazole**	**390 J**
120-12-7	**Anthracene**	**580**
84-74-2	Di-n-Butylphthalate	190 U
206-44-0	**Fluoranthene**	**3,900**
129-00-0	**Pyrene**	**3,900**
85-68-7	Butylbenzylphthalate	190 U
91-94-1	3,3'-Dichlorobenzidine	940 U J
56-55-3	**Benzo(a)anthracene**	**1,400**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**360 ~~B~~ U**
218-01-9	**Chrysene**	**1,700**
117-84-0	Di-n-Octyl phthalate	190 U
205-99-2	**Benzo(b)fluoranthene**	**1,000**
207-08-9	**Benzo(k)fluoranthene**	**1,400**
50-32-8	**Benzo(a)pyrene**	**1,700**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**1,000**
53-70-3	**Dibenz(a,h)anthracene**	**300**
191-24-2	**Benzo(g,h,i)perylene**	**1,300**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	54.8%	d5-Phenol	60.3%
2-Fluorobiphenyl	58.8%	2-Fluorophenol	62.4%
d14-p-Terphenyl	60.0%	2,4,6-Tribromophenol	60.8%
d4-1,2-Dichlorobenzene	52.0%	d4-2-Chlorophenol	57.9%

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

	Sample No:	**9738 4901**
		DILUTION
Lab Sample ID: T914G	QC Report No:	T914-Roy F. Weston
LIMS ID: 97-17591	Project:	
Matrix: Sediment		1001.006
	Date Sampled:	09/19/97
	Date Received:	09/24/97

Data Release Authorized: 11/13
Reported: 11/13/97

Date Analyzed: 10/28/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	---	Unknown_Aromatic	18.72	SVOA	800 J N
2.	---	Unknown	19.18	SVOA	850 J
3.	---	Unknown_Hydrocarbon	19.81	SVOA	420 J
4.	---	Unknown_Aromatic	21.02	SVOA	1,900 J
5.	---	Unknown_Hydrocarbon	21.27	SVOA	780 J
6.	---	Unknown_Hydrocarbon	22.61	SVOA	2,100 J
7.	---	Unknown_Hydrocarbon	23.25	SVOA	760 J
8.	---	Unknown	23.76	SVOA	440 J
9.	---	Unknown_Hydrocarbon	23.87	SVOA	3,100 J
10.	---	Unknown_Hydrocarbon	24.46	SVOA	1,200 J
11.	---	Unknown_Hydrocarbon	25.03	SVOA	1,600 J
12.	---	Unknown_C20.H12_PNA	25.26	SVOA	690 J
13.	---	Unknown_Hydrocarbon	25.57	SVOA	750 J
14.	---	Unknown	25.92	SVOA	470 J
15.	---	Unknown_Hydrocarbon	26.10	SVOA	520 J
16.	---	Unknown_Sterol_type	27.69	SVOA	2,500 J
17.	---	Unknown	28.02	SVOA	970 J
18.	---	Unknown_Sterol_type	28.13	SVOA	1,200 J
19.	---	Unknown	28.30	SVOA	710 J
20.	---	Unknown_Sterol_type	28.58	SVOA	1,500 J

JMB 12/22/97

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FORM-1-B

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914H
LIMS ID: 97-17592
Matrix: Sediment
Data Release Authorized: GWB
Reported: 11/13/97

Sample No: 9738 4903
WR-SD-SD037-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/23/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 45.9%
pH: 7.1

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U J
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 ~~U~~ J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	**4-Methylphenol**	**480**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	97 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**50**
106-47-8	4-Chloroaniline	58 U J
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	97 U J
88-06-2	2,4,6-Trichlorophenol	97 U
95-95-4	2,4,5-Trichlorophenol	97 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	97 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U J
83-32-9	**Acenaphthene**	**29**
51-28-5	2,4-Dinitrophenol	190 ~~U~~ R
100-02-7	4-Nitrophenol	97 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	97 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914H
LIMS ID: 97-17592
Matrix: Sediment
Data Release Authorized: DWB
Reported: 11/13/97

Sample No: 9738 4903
WR-SD-SD037-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/23/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 45.9%
pH: 7.1

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	97 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**21**
100-01-6	4-Nitroaniline	97 U J
534-52-1	4,6-Dinitro-2-Methylphenol	190 U J
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	97 ~~U~~ J
85-01-8	**Phenanthrene**	**140**
86-74-8	**Carbazole**	**39** J
120-12-7	**Anthracene**	**31**
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**220**
129-00-0	**Pyrene**	**220**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	97 U
56-55-3	**Benzo(a)anthracene**	**91**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**110** ~~U~~ U
218-01-9	**Chrysene**	**120**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**100**
207-08-9	**Benzo(k)fluoranthene**	**110**
50-32-8	**Benzo(a)pyrene**	**140**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**90**
53-70-3	**Dibenz(a,h)anthracene**	**29**
191-24-2	**Benzo(g,h,i)perylene**	**110**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	53.2%	d5-Phenol	56.7%
2-Fluorobiphenyl	56.9%	2-Fluorophenol	58.3%
d14-p-Terphenyl	64.6%	2,4,6-Tribromophenol	75.6%
d4-1,2-Dichlorobenzene	46.1%	d4-2-Chlorophenol	53.8%

FORM-1

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4903
WR-SD-SD037-0000

Lab Sample ID: T914H
LIMS ID: 97-17592
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/19/97
Date Received: 09/24/97

Data Release Authorized: RWB
Reported: 11/13/97

Date Analyzed: 10/23/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid_____	6.50	SVOA	160 J N
2.	--	Unknown_Organic_Acid_____	11.60	SVOA	400 J N
3.	--	Unknown_Organic_Acid_____	16.70	SVOA	210 J N
4.	--	Unknown_Organic_Acid_____	17.36	SVOA	320 J N
5.	--	Unknown_Cycloalkane_____	17.73	SVOA	220 J N
6.	--	Unknown_Aromatic_____	19.74	SVOA	200 J N
7.	--	Unknown_Aromatic_____	20.68	SVOA	530 J N
8.	--	Unknown_Aromatic_____	23.43	SVOA	280 J N
9.	--	Unknown_Sterol_type_____	26.03	SVOA	310 J N
10.	--	Unknown_Sterol_type_____	26.25	SVOA	440 J N
11.	--	Unknown_Sterol_type_____	26.53	SVOA	260 J N
12.	--	Unknown_Sterol_type_____	27.00	SVOA	270 J N
13.	--	Unknown_Sterol_type_____	27.41	SVOA	1,800 J N
14.	--	Unknown_____	27.56	SVOA	1,000 J N
15.	--	Unknown_____	27.62	SVOA	460 J N
16.	--	Unknown_____	27.75	SVOA	1,000 J N
17.	--	Unknown_____	27.88	SVOA	970 J N
18.	--	Unknown_____	28.04	SVOA	540 J N
19.	--	Unknown_____	28.20	SVOA	190 J N
20.	--	Unknown_Sterol_type_____	28.32	SVOA	500 J N

FORM-1-B

JMB 12/22/97

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914I
LIMS ID: 97-17593
Matrix: Sediment
Data Release Authorized:
Reported: 11/13/97

Sample No: 9738 4904
WR-SD-SD038-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/23/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 51.2%
pH: 7.6

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U J
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	**4-Methylphenol**	**560**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	97 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**29**
106-47-8	4-Chloroaniline	58 U J
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	97 U J
88-06-2	2,4,6-Trichlorophenol	97 U
95-95-4	2,4,5-Trichlorophenol	97 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	97 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U J
83-32-9	**Acenaphthene**	**26**
51-28-5	2,4-Dinitrophenol	190 ~~U~~ R
100-02-7	4-Nitrophenol	97 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	97 U

FORM-1

~~000977~~
JMB 1/22/9

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914I
LIMS ID: 97-17593
Matrix: Sediment
Data Release Authorized: ANB
Reported: 11/13/97

Sample No: 9738 4904
WR-SD-SD038-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/23/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 51.2%
pH: 7.6

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	97 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**21**
100-01-6	4-Nitroaniline	97 U J
534-52-1	4,6-Dinitro-2-Methylphenol	190 U J
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	97 U J
85-01-8	**Phenanthrene**	**130**
86-74-8	**Carbazole**	**34 J**
120-12-7	**Anthracene**	**30**
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**230**
129-00-0	**Pyrene**	**230**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	97 U
56-55-3	**Benzo(a)anthracene**	**100**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**140 ~~B~~ U**
218-01-9	**Chrysene**	**140**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**110**
207-08-9	**Benzo(k)fluoranthene**	**120**
50-32-8	**Benzo(a)pyrene**	**160**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**89**
53-70-3	**Dibenz(a,h)anthracene**	**28**
191-24-2	**Benzo(g,h,i)perylene**	**120**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	47.4%	d5-Phenol	50.8%
2-Fluorobiphenyl	52.3%	2-Fluorophenol	52.8%
d14-p-Terphenyl	55.9%	2,4,6-Tribromophenol	67.3%
d4-1,2-Dichlorobenzene	39.8%	d4-2-Chlorophenol	48.3%

FORM-1

~~000978~~ JMB 1/22/9

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4904
WR-SD- SD038-0000

Lab Sample ID: T914I
LIMS ID: 97-17593
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/19/97
Date Received: 09/24/97

Data Release Authorized:
Reported: 11/13/97

Date Analyzed: 10/23/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid	6.56	SVOA	390 J N
2.	--	Unknown_Organic_Acid	11.62	SVOA	570 J N
3.	--	Unknown_Organic_Acid	16.71	SVOA	300 J N
4.	--	Unknown	17.39	SVOA	400 J N
5.	--	Unknown_Cycloalkane	17.73	SVOA	300 J N
6.	--	Unknown	18.37	SVOA	580 J N
7.	--	Unknown_Aromatic	19.75	SVOA	720 J N
8.	--	Unknown_Aromatic	20.68	SVOA	590 J N
9.	--	Unknown_Aromatic	23.46	SVOA	1,200 J N
10.	--	Unknown	26.04	SVOA	710 J N
11.	--	Unknown_Sterol_type	26.26	SVOA	770 J N
12.	--	Unknown_Sterol_type	26.32	SVOA	780 J N
13.	--	Unknown_Sterol_type	27.01	SVOA	570 J N
14.	--	Unknown_Sterol_type	27.42	SVOA	2,400 J N
15.	--	Unknown_Aromatic	27.57	SVOA	2,000 J N
16.	--	Unknown	27.63	SVOA	1,300 J N
17.	--	Unknown	27.76	SVOA	2,300 J N
18.	--	Unknown	27.89	SVOA	2,600 J N
19.	--	Unknown_Sterol_type	28.05	SVOA	1,200 J N
20.	--	Unknown_Sterol_type	28.33	SVOA	1,100 J N

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FORM-1-B

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914J
LIMS ID: 97-17594
Matrix: Sediment
Data Release Authorized: GWB
Reported: 11/13/97

Sample No: 9738 4905
WR-SD-SD039-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/23/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 48.9%
pH: 7.6

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U J
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U J
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U J
106-44-5	**4-Methylphenol**	**620**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	98 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**130**
106-47-8	4-Chloroaniline	59 U J
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	**2-Methylnaphthalene**	**54**
77-47-4	Hexachlorocyclopentadiene	98 U J
88-06-2	2,4,6-Trichlorophenol	98 U
95-95-4	2,4,5-Trichlorophenol	98 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	98 U
131-11-3	Dimethylphthalate	20 U
208-96-8	**Acenaphthylene**	**22**
99-09-2	3-Nitroaniline	120 U J
83-32-9	**Acenaphthene**	**120**
51-28-5	2,4-Dinitrophenol	200 ~~U~~ R
100-02-7	4-Nitrophenol	98 U
132-64-9	**Dibenzofuran**	**24**
606-20-2	2,6-Dinitrotoluene	98 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS

Lab Sample ID: T914J
LIMS ID: 97-17594
Matrix: Sediment
Data Release Authorized: QB
Reported: 11/13/97

Sample No: 9738 4905
WR-SD-SD039-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/23/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 48.9%
pH: 7.6

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	98 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	**Fluorene**	**95**
100-01-6	4-Nitroaniline	98 U J
534-52-1	4,6-Dinitro-2-Methylphenol	200 U J
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	98 U J
85-01-8	**Phenanthrene**	**920**
86-74-8	**Carbazole**	**60 J**
120-12-7	**Anthracene**	**120**
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**1,200**
129-00-0	**Pyrene**	**1,100**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	98 U
56-55-3	**Benzo(a)anthracene**	**340**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**140 ~~B~~ U**
218-01-9	**Chrysene**	**460**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**320**
207-08-9	**Benzo(k)fluoranthene**	**360**
50-32-8	**Benzo(a)pyrene**	**500**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**280**
53-70-3	**Dibenz(a,h)anthracene**	**66**
191-24-2	**Benzo(g,h,i)perylene**	**340**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	61.2%	d5-Phenol	60.6%
2-Fluorobiphenyl	61.4%	2-Fluorophenol	63.9%
d14-p-Terphenyl	66.5%	2,4,6-Tribromophenol	84.8%
d4-1,2-Dichlorobenzene	48.2%	d4-2-Chlorophenol	57.6%

FORM-1

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~~001028~~

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4905
WR-SD- SD039-000

Lab Sample ID: T914J
LIMS ID: 97-17594
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/19/97
Date Received: 09/24/97

Data Release Authorized:
Reported: 11/13/97

Date Analyzed: 10/23/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid	6.57	SVOA	620 J N
2.	--	Unknown_Organic_Acid	11.63	SVOA	670 J N
3.	--	Unknown	17.38	SVOA	360 J N
4.	--	Unknown_C15.H12_PNA	18.20	SVOA	320 J N
5.	--	Unknown_Aromatic	18.38	SVOA	590 J N
6.	--	Unknown_Aromatic	19.75	SVOA	310 J N
7.	--	Unknown_Aromatic	20.68	SVOA	370 J N
8.	--	Unknown_Aromatic	23.44	SVOA	320 J N
9.	--	Unknown_Aldehyde	24.37	SVOA	300 J N
10.	--	Unknown_Sterol_type	26.26	SVOA	380 J N
11.	--	Unknown_Sterol_type	27.00	SVOA	760 J N
12.	--	Unknown	27.13	SVOA	580 J N
13.	--	Unknown_Sterol_type	27.42	SVOA	1,500 J N
14.	--	Unknown	27.47	SVOA	580 J N
15.	--	Unknown	27.57	SVOA	900 J N
16.	--	Unknown	27.62	SVOA	560 J N
17.	--	Unknown	27.75	SVOA	980 J N
18.	--	Unknown	27.87	SVOA	880 J N
19.	--	Unknown	28.04	SVOA	520 J N
20.	--	Unknown_Sterol_type	28.32	SVOA	410 J N

JMB
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FORM-1-B

~~001029~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914K
LIMS ID: 97-17595
Matrix: Sediment
Data Release Authorized: BNA
Reported: 11/13/97

Sample No: 9738 4906
WR-SD-SD041-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/23/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 46.6%
pH: 6.5

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U J
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U J
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U J
106-44-5	**4-Methylphenol**	**380**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	98 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**1,000**
106-47-8	4-Chloroaniline	59 U J
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	**2-Methylnaphthalene**	**410**
77-47-4	Hexachlorocyclopentadiene	98 U J
88-06-2	2,4,6-Trichlorophenol	98 U
95-95-4	2,4,5-Trichlorophenol	98 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	98 U
131-11-3	Dimethylphthalate	20 U
208-96-8	**Acenaphthylene**	**150**
99-09-2	3-Nitroaniline	120 U J
83-32-9	**Acenaphthene**	~~4,300 E~~ 5000 D
51-28-5	2,4-Dinitrophenol	200 ~~U~~ R
100-02-7	4-Nitrophenol	98 U
132-64-9	**Dibenzofuran**	**240**
606-20-2	2,6-Dinitrotoluene	98 U

FORM-1

~~001080~~ JML 1/22

00200

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914K
LIMS ID: 97-17595
Matrix: Sediment
Data Release Authorized:
Reported: 11/13/97

Sample No: 9738 4906
WR-SD-SD041-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/23/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 46.6%
pH: 6.5

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	98 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	**Fluorene**	~~2,200 E~~ 2100 D
100-01-6	4-Nitroaniline	98 U J
534-52-1	4,6-Dinitro-2-Methylphenol	200 U J
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	98 U J
85-01-8	**Phenanthrene**	~~10,000 E~~ 16000 D
86-74-8	**Carbazole**	200 J
120-12-7	**Anthracene**	~~2,500 E~~ 2700 D
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	~~7,800 E~~ 10000 D
129-00-0	**Pyrene**	~~8,100 E~~ 12000 D
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	98 U
56-55-3	**Benzo(a)anthracene**	2,600 ~~E~~ D
117-81-7	**bis(2-Ethylhexyl)phthalate**	160 ~~B~~ U
218-01-9	**Chrysene**	~~3,300 E~~ 3500 D
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	~~3,000 E~~ 1800 D
207-08-9	**Benzo(k)fluoranthene**	~~1,700 E~~ 2300 D
50-32-8	**Benzo(a)pyrene**	~~3,800 E~~ 3700 D
193-39-5	**Indeno(1,2,3-cd)pyrene**	~~2,100 E~~ 2300 D
53-70-3	**Dibenz(a,h)anthracene**	560
191-24-2	**Benzo(g,h,i)perylene**	~~2,600 E~~ 3100 D

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	50.6%	d5-Phenol	54.5%
2-Fluorobiphenyl	53.4%	2-Fluorophenol	58.8%
d14-p-Terphenyl	70.3%	2,4,6-Tribromophenol	69.3%
d4-1,2-Dichlorobenzene	47.5%	d4-2-Chlorophenol	53.5%

FORM-1

~~001081~~ JME 1/22/

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4906
WR-SD- SD041-0000

Lab Sample ID: T914K
LIMS ID: 97-17595
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/19/97
Date Received: 09/24/97

Data Release Authorized: AWB
Reported: 11/13/97

Date Analyzed: 10/23/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	90-12-0	Naphthalene,_1-methyl-___	12.31	SVOA	720 JN
2.	--	Naphthalene,_Ethyl_Isomer	13.24	SVOA	1,000 JN
3.	--	Naphthalene,_Dimethyl_Iso	13.37	SVOA	1,000 JN
4.	--	Naphthalene,_Dimethyl_Iso	13.54	SVOA	1,800 JN
5.	--	Naphthalene,_Trimethyl_Is	14.70	SVOA	610 JN
6.	--	Naphthalene,_Trimethyl_Is	14.91	SVOA	680 JN
7.	--	Naphthalene,_Trimethyl_Is	15.07	SVOA	620 JN
8.	132-65-0	Dibenzothiophene_____	16.96	SVOA	1,300 JN
9.	--	Unknown_Aromatic_____	17.82	SVOA	710 JN
10.	--	Unknown_C15.H12_PNA_____	18.19	SVOA	760 JN
11.	--	Unknown_C15.H12_PNA_____	18.26	SVOA	750 JN
12.	--	Unknown_PNA_____	18.43	SVOA	1,600 JN
13.	--	Unknown_C16.H12_PNA_____	18.80	SVOA	840 JN
14.	--	Unknown_Aromatic_____	19.33	SVOA	680 JN
15.	--	Unknown_____	19.79	SVOA	780 JN
16.	--	Unknown_Aromatic_____	20.73	SVOA	980 JN
17.	--	Unknown_C20.H12_PNA_____	25.00	SVOA	770 JN
18.	--	Unknown_C20.H12_PNA_____	25.22	SVOA	750 JN
19.	--	Unknown_Sterol_type_____	27.43	SVOA	630 JN
20.	--	Unknown_____	27.88	SVOA	690 JN

JMB
12/22/97

FORM-1-B

~~001032~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914K
LIMS ID: 97-17595
Matrix: Sediment
Data Release Authorized: GWB
Reported: 11/13/97

Sample No: 9738 4906
DILUTION

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/28/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:20
Percent Moisture: 46.6%
pH: 6.5

CAS Number	Analyte	ug/kg
108-95-2	Phenol	390 U
111-44-4	Bis-(2-Chloroethyl) Ether	790 U
95-57-8	2-Chlorophenol	390 U
541-73-1	1,3-Dichlorobenzene	390 U
106-46-7	1,4-Dichlorobenzene	390 U
100-51-6	Benzyl Alcohol	390 U J
95-50-1	1,2-Dichlorobenzene	390 U
95-48-7	2-Methylphenol	390 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	390 U J
106-44-5	4-Methylphenol	390 U
621-64-7	N-Nitroso-Di-N-Propylamine	790 U
67-72-1	Hexachloroethane	390 U
98-95-3	Nitrobenzene	390 U
78-59-1	Isophorone	390 U
88-75-5	2-Nitrophenol	2,000 U
105-67-9	2,4-Dimethylphenol	390 U
65-85-0	Benzoic Acid	3,900 U
111-91-1	bis(2-Chloroethoxy) Methane	390 U
120-83-2	2,4-Dichlorophenol	1,200 U
120-82-1	1,2,4-Trichlorobenzene	390 U
91-20-3	**Naphthalene**	**880**
106-47-8	4-Chloroaniline	1,200 U J
87-68-3	Hexachlorobutadiene	390 U
59-50-7	4-Chloro-3-methylphenol	790 U
91-57-6	2-Methylnaphthalene	390 U
77-47-4	Hexachlorocyclopentadiene	2,000 U J
88-06-2	2,4,6-Trichlorophenol	2,000 U
95-95-4	2,4,5-Trichlorophenol	2,000 U
91-58-7	2-Chloronaphthalene	390 U
88-74-4	2-Nitroaniline	2,000 U
131-11-3	Dimethylphthalate	390 U
208-96-8	Acenaphthylene	390 U
99-09-2	3-Nitroaniline	2,400 U J
83-32-9	**Acenaphthene**	**5,000**
51-28-5	2,4-Dinitrophenol	3,900 U J
100-02-7	4-Nitrophenol	2,000 U
132-64-9	Dibenzofuran	390 U
606-20-2	2,6-Dinitrotoluene	2,000 U

FORM-1

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914K
LIMS ID: 97-17595
Matrix: Sediment
Data Release Authorized: BWB
Reported: 11/13/97

Sample No: 9738 4906
DILUTION

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/28/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:20
Percent Moisture: 46.6%
pH: 6.5

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	2,000 U
84-66-2	Diethylphthalate	390 U
7005-72-3	4-Chlorophenyl-phenylether	390 U
86-73-7	**Fluorene**	**2,100**
100-01-6	4-Nitroaniline	2,000 U J
534-52-1	4,6-Dinitro-2-Methylphenol	3,900 U
86-30-6	N-Nitrosodiphenylamine	390 U
101-55-3	4-Bromophenyl-phenylether	390 U
118-74-1	Hexachlorobenzene	390 U
87-86-5	Pentachlorophenol	2,000 U J
85-01-8	**Phenanthrene**	**16,000**
86-74-8	Carbazole	390 U J
120-12-7	**Anthracene**	**2,700**
84-74-2	Di-n-Butylphthalate	390 U
206-44-0	**Fluoranthene**	**10,000**
129-00-0	**Pyrene**	**12,000**
85-68-7	Butylbenzylphthalate	390 U
91-94-1	3,3'-Dichlorobenzidine	2,000 U J
56-55-3	**Benzo(a)anthracene**	**2,600**
117-81-7	bis(2-Ethylhexyl)phthalate	390 U
218-01-9	**Chrysene**	**3,500**
117-84-0	Di-n-Octyl phthalate	390 U
205-99-2	**Benzo(b)fluoranthene**	**1,800**
207-08-9	**Benzo(k)fluoranthene**	**2,300**
50-32-8	**Benzo(a)pyrene**	**3,700**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**2,300**
53-70-3	**Dibenz(a,h)anthracene**	**510**
191-24-2	**Benzo(g,h,i)perylene**	**3,100**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	44.8%	d5-Phenol	47.5%
2-Fluorobiphenyl	48.0%	2-Fluorophenol	57.6%
d14-p-Terphenyl	55.2%	2,4,6-Tribromophenol	50.1%
d4-1,2-Dichlorobenzene	50.4%	d4-2-Chlorophenol	50.7%

FORM-1

~~001134~~ JMK 1/22/9

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4906
DILUTION

Lab Sample ID: T914K
LIMS ID: 97-17595
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/19/97
Date Received: 09/24/97

Data Release Authorized:
Reported: 11/13/97

Date Analyzed: 10/28/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	90-12-0	Naphthalene,_1-methyl-___	12.67	SVOA	900 JN
2.	---	Naphthalene,_Ethyl_Isomer	13.58	SVOA	1,500 J N
3.	---	Naphthalene,_Dimethyl_Iso	13.71	SVOA	1,400 J
4.	---	Naphthalene,_Dimethyl_Iso	13.89	SVOA	2,500 J
5.	---	Unknown_Hydrocarbon_____	14.12	SVOA	1,700 J
6.	---	Naphthalene,_Trimethyl_Is	15.22	SVOA	1,000 J
7.	---	Naphthalene,_Trimethyl_Is	15.39	SVOA	830 J
8.	---	Unknown_Hydrocarbon_____	15.98	SVOA	1,800 J
9.	---	Unknown_Hydrocarbon_____	16.51	SVOA	1,300 J
10.	132-65-0	Dibenzothiophene_____	17.27	SVOA	1,000 JN
11.	---	Unknown_____	18.72	SVOA	1,600 J N
12.	---	Unknown_____	21.04	SVOA	1,700 J
13.	---	Unknown_Siloxane_____	22.01	SVOA	900 J
14.	---	Unknown_Hydrocarbon_____	22.61	SVOA	1,200 J
15.	---	Unknown_Siloxane_____	22.93	SVOA	1,200 J
16.	---	Unknown_Siloxane_____	23.77	SVOA	1,200 J
17.	---	Unknown_Hydrocarbon_____	23.87	SVOA	1,400 J
18.	---	Unknown_Siloxane_____	24.57	SVOA	920 J
19.	---	Unknown_C20.H12_PNA_____	25.26	SVOA	830 J
20.	---	Unknown_Sterol_type_____	27.68	SVOA	1,200 J

FORM-1-B

~~001135~~ JM 1/22

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914L
LIMS ID: 97-17596
Matrix: Sediment
Data Release Authorized: GVB
Reported: 11/13/97

Sample No: 9738 4907
WR-SD-SD043-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/23/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 45.3%
pH: 6.6

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U J
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	**4-Methylphenol**	**480**
621-64-7	N-Nitroso-Di-N-Propylamine	38 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	96 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**37**
106-47-8	4-Chloroaniline	58 U J
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	96 U J
88-06-2	2,4,6-Trichlorophenol	96 U
95-95-4	2,4,5-Trichlorophenol	96 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	96 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U J
83-32-9	**Acenaphthene**	**43**
51-28-5	2,4-Dinitrophenol	190 ~~U~~ R
100-02-7	4-Nitrophenol	96 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	96 U

FORM-1

JMB 1/22/

~~001185~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914L
LIMS ID: 97-17596
Matrix: Sediment
Data Release Authorized: GNB
Reported: 11/13/97

Sample No: 9738 4907 WR-SD-SD043-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/23/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 45.3%
pH: 6.6

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	96 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**34**
100-01-6	4-Nitroaniline	96 U J
534-52-1	4,6-Dinitro-2-Methylphenol	190 U J
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	96 U J
85-01-8	**Phenanthrene**	**210**
86-74-8	**Carbazole**	**52 J**
120-12-7	**Anthracene**	**48**
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**700**
129-00-0	**Pyrene**	**490**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	96 U
56-55-3	**Benzo(a)anthracene**	**130**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**160 BJ**
218-01-9	**Chrysene**	**180**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**120**
207-08-9	**Benzo(k)fluoranthene**	**140**
50-32-8	**Benzo(a)pyrene**	**150**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**83**
53-70-3	**Dibenz(a,h)anthracene**	**23**
191-24-2	**Benzo(g,h,i)perylene**	**95**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	57.3%	d5-Phenol	58.6%
2-Fluorobiphenyl	61.0%	2-Fluorophenol	61.3%
d14-p-Terphenyl	64.6%	2,4,6-Tribromophenol	82.2%
d4-1,2-Dichlorobenzene	45.0%	d4-2-Chlorophenol	56.0%

FORM-1

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4907
WR-SD- SD043-0000

Lab Sample ID: T914L
LIMS ID: 97-17596
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/19/97
Date Received: 09/24/97

Data Release Authorized: BWB
Reported: 11/13/97

Date Analyzed: 10/23/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid	6.51	SVOA	110 JN
2.	--	Unknown_Organic_Acid	11.61	SVOA	480 JN
3.	--	Unknown_Organic_Acid	16.71	SVOA	270 JN
4.	--	Unknown	17.39	SVOA	370 JN
5.	--	Unknown_Aromatic	18.37	SVOA	620 JN
6.	--	Unknown	18.83	SVOA	340 JN
7.	--	Unknown_Aromatic	19.74	SVOA	300 JN
8.	--	Unknown_Aromatic	20.69	SVOA	640 JN
9.	--	Unknown_Aromatic	23.45	SVOA	360 JN
10.	--	Unknown_Sterol_type	26.04	SVOA	440 JN
11.	--	Unknown_Sterol_type	26.26	SVOA	510 JN
12.	--	Unknown_Sterol_type	26.53	SVOA	300 JN
13.	--	Unknown_Sterol_type	27.01	SVOA	320 JN
14.	--	Unknown_Sterol_type	27.42	SVOA	1,300 JN
15.	--	Unknown	27.58	SVOA	490 JN
16.	--	Unknown	27.76	SVOA	970 JN
17.	--	Unknown_Sterol_type	27.88	SVOA	1,200 JN
18.	--	Unknown_Sterol_type	28.04	SVOA	600 JN
19.	--	Unknown	28.21	SVOA	230 JN
20.	--	Unknown_Sterol_type	28.32	SVOA	560 JN

FORM-1-B

JMB
12/22/97

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914M
LIMS ID: 97-17597
Matrix: Sediment
Data Release Authorized: GVB
Reported: 11/13/97

Sample No: 9738 4908
WR-SD-SD044-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/23/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 44.3%
pH: 6.5

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	40 U J
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U J
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U J
106-44-5	**4-Methylphenol**	**490**
621-64-7	N-Nitroso-Di-N-Propylamine	40 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	100 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	60 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**50**
106-47-8	4-Chloroaniline	60 U J
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	40 U
91-57-6	**2-Methylnaphthalene**	**32**
77-47-4	Hexachlorocyclopentadiene	100 U J
88-06-2	2,4,6-Trichlorophenol	100 U
95-95-4	2,4,5-Trichlorophenol	100 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	100 U
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U J
83-32-9	**Acenaphthene**	**56**
51-28-5	2,4-Dinitrophenol	200 ~~U~~ R
100-02-7	4-Nitrophenol	100 U
132-64-9	**Dibenzofuran**	**32**
606-20-2	2,6-Dinitrotoluene	100 U

FORM-1

JML 1/22/9

~~001234~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS

Lab Sample ID: T914M
LIMS ID: 97-17597
Matrix: Sediment
Data Release Authorized: GNB
Reported: 11/13/97

Sample No: 9738 4908
WR-SD-SD044-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/23/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 44.3%
pH: 6.5

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	100 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	**Fluorene**	**54**
100-01-6	4-Nitroaniline	100 U J
534-52-1	4,6-Dinitro-2-Methylphenol	200 U J
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	100 U J
85-01-8	**Phenanthrene**	**410**
86-74-8	**Carbazole**	**97 J**
120-12-7	**Anthracene**	**120**
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**720**
129-00-0	**Pyrene**	**600**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	100 U
56-55-3	**Benzo(a)anthracene**	**210**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**140** ~~B~~U
218-01-9	**Chrysene**	**310**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**210**
207-08-9	**Benzo(k)fluoranthene**	**240**
50-32-8	**Benzo(a)pyrene**	**260**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**140**
53-70-3	**Dibenz(a,h)anthracene**	**45**
191-24-2	**Benzo(g,h,i)perylene**	**160**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	48.5%	d5-Phenol	50.3%
2-Fluorobiphenyl	52.3%	2-Fluorophenol	53.3%
d14-p-Terphenyl	60.9%	2,4,6-Tribromophenol	73.2%
d4-1,2-Dichlorobenzene	41.0%	d4-2-Chlorophenol	48.2%

FORM-1

JME 1/22/
~~001235~~

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4908
WR-SD-SD044-0000

Lab Sample ID: T914M
LIMS ID: 97-17597
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/19/97
Date Received: 09/24/97

Data Release Authorized: QNB
Reported: 11/13/97

Date Analyzed: 10/23/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid_____	6.54	SVOA	520 J N
2.	--	Unknown_Organic_Acid_____	11.62	SVOA	460 J N
3.	--	Unknown_Organic_Acid_____	16.72	SVOA	310 J N
4.	--	Unknown_Organic_Acid_____	17.39	SVOA	330 J N
5.	--	Unknown_Aromatic_____	18.37	SVOA	570 J N
6.	--	Unknown_Organic_Acid_____	18.49	SVOA	300 J N
7.	--	Unknown_____	18.83	SVOA	210 J N
8.	--	Unknown_Aromatic_____	20.68	SVOA	280 J N
9.	--	Unknown_Aldehyde_____	24.37	SVOA	310 J N
10.	--	Unknown_____	26.03	SVOA	280 J N
11.	--	Unknown_Sterol_type_____	26.26	SVOA	470 J N
12.	--	Unknown_Sterol_type_____	26.54	SVOA	230 J N
13.	--	Unknown_Sterol_type_____	27.00	SVOA	300 J N
14.	--	Unknown_Sterol_type_____	27.41	SVOA	940 J N
15.	--	Unknown_____	27.57	SVOA	400 J N
16.	--	Unknown_____	27.75	SVOA	640 J N
17.	--	Unknown_____	27.88	SVOA	940 J N
18.	--	Unknown_____	28.04	SVOA	450 J N
19.	--	Unknown_____	28.21	SVOA	170 J N
20.	--	Unknown_Sterol_type_____	28.33	SVOA	440 J N

JMB
12/22/97

FORM-1-B

~~001236~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914N
LIMS ID: 97-17598
Matrix: Sediment
Data Release Authorized: BWB
Reported: 11/13/97

Sample No: 9738 4913 WR-SD-SD048-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/23/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 38.1%
pH: 6.5

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U J
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	**4-Methylphenol**	**260**
621-64-7	N-Nitroso-Di-N-Propylamine	38 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	95 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	57 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**63**
106-47-8	4-Chloroaniline	57 U J
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	**2-Methylnaphthalene**	**25**
77-47-4	Hexachlorocyclopentadiene	95 U J
88-06-2	2,4,6-Trichlorophenol	95 U
95-95-4	2,4,5-Trichlorophenol	95 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	95 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	110 U J
83-32-9	**Acenaphthene**	**51**
51-28-5	2,4-Dinitrophenol	190 ~~U~~ R
100-02-7	4-Nitrophenol	95 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	95 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914N
LIMS ID: 97-17598
Matrix: Sediment
Data Release Authorized:
Reported: 11/13/97

Sample No: 9738 4913
WR-SD- SD048- 0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/23/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 38.1%
pH: 6.5

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	95 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**38**
100-01-6	4-Nitroaniline	95 U J
534-52-1	4,6-Dinitro-2-Methylphenol	190 U J
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	95 U J
85-01-8	**Phenanthrene**	**230**
86-74-8	**Carbazole**	**67** J
120-12-7	**Anthracene**	**62**
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**380**
129-00-0	**Pyrene**	**400**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	95 U
56-55-3	**Benzo(a)anthracene**	**180**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**110** ~~B~~ U
218-01-9	**Chrysene**	**260**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**190**
207-08-9	**Benzo(k)fluoranthene**	**210**
50-32-8	**Benzo(a)pyrene**	**290**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**160**
53-70-3	**Dibenz(a,h)anthracene**	**45**
191-24-2	**Benzo(g,h,i)perylene**	**190**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	59.9%	d5-Phenol	60.7%
2-Fluorobiphenyl	64.0%	2-Fluorophenol	66.6%
d14-p-Terphenyl	67.8%	2,4,6-Tribromophenol	85.1%
d4-1,2-Dichlorobenzene	51.1%	d4-2-Chlorophenol	60.0%

FORM-1

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4913
WR-SD-SD048-0000

Lab Sample ID: T914N
LIMS ID: 97-17598
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/19/97
Date Received: 09/24/97

Data Release Authorized: DWB
Reported: 11/13/97

Date Analyzed: 10/23/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid_____	6.52	SVOA	550 JN
2.	--	Unknown_Organic_Acid_____	11.60	SVOA	470 JN
3.	--	Unknown_Organic_Acid_____	16.71	SVOA	240 JN
4.	--	Unknown_Organic_Acid_____	17.37	SVOA	180 JN
5.	--	Unknown_____	18.40	SVOA	660 JN
6.	--	Unknown_____	18.61	SVOA	570 JN
7.	--	Unknown_____	18.86	SVOA	1,800 JN
8.	--	Unknown_C16.H14_PNA_____	19.30	SVOA	240 JN
9.	--	Unknown_Aromatic_____	19.75	SVOA	260 JN
10.	--	Unknown_Aromatic_____	20.68	SVOA	300 JN
11.	--	Unknown_Aromatic_____	23.44	SVOA	280 JN
12.	--	Unknown_Aldehyde_____	24.38	SVOA	260 JN
13.	--	Unknown_Cycloalkane_____	24.75	SVOA	290 JN
14.	--	Unknown_Sterol_type_____	26.26	SVOA	360 JN
15.	--	Unknown_Aromatic_____	27.57	SVOA	430 JN
16.	--	Unknown_____	27.76	SVOA	710 JN
17.	--	Unknown_____	27.88	SVOA	840 JN
18.	--	Unknown_Sterol_type_____	28.04	SVOA	450 JN
19.	--	Unknown_____	28.21	SVOA	180 JN
20.	--	Unknown_Sterol_type_____	28.32	SVOA	380 JN

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FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914O
LIMS ID: 97-17599
Matrix: Sediment
Data Release Authorized: AB
Reported: 11/13/97

Sample No: 9738 4915
WR-SD-SD048-1000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/23/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 37.5%
pH: 6.5

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	40 U J
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U J
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U J
106-44-5	**4-Methylphenol**	**280**
621-64-7	N-Nitroso-Di-N-Propylamine	40 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	100 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	60 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**42**
106-47-8	4-Chloroaniline	60 U J
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	40 U
91-57-6	**2-Methylnaphthalene**	**21**
77-47-4	Hexachlorocyclopentadiene	100 U J
88-06-2	2,4,6-Trichlorophenol	100 U
95-95-4	2,4,5-Trichlorophenol	100 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	100 U
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U J
83-32-9	**Acenaphthene**	**45**
51-28-5	2,4-Dinitrophenol	200 ~~U~~ R
100-02-7	4-Nitrophenol	100 U
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	100 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T9140
LIMS ID: 97-17599
Matrix: Sediment
Data Release Authorized: BWB
Reported: 11/13/97

Sample No: 9738 4915
WR-SD-SD048-1000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/23/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 37.5%
pH: 6.5

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	100 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	Fluorene	36
100-01-6	4-Nitroaniline	100 U J
534-52-1	4,6-Dinitro-2-Methylphenol	200 U J
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	100 U J
85-01-8	Phenanthrene	210
86-74-8	Carbazole	55 J
120-12-7	Anthracene	54
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	Fluoranthene	320
129-00-0	Pyrene	320
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	100 U
56-55-3	Benzo(a)anthracene	140
117-81-7	bis(2-Ethylhexyl)phthalate	110 ~~B~~ U
218-01-9	Chrysene	200
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	Benzo(b)fluoranthene	170
207-08-9	Benzo(k)fluoranthene	170
50-32-8	Benzo(a)pyrene	240
193-39-5	Indeno(1,2,3-cd)pyrene	130
53-70-3	Dibenz(a,h)anthracene	39
191-24-2	Benzo(g,h,i)perylene	160

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	56.5%	d5-Phenol	55.4%
2-Fluorobiphenyl	60.4%	2-Fluorophenol	60.8%
d14-p-Terphenyl	65.4%	2,4,6-Tribromophenol	82.7%
d4-1,2-Dichlorobenzene	47.9%	d4-2-Chlorophenol	53.7%

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4915
WR-SD-SDC48-1000

Lab Sample ID: T9140
LIMS ID: 97-17599
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/19/97
Date Received: 09/24/97

Data Release Authorized: GMB
Reported: 11/13/97

Date Analyzed: 10/23/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid_____	6.48	SVOA	190 J N
2.	--	Unknown_Organic_Acid_____	11.60	SVOA	400 J N
3.	--	Unknown_Organic_Acid_____	16.71	SVOA	160 J N
4.	--	Unknown_Organic_Acid_____	17.37	SVOA	210 J N
5.	--	Unknown_PNA_____	19.30	SVOA	170 J N
6.	--	Unknown_____	19.74	SVOA	170 J N
7.	--	Unknown_Aromatic_____	20.68	SVOA	290 J N
8.	--	Unknown_Aromatic_____	23.44	SVOA	280 J N
9.	--	Unknown_Aldehyde_____	24.37	SVOA	240 J N
10.	--	Unknown_Alcohol_____	24.74	SVOA	210 J N
11.	--	Unknown_____	26.03	SVOA	250 J N
12.	--	Unknown_Sterol_type_____	26.25	SVOA	300 J N
13.	--	Unknown_Sterol_type_____	27.00	SVOA	180 J N
14.	--	Unknown_____	27.47	SVOA	440 J N
15.	--	Unknown_Aromatic_____	27.57	SVOA	780 J N
16.	--	Unknown_____	27.62	SVOA	440 J N
17.	--	Unknown_____	27.75	SVOA	690 J N
18.	--	Unknown_____	27.87	SVOA	810 J N
19.	--	Unknown_Sterol_type_____	28.03	SVOA	430 J N
20.	--	Unknown_Sterol_type_____	28.31	SVOA	370 J N

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FORM-1-B

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914P
LIMS ID: 97-17600
Matrix: Sediment
Data Release Authorized:
Reported: 11/13/97

Sample No: 9738 4916
WR-SD- SD052-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/23/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 44.1%
pH: 6.5

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	40 U J
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U J
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U J
106-44-5	**4-Methylphenol**	**600**
621-64-7	N-Nitroso-Di-N-Propylamine	40 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	99 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	60 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**97**
106-47-8	4-Chloroaniline	60 U J
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	40 U
91-57-6	**2-Methylnaphthalene**	**50**
77-47-4	Hexachlorocyclopentadiene	99 U J
88-06-2	2,4,6-Trichlorophenol	99 U
95-95-4	2,4,5-Trichlorophenol	99 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	99 U
131-11-3	Dimethylphthalate	20 U
208-96-8	**Acenaphthylene**	**26**
99-09-2	3-Nitroaniline	120 U J
83-32-9	**Acenaphthene**	**66**
51-28-5	2,4-Dinitrophenol	200 ~~U~~ R
100-02-7	4-Nitrophenol	99 U
132-64-9	**Dibenzofuran**	**30**
606-20-2	2,6-Dinitrotoluene	99 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914P
LIMS ID: 97-17600
Matrix: Sediment
Data Release Authorized:
Reported: 11/13/97

Sample No: 9738 4916
WR-SD-SD052-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/23/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 44.1%
pH: 6.5

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	99 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	**Fluorene**	**64**
100-01-6	4-Nitroaniline	99 U J
534-52-1	4,6-Dinitro-2-Methylphenol	200 U J
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	99 U J
85-01-8	**Phenanthrene**	**450**
86-74-8	**Carbazole**	**100 J**
120-12-7	**Anthracene**	**100**
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**780**
129-00-0	**Pyrene**	**770**
85-68-7	**Butylbenzylphthalate**	**29**
91-94-1	3,3'-Dichlorobenzidine	99 U
56-55-3	**Benzo(a)anthracene**	**270**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**190** ~~J~~ U
218-01-9	**Chrysene**	**390**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**290**
207-08-9	**Benzo(k)fluoranthene**	**320**
50-32-8	**Benzo(a)pyrene**	**440**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**260**
53-70-3	**Dibenz(a,h)anthracene**	**67**
191-24-2	**Benzo(g,h,i)perylene**	**320**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	61.6%	d5-Phenol	59.8%
2-Fluorobiphenyl	63.7%	2-Fluorophenol	67.9%
d14-p-Terphenyl	70.4%	2,4,6-Tribromophenol	83.3%
d4-1,2-Dichlorobenzene	52.2%	d4-2-Chlorophenol	59.7%

FORM-1

JMB 1/22/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4916
WR-SD-SD052-0000

Lab Sample ID: T914P
LIMS ID: 97-17600
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/19/97
Date Received: 09/24/97

Data Release Authorized: GMB
Reported: 11/13/97

Date Analyzed: 10/23/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid	6.55	SVOA	510 J N
2.	--	Unknown_Organic_Acid	11.62	SVOA	490 J N
3.	--	Unknown_Organic_Acid	16.73	SVOA	340 J N
4.	--	Unknown_Aromatic	18.38	SVOA	680 J N
5.	--	Unknown_Organic_Acid	18.51	SVOA	410 J N
6.	--	Unknown	19.10	SVOA	260 J N
7.	--	Unknown	19.31	SVOA	230 J N
8.	--	Unknown_Alcohol	19.63	SVOA	200 J N
9.	--	Unknown	19.74	SVOA	300 J N
10.	--	Unknown_Aromatic	20.68	SVOA	330 J N
11.	--	Unknown_Aldehyde	24.38	SVOA	390 J N
12.	--	Unknown_Sterol_type	26.27	SVOA	700 J N
13.	--	Unknown_Sterol_type	26.55	SVOA	300 J N
14.	--	Unknown_Sterol_type	27.01	SVOA	380 J N
15.	--	Unknown_Sterol_type	27.44	SVOA	1,400 J N
16.	--	Unknown_Aromatic	27.58	SVOA	590 J N
17.	--	Unknown	27.77	SVOA	690 J N
18.	--	Unknown	27.89	SVOA	1,100 J N
19.	--	Unknown_Sterol_type	28.05	SVOA	340 J N
20.	--	Unknown_Sterol_type	28.34	SVOA	550 J N

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914Q
LIMS ID: 97-17601
Matrix: Sediment
Data Release Authorized: GNB
Reported: 11/13/97

Sample No: 9738 4917
WR-SD-SD055-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/28/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 21.5%
pH: 7.0

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	**4-Methylphenol**	**53**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	97 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**27**
106-47-8	4-Chloroaniline	58 U J
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	97 U J
88-06-2	2,4,6-Trichlorophenol	97 U
95-95-4	2,4,5-Trichlorophenol	97 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	97 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U J
83-32-9	**Acenaphthene**	**28**
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	97 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	97 U

FORM-1

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~~001410~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914Q
LIMS ID: 97-17601
Matrix: Sediment
Data Release Authorized: BWB
Reported: 11/13/97

Sample No: 9738 4917
WR-SD-SD055-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/28/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 21.5%
pH: 7.0

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	97 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**20**
100-01-6	4-Nitroaniline	97 UJ
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	97 UJ
85-01-8	**Phenanthrene**	**110**
86-74-8	**Carbazole**	**31 J**
120-12-7	**Anthracene**	**27**
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**250**
129-00-0	**Pyrene**	**270**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	97 UJ
56-55-3	**Benzo(a)anthracene**	**140**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**73 ~~J~~ U**
218-01-9	**Chrysene**	**180**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**160**
207-08-9	**Benzo(k)fluoranthene**	**140**
50-32-8	**Benzo(a)pyrene**	**230**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**150**
53-70-3	**Dibenz(a,h)anthracene**	**40**
191-24-2	**Benzo(g,h,i)perylene**	**190**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	49.9%	d5-Phenol	63.4%
2-Fluorobiphenyl	64.0%	2-Fluorophenol	55.5%
d14-p-Terphenyl	71.4%	2,4,6-Tribromophenol	78.7%
d4-1,2-Dichlorobenzene	43.2%	d4-2-Chlorophenol	54.4%

FORM-1

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~~001441~~

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4917
WR-SD-SD055-0000

Lab Sample ID: T914Q
LIMS ID: 97-17601
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/19/97
Date Received: 09/24/97

Data Release Authorized: RMB
Reported: 11/13/97

Date Analyzed: 10/28/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid	11.89	SVOA	120 JN
2.	--	Unknown_Alcohol	14.29	SVOA	140 JN
3.	--	Unknown_Aromatic	18.73	SVOA	75 JN
4.	--	Unknown_Sterol_type	18.82	SVOA	95 JN
5.	--	Unknown	20.08	SVOA	150 JN
6.	--	Unknown_Aromatic	21.04	SVOA	910 JN
7.	--	Unknown	22.31	SVOA	140 JN
8.	--	Unknown	23.25	SVOA	160 JN
9.	--	Unknown_Aldehyde	24.72	SVOA	140 JN
10.	--	Unknown_C20.H12_PNA	25.28	SVOA	110 JN
11.	--	Unknown_Aromatic	26.19	SVOA	95 JN
12.	--	Unknown_Sterol_type	26.59	SVOA	270 JN
13.	--	Unknown_Sterol_type	27.32	SVOA	180 JN
14.	--	Unknown_Sterol_type	27.70	SVOA	780 JN
15.	--	Unknown_Aromatic	27.86	SVOA	180 JN
16.	--	Unknown	28.03	SVOA	320 JN
17.	--	Unknown_Sterol_type	28.15	SVOA	480 JN
18.	--	Unknown	28.31	SVOA	220 JN
19.	--	Unknown	28.47	SVOA	100 JN
20.	--	Unknown_Sterol_type	28.58	SVOA	340 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914R
LIMS ID: 97-17602
Matrix: Sediment
Data Release Authorized: BHB
Reported: 11/13/97

Sample No: 9738 4919
WR-SD-SD057-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/28/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 42.1%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	**4-Methylphenol**	**280**
621-64-7	N-Nitroso-Di-N-Propylamine	38 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	96 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**62**
106-47-8	4-Chloroaniline	58 U J
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	**2-Methylnaphthalene**	**45**
77-47-4	Hexachlorocyclopentadiene	96 U J
88-06-2	2,4,6-Trichlorophenol	96 U
95-95-4	2,4,5-Trichlorophenol	96 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	96 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U J
83-32-9	**Acenaphthene**	**110**
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	96 U
132-64-9	**Dibenzofuran**	**52**
606-20-2	2,6-Dinitrotoluene	96 U

FORM-1

~~001430~~
JMB 1/22/99

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914R
LIMS ID: 97-17602
Matrix: Sediment
Data Release Authorized: [illegible]
Reported: 11/13/97

Sample No: 9738 4919
WR-SD-SD057-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/28/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 42.1%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	96 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**110**
100-01-6	4-Nitroaniline	96 U J
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	96 U J
85-01-8	**Phenanthrene**	**440**
86-74-8	**Carbazole**	**210** J
120-12-7	**Anthracene**	**210**
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**410**
129-00-0	**Pyrene**	**370**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	96 U J
56-55-3	**Benzo(a)anthracene**	**160**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**120** ~~B~~ U
218-01-9	**Chrysene**	**220**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**170**
207-08-9	**Benzo(k)fluoranthene**	**170**
50-32-8	**Benzo(a)pyrene**	**230**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**140**
53-70-3	**Dibenz(a,h)anthracene**	**45**
191-24-2	**Benzo(g,h,i)perylene**	**170**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	47.2%	d5-Phenol	52.7%
2-Fluorobiphenyl	49.7%	2-Fluorophenol	52.5%
d14-p-Terphenyl	52.5%	2,4,6-Tribromophenol	56.6%
d4-1,2-Dichlorobenzene	42.0%	d4-2-Chlorophenol	49.4%

FORM-1

JMB 1/22/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4919
WR-SD- SD057-0000

Lab Sample ID: T914R
LIMS ID: 97-17602
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Data Release Authorized: QVB
Reported: 11/13/97

Date Analyzed: 10/28/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid	6.68	SVOA	240 JN
2.	--	Unknown_Organic_Acid	11.93	SVOA	240 JN
3.	--	Unknown_Organic_Acid	17.73	SVOA	120 JN
4.	--	Unknown_Aldehyde	18.09	SVOA	140 JN
5.	--	Unknown_C15.H12_PNA	18.55	SVOA	170 JN
6.	--	Unknown_Aromatic	20.10	SVOA	170 JN
7.	--	Unknown_Aromatic	21.03	SVOA	230 JN
8.	--	Unknown_Sterol_type	23.79	SVOA	180 JN
9.	--	Unknown_Aldehyde	24.73	SVOA	200 JN
10.	--	Unknown_Sterol_type	26.60	SVOA	260 JN
11.	--	Unknown_Sterol_type	26.87	SVOA	140 JN
12.	--	Unknown_Sterol_type	27.33	SVOA	180 JN
13.	--	Unknown_Sterol_type	27.72	SVOA	1,200 JN
14.	--	Unknown_Aromatic	27.87	SVOA	660 JN
15.	--	Unknown	27.93	SVOA	290 JN
16.	--	Unknown	28.05	SVOA	500 JN
17.	--	Unknown	28.16	SVOA	730 JN
18.	--	Unknown_Sterol_type	28.33	SVOA	320 JN
19.	--	Unknown	28.49	SVOA	120 JN
20.	--	Unknown_Sterol_type	28.60	SVOA	360 JN

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FORM-1-B

~~001492~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914S
LIMS ID: 97-17603
Matrix: Sediment
Data Release Authorized: BWB
Reported: 11/13/97

Sample No: 9738 4921
WR-SD-SD059-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/28/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 44.5%
pH: 7.4

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	40 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U J
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U J
106-44-5	**4-Methylphenol**	**300**
621-64-7	N-Nitroso-Di-N-Propylamine	40 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	100 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	60 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**54**
106-47-8	4-Chloroaniline	60 U J
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	40 U
91-57-6	**2-Methylnaphthalene**	**27**
77-47-4	Hexachlorocyclopentadiene	100 U J
88-06-2	2,4,6-Trichlorophenol	100 U
95-95-4	2,4,5-Trichlorophenol	100 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	100 U
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U J
83-32-9	**Acenaphthene**	**73**
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	100 U
132-64-9	**Dibenzofuran**	**36**
606-20-2	2,6-Dinitrotoluene	100 U

FORM-1

~~001542~~ JMK 1221

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914S
LIMS ID: 97-17603
Matrix: Sediment
Data Release Authorized:
Reported: 11/13/97

Sample No: 9738 4921
WR-SD-SD059-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/28/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 44.5%
pH: 7.4

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	100 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	**Fluorene**	**61**
100-01-6	4-Nitroaniline	100 U J
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	100 U J
85-01-8	**Phenanthrene**	**270**
86-74-8	**Carbazole**	**41 J**
120-12-7	**Anthracene**	**55**
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**290**
129-00-0	**Pyrene**	**250**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	100 U J
56-55-3	**Benzo(a)anthracene**	**100**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**110 ~~J~~ U**
218-01-9	**Chrysene**	**140**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**95**
207-08-9	**Benzo(k)fluoranthene**	**93**
50-32-8	**Benzo(a)pyrene**	**120**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**79**
53-70-3	**Dibenz(a,h)anthracene**	**25**
191-24-2	**Benzo(g,h,i)perylene**	**97**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	44.3%	d5-Phenol	50.3%
2-Fluorobiphenyl	47.1%	2-Fluorophenol	50.4%
d14-p-Terphenyl	49.1%	2,4,6-Tribromophenol	51.0%
d4-1,2-Dichlorobenzene	39.6%	d4-2-Chlorophenol	47.7%

FORM-1

~~001543~~ JML 1/22/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4921
WR-SD-SD059-0000

Lab Sample ID: T914S
LIMS ID: 97-17603
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Data Release Authorized: CMB
Reported: 11/13/97

Date Analyzed: 10/28/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid	6.65	SVOA	240 JN
2.	--	Unknown_Organic_Acid	11.93	SVOA	230 JN
3.	--	Unknown_Organic_Acid	17.06	SVOA	120 JN
4.	--	Unknown_Organic_Acid	17.73	SVOA	140 JN
5.	--	Unknown_Organic_Acid	18.82	SVOA	140 JN
6.	--	Unknown_Aromatic	20.10	SVOA	220 JN
7.	--	Unknown_Aromatic	21.03	SVOA	290 JN
8.	--	Unknown_Aromatic	23.78	SVOA	280 JN
9.	--	Unknown_Aldehyde	24.73	SVOA	300 JN
10.	--	Unknown_Sterol_type	26.60	SVOA	280 JN
11.	--	Unknown_Sterol_type	26.87	SVOA	170 JN
12.	--	Unknown_Sterol_type	27.33	SVOA	200 JN
13.	--	Unknown_Aromatic	27.87	SVOA	810 JN
14.	--	Unknown	27.92	SVOA	350 JN
15.	--	Unknown	28.05	SVOA	610 JN
16.	--	Unknown	28.17	SVOA	900 JN
17.	--	Unknown_Sterol_type	28.33	SVOA	370 JN
18.	--	Unknown	28.49	SVOA	130 JN
19.	--	Unknown_Sterol_type	28.60	SVOA	460 JN
20.	--	Unknown	28.87	SVOA	170 JN

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FORM-1-B

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914T
LIMS ID: 97-17604
Matrix: Sediment
Data Release Authorized: CWB
Reported: 11/13/97

Sample No: 9738 4922
WR-SD-SD058-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/28/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 27.9%
pH: 7.2

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U J
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U J
106-44-5	**4-Methylphenol**	**50**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	99 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**90**
106-47-8	4-Chloroaniline	59 U J
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	**2-Methylnaphthalene**	**37**
77-47-4	Hexachlorocyclopentadiene	99 U J
88-06-2	2,4,6-Trichlorophenol	99 U
95-95-4	2,4,5-Trichlorophenol	99 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	99 U
131-11-3	Dimethylphthalate	20 U
208-96-8	**Acenaphthylene**	**20**
99-09-2	3-Nitroaniline	120 U J
83-32-9	**Acenaphthene**	**45**
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	99 U
132-64-9	**Dibenzofuran**	**24**
606-20-2	2,6-Dinitrotoluene	99 U

FORM-1

~~001594~~ JML 1/22/4

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914T
LIMS ID: 97-17604
Matrix: Sediment
Data Release Authorized: [illegible]
Reported: 11/13/97

Sample No: 9738 4922
WR-SD-SD058-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/28/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 27.9%
pH: 7.2

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	99 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	Fluorene	33
100-01-6	4-Nitroaniline	99 U J
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	99 U J
85-01-8	Phenanthrene	150
86-74-8	Carbazole	48 J
120-12-7	Anthracene	41
84-74-2	Di-n-Butylphthalate	43
206-44-0	Fluoranthene	340
129-00-0	Pyrene	380
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	99 U J
56-55-3	Benzo(a)anthracene	190
117-81-7	bis(2-Ethylhexyl)phthalate	90 ~~B~~U
218-01-9	Chrysene	230
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	Benzo(b)fluoranthene	180
207-08-9	Benzo(k)fluoranthene	220
50-32-8	Benzo(a)pyrene	310
193-39-5	Indeno(1,2,3-cd)pyrene	190
53-70-3	Dibenz(a,h)anthracene	53
191-24-2	Benzo(g,h,i)perylene	240

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	42.4%	d5-Phenol	50.3%
2-Fluorobiphenyl	49.7%	2-Fluorophenol	48.8%
d14-p-Terphenyl	59.9%	2,4,6-Tribromophenol	51.7%
d4-1,2-Dichlorobenzene	36.8%	d4-2-Chlorophenol	46.3%

FORM-1

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4922
WR-SD-SD058-0000

Lab Sample ID: T914T
LIMS ID: 97-17604
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Data Release Authorized: ONB
Reported: 11/13/97

Date Analyzed: 10/28/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Cycloalkane_____	8.09	SVOA	160 JN
2.	--	Unknown_____	18.55	SVOA	150 JN
3.	--	Unknown_Cycloalkane_____	18.74	SVOA	380 JN
4.	--	Unknown_____	19.00	SVOA	560 JN
5.	--	Unknown_____	19.26	SVOA	190 JN
6.	--	Unknown_____	19.36	SVOA	190 JN
7.	--	Unknown_____	19.48	SVOA	1,400 JN
8.	--	Unknown_____	19.66	SVOA	340 JN
9.	--	Unknown_____	19.75	SVOA	260 JN
10.	--	Unknown_Alcohol_____	20.00	SVOA	94 JN
11.	--	Unknown_Aromatic_____	20.16	SVOA	4,100 JN
12.	--	Unknown_____	20.21	SVOA	170 JN
13.	--	Unknown_____	20.29	SVOA	480 JN
14.	--	Unknown_Aromatic_____	21.05	SVOA	880 JN
15.	--	Unknown_____	21.70	SVOA	180 JN
16.	--	Unknown_Acid_Ester_____	23.26	SVOA	260 JN
17.	--	Unknown_Sterol_type_____	27.72	SVOA	600 JN
18.	--	Unknown_____	28.04	SVOA	220 JN
19.	--	Unknown_____	28.16	SVOA	180 JN
20.	--	Unknown_Sterol_type_____	28.60	SVOA	400 JN

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FORM-1-B

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914U
LIMS ID: 97-17605
Matrix: Sediment
Data Release Authorized: EWB
Reported: 11/13/97

Sample No: 9738 4924
WR-SD-SD061-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/28/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 53.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 24.5%
pH: 7.2

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	**4-Methylphenol**	**190**
621-64-7	N-Nitroso-Di-N-Propylamine	38 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	94 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	57 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**40**
106-47-8	4-Chloroaniline	57 U J
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	**2-Methylnaphthalene**	**21**
77-47-4	Hexachlorocyclopentadiene	94 U J
88-06-2	2,4,6-Trichlorophenol	94 U
95-95-4	2,4,5-Trichlorophenol	94 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	94 U
131-11-3	Dimethylphthalate	19 U
208-96-8	**Acenaphthylene**	**24**
99-09-2	3-Nitroaniline	110 U J
83-32-9	**Acenaphthene**	**63**
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	94 U
132-64-9	**Dibenzofuran**	**38**
606-20-2	2,6-Dinitrotoluene	94 U

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FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914U
LIMS ID: 97-17605
Matrix: Sediment
Data Release Authorized:
Reported: 11/13/97

Sample No: 9738 4924
WR-SD-SD061-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/28/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 53.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 24.5%
pH: 7.2

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	94 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**61**
100-01-6	4-Nitroaniline	94 U J
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	94 U J
85-01-8	**Phenanthrene**	**420**
86-74-8	**Carbazole**	**77 J**
120-12-7	**Anthracene**	**82**
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**910**
129-00-0	**Pyrene**	**690**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	94 U J
56-55-3	**Benzo(a)anthracene**	**290**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**140 ~~J~~ U**
218-01-9	**Chrysene**	**380**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**310**
207-08-9	**Benzo(k)fluoranthene**	**240**
50-32-8	**Benzo(a)pyrene**	**330**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**190**
53-70-3	**Dibenz(a,h)anthracene**	**65**
191-24-2	**Benzo(g,h,i)perylene**	**220**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	40.7%	d5-Phenol	43.9%
2-Fluorobiphenyl	44.1%	2-Fluorophenol	45.7%
d14-p-Terphenyl	44.8%	2,4,6-Tribromophenol	55.5%
d4-1,2-Dichlorobenzene	37.8%	d4-2-Chlorophenol	42.2%

FORM-1

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4924
WR-SD-SD061-0000

Lab Sample ID: T914U
LIMS ID: 97-17605
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Data Release Authorized: DMB
Reported: 11/13/97

Date Analyzed: 10/28/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid	6.70	SVOA	260 J N
2.	--	Unknown_Organic_Acid	11.94	SVOA	250 J N
3.	--	Unknown_Cycloalkane	14.30	SVOA	140 J N
4.	--	Unknown_Aldehyde	18.10	SVOA	190 J N
5.	--	Unknown	18.73	SVOA	140 J N
6.	--	Unknown_Aromatic	20.11	SVOA	160 J N
7.	--	Unknown_Aromatic	21.04	SVOA	260 J N
8.	--	Unknown_Aromatic	22.37	SVOA	240 J N
9.	--	Unknown_Aromatic	23.79	SVOA	180 J N
10.	--	Unknown_Aldehyde	24.73	SVOA	260 J N
11.	--	Unknown_C20.H12_PNA	25.29	SVOA	150 J N
12.	--	Unknown_Sterol_type	26.60	SVOA	290 J N
13.	--	Unknown_Sterol_type	26.88	SVOA	150 J N
14.	--	Unknown_Sterol_type	27.34	SVOA	200 J N
15.	--	Unknown_Sterol_type	27.71	SVOA	840 J N
16.	--	Unknown_Aromatic	27.87	SVOA	240 J N
17.	--	Unknown	28.05	SVOA	420 J N
18.	--	Unknown	28.16	SVOA	620 J N
19.	--	Unknown	28.32	SVOA	290 J N
20.	--	Unknown_Sterol_type	28.60	SVOA	300 J N

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914V
LIMS ID: 97-17606
Matrix: Sediment
Data Release Authorized: [illegible]
Reported: 11/13/97

Sample No: 9738 4925
WR-SD-SD060-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/28/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 33.0%
pH: 7.1

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	40 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U J
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U J
106-44-5	**4-Methylphenol**	**230**
621-64-7	N-Nitroso-Di-N-Propylamine	40 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	99 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	60 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**160**
106-47-8	4-Chloroaniline	60 U J
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	40 U
91-57-6	**2-Methylnaphthalene**	**66**
77-47-4	Hexachlorocyclopentadiene	99 U J
88-06-2	2,4,6-Trichlorophenol	99 U
95-95-4	2,4,5-Trichlorophenol	99 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	99 U
131-11-3	Dimethylphthalate	20 U
208-96-8	**Acenaphthylene**	**57**
99-09-2	3-Nitroaniline	120 U J
83-32-9	**Acenaphthene**	**60**
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	99 U
132-64-9	**Dibenzofuran**	**33**
606-20-2	2,6-Dinitrotoluene	99 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS

Lab Sample ID: T914V
LIMS ID: 97-17606
Matrix: Sediment
Data Release Authorized: MB
Reported: 11/13/97

Sample No: 9738 4925
WR-SD-SD060-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/28/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 33.0%
pH: 7.1

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	99 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	**Fluorene**	**56**
100-01-6	4-Nitroaniline	99 U J
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	99 U J
85-01-8	**Phenanthrene**	**450**
86-74-8	**Carbazole**	**99** J
120-12-7	**Anthracene**	**90**
84-74-2	**Di-n-Butylphthalate**	**34**
206-44-0	**Fluoranthene**	**790**
129-00-0	**Pyrene**	**820**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	99 U J
56-55-3	**Benzo(a)anthracene**	**330**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**190** BU
218-01-9	**Chrysene**	**440**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**410**
207-08-9	**Benzo(k)fluoranthene**	**340**
50-32-8	**Benzo(a)pyrene**	**510**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**310**
53-70-3	**Dibenz(a,h)anthracene**	**98**
191-24-2	**Benzo(g,h,i)perylene**	**400**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	58.4%	d5-Phenol	67.4%
2-Fluorobiphenyl	65.2%	2-Fluorophenol	69.7%
d14-p-Terphenyl	69.0%	2,4,6-Tribromophenol	81.9%
d4-1,2-Dichlorobenzene	54.9%	d4-2-Chlorophenol	63.6%

FORM-1

~~001701~~ JMB 1/22/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4925
WR-SD-SD060-0000

Lab Sample ID: T914V
LIMS ID: 97-17606
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Data Release Authorized: [illegible]
Reported: 11/13/97

Date Analyzed: 10/28/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown	6.65	SVOA	70 J N
2.	--	Unknown_Organic_Acid	6.75	SVOA	240 J N
3.	--	Unknown_Organic_Acid	11.95	SVOA	350 J N
4.	--	Naphthalene,_Dimethyl_Iso	13.89	SVOA	69 J N
5.	--	Unknown_Cycloalkane	14.30	SVOA	100 J N
6.	--	Unknown	16.87	SVOA	120 J N
7.	--	Unknown	19.21	SVOA	370 J N
8.	--	Unknown	19.48	SVOA	80 J N
9.	--	Unknown_PNA	19.67	SVOA	230 J N
10.	--	Unknown_Aromatic	20.12	SVOA	330 J N
11.	--	Unknown_Aromatic	21.07	SVOA	1,400 J N
12.	--	Unknown_Alcohol	21.78	SVOA	1,200 J N
13.	--	Unknown_Aldehyde	24.75	SVOA	150 J N
14.	--	Unknown	26.34	SVOA	200 J N
15.	--	Unknown_Sterol_type	26.61	SVOA	150 J N
16.	--	Unknown_Aromatic	26.80	SVOA	150 J N
17.	--	Unknown_Sterol_type	27.73	SVOA	390 J N
18.	--	Unknown	28.05	SVOA	240 J N
19.	--	Unknown_Aromatic	28.17	SVOA	280 J N
20.	--	Unknown_Sterol_type	28.61	SVOA	270 J N

FORM-1-B

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001702

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914W
LIMS ID: 97-17607
Matrix: Sediment
Data Release Authorized: DWB
Reported: 11/13/97

Sample No: 9738 4926
WR-SD-SD066-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/28/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 38.8%
pH: 7.4

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	**4-Methylphenol**	**130**
621-64-7	N-Nitroso-Di-N-Propylamine	38 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	96 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	57 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**320**
106-47-8	4-Chloroaniline	57 U J
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	**2-Methylnaphthalene**	**180**
77-47-4	Hexachlorocyclopentadiene	96 U J
88-06-2	2,4,6-Trichlorophenol	96 U
95-95-4	2,4,5-Trichlorophenol	96 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	96 U
131-11-3	Dimethylphthalate	19 U
208-96-8	**Acenaphthylene**	**34**
99-09-2	3-Nitroaniline	110 U J
83-32-9	**Acenaphthene**	**220**
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	96 U
132-64-9	**Dibenzofuran**	**57**
606-20-2	2,6-Dinitrotoluene	96 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914W
LIMS ID: 97-17607
Matrix: Sediment
Data Release Authorized: GMB
Reported: 11/13/97

Sample No: 9738 4926
WR-SD-SD066-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/28/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 38.8%
pH: 7.4

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	96 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**120**
100-01-6	4-Nitroaniline	96 U J
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	96 U J
85-01-8	**Phenanthrene**	**1,000**
86-74-8	Carbazole	19 U J
120-12-7	**Anthracene**	**210**
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**1,100**
129-00-0	**Pyrene**	**990**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	96 U J
56-55-3	**Benzo(a)anthracene**	**360**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**88** ~~J~~ U
218-01-9	**Chrysene**	**470**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**300**
207-08-9	**Benzo(k)fluoranthene**	**290**
50-32-8	**Benzo(a)pyrene**	**410**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**220**
53-70-3	**Dibenz(a,h)anthracene**	**71**
191-24-2	**Benzo(g,h,i)perylene**	**270**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	50.4%	d5-Phenol	54.0%
2-Fluorobiphenyl	51.9%	2-Fluorophenol	55.4%
d14-p-Terphenyl	60.0%	2,4,6-Tribromophenol	56.1%
d4-1,2-Dichlorobenzene	48.7%	d4-2-Chlorophenol	52.1%

FORM-1

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4926
WR-SD-SD066-0000

Lab Sample ID: T914W
LIMS ID: 97-17607
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Data Release Authorized: MJ
Reported: 11/13/97

Date Analyzed: 10/28/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Aromatic	10.31	SVOA	450 JN
2.	--	Unknown	11.02	SVOA	620 JN
3.	--	Unknown_Cycloalkane	11.52	SVOA	530 JN
4.	--	Unknown_Cycloalkane	11.70	SVOA	840 JN
5.	--	Unknown_Cycloalkane	11.81	SVOA	670 JN
6.	--	Unknown_Aromatic	11.90	SVOA	450 JN
7.	--	Unknown	12.27	SVOA	470 JN
8.	--	Unknown	12.68	SVOA	600 JN
9.	--	Unknown_Cycloalkane	12.92	SVOA	500 JN
10.	--	Unknown	13.94	SVOA	1,300 JN
11.	--	Unknown_Cycloalkane	14.07	SVOA	440 JN
12.	--	Unknown	15.76	SVOA	590 JN
13.	--	Unknown	16.84	SVOA	530 JN
14.	--	Unknown	17.88	SVOA	460 JN
15.	--	Unknown_PNA	18.57	SVOA	500 JN
16.	--	Unknown	18.78	SVOA	790 JN
17.	--	Unknown	19.25	SVOA	680 JN
18.	--	Unknown	19.38	SVOA	430 JN
19.	--	Unknown	27.81	SVOA	480 JN
20.	--	Unknown_Aromatic	27.90	SVOA	720 JN

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FORM-1-B

~~001756~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914X
LIMS ID: 97-17608
Matrix: Sediment
Data Release Authorized:
Reported: 11/13/97

Sample No: 9738 4927
WR-SD-SD071-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/28/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 41.1%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	40 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U J
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U J
106-44-5	**4-Methylphenol**	**290**
621-64-7	N-Nitroso-Di-N-Propylamine	40 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	100 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	60 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**36**
106-47-8	4-Chloroaniline	60 U J
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	40 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	100 U J
88-06-2	2,4,6-Trichlorophenol	100 U
95-95-4	2,4,5-Trichlorophenol	100 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	100 U
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U J
83-32-9	Acenaphthene	20 U
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	100 U
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	100 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS

Lab Sample ID: T914X
LIMS ID: 97-17608
Matrix: Sediment
Data Release Authorized: AWP
Reported: 11/13/97

Sample No: 9738 4927
WR-SD-SD071-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/28/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 41.1%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	100 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	Fluorene	20 U
100-01-6	4-Nitroaniline	100 U J
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	100 U J
85-01-8	**Phenanthrene**	**60**
86-74-8	Carbazole	20 U J
120-12-7	Anthracene	20 U
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**110**
129-00-0	**Pyrene**	**87**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	100 U J
56-55-3	**Benzo(a)anthracene**	**40**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**93** ~~J~~ U
218-01-9	**Chrysene**	**56**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**44**
207-08-9	**Benzo(k)fluoranthene**	**39**
50-32-8	**Benzo(a)pyrene**	**40**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**22**
53-70-3	Dibenz(a,h)anthracene	20 U
191-24-2	**Benzo(g,h,i)perylene**	**28**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	42.3%	d5-Phenol	49.2%
2-Fluorobiphenyl	49.0%	2-Fluorophenol	48.1%
d14-p-Terphenyl	59.9%	2,4,6-Tribromophenol	68.1%
d4-1,2-Dichlorobenzene	36.2%	d4-2-Chlorophenol	44.9%

FORM-1

JMB 1/22/9

~~001807~~

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4927
WR-SD-SD071-0000

Lab Sample ID: T914X
LIMS ID: 97-17608
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Data Release Authorized: CWB
Reported: 11/13/97

Date Analyzed: 10/28/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid_____	6.72	SVOA	380 JN
2.	--	Unknown_Organic_Acid_____	6.99	SVOA	80 JN
3.	--	Unknown_Ketone_____	10.02	SVOA	140 JN
4.	--	Unknown_Organic_Acid_____	11.96	SVOA	360 JN
5.	--	Unknown_Cycloalkane_____	16.89	SVOA	110 JN
6.	--	Unknown_Organic_Acid_____	17.07	SVOA	130 JN
7.	--	Unknown_Organic_Acid_____	17.74	SVOA	95 JN
8.	--	Unknown_____	19.20	SVOA	260 JN
9.	--	Unknown_Alcohol_____	20.00	SVOA	150 JN
10.	--	Unknown_____	20.10	SVOA	230 JN
11.	--	Unknown_Aromatic_____	21.04	SVOA	740 JN
12.	--	Unknown_Aromatic_____	23.78	SVOA	370 JN
13.	--	Unknown_Sterol_type_____	26.60	SVOA	350 JN
14.	--	Unknown_Sterol_type_____	27.34	SVOA	220 JN
15.	--	Unknown_____	27.87	SVOA	370 JN
16.	--	Unknown_____	28.05	SVOA	680 JN
17.	--	Unknown_Sterol_type_____	28.16	SVOA	990 JN
18.	--	Unknown_Aromatic_____	28.34	SVOA	480 JN
19.	--	Unknown_____	28.50	SVOA	180 JN
20.	--	Unknown_Sterol_type_____	28.61	SVOA	480 JN

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FORM-1-B

~~001808~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914Y
LIMS ID: 97-17609
Matrix: Sediment
Data Release Authorized:
Reported: 11/13/97

Sample No: 9738 4928
WR-SD-SD073-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/28/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 49.8%
pH: 6.8

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	40 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U J
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U J
106-44-5	**4-Methylphenol**	**320**
621-64-7	N-Nitroso-Di-N-Propylamine	40 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	99 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	60 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**24**
106-47-8	4-Chloroaniline	60 U J
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	40 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	99 U J
88-06-2	2,4,6-Trichlorophenol	99 U
95-95-4	2,4,5-Trichlorophenol	99 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	99 U
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U J
83-32-9	Acenaphthene	20 U
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	99 U
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	99 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914Y
LIMS ID: 97-17609
Matrix: Sediment
Data Release Authorized:
Reported: 11/13/97

Sample No: 9738 4928
WR-SD-SD073-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/28/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 49.8%
pH: 6.8

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	99 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	Fluorene	20 U
100-01-6	4-Nitroaniline	99 U J
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	99 U J
85-01-8	**Phenanthrene**	**54**
86-74-8	Carbazole	20 U J
120-12-7	Anthracene	20 U
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**71**
129-00-0	**Pyrene**	**57**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	99 U J
56-55-3	**Benzo(a)anthracene**	**24**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**120 ~~B~~ U**
218-01-9	**Chrysene**	**36**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**25**
207-08-9	**Benzo(k)fluoranthene**	**28**
50-32-8	**Benzo(a)pyrene**	**24**
193-39-5	Indeno(1,2,3-cd)pyrene	20 U
53-70-3	Dibenz(a,h)anthracene	20 U
191-24-2	Benzo(g,h,i)perylene	20 U

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	39.9%	d5-Phenol	43.5%
2-Fluorobiphenyl	43.8%	2-Fluorophenol	44.2%
d14-p-Terphenyl	48.2%	2,4,6-Tribromophenol	52.4%
d4-1,2-Dichlorobenzene	35.6%	d4-2-Chlorophenol	40.2%

FORM-1
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~~001352~~ JMB 1/22/99

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4928
WR-SD-SD073-0000

Lab Sample ID: T914Y
LIMS ID: 97-17609
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Data Release Authorized: BWB
Reported: 11/13/97

Date Analyzed: 10/28/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid_____	6.80	SVOA	390 JN
2.	--	Unknown_Organic_Acid_____	7.07	SVOA	90 JN
3.	--	Unknown_Organic_Acid_____	11.98	SVOA	400 JN
4.	--	Unknown_Cycloalkane_____	14.31	SVOA	130 JN
5.	19407-28-4	Phenanthrene,_1,2,3,4,4a,	19.78	SVOA	190 JN
6.	--	Unknown_____	20.10	SVOA	280 JN
7.	--	Unknown_Aromatic_____	21.04	SVOA	470 JN
8.	--	Unknown_____	22.34	SVOA	250 JN
9.	--	Unknown_Aldehyde_____	23.52	SVOA	260 JN
10.	--	Unknown_Aromatic_____	23.79	SVOA	330 JN
11.	--	Unknown_Sterol_type_____	25.11	SVOA	300 JN
12.	--	Unknown_Aldehyde_____	25.86	SVOA	200 JN
13.	--	Unknown_Sterol_type_____	26.60	SVOA	260 JN
14.	--	Unknown_Sterol_type_____	27.73	SVOA	1,000 JN
15.	--	Unknown_Aromatic_____	27.88	SVOA	1,400 JN
16.	--	Unknown_____	28.05	SVOA	1,000 JN
17.	--	Unknown_____	28.17	SVOA	1,400 JN
18.	--	Unknown_____	28.34	SVOA	580 JN
19.	--	Unknown_____	28.50	SVOA	260 JN
20.	--	Unknown_Sterol_type_____	28.61	SVOA	540 JN

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FORM-1-B

~~001353~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914Z
LIMS ID: 97-17610
Matrix: Sediment
Data Release Authorized:
Reported: 11/13/97

Sample No: 9738 4929
WR-SD-SD076-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/28/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 49.2%
pH: 7.1

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U J
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U J
106-44-5	**4-Methylphenol**	**490**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	98 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	Naphthalene	20 U
106-47-8	4-Chloroaniline	59 U J
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	98 U J
88-06-2	2,4,6-Trichlorophenol	98 U
95-95-4	2,4,5-Trichlorophenol	98 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	98 U
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U J
83-32-9	Acenaphthene	20 U
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	98 U
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	98 U

FORM-1

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~~001333~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914Z
LIMS ID: 97-17610
Matrix: Sediment
Data Release Authorized: [illegible]
Reported: 11/13/97

Sample No: 9738 4929
WR-SD-SD076-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/28/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 49.2%
pH: 7.1

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	98 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	Fluorene	20 U
100-01-6	4-Nitroaniline	98 U J
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	98 U J
85-01-8	**Phenanthrene**	**42**
86-74-8	Carbazole	20 U J
120-12-7	Anthracene	20 U
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**74**
129-00-0	**Pyrene**	**61**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	98 U J
56-55-3	**Benzo(a)anthracene**	**26**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**140** ~~J~~ U
218-01-9	**Chrysene**	**40**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**25**
207-08-9	**Benzo(k)fluoranthene**	**31**
50-32-8	**Benzo(a)pyrene**	**26**
193-39-5	Indeno(1,2,3-cd)pyrene	20 U
53-70-3	Dibenz(a,h)anthracene	20 U
191-24-2	**Benzo(g,h,i)perylene**	**20 J**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	36.2%	d5-Phenol	41.3%
2-Fluorobiphenyl	42.0%	2-Fluorophenol	42.5%
d14-p-Terphenyl	51.0%	2,4,6-Tribromophenol	57.1%
d4-1,2-Dichlorobenzene	31.2%	d4-2-Chlorophenol	38.1%

FORM-1

JMB 1/22/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4929
WR-SD-SD076-0000

Lab Sample ID: T914Z
LIMS ID: 97-17610
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Data Release Authorized: GWB
Reported: 11/13/97

Date Analyzed: 10/28/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid_____	6.64	SVOA	280 JN
2.	--	Unknown_Organic_Acid_____	6.89	SVOA	600 JN
3.	--	Unknown_Organic_Acid_____	7.13	SVOA	180 JN
4.	--	Unknown_Organic_Acid_____	12.00	SVOA	620 JN
5.	--	Unknown_Organic_Acid_____	17.08	SVOA	150 JN
6.	--	Unknown_____	19.20	SVOA	280 JN
7.	--	Unknown_Alcohol_____	19.67	SVOA	300 JN
8.	--	Unknown_Aromatic_____	20.11	SVOA	270 JN
9.	--	Unknown_Aromatic_____	21.04	SVOA	450 JN
10.	--	Unknown_Aromatic_____	23.79	SVOA	470 JN
11.	--	Unknown_Sterol_type_____	25.10	SVOA	300 JN
12.	--	Unknown_Sterol_type_____	26.61	SVOA	410 JN
13.	--	Unknown_Sterol_type_____	26.66	SVOA	280 JN
14.	--	Unknown_Sterol_type_____	27.20	SVOA	380 JN
15.	--	Unknown_Aromatic_____	27.88	SVOA	500 JN
16.	--	Unknown_____	28.05	SVOA	840 JN
17.	--	Unknown_____	28.17	SVOA	1,100 JN
18.	--	Unknown_____	28.33	SVOA	490 JN
19.	--	Unknown_____	28.50	SVOA	220 JN
20.	--	Unknown_Sterol_type_____	28.61	SVOA	500 JN

FORM-1-B

JMB
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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914AA
LIMS ID: 97-17611
Matrix: Sediment
Data Release Authorized: GMB
Reported: 11/13/97

Sample No: 9738 4930
WR-SD-SD074-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/28/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 50.0%
pH: 6.9

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	40 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U J
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U J
106-44-5	**4-Methylphenol**	**560**
621-64-7	N-Nitroso-Di-N-Propylamine	40 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	100 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	60 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**31**
106-47-8	4-Chloroaniline	60 U J
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	40 U
91-57-6	**2-Methylnaphthalene**	**47**
77-47-4	Hexachlorocyclopentadiene	100 U J
88-06-2	2,4,6-Trichlorophenol	100 U
95-95-4	2,4,5-Trichlorophenol	100 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	100 U
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U J
83-32-9	**Acenaphthene**	**47**
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	100 U
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	100 U

FORM-1

~~001936~~ JMB 1/22/9

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914AA
LIMS ID: 97-17611
Matrix: Sediment
Data Release Authorized: GWB
Reported: 11/13/97

Sample No: 9738 4930
WR-SD-SD074-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/28/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 50.0%
pH: 6.9

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	100 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	**Fluorene**	**55**
100-01-6	4-Nitroaniline	100 U J
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	100 U J
85-01-8	**Phenanthrene**	**350**
86-74-8	**Carbazole**	**54** J
120-12-7	**Anthracene**	**60**
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**210**
129-00-0	**Pyrene**	**290**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	100 U J
56-55-3	**Benzo(a)anthracene**	**180**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**120** ~~B~~U
218-01-9	**Chrysene**	**270**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**91**
207-08-9	**Benzo(k)fluoranthene**	**98**
50-32-8	**Benzo(a)pyrene**	**160**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**57**
53-70-3	**Dibenz(a,h)anthracene**	**26**
191-24-2	**Benzo(g,h,i)perylene**	**82**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	46.2%	d5-Phenol	51.5%
2-Fluorobiphenyl	53.4%	2-Fluorophenol	52.3%
d14-p-Terphenyl	56.2%	2,4,6-Tribromophenol	64.3%
d4-1,2-Dichlorobenzene	40.2%	d4-2-Chlorophenol	47.9%

FORM-1

~~001937~~ JMK 1/22/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4930
WR- SD- SD074-0000

Lab Sample ID: T914AA
LIMS ID: 97-17611
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Data Release Authorized: CRB
Reported: 11/13/97

Date Analyzed: 10/28/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid	6.67	SVOA	360 J N
2.	--	Unknown_Organic_Acid	6.94	SVOA	420 J N
3.	--	Unknown_Organic_Acid	12.01	SVOA	690 J N
4.	--	Unknown_Cycloalkane	14.31	SVOA	170 J N
5.	--	Unknown_C15.H12_PNA	18.57	SVOA	290 J N
6.	--	Unknown_Aromatic	18.74	SVOA	160 J N
7.	--	Unknown_C16.H14_PNA	19.67	SVOA	220 J N
8.	--	Unknown_Aromatic	21.05	SVOA	360 J N
9.	--	Unknown_C19.H14_PNA	23.62	SVOA	230 J N
10.	--	Unknown_Aromatic	23.80	SVOA	300 J N
11.	--	Unknown_Aldehyde	24.75	SVOA	440 J N
12.	--	Unknown_Sterol_type	26.61	SVOA	230 J N
13.	--	Unknown_Aromatic	27.34	SVOA	210 J N
14.	--	Unknown	27.79	SVOA	330 J N
15.	--	Unknown	27.88	SVOA	460 J N
16.	--	Unknown	28.06	SVOA	660 J N
17.	--	Unknown_Sterol_type	28.18	SVOA	870 J N
18.	--	Unknown	28.34	SVOA	420 J N
19.	--	Unknown	28.51	SVOA	170 J N
20.	--	Unknown_Sterol_type	28.62	SVOA	390 J N

FORM-1-B

JMB
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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914AB
LIMS ID: 97-17612
Matrix: Sediment
Data Release Authorized: BNB
Reported: 11/13/97

Sample No: 9738 4933
WR-SD-SD062-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/29/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:10
Percent Moisture: 51.4%
pH: 6.7

CAS Number	Analyte	ug/kg
108-95-2	Phenol	200 U
111-44-4	Bis-(2-Chloroethyl) Ether	390 U
95-57-8	2-Chlorophenol	200 U
541-73-1	1,3-Dichlorobenzene	200 U
106-46-7	1,4-Dichlorobenzene	200 U
100-51-6	Benzyl Alcohol	200 U J
95-50-1	1,2-Dichlorobenzene	200 U
95-48-7	2-Methylphenol	200 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	200 U
106-44-5	4-Methylphenol	200 U
621-64-7	N-Nitroso-Di-N-Propylamine	390 U
67-72-1	Hexachloroethane	200 U
98-95-3	Nitrobenzene	200 U
78-59-1	Isophorone	200 U
88-75-5	2-Nitrophenol	980 U
105-67-9	2,4-Dimethylphenol	200 U
65-85-0	Benzoic Acid	2,000 U
111-91-1	bis(2-Chloroethoxy) Methane	200 U
120-83-2	2,4-Dichlorophenol	590 U
120-82-1	1,2,4-Trichlorobenzene	200 U
91-20-3	**Naphthalene**	**1,900**
106-47-8	4-Chloroaniline	590 U
87-68-3	Hexachlorobutadiene	200 U
59-50-7	4-Chloro-3-methylphenol	390 U
91-57-6	**2-Methylnaphthalene**	~~20,000 E~~ 18000 D
77-47-4	Hexachlorocyclopentadiene	980 U J
88-06-2	2,4,6-Trichlorophenol	980 U
95-95-4	2,4,5-Trichlorophenol	980 U
91-58-7	2-Chloronaphthalene	200 U
88-74-4	2-Nitroaniline	980 U
131-11-3	Dimethylphthalate	200 U
208-96-8	**Acenaphthylene**	**560**
99-09-2	3-Nitroaniline	1,200 U
83-32-9	**Acenaphthene**	**15,000**
51-28-5	2,4-Dinitrophenol	2,000 U J
100-02-7	4-Nitrophenol	980 U
132-64-9	**Dibenzofuran**	**2,600**
606-20-2	2,6-Dinitrotoluene	980 U

FORM-1

~~001937~~ JME 1/22/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS

Lab Sample ID: T914AB
LIMS ID: 97-17612
Matrix: Sediment
Data Release Authorized: BMB
Reported: 11/13/97

Sample No: 9738 4933
WR-SD-SD062-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/29/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:10
Percent Moisture: 51.4%
pH: 6.7

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	980 U
84-66-2	Diethylphthalate	200 U
7005-72-3	4-Chlorophenyl-phenylether	200 U
86-73-7	**Fluorene**	**20,000 ~~E~~ D**
100-01-6	4-Nitroaniline	980 U
534-52-1	4,6-Dinitro-2-Methylphenol	2,000 U
86-30-6	N-Nitrosodiphenylamine	200 U
101-55-3	4-Bromophenyl-phenylether	200 U
118-74-1	Hexachlorobenzene	200 U
87-86-5	Pentachlorophenol	980 U J
85-01-8	**Phenanthrene**	**~~89,000 E~~ 150000 D**
86-74-8	**Carbazole**	**8,400 J**
120-12-7	**Anthracene**	**~~19,000 E~~ 24000 D**
84-74-2	Di-n-Butylphthalate	200 U
206-44-0	**Fluoranthene**	**~~36,000 E~~ 47000 D**
129-00-0	**Pyrene**	**~~79,000 E~~ 140000 D**
85-68-7	Butylbenzylphthalate	200 U
91-94-1	3,3'-Dichlorobenzidine	980 U
56-55-3	**Benzo(a)anthracene**	**~~56,000 E~~ 72000 D**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**210 ~~B~~ U**
218-01-9	**Chrysene**	**~~66,000 E~~ 100000 D**
117-84-0	Di-n-Octyl phthalate	200 U
205-99-2	**Benzo(b)fluoranthene**	**~~28,000 E~~ 33000 D**
207-08-9	**Benzo(k)fluoranthene**	**14,000**
50-32-8	**Benzo(a)pyrene**	**~~47,000 E~~ 57000 D**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**12,000**
53-70-3	**Dibenz(a,h)anthracene**	**9,200**
191-24-2	**Benzo(g,h,i)perylene**	**~~19,000 E~~ 40000 D**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	40.0%	d5-Phenol	36.8%
2-Fluorobiphenyl	38.8%	2-Fluorophenol	35.5%
d14-p-Terphenyl	61.2%	2,4,6-Tribromophenol	41.1%
d4-1,2-Dichlorobenzene	36.0%	d4-2-Chlorophenol	36.8%

FORM-1

JMB 1/22/9

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4933
WR-SD-SD062-0000

Lab Sample ID: T914AB
LIMS ID: 97-17612
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Data Release Authorized: GWB
Reported: 11/13/97

Date Analyzed: 10/29/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Naphthalene,_Dimethyl_Iso	13.68	SVOA	16,000 JN
2.	--	Naphthalene,_Dimethyl_Iso	13.85	SVOA	24,000 JN
3.	--	Naphthalene,_Trimethyl_Is	15.21	SVOA	13,000 JN
4.	132-65-0	Dibenzothiophene	17.23	SVOA	13,000 JN
5.	--	Unknown_C15.H12_PNA	18.49	SVOA	25,000 JN
6.	--	Unknown_C15.H12_PNA	18.57	SVOA	23,000 JN
7.	--	Unknown_C15.H12_PNA	18.72	SVOA	24,000 JN
8.	--	Unknown_C16.H14_PNA	19.49	SVOA	22,000 JN
9.	--	Unknown_Aromatic	19.64	SVOA	15,000 JN
10.	--	Unknown_C17.H12_PNA	21.06	SVOA	23,000 JN
11.	--	Unknown_C17.H12_PNA	21.19	SVOA	11,000 JN
12.	--	Unknown_C17.H12_PNA	21.28	SVOA	25,000 JN
13.	--	Unknown_C17.H12_PNA	21.45	SVOA	13,000 JN
14.	--	Unknown_C17.H12_PNA	21.50	SVOA	12,000 JN
15.	--	Unknown_C18.H14_PNA	21.90	SVOA	13,000 JN
16.	--	Unknown_PNA	22.10	SVOA	11,000 JN
17.	--	Unknown_C19.H14_PNA	23.63	SVOA	30,000 JN
18.	--	Unknown_C19.H14_PNA	23.70	SVOA	15,000 JN
19.	--	Unknown_C19.H14_PNA	23.76	SVOA	15,000 JN
20.	--	Unknown_C19.H14_PNA	23.86	SVOA	14,000 JN

FORM-1-B

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~~001339~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914AB
LIMS ID: 97-17612
Matrix: Sediment
Data Release Authorized: GWB
Reported: 11/13/97

Sample No: 9738 4933
DILUTION

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/29/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:100
Percent Moisture: 51.4%
pH: 6.7

CAS Number	Analyte	ug/kg
108-95-2	Phenol	2,000 U
111-44-4	Bis-(2-Chloroethyl) Ether	3,900 U
95-57-8	2-Chlorophenol	2,000 U
541-73-1	1,3-Dichlorobenzene	2,000 U
106-46-7	1,4-Dichlorobenzene	2,000 U
100-51-6	Benzyl Alcohol	2,000 U J
95-50-1	1,2-Dichlorobenzene	2,000 U
95-48-7	2-Methylphenol	2,000 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	2,000 U
106-44-5	4-Methylphenol	2,000 U
621-64-7	N-Nitroso-Di-N-Propylamine	3,900 U
67-72-1	Hexachloroethane	2,000 U
98-95-3	Nitrobenzene	2,000 U
78-59-1	Isophorone	2,000 U
88-75-5	2-Nitrophenol	9,800 U
105-67-9	2,4-Dimethylphenol	2,000 U
65-85-0	Benzoic Acid	20,000 U
111-91-1	bis(2-Chloroethoxy) Methane	2,000 U
120-83-2	2,4-Dichlorophenol	5,900 U
120-82-1	1,2,4-Trichlorobenzene	2,000 U
91-20-3	**Naphthalene**	**2,700**
106-47-8	4-Chloroaniline	5,900 U
87-68-3	Hexachlorobutadiene	2,000 U
59-50-7	4-Chloro-3-methylphenol	3,900 U
91-57-6	**2-Methylnaphthalene**	**18,000**
77-47-4	Hexachlorocyclopentadiene	9,800 U J
88-06-2	2,4,6-Trichlorophenol	9,800 U
95-95-4	2,4,5-Trichlorophenol	9,800 U
91-58-7	2-Chloronaphthalene	2,000 U
88-74-4	2-Nitroaniline	9,800 U
131-11-3	Dimethylphthalate	2,000 U
208-96-8	Acenaphthylene	2,000 U
99-09-2	3-Nitroaniline	12,000 U
83-32-9	**Acenaphthene**	**17,000**
51-28-5	2,4-Dinitrophenol	20,000 U J
100-02-7	4-Nitrophenol	9,800 U
132-64-9	**Dibenzofuran**	**3,000**
606-20-2	2,6-Dinitrotoluene	9,800 U

FORM-1

~~002347~~ JMB 1/22/

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS

Sample No: 9738 4933
DILUTION

Lab Sample ID: T914AB
LIMS ID: 97-17612
Matrix: Sediment
Data Release Authorized: RWB
Reported: 11/13/97

QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/29/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:100
Percent Moisture: 51.4%
pH: 6.7

CAS Number	Analyte	ug/kg	
121-14-2	2,4-Dinitrotoluene	9,800	U
84-66-2	Diethylphthalate	2,000	U
7005-72-3	4-Chlorophenyl-phenylether	2,000	U
86-73-7	**Fluorene**	**20,000**	
100-01-6	4-Nitroaniline	9,800	U
534-52-1	4,6-Dinitro-2-Methylphenol	20,000	U
86-30-6	N-Nitrosodiphenylamine	2,000	U
101-55-3	4-Bromophenyl-phenylether	2,000	U
118-74-1	Hexachlorobenzene	2,000	U
87-86-5	Pentachlorophenol	9,800	U J
85-01-8	**Phenanthrene**	**150,000**	
86-74-8	**Carbazole**	**8,500**	J
120-12-7	**Anthracene**	**24,000**	
84-74-2	Di-n-Butylphthalate	2,000	U
206-44-0	**Fluoranthene**	**47,000**	
129-00-0	**Pyrene**	**140,000**	
85-68-7	Butylbenzylphthalate	2,000	U
91-94-1	3,3'-Dichlorobenzidine	9,800	U
56-55-3	**Benzo(a)anthracene**	**72,000**	
117-81-7	bis(2-Ethylhexyl)phthalate	2,000	U
218-01-9	**Chrysene**	**100,000**	
117-84-0	Di-n-Octyl phthalate	2,000	U
205-99-2	**Benzo(b)fluoranthene**	**33,000**	
207-08-9	**Benzo(k)fluoranthene**	**20,000**	
50-32-8	**Benzo(a)pyrene**	**57,000**	
193-39-5	**Indeno(1,2,3-cd)pyrene**	**24,000**	
53-70-3	**Dibenz(a,h)anthracene**	**13,000**	
191-24-2	**Benzo(g,h,i)perylene**	**40,000**	

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	D	d5-Phenol	D
2-Fluorobiphenyl	D	2-Fluorophenol	D
d14-p-Terphenyl	D	2,4,6-Tribromophenol	D
d4-1,2-Dichlorobenzene	D	d4-2-Chlorophenol	D

FORM-1

~~002041~~ JML 1/22

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4933
DILUTION

Lab Sample ID: T914AB
LIMS ID: 97-17612
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project:
1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Data Release Authorized: ANR
Reported: 11/13/97

Date Analyzed: 10/29/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	---	Naphthalene,_Dimethyl_Iso	13.65	SVOA	27,000 JN
2.	---	Naphthalene,_Dimethyl_Iso	13.82	SVOA	42,000 J
3.	---	Naphthalene,_Dimethyl_Iso	14.04	SVOA	17,000 J
4.	---	Unknown_Aromatic	14.70	SVOA	17,000 J
5.	---	Naphthalene,_Trimethyl_Is	14.94	SVOA	21,000 J
6.	---	Naphthalene,_Trimethyl_Is	15.19	SVOA	23,000 J
7.	---	Unknown	15.91	SVOA	18,000 J
8.	---	Unknown_C15.H12_PNA	18.44	SVOA	22,000 J
9.	---	Unknown_C15.H12_PNA	18.50	SVOA	35,000 J
10.	---	Unknown_C15.H12_PNA	18.67	SVOA	25,000 J
11.	---	Unknown_C16.H14_PNA	19.43	SVOA	25,000 J
12.	---	Unknown_C16.H14_PNA	19.59	SVOA	17,000 J
13.	---	Unknown_C17.H12_PNA	20.99	SVOA	22,000 J
14.	---	Unknown_C17.H12_PNA	21.19	SVOA	20,000 J
15.	---	Unknown_PNA	21.84	SVOA	19,000 J
16.	---	Unknown_PNA	22.04	SVOA	15,000 J
17.	---	Unknown_C19.H14_PNA	23.53	SVOA	36,000 J
18.	---	Unknown_C19.H14_PNA	23.61	SVOA	20,000 J
19.	---	Unknown_C19.H14_PNA	23.69	SVOA	22,000 J
20.	---	Unknown	23.78	SVOA	43,000 J

FORM-1-B

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914AC
LIMS ID: 97-17613
Matrix: Sediment
Data Release Authorized: CWR
Reported: 11/13/97

Sample No: 9738 4934
WR-SD-SD063-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/29/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.5 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 48.6%
pH: 6.7

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U
106-44-5	**4-Methylphenol**	**200**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	97 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**1,200**
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	**2-Methylnaphthalene**	**680**
77-47-4	Hexachlorocyclopentadiene	97 U J
88-06-2	2,4,6-Trichlorophenol	97 U
95-95-4	2,4,5-Trichlorophenol	97 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	97 U
131-11-3	Dimethylphthalate	19 U
208-96-8	**Acenaphthylene**	**370**
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**2,600** ~~E~~D
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	97 U
132-64-9	**Dibenzofuran**	**530**
606-20-2	2,6-Dinitrotoluene	97 U

FORM-1

JMB 1/22/9

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914AC
LIMS ID: 97-17613
Matrix: Sediment
Data Release Authorized: BKB
Reported: 11/13/97

Sample No: 9738 4934
WR-SD-SD063-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/29/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.5 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 48.6%
pH: 6.7

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	97 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	~~2,500 E~~ 2400 D
100-01-6	4-Nitroaniline	97 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	97 U J
85-01-8	**Phenanthrene**	~~10,000 E~~ 17000 D
86-74-8	**Carbazole**	260 J
120-12-7	**Anthracene**	~~2,900 E~~ 3400 D
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	~~6,500 E~~ 11000 D
129-00-0	**Pyrene**	~~10,000 E~~ 18000 D
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	97 U
56-55-3	**Benzo(a)anthracene**	~~3,900 E~~ 4000 D
117-81-7	**bis(2-Ethylhexyl)phthalate**	130 ~~B~~ U
218-01-9	**Chrysene**	~~4,700 E~~ 5600 D
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	~~4,000 E~~ 3100 D
207-08-9	**Benzo(k)fluoranthene**	~~2,400 E~~ 3200 D
50-32-8	**Benzo(a)pyrene**	5,100 ~~E~~ D
193-39-5	**Indeno(1,2,3-cd)pyrene**	~~2,600 E~~ 3000 D
53-70-3	**Dibenz(a,h)anthracene**	1,000
191-24-2	**Benzo(g,h,i)perylene**	~~3,300 E~~ 3600 D

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	39.1%	d5-Phenol	42.7%
2-Fluorobiphenyl	41.6%	2-Fluorophenol	41.9%
d14-p-Terphenyl	72.5%	2,4,6-Tribromophenol	48.5%
d4-1,2-Dichlorobenzene	37.3%	d4-2-Chlorophenol	41.0%

FORM-1

JMB 1/22/99

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4934
WR-SD-SD063-0000

Lab Sample ID: T914AC
LIMS ID: 97-17613
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Data Release Authorized: ONO
Reported: 11/13/97

Date Analyzed: 10/29/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	90-12-0	Naphthalene,_1-methyl-___	12.64	SVOA	1,100 JN
2.	--	Naphthalene,_Ethyl_Isomer	13.55	SVOA	520 JN
3.	--	Naphthalene,_Dimethyl_Iso	13.69	SVOA	1,200 JN
4.	--	Naphthalene,_Dimethyl_Iso	13.86	SVOA	1,800 JN
5.	2027-17-0	Naphthalene,_2-(1-methyle	14.73	SVOA	570 JN
6.	--	Naphthalene,_Trimethyl_Is	14.97	SVOA	480 JN
7.	--	Naphthalene,_Trimethyl_Is	15.03	SVOA	700 JN
8.	--	Naphthalene,_Trimethyl_Is	15.23	SVOA	970 JN
9.	--	Naphthalene,_Trimethyl_Is	15.39	SVOA	540 JN
10.	--	Unknown_____	15.96	SVOA	1,300 JN
11.	132-65-0	Dibenzothiophene_____	17.27	SVOA	930 JN
12.	--	Unknown_____	18.14	SVOA	680 JN
13.	--	Unknown_C15.H12_PNA_____	18.52	SVOA	840 JN
14.	--	Unknown_C15.H12_PNA_____	18.60	SVOA	860 JN
15.	--	Unknown_PNA_____	18.76	SVOA	1,100 JN
16.	--	Unknown_C16.H12_PNA_____	19.12	SVOA	610 JN
17.	--	Unknown_C16.H14_PNA_____	19.42	SVOA	580 JN
18.	--	Unknown_C16.H14_PNA_____	19.52	SVOA	720 JN
19.	--	Unknown_C16.H14_PNA_____	19.67	SVOA	790 JN
20.	--	Unknown_Aromatic_____	21.06	SVOA	620 JN

JMB
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FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914AC
LIMS ID: 97-17613
Matrix: Sediment
Data Release Authorized: MB
Reported: 11/13/97

Sample No: 9738 4934
DILUTION

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/29/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.5 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:20
Percent Moisture: 48.6%
pH: 6.7

CAS Number	Analyte	ug/kg
108-95-2	Phenol	390 U
111-44-4	Bis-(2-Chloroethyl) Ether	780 U
95-57-8	2-Chlorophenol	390 U
541-73-1	1,3-Dichlorobenzene	390 U
106-46-7	1,4-Dichlorobenzene	390 U
100-51-6	Benzyl Alcohol	390 U J
95-50-1	1,2-Dichlorobenzene	390 U
95-48-7	2-Methylphenol	390 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	390 U
106-44-5	4-Methylphenol	390 U
621-64-7	N-Nitroso-Di-N-Propylamine	780 U
67-72-1	Hexachloroethane	390 U
98-95-3	Nitrobenzene	390 U
78-59-1	Isophorone	390 U
88-75-5	2-Nitrophenol	1,900 U
105-67-9	2,4-Dimethylphenol	390 U
65-85-0	Benzoic Acid	3,900 U
111-91-1	bis(2-Chloroethoxy) Methane	390 U
120-83-2	2,4-Dichlorophenol	1,200 U
120-82-1	1,2,4-Trichlorobenzene	390 U
91-20-3	**Naphthalene**	**960**
106-47-8	4-Chloroaniline	1,200 U
87-68-3	Hexachlorobutadiene	390 U
59-50-7	4-Chloro-3-methylphenol	780 U
91-57-6	**2-Methylnaphthalene**	**440**
77-47-4	Hexachlorocyclopentadiene	1,900 U J
88-06-2	2,4,6-Trichlorophenol	1,900 U
95-95-4	2,4,5-Trichlorophenol	1,900 U
91-58-7	2-Chloronaphthalene	390 U
88-74-4	2-Nitroaniline	1,900 U
131-11-3	Dimethylphthalate	390 U
208-96-8	Acenaphthylene	390 U
99-09-2	3-Nitroaniline	2,300 U
83-32-9	**Acenaphthene**	**2,600**
51-28-5	2,4-Dinitrophenol	3,900 U J
100-02-7	4-Nitrophenol	1,900 U
132-64-9	**Dibenzofuran**	**470**
606-20-2	2,6-Dinitrotoluene	1,900 U

FORM-1

JMB 1/22/14

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS

Sample No: 9738 4934
DILUTION

Lab Sample ID: T914AC
LIMS ID: 97-17613
Matrix: Sediment
Data Release Authorized: GVB
Reported: 11/13/97

QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/29/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 31.5 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:20
Percent Moisture: 48.6%
pH: 6.7

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	1,900 U
84-66-2	Diethylphthalate	390 U
7005-72-3	4-Chlorophenyl-phenylether	390 U
86-73-7	**Fluorene**	**2,400**
100-01-6	4-Nitroaniline	1,900 U
534-52-1	4,6-Dinitro-2-Methylphenol	3,900 U
86-30-6	N-Nitrosodiphenylamine	390 U
101-55-3	4-Bromophenyl-phenylether	390 U
118-74-1	Hexachlorobenzene	390 U
87-86-5	Pentachlorophenol	1,900 U J
85-01-8	**Phenanthrene**	**17,000**
86-74-8	Carbazole	390 U J
120-12-7	**Anthracene**	**3,400**
84-74-2	Di-n-Butylphthalate	390 U
206-44-0	**Fluoranthene**	**11,000**
129-00-0	**Pyrene**	**18,000**
85-68-7	Butylbenzylphthalate	390 U
91-94-1	3,3'-Dichlorobenzidine	1,900 U
56-55-3	**Benzo(a)anthracene**	**4,000**
117-81-7	bis(2-Ethylhexyl)phthalate	390 U
218-01-9	**Chrysene**	**5,600**
117-84-0	Di-n-Octyl phthalate	390 U
205-99-2	**Benzo(b)fluoranthene**	**3,100**
207-08-9	**Benzo(k)fluoranthene**	**3,200**
50-32-8	**Benzo(a)pyrene**	**5,100**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**3,000**
53-70-3	**Dibenz(a,h)anthracene**	**780**
191-24-2	**Benzo(g,h,i)perylene**	**3,600**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	24.8%	d5-Phenol	40.0%
2-Fluorobiphenyl	34.4%	2-Fluorophenol	39.5%
d14-p-Terphenyl	60.8%	2,4,6-Tribromophenol	42.1%
d4-1,2-Dichlorobenzene	47.2%	d4-2-Chlorophenol	37.9%

FORM-1

JMB 1/22/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4934
DILUTION

Lab Sample ID: T914AC
LIMS ID: 97-17613
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Data Release Authorized: [illegible]
Reported: 11/13/97

Date Analyzed: 10/29/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	90-12-0	Naphthalene,_1-methyl-___	12.60	SVOA	2,000 JN
2.	---	Naphthalene,_Dimethyl_Iso	13.65	SVOA	2,600 J N
3.	---	Naphthalene,_Dimethyl_Iso	13.81	SVOA	4,000 J
4.	---	Naphthalene,_Trimethyl_Is	14.98	SVOA	1,400 J
5.	---	Naphthalene,_Trimethyl_Is	15.18	SVOA	2,100 J
6.	---	Unknown_C14.H12_PNA_____	16.84	SVOA	1,800 J
7.	132-65-0	Dibenzothiophene_____	17.19	SVOA	2,000 JN
8.	---	Unknown_Aromatic_____	18.08	SVOA	2,000 J N
9.	---	Unknown_C15.H12_PNA_____	18.43	SVOA	2,700 J
10.	---	Unknown_C15.H12_PNA_____	18.48	SVOA	3,700 J
11.	---	Unknown_PNA_____	18.66	SVOA	5,200 J
12.	---	Unknown_C16.H12_PNA_____	19.04	SVOA	1,400 J
13.	---	Unknown_C16.H14_PNA_____	19.34	SVOA	1,900 J
14.	---	Unknown_C16.H14_PNA_____	19.42	SVOA	2,300 J
15.	---	Unknown_C16.H14_PNA_____	19.58	SVOA	2,700 J
16.	---	Unknown_C16.H14_PNA_____	19.63	SVOA	1,400 J
17.	---	Unknown_Aromatic_____	20.96	SVOA	3,800 J
18.	---	Unknown_C17.H12_PNA_____	21.17	SVOA	1,500 J
19.	---	Unknown_C22.H12_PNA_____	27.65	SVOA	1,700 J
20.	---	Unknown_Aromatic_____	27.75	SVOA	1,400 J

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914AD
LIMS ID: 97-17614
Matrix: Sediment
Data Release Authorized: GWB
Reported: 11/13/97

Sample No: 9738 4935
WR-SD-SD064-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 11/07/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:10
Percent Moisture: 53.2%
pH: 6.9

CAS Number	Analyte	ug/kg
108-95-2	Phenol	190 U
111-44-4	Bis-(2-Chloroethyl) Ether	390 U
95-57-8	2-Chlorophenol	190 U
541-73-1	1,3-Dichlorobenzene	190 U
106-46-7	1,4-Dichlorobenzene	190 U
100-51-6	Benzyl Alcohol	190 U
95-50-1	1,2-Dichlorobenzene	190 U
95-48-7	2-Methylphenol	190 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	190 U
106-44-5	4-Methylphenol	190 U
621-64-7	N-Nitroso-Di-N-Propylamine	390 U
67-72-1	Hexachloroethane	190 U
98-95-3	Nitrobenzene	190 U
78-59-1	Isophorone	190 U
88-75-5	2-Nitrophenol	970 U
105-67-9	2,4-Dimethylphenol	190 U
65-85-0	Benzoic Acid	1,900 U
111-91-1	bis(2-Chloroethoxy) Methane	190 U
120-83-2	2,4-Dichlorophenol	580 U
120-82-1	1,2,4-Trichlorobenzene	190 U
91-20-3	**Naphthalene**	~~77,000 E~~ 130000 D
106-47-8	4-Chloroaniline	580 U
87-68-3	Hexachlorobutadiene	190 U
59-50-7	4-Chloro-3-methylphenol	390 U
91-57-6	**2-Methylnaphthalene**	~~37,000 E~~ 44000 D
77-47-4	Hexachlorocyclopentadiene	970 U
88-06-2	2,4,6-Trichlorophenol	970 U
95-95-4	2,4,5-Trichlorophenol	970 U
91-58-7	2-Chloronaphthalene	190 U
88-74-4	2-Nitroaniline	970 U
131-11-3	Dimethylphthalate	190 U
208-96-8	**Acenaphthylene**	**3,400**
99-09-2	3-Nitroaniline	1,200 U
83-32-9	**Acenaphthene**	~~31,000 E~~ 51000 D
51-28-5	2,4-Dinitrophenol	1,900 U J
100-02-7	4-Nitrophenol	970 U
132-64-9	**Dibenzofuran**	**3,700**
606-20-2	2,6-Dinitrotoluene	970 U

FORM-1

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914AD
LIMS ID: 97-17614
Matrix: Sediment
Data Release Authorized: BNT
Reported: 11/13/97

Sample No: 9738 4935
WR-SD-SD064-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 11/07/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:10
Percent Moisture: 53.2%
pH: 6.9

CAS Number	Analyte	ug/kg	
121-14-2	2,4-Dinitrotoluene	970 U	
84-66-2	Diethylphthalate	190 U	
7005-72-3	4-Chlorophenyl-phenylether	190 U	
86-73-7	**Fluorene**	~~20,000 E~~	22000 D
100-01-6	4-Nitroaniline	970 U	
534-52-1	4,6-Dinitro-2-Methylphenol	1,900 U	
86-30-6	N-Nitrosodiphenylamine	190 U	
101-55-3	4-Bromophenyl-phenylether	190 U	
118-74-1	Hexachlorobenzene	190 U	
87-86-5	Pentachlorophenol	970 U	
85-01-8	**Phenanthrene**	~~89,000 E~~	170000 D
86-74-8	**Carbazole**	5,500	
120-12-7	**Anthracene**	~~21,000 E~~	26000 D
84-74-2	Di-n-Butylphthalate	190 U	
206-44-0	**Fluoranthene**	~~66,000 E~~	110000 D
129-00-0	**Pyrene**	~~82,000 E~~	120000 D
85-68-7	Butylbenzylphthalate	190 U	
91-94-1	3,3'-Dichlorobenzidine	970 U	
56-55-3	**Benzo(a)anthracene**	~~24,000 E~~	28000 D
117-81-7	**bis(2-Ethylhexyl)phthalate**	340	
218-01-9	**Chrysene**	~~29,000 E~~	36000 D
117-84-0	Di-n-Octyl phthalate	190 U	
205-99-2	**Benzo(b)fluoranthene**	~~26,000 E~~	23000 D
207-08-9	**Benzo(k)fluoranthene**	14,000	
50-32-8	**Benzo(a)pyrene**	~~34,000 E~~	40000 D
193-39-5	**Indeno(1,2,3-cd)pyrene**	~~21,000 E~~	19000 D
53-70-3	**Dibenz(a,h)anthracene**	6,200	
191-24-2	**Benzo(g,h,i)perylene**	~~27,000 E~~	24000 DJ

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	51.2%	d5-Phenol	44.5%
2-Fluorobiphenyl	49.6%	2-Fluorophenol	41.1%
d14-p-Terphenyl	74.4%	2,4,6-Tribromophenol	53.9%
d4-1,2-Dichlorobenzene	29.2%	d4-2-Chlorophenol	37.3%

FORM-1

JMB 1/22/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4935
WR-SD-SD064-0000

Lab Sample ID: T914AD
LIMS ID: 97-17614
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Data Release Authorized: ONB
Reported: 11/13/97

Date Analyzed: 11/07/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	90-12-0	Naphthalene,_1-methyl-___	12.31	SVOA	23,000 JN
2.	--	Unknown_C12.H10_PNA_____	13.03	SVOA	11,000 JN
3.	--	Naphthalene,_Ethyl_Isomer	13.21	SVOA	11,000 JN
4.	--	Naphthalene,_Dimethyl_Iso	13.34	SVOA	15,000 JN
5.	--	Naphthalene,_Dimethyl_Iso	13.52	SVOA	20,000 JN
6.	--	Naphthalene,_Dimethyl_Iso	13.72	SVOA	11,000 JN
7.	--	Unknown_Aromatic_____	14.19	SVOA	10,000 JN
8.	--	Naphthalene,_Trimethyl_Is	14.86	SVOA	7,700 JN
9.	--	Naphthalene,_Trimethyl_Is	15.01	SVOA	8,600 JN
10.	132-65-0	Dibenzothiophene_____	16.92	SVOA	14,000 JN
11.	--	Unknown_Aromatic_____	17.79	SVOA	7,800 JN
12.	--	Unknown_C15.H12_PNA_____	18.15	SVOA	9,100 JN
13.	--	Unknown_C15.H12_PNA_____	18.21	SVOA	10,000 JN
14.	--	Unknown_Aromatic_____	18.39	SVOA	20,000 JN
15.	--	Unknown_C16.H12_PNA_____	18.75	SVOA	8,000 JN
16.	--	Unknown_C16.H10_PNA_____	19.77	SVOA	9,600 JN
17.	--	Unknown_C17.H12_PNA_____	20.71	SVOA	10,000 JN
18.	--	Unknown_PNA_____	22.04	SVOA	8,600 JN
19.	--	Unknown_C20.H12_PNA_____	24.93	SVOA	12,000 JN
20.	--	Unknown_C20.H12_PNA_____	25.15	SVOA	7,400 JN

FORM-1-B

JMB 12/22/97

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914AD
LIMS ID: 97-17614
Matrix: Sediment
Data Release Authorized: DWB
Reported: 11/13/97

Sample No: 9738 4935
DILUTION

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 11/03/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:200
Percent Moisture: 53.2%
pH: 6.9

CAS Number	Analyte	ug/kg
108-95-2	Phenol	3,900 U
111-44-4	Bis-(2-Chloroethyl) Ether	7,800 U
95-57-8	2-Chlorophenol	3,900 U
541-73-1	1,3-Dichlorobenzene	3,900 U
106-46-7	1,4-Dichlorobenzene	3,900 U
100-51-6	Benzyl Alcohol	3,900 U J
95-50-1	1,2-Dichlorobenzene	3,900 U
95-48-7	2-Methylphenol	3,900 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	3,900 U J
106-44-5	4-Methylphenol	3,900 U
621-64-7	N-Nitroso-Di-N-Propylamine	7,800 U
67-72-1	Hexachloroethane	3,900 U
98-95-3	Nitrobenzene	3,900 U
78-59-1	Isophorone	3,900 U
88-75-5	2-Nitrophenol	19,000 U
105-67-9	2,4-Dimethylphenol	3,900 U
65-85-0	Benzoic Acid	39,000 U J
111-91-1	bis(2-Chloroethoxy) Methane	3,900 U
120-83-2	2,4-Dichlorophenol	12,000 U
120-82-1	1,2,4-Trichlorobenzene	3,900 U
91-20-3	**Naphthalene**	**130,000**
106-47-8	4-Chloroaniline	12,000 U J
87-68-3	Hexachlorobutadiene	3,900 U
59-50-7	4-Chloro-3-methylphenol	7,800 U
91-57-6	**2-Methylnaphthalene**	**44,000**
77-47-4	Hexachlorocyclopentadiene	19,000 U J
88-06-2	2,4,6-Trichlorophenol	19,000 U
95-95-4	2,4,5-Trichlorophenol	19,000 U
91-58-7	2-Chloronaphthalene	3,900 U
88-74-4	2-Nitroaniline	19,000 U
131-11-3	Dimethylphthalate	3,900 U
208-96-8	Acenaphthylene	3,900 U
99-09-2	3-Nitroaniline	23,000 U J
83-32-9	**Acenaphthene**	**51,000**
51-28-5	2,4-Dinitrophenol	39,000 U J
100-02-7	4-Nitrophenol	19,000 U
132-64-9	Dibenzofuran	3,900 U
606-20-2	2,6-Dinitrotoluene	19,000 U

FORM-1

~~002243~~ JMK 1/22/

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 2 of 2

Sample No: 9738 4935
DILUTION

Lab Sample ID: T914AD
LIMS ID: 97-17614
Matrix: Sediment
Data Release Authorized: RNB
Reported: 11/13/97

QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 11/03/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:200
Percent Moisture: 53.2%
pH: 6.9

CAS Number	Analyte	ug/kg	
121-14-2	2,4-Dinitrotoluene	19,000	U
84-66-2	Diethylphthalate	3,900	U
7005-72-3	4-Chlorophenyl-phenylether	3,900	U
86-73-7	**Fluorene**	**22,000**	
100-01-6	4-Nitroaniline	19,000	U J
534-52-1	4,6-Dinitro-2-Methylphenol	39,000	U J
86-30-6	N-Nitrosodiphenylamine	3,900	U
101-55-3	4-Bromophenyl-phenylether	3,900	U
118-74-1	Hexachlorobenzene	3,900	U
87-86-5	Pentachlorophenol	19,000	U J
85-01-8	**Phenanthrene**	**170,000**	
86-74-8	**Carbazole**	**11,000**	J
120-12-7	**Anthracene**	**26,000**	
84-74-2	Di-n-Butylphthalate	3,900	U
206-44-0	**Fluoranthene**	**110,000**	
129-00-0	**Pyrene**	**120,000**	
85-68-7	Butylbenzylphthalate	3,900	U
91-94-1	3,3'-Dichlorobenzidine	19,000	U J
56-55-3	**Benzo(a)anthracene**	**28,000**	
117-81-7	bis(2-Ethylhexyl)phthalate	3,900	U
218-01-9	**Chrysene**	**36,000**	
117-84-0	Di-n-Octyl phthalate	3,900	U
205-99-2	**Benzo(b)fluoranthene**	**23,000**	
207-08-9	**Benzo(k)fluoranthene**	**22,000**	
50-32-8	**Benzo(a)pyrene**	**40,000**	
193-39-5	**Indeno(1,2,3-cd)pyrene**	**19,000**	
53-70-3	**Dibenz(a,h)anthracene**	**4,300**	
191-24-2	**Benzo(g,h,i)perylene**	**24,000**	J

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	D	d5-Phenol	D
2-Fluorobiphenyl	D	2-Fluorophenol	D
d14-p-Terphenyl	D	2,4,6-Tribromophenol	D
d4-1,2-Dichlorobenzene	D	d4-2-Chlorophenol	D

FORM-1

~~002249~~ JMK 1/22/9

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4935
DILUTION

Lab Sample ID: T914AD
LIMS ID: 97-17614
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project:
1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Data Release Authorized: [illegible]
Reported: 11/13/97

Date Analyzed: 11/03/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	---	Unknown_Organic_Acid	11.75	SVOA	18,000 J N
2.	---	Benzothiophene_Isomer	12.61	SVOA	15,000 J N
3.	90-12-0	Naphthalene,_1-methyl-	14.07	SVOA	23,000 JN
4.	---	Unknown_C12.H10_PNA	14.82	SVOA	11,000 J N
5.	---	Naphthalene,_Ethyl_Isomer	14.99	SVOA	8,700 J
6.	---	Naphthalene,_Dimethyl_Iso	15.12	SVOA	14,000 J
7.	---	Naphthalene,_Dimethyl_Iso	15.29	SVOA	22,000 J
8.	---	Naphthalene,_Dimethyl_Iso	15.51	SVOA	11,000 J
9.	---	Unknown_Aromatic	16.17	SVOA	7,800 J
10.	---	Naphthalene,_Trimethyl_Is	16.40	SVOA	8,500 J
11.	132-65-0	Dibenzothiophene	18.70	SVOA	9,700 JN
12.	---	Unknown_Aromatic	20.15	SVOA	12,000 J N
13.	---	Unknown_Sterol_type	20.71	SVOA	17,000 J
14.	---	Unknown_C16.H10_PNA	21.53	SVOA	11,000 J
15.	---	Unknown_C18.H10_PNA	23.80	SVOA	9,600 J
16.	---	Unknown	24.63	SVOA	12,000 J
17.	---	Unknown_Aromatic	25.97	SVOA	18,000 J
18.	---	Unknown_C20.H12_PNA	26.70	SVOA	25,000 J
19.	---	Unknown	27.30	SVOA	44,000 J
20.					

FORM-1-B

JMB
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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914AE
LIMS ID: 97-17615
Matrix: Sediment
Data Release Authorized: RWJ
Reported: 11/13/97

Sample No: 9738 4937
WR-SD-SD065-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/30/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:5
Percent Moisture: 45.0%
pH: 7.4

CAS Number	Analyte	ug/kg
108-95-2	Phenol	96 U
111-44-4	Bis-(2-Chloroethyl) Ether	190 U
95-57-8	2-Chlorophenol	96 U
541-73-1	1,3-Dichlorobenzene	96 U
106-46-7	1,4-Dichlorobenzene	96 U
100-51-6	Benzyl Alcohol	96 U J
95-50-1	1,2-Dichlorobenzene	96 U
95-48-7	2-Methylphenol	96 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	96 U
106-44-5	**4-Methylphenol**	**300**
621-64-7	N-Nitroso-Di-N-Propylamine	190 U
67-72-1	Hexachloroethane	96 U
98-95-3	Nitrobenzene	96 U
78-59-1	Isophorone	96 U
88-75-5	2-Nitrophenol	480 U
105-67-9	2,4-Dimethylphenol	96 U
65-85-0	Benzoic Acid	960 U
111-91-1	bis(2-Chloroethoxy) Methane	96 U
120-83-2	2,4-Dichlorophenol	290 U
120-82-1	1,2,4-Trichlorobenzene	96 U
91-20-3	**Naphthalene**	~~24,000 E~~ 20000 D
106-47-8	4-Chloroaniline	290 U
87-68-3	Hexachlorobutadiene	96 U
59-50-7	4-Chloro-3-methylphenol	190 U
91-57-6	**2-Methylnaphthalene**	~~14,000 E~~ 11000 D
77-47-4	Hexachlorocyclopentadiene	480 U J
88-06-2	2,4,6-Trichlorophenol	480 U
95-95-4	2,4,5-Trichlorophenol	480 U
91-58-7	2-Chloronaphthalene	96 U
88-74-4	2-Nitroaniline	480 U
131-11-3	Dimethylphthalate	96 U
208-96-8	**Acenaphthylene**	**3,600**
99-09-2	3-Nitroaniline	570 U
83-32-9	**Acenaphthene**	~~16,000 E~~ 15000 D
51-28-5	2,4-Dinitrophenol	960 U J
100-02-7	4-Nitrophenol	480 U
132-64-9	**Dibenzofuran**	**1,600**
606-20-2	2,6-Dinitrotoluene	480 U

FORM-1

JMB 1/22/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914AE
LIMS ID: 97-17615
Matrix: Sediment
Data Release Authorized: DMB
Reported: 11/13/97

Sample No: 9738 4937
WR-SD-SD065-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/30/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:5
Percent Moisture: 45.0%
pH: 7.4

CAS Number	Analyte	ug/kg	
121-14-2	2,4-Dinitrotoluene	480 U	
84-66-2	Diethylphthalate	96 U	
7005-72-3	4-Chlorophenyl-phenylether	96 U	
86-73-7	**Fluorene**	~~11,000 E~~	10000 D
100-01-6	4-Nitroaniline	480 U	
534-52-1	4,6-Dinitro-2-Methylphenol	960 U	
86-30-6	N-Nitrosodiphenylamine	96 U	
101-55-3	4-Bromophenyl-phenylether	96 U	
118-74-1	Hexachlorobenzene	96 U	
87-86-5	Pentachlorophenol	480 U	J
85-01-8	**Phenanthrene**	~~62,000 E~~	100000 D
86-74-8	**Carbazole**	3,600	J
120-12-7	**Anthracene**	~~16,000 E~~	17000 D
84-74-2	Di-n-Butylphthalate	96 U	
206-44-0	**Fluoranthene**	~~40,000 E~~	72000 D
129-00-0	**Pyrene**	~~61,000 E~~	80000 D
85-68-7	Butylbenzylphthalate	96 U	
91-94-1	3,3'-Dichlorobenzidine	480 U	
56-55-3	**Benzo(a)anthracene**	~~21,000 E~~	18000 D
117-81-7	**bis(2-Ethylhexyl)phthalate**	200 ~~B~~ U	
218-01-9	**Chrysene**	~~23,000 E~~	23000 D
117-84-0	Di-n-Octyl phthalate	96 U	
205-99-2	**Benzo(b)fluoranthene**	~~20,000 E~~	14000 D
207-08-9	**Benzo(k)fluoranthene**	~~13,000 E~~	12000 D
50-32-8	**Benzo(a)pyrene**	~~27,000 E~~	23000 D
193-39-5	**Indeno(1,2,3-cd)pyrene**	~~12,000 E~~	10000 D
53-70-3	**Dibenz(a,h)anthracene**	3,800	
191-24-2	**Benzo(g,h,i)perylene**	~~14,000 E~~	13000 DJ

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	43.8%	d5-Phenol	54.3%
2-Fluorobiphenyl	52.2%	2-Fluorophenol	55.6%
d14-p-Terphenyl	96.8%	2,4,6-Tribromophenol	61.2%
d4-1,2-Dichlorobenzene	51.2%	d4-2-Chlorophenol	54.1%

FORM-1

JMB 1/22/9.

~~002297~~

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4937
WR-SD-SD065-0000

Lab Sample ID: T914AE
LIMS ID: 97-17615
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Data Release Authorized: AWB
Reported: 11/13/97

Date Analyzed: 10/30/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	90-12-0	Naphthalene,_1-methyl-___	12.64	SVOA	15,000 JN
2.	--	Naphthalene,_Dimethyl_Iso	13.69	SVOA	14,000 JN
3.	--	Naphthalene,_Dimethyl_Iso	13.86	SVOA	21,000 JN
4.	--	Naphthalene,_Dimethyl_Iso	14.08	SVOA	11,000 JN
5.	--	Naphthalene,_Trimethyl_Is	15.02	SVOA	7,400 JN
6.	--	Naphthalene,_Trimethyl_Is	15.22	SVOA	9,200 JN
7.	--	Naphthalene,_Trimethyl_Is	15.39	SVOA	7,000 JN
8.	--	Unknown_____	15.94	SVOA	8,800 JN
9.	132-65-0	Dibenzothiophene_____	17.27	SVOA	15,000 JN
10.	--	Unknown_PNA_____	18.13	SVOA	10,000 JN
11.	--	Unknown_C15.H12_PNA_____	18.51	SVOA	17,000 JN
12.	--	Unknown_C15.H12_PNA_____	18.59	SVOA	16,000 JN
13.	--	Unknown_PNA_____	18.75	SVOA	28,000 JN
14.	--	Unknown_C16.H12_PNA_____	19.11	SVOA	12,000 JN
15.	--	Unknown_C16.H14_PNA_____	19.40	SVOA	8,400 JN
16.	--	Unknown_C16.H14_PNA_____	19.50	SVOA	13,000 JN
17.	--	Unknown_C16.H14_PNA_____	19.66	SVOA	16,000 JN
18.	--	Unknown_PNA_____	19.72	SVOA	8,000 JN
19.	--	Unknown_C17.H12_PNA_____	21.08	SVOA	16,000 JN
20.	--	Unknown_C17.H12_PNA_____	21.20	SVOA	7,000 JN

JMB
12/22/97

FORM-1-B

~~002235~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914AE
LIMS ID: 97-17615
Matrix: Sediment
Data Release Authorized: EWB
Reported: 11/13/97

Sample No: 9738 4937
DILUTION

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 11/03/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:100
Percent Moisture: 45.0%
pH: 7.4

CAS Number	Analyte	ug/kg
108-95-2	Phenol	1,900 U
111-44-4	Bis-(2-Chloroethyl) Ether	3,800 U
95-57-8	2-Chlorophenol	1,900 U
541-73-1	1,3-Dichlorobenzene	1,900 U
106-46-7	1,4-Dichlorobenzene	1,900 U
100-51-6	Benzyl Alcohol	1,900 U J
95-50-1	1,2-Dichlorobenzene	1,900 U
95-48-7	2-Methylphenol	1,900 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1,900 U J
106-44-5	4-Methylphenol	1,900 U
621-64-7	N-Nitroso-Di-N-Propylamine	3,800 U
67-72-1	Hexachloroethane	1,900 U
98-95-3	Nitrobenzene	1,900 U
78-59-1	Isophorone	1,900 U
88-75-5	2-Nitrophenol	9,600 U
105-67-9	2,4-Dimethylphenol	1,900 U
65-85-0	Benzoic Acid	19,000 U J
111-91-1	bis(2-Chloroethoxy) Methane	1,900 U
120-83-2	2,4-Dichlorophenol	5,700 U
120-82-1	1,2,4-Trichlorobenzene	1,900 U
91-20-3	**Naphthalene**	**20,000**
106-47-8	4-Chloroaniline	5,700 U J
87-68-3	Hexachlorobutadiene	1,900 U
59-50-7	4-Chloro-3-methylphenol	3,800 U
91-57-6	**2-Methylnaphthalene**	**11,000**
77-47-4	Hexachlorocyclopentadiene	9,600 U J
88-06-2	2,4,6-Trichlorophenol	9,600 U
95-95-4	2,4,5-Trichlorophenol	9,600 U
91-58-7	2-Chloronaphthalene	1,900 U
88-74-4	2-Nitroaniline	9,600 U
131-11-3	Dimethylphthalate	1,900 U
208-96-8	**Acenaphthylene**	**3,700**
99-09-2	3-Nitroaniline	11,000 U J
83-32-9	**Acenaphthene**	**15,000**
51-28-5	2,4-Dinitrophenol	19,000 U J
100-02-7	4-Nitrophenol	9,600 U
132-64-9	Dibenzofuran	1,900 U
606-20-2	2,6-Dinitrotoluene	9,600 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS

Lab Sample ID: T914AE
LIMS ID: 97-17615
Matrix: Sediment
Data Release Authorized: AKB
Reported: 11/13/97

Sample No: 9738 4937
DILUTION
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 11/03/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:100
Percent Moisture: 45.0%
pH: 7.4

CAS Number	Analyte	ug/kg	
121-14-2	2,4-Dinitrotoluene	9,600	U
84-66-2	Diethylphthalate	1,900	U
7005-72-3	4-Chlorophenyl-phenylether	1,900	U
86-73-7	**Fluorene**	**10,000**	
100-01-6	4-Nitroaniline	9,600	U J
534-52-1	4,6-Dinitro-2-Methylphenol	19,000	U J
86-30-6	N-Nitrosodiphenylamine	1,900	U
101-55-3	4-Bromophenyl-phenylether	1,900	U
118-74-1	Hexachlorobenzene	1,900	U
87-86-5	Pentachlorophenol	9,600	U J
85-01-8	**Phenanthrene**	**100,000**	
86-74-8	**Carbazole**	**5,400**	J
120-12-7	**Anthracene**	**17,000**	
84-74-2	Di-n-Butylphthalate	1,900	U
206-44-0	**Fluoranthene**	**72,000**	
129-00-0	**Pyrene**	**80,000**	
85-68-7	Butylbenzylphthalate	1,900	U
91-94-1	3,3'-Dichlorobenzidine	9,600	U J
56-55-3	**Benzo(a)anthracene**	**18,000**	
117-81-7	bis(2-Ethylhexyl)phthalate	1,900	U
218-01-9	**Chrysene**	**23,000**	
117-84-0	Di-n-Octyl phthalate	1,900	U
205-99-2	**Benzo(b)fluoranthene**	**14,000**	
207-08-9	**Benzo(k)fluoranthene**	**12,000**	
50-32-8	**Benzo(a)pyrene**	**23,000**	
193-39-5	**Indeno(1,2,3-cd)pyrene**	**10,000**	
53-70-3	**Dibenz(a,h)anthracene**	**2,400**	
191-24-2	**Benzo(g,h,i)perylene**	**13,000**	J

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	D	d5-Phenol	D
2-Fluorobiphenyl	D	2-Fluorophenol	D
d14-p-Terphenyl	D	2,4,6-Tribromophenol	D
d4-1,2-Dichlorobenzene	D	d4-2-Chlorophenol	D

FORM-1

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4937
DILUTION

Lab Sample ID: T914AE
LIMS ID: 97-17615
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Data Release Authorized: AWB
Reported: 11/13/97

Date Analyzed: 11/03/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	90-12-0	Naphthalene,_1-methyl-___	14.07	SVOA	8,900 JN
2.	---	Naphthalene,_Ethyl_Isomer	14.99	SVOA	5,200 J N
3.	---	Naphthalene,_Dimethyl_Iso	15.12	SVOA	9,700 J
4.	---	Naphthalene,_Dimethyl_Iso	15.29	SVOA	14,000 J
5.	---	Naphthalene,_Dimethyl_Iso	15.51	SVOA	7,900 J
6.	---	Unknown_Aromatic_____	16.17	SVOA	5,000 J
7.	---	Naphthalene,_Trimethyl_Is	16.40	SVOA	6,300 J
8.	---	Naphthalene,_Trimethyl_Is	16.45	SVOA	5,700 J
9.	---	Naphthalene,_Trimethyl_Is	16.66	SVOA	6,500 J
10.	---	Naphthalene,_Trimethyl_Is	16.80	SVOA	5,000 J
11.	132-65-0	Dibenzothiophene_____	18.70	SVOA	6,700 JN
12.	---	Unknown_C15.H12_PNA_____	19.92	SVOA	7,100 J N
13.	---	Unknown_C15.H12_PNA_____	19.98	SVOA	9,600 J
14.	---	Unknown_Aromatic_____	20.15	SVOA	16,000 J
15.	---	Unknown_C16.H12_PNA_____	20.53	SVOA	4,300 J
16.	---	Unknown_C16.H14_PNA_____	20.91	SVOA	5,200 J
17.	---	Unknown_C16.H14_PNA_____	21.07	SVOA	4,900 J
18.	---	Unknown_C16.H10_PNA_____	21.53	SVOA	5,600 J
19.	---	Unknown_C17.H12_PNA_____	22.47	SVOA	7,600 J
20.	---	Unknown_C20.H12_PNA_____	26.70	SVOA	6,000 J

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914AF
LIMS ID: 97-17616
Matrix: Sediment
Data Release Authorized: DKB
Reported: 11/13/97

Sample No: 9738 4938
WR-SD-SD067-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 11/07/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:10
Percent Moisture: 50.0%
pH: 7.4

CAS Number	Analyte	ug/kg
108-95-2	Phenol	200 U
111-44-4	Bis-(2-Chloroethyl) Ether	400 U
95-57-8	2-Chlorophenol	200 U
541-73-1	1,3-Dichlorobenzene	200 U
106-46-7	1,4-Dichlorobenzene	200 U
100-51-6	Benzyl Alcohol	200 U
95-50-1	1,2-Dichlorobenzene	200 U
95-48-7	2-Methylphenol	200 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	200 U
106-44-5	**4-Methylphenol**	**250**
621-64-7	N-Nitroso-Di-N-Propylamine	400 U
67-72-1	Hexachloroethane	200 U
98-95-3	Nitrobenzene	200 U
78-59-1	Isophorone	200 U
88-75-5	2-Nitrophenol	1,000 U
105-67-9	2,4-Dimethylphenol	200 U
65-85-0	Benzoic Acid	2,000 U
111-91-1	bis(2-Chloroethoxy) Methane	200 U
120-83-2	2,4-Dichlorophenol	600 U
120-82-1	1,2,4-Trichlorobenzene	200 U
91-20-3	**Naphthalene**	**13,000**
106-47-8	4-Chloroaniline	600 U
87-68-3	Hexachlorobutadiene	200 U
59-50-7	4-Chloro-3-methylphenol	400 U
91-57-6	**2-Methylnaphthalene**	**7,600**
77-47-4	Hexachlorocyclopentadiene	1,000 U
88-06-2	2,4,6-Trichlorophenol	1,000 U
95-95-4	2,4,5-Trichlorophenol	1,000 U
91-58-7	2-Chloronaphthalene	200 U
88-74-4	2-Nitroaniline	1,000 U
131-11-3	Dimethylphthalate	200 U
208-96-8	**Acenaphthylene**	**2,000**
99-09-2	3-Nitroaniline	1,200 U
83-32-9	**Acenaphthene**	**11,000**
51-28-5	2,4-Dinitrophenol	2,000 U J
100-02-7	4-Nitrophenol	1,000 U
132-64-9	**Dibenzofuran**	**1,300**
606-20-2	2,6-Dinitrotoluene	1,000 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914AF
LIMS ID: 97-17616
Matrix: Sediment
Data Release Authorized: QNB
Reported: 11/13/97

Sample No: 9738 4938 WR-SD-SD067-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 11/07/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:10
Percent Moisture: 50.0%
pH: 7.4

CAS Number	Analyte	ug/kg	
121-14-2	2,4-Dinitrotoluene	1,000 U	
84-66-2	Diethylphthalate	200 U	
7005-72-3	4-Chlorophenyl-phenylether	200 U	
86-73-7	**Fluorene**	**9,400**	
100-01-6	4-Nitroaniline	1,000 U	
534-52-1	4,6-Dinitro-2-Methylphenol	2,000 U	
86-30-6	N-Nitrosodiphenylamine	200 U	
101-55-3	4-Bromophenyl-phenylether	200 U	
118-74-1	Hexachlorobenzene	200 U	
87-86-5	Pentachlorophenol	1,000 U	
85-01-8	**Phenanthrene**	~~43,000 E~~	64000 D
86-74-8	**Carbazole**	**1,800**	
120-12-7	**Anthracene**	**13,000**	
84-74-2	Di-n-Butylphthalate	200 U	
206-44-0	**Fluoranthene**	~~30,000 E~~	45000 D
129-00-0	**Pyrene**	~~51,000 E~~	54000 D
85-68-7	Butylbenzylphthalate	200 U	
91-94-1	3,3'-Dichlorobenzidine	1,000 U	
56-55-3	**Benzo(a)anthracene**	**14,000**	
117-81-7	bis(2-Ethylhexyl)phthalate	200 U	
218-01-9	**Chrysene**	~~18,000 E~~	17000 D
117-84-0	Di-n-Octyl phthalate	200 U	
205-99-2	**Benzo(b)fluoranthene**	**12,000**	
207-08-9	**Benzo(k)fluoranthene**	**10,000**	
50-32-8	**Benzo(a)pyrene**	~~18,000 E~~	15000 D
193-39-5	**Indeno(1,2,3-cd)pyrene**	**9,500**	
53-70-3	**Dibenz(a,h)anthracene**	**2,500**	
191-24-2	**Benzo(g,h,i)perylene**	**13,000**	

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	39.2%	d5-Phenol	45.9%
2-Fluorobiphenyl	50.0%	2-Fluorophenol	44.8%
d14-p-Terphenyl	82.8%	2,4,6-Tribromophenol	59.5%
d4-1,2-Dichlorobenzene	31.6%	d4-2-Chlorophenol	41.6%

FORM-1

JMB 1/22/98
~~00401~~

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4938
WR-SD-SD067-0000

Lab Sample ID: T914AF
LIMS ID: 97-17616
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Data Release Authorized: BMB
Reported: 11/13/97

Date Analyzed: 11/07/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	90-12-0	Naphthalene,_1-methyl-___	12.28	SVOA	8,900 JN
2.	--	Naphthalene,_Dimethyl_Iso	13.32	SVOA	9,600 JN
3.	--	Naphthalene,_Dimethyl_Iso	13.49	SVOA	14,000 JN
4.	--	Naphthalene,_Dimethyl_Iso	13.71	SVOA	4,900 JN
5.	--	Unknown_Aromatic_____	14.37	SVOA	4,300 JN
6.	--	Naphthalene,_Trimethyl_Is	14.65	SVOA	4,900 JN
7.	--	Naphthalene,_Trimethyl_Is	14.86	SVOA	6,300 JN
8.	--	Naphthalene,_Trimethyl_Is	15.00	SVOA	5,200 JN
9.	132-65-0	Dibenzothiophene_____	16.91	SVOA	9,300 JN
10.	--	Unknown_Aromatic_____	17.78	SVOA	6,300 JN
11.	--	Unknown_C15.H12_PNA_____	18.15	SVOA	11,000 JN
12.	--	Unknown_C15.H12_PNA_____	18.21	SVOA	11,000 JN
13.	--	Unknown_____	18.37	SVOA	18,000 JN
14.	--	Unknown_C16.H12_PNA_____	18.74	SVOA	6,800 JN
15.	--	Unknown_C16.H14_PNA_____	19.12	SVOA	8,800 JN
16.	--	Unknown_C16.H14_PNA_____	19.28	SVOA	8,200 JN
17.	--	Unknown_____	19.34	SVOA	6,500 JN
18.	--	Unknown_C16.H10_PNA_____	19.74	SVOA	7,200 JN
19.	--	Unknown_PNA_____	20.69	SVOA	8,400 JN
20.	--	Unknown_C20.H12_PNA_____	24.90	SVOA	4,000 JN

FORM-1-B

JMB
12/22/97

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914AF
LIMS ID: 97-17616
Matrix: Sediment
Data Release Authorized: BMB
Reported: 11/13/97

Sample No: 9738 4938
DILUTION

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 11/03/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:200
Percent Moisture: 50.0%
pH: 7.4

CAS Number	Analyte	ug/kg
108-95-2	Phenol	4,000 U
111-44-4	Bis-(2-Chloroethyl) Ether	8,000 U
95-57-8	2-Chlorophenol	4,000 U
541-73-1	1,3-Dichlorobenzene	4,000 U
106-46-7	1,4-Dichlorobenzene	4,000 U
100-51-6	Benzyl Alcohol	4,000 U J
95-50-1	1,2-Dichlorobenzene	4,000 U
95-48-7	2-Methylphenol	4,000 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	4,000 U J
106-44-5	4-Methylphenol	4,000 U
621-64-7	N-Nitroso-Di-N-Propylamine	8,000 U
67-72-1	Hexachloroethane	4,000 U
98-95-3	Nitrobenzene	4,000 U
78-59-1	Isophorone	4,000 U
88-75-5	2-Nitrophenol	20,000 U
105-67-9	2,4-Dimethylphenol	4,000 U
65-85-0	Benzoic Acid	40,000 U J
111-91-1	bis(2-Chloroethoxy) Methane	4,000 U
120-83-2	2,4-Dichlorophenol	12,000 U
120-82-1	1,2,4-Trichlorobenzene	4,000 U
91-20-3	**Naphthalene**	**11,000**
106-47-8	4-Chloroaniline	12,000 U J
87-68-3	Hexachlorobutadiene	4,000 U
59-50-7	4-Chloro-3-methylphenol	8,000 U
91-57-6	**2-Methylnaphthalene**	**6,300**
77-47-4	Hexachlorocyclopentadiene	20,000 U J
88-06-2	2,4,6-Trichlorophenol	20,000 U
95-95-4	2,4,5-Trichlorophenol	20,000 U
91-58-7	2-Chloronaphthalene	4,000 U
88-74-4	2-Nitroaniline	20,000 U
131-11-3	Dimethylphthalate	4,000 U
208-96-8	Acenaphthylene	4,000 U
99-09-2	3-Nitroaniline	24,000 U J
83-32-9	**Acenaphthene**	**11,000**
51-28-5	2,4-Dinitrophenol	40,000 U J
100-02-7	4-Nitrophenol	20,000 U
132-64-9	Dibenzofuran	4,000 U
606-20-2	2,6-Dinitrotoluene	20,000 U

FORM-1

JMB 1/22/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 2 of 2

Sample No: 9738 4938
DILUTION

Lab Sample ID: T914AF
LIMS ID: 97-17616
Matrix: Sediment
Data Release Authorized: GWB
Reported: 11/13/97

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 11/03/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:200
Percent Moisture: 50.0%
pH: 7.4

CAS Number	Analyte	ug/kg	
121-14-2	2,4-Dinitrotoluene	20,000 U	
84-66-2	Diethylphthalate	4,000 U	
7005-72-3	4-Chlorophenyl-phenylether	4,000 U	
86-73-7	**Fluorene**	**7,000**	
100-01-6	4-Nitroaniline	20,000 U	UJ
534-52-1	4,6-Dinitro-2-Methylphenol	40,000 U	UJ
86-30-6	N-Nitrosodiphenylamine	4,000 U	
101-55-3	4-Bromophenyl-phenylether	4,000 U	
118-74-1	Hexachlorobenzene	4,000 U	
87-86-5	Pentachlorophenol	20,000 U	UJ
85-01-8	**Phenanthrene**	**64,000**	
86-74-8	**Carbazole**	**4,100**	J
120-12-7	**Anthracene**	**12,000**	
84-74-2	Di-n-Butylphthalate	4,000 U	
206-44-0	**Fluoranthene**	**45,000**	
129-00-0	**Pyrene**	**54,000**	
85-68-7	Butylbenzylphthalate	4,000 U	
91-94-1	3,3'-Dichlorobenzidine	20,000 U	UJ
56-55-3	**Benzo(a)anthracene**	**13,000**	
117-81-7	bis(2-Ethylhexyl)phthalate	4,000 U	
218-01-9	**Chrysene**	**17,000**	
117-84-0	Di-n-Octyl phthalate	4,000 U	
205-99-2	**Benzo(b)fluoranthene**	**8,100**	
207-08-9	**Benzo(k)fluoranthene**	**9,400**	
50-32-8	**Benzo(a)pyrene**	**15,000**	
193-39-5	**Indeno(1,2,3-cd)pyrene**	**7,000**	
53-70-3	Dibenz(a,h)anthracene	4,000 U	
191-24-2	**Benzo(g,h,i)perylene**	**8,800**	J

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	D	d5-Phenol	D
2-Fluorobiphenyl	D	2-Fluorophenol	D
d14-p-Terphenyl	D	2,4,6-Tribromophenol	D
d4-1,2-Dichlorobenzene	D	d4-2-Chlorophenol	D

FORM-1

~~002453~~ JMB 1/22/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4938
DILUTION

Lab Sample ID: T914AF
LIMS ID: 97-17616
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project:
1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Data Release Authorized: DWB
Reported: 11/13/97

Date Analyzed: 11/03/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	---	Naphthalene,_Dimethyl_Iso	15.28	SVOA	11,000 J N
2.	---	Unknown_C15.H12_PNA	19.92	SVOA	8,000 J
3.	---	Unknown_C15.H12_PNA	19.98	SVOA	9,700 J
4.	---	Unknown_Aromatic	20.15	SVOA	16,000 J
5.	---	Unknown_C16.H10_PNA	21.52	SVOA	9,300 J
6.	---	Unknown_C17.H12_PNA	22.47	SVOA	12,000 J
7.	---	Unknown_C20.H12_PNA	26.68	SVOA	10,000 J
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914AX
LIMS ID: 97-17617
Matrix: Sediment
Data Release Authorized: [illegible]
Reported: 11/13/97

Sample No: 9738 4939
WR-SD-SD068-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/24/97
Date analyzed: 10/31/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 46.7%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U J
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U J
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U J
106-44-5	**4-Methylphenol**	**160**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	98 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**790**
106-47-8	4-Chloroaniline	59 U J
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	**2-Methylnaphthalene**	~~3,200 E~~ 2700 D
77-47-4	Hexachlorocyclopentadiene	98 U J
88-06-2	2,4,6-Trichlorophenol	98 U
95-95-4	2,4,5-Trichlorophenol	98 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	98 U
131-11-3	Dimethylphthalate	20 U
208-96-8	**Acenaphthylene**	**740**
99-09-2	3-Nitroaniline	120 U J
83-32-9	**Acenaphthene**	~~8,000 E~~ 15000 D
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	98 U
132-64-9	**Dibenzofuran**	**700**
606-20-2	2,6-Dinitrotoluene	98 U

FORM-1

~~003176~~ JMB 1/22/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914AX
LIMS ID: 97-17617
Matrix: Sediment
Data Release Authorized: [illegible]
Reported: 11/13/97

Sample No: 9738 4939
WR-SD-SD068-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/24/97
Date analyzed: 10/31/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 46.7%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	98 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	Fluorene	~~4,100 E~~ 4900 D
100-01-6	4-Nitroaniline	98 U J
534-52-1	4,6-Dinitro-2-Methylphenol	200 U ~~J~~
86-30-6	N-Nitrosodiphenylamine	20 U J
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	98 U J
85-01-8	Phenanthrene	~~21,000 E~~ 33000 D
86-74-8	Carbazole	~~2,100 E~~ 1700 D J
120-12-7	Anthracene	~~4,400 E~~ 6000 D
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	Fluoranthene	~~13,000 E~~ 20000 D
129-00-0	Pyrene	~~14,000 E~~ 26000 D
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	98 U J
56-55-3	Benzo(a)anthracene	~~5,800 E~~ 6300 D
117-81-7	bis(2-Ethylhexyl)phthalate	150
218-01-9	Chrysene	~~6,400 E~~ 8600 D
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	Benzo(b)fluoranthene	~~6,100 E~~ 3900 D
207-08-9	Benzo(k)fluoranthene	~~1,900 E~~ 5400 D
50-32-8	Benzo(a)pyrene	~~6,900 E~~ 8000 D
193-39-5	Indeno(1,2,3-cd)pyrene	~~4,000 E~~ 4200 D
53-70-3	Dibenz(a,h)anthracene	1,500
191-24-2	Benzo(g,h,i)perylene	~~4,600 E~~ 5900 D J

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	64.9%	d5-Phenol	62.4%
2-Fluorobiphenyl	59.8%	2-Fluorophenol	70.6%
d14-p-Terphenyl	89.9%	2,4,6-Tribromophenol	59.1%
d4-1,2-Dichlorobenzene	58.9%	d4-2-Chlorophenol	63.5%

FORM-1

~~003177~~ JME 1/22

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4939
WR-SD-SD068-0000

Lab Sample ID: T914AX
LIMS ID: 97-17617
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Data Release Authorized: DMB
Reported: 11/13/97

Date Analyzed: 10/31/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	90-12-0	Naphthalene,_1-methyl-___	13.06	SVOA	4,800 JN
2.	--	Naphthalene,_Ethyl_Isomer	13.96	SVOA	3,000 JN
3.	--	Naphthalene,_Dimethyl_Iso	14.10	SVOA	3,300 JN
4.	--	Naphthalene,_Dimethyl_Iso	14.28	SVOA	4,600 JN
5.	--	Naphthalene,_Dimethyl_Iso	14.48	SVOA	2,400 JN
6.	--	Unknown_Aromatic_____	15.14	SVOA	1,900 JN
7.	--	Naphthalene,_Trimethyl_Is	15.63	SVOA	2,300 JN
8.	--	Naphthalene,_Trimethyl_Is	15.76	SVOA	1,400 JN
9.	--	Unknown_Aromatic_____	16.13	SVOA	1,400 JN
10.	--	Unknown_Aromatic_____	16.20	SVOA	1,700 JN
11.	--	Unknown_____	16.35	SVOA	1,900 JN
12.	132-65-0	Dibenzothiophene_____	17.69	SVOA	2,900 JN
13.	--	Unknown_C16.H12_PNA_____	18.54	SVOA	1,500 JN
14.	--	Unknown_C15.H12_PNA_____	18.91	SVOA	1,600 JN
15.	--	Unknown_C15.H12_PNA_____	18.99	SVOA	1,600 JN
16.	--	Unknown_Aromatic_____	19.16	SVOA	2,800 JN
17.	--	Unknown_C16.H12_PNA_____	19.52	SVOA	1,500 JN
18.	--	Unknown_____	20.51	SVOA	1,900 JN
19.	--	Unknown_C17.H12_PNA_____	21.51	SVOA	1,800 JN
20.	--	Unknown_C20.H12_PNA_____	25.70	SVOA	1,400 JN

FORM-1-B

JMB 12/22/97

~~00317~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914AX
LIMS ID: 97-17617
Matrix: Sediment
Data Release Authorized:
Reported: 11/13/97

Sample No: 9738 4939
DILUTION

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/24/97
Date analyzed: 11/03/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:50
Percent Moisture: 46.7%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	980 U
111-44-4	Bis-(2-Chloroethyl) Ether	2,000 U
95-57-8	2-Chlorophenol	980 U
541-73-1	1,3-Dichlorobenzene	980 U
106-46-7	1,4-Dichlorobenzene	980 U
100-51-6	Benzyl Alcohol	980 U J
95-50-1	1,2-Dichlorobenzene	980 U
95-48-7	2-Methylphenol	980 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	980 U J
106-44-5	4-Methylphenol	980 U
621-64-7	N-Nitroso-Di-N-Propylamine	2,000 U
67-72-1	Hexachloroethane	980 U
98-95-3	Nitrobenzene	980 U
78-59-1	Isophorone	980 U
88-75-5	2-Nitrophenol	4,900 U
105-67-9	2,4-Dimethylphenol	980 U
65-85-0	Benzoic Acid	9,800 U J
111-91-1	bis(2-Chloroethoxy) Methane	980 U
120-83-2	2,4-Dichlorophenol	3,000 U
120-82-1	1,2,4-Trichlorobenzene	980 U
91-20-3	Naphthalene	980 U
106-47-8	4-Chloroaniline	3,000 U J
87-68-3	Hexachlorobutadiene	980 U
59-50-7	4-Chloro-3-methylphenol	2,000 U
91-57-6	**2-Methylnaphthalene**	**2,700**
77-47-4	Hexachlorocyclopentadiene	4,900 U J
88-06-2	2,4,6-Trichlorophenol	4,900 U
95-95-4	2,4,5-Trichlorophenol	4,900 U
91-58-7	2-Chloronaphthalene	980 U
88-74-4	2-Nitroaniline	4,900 U
131-11-3	Dimethylphthalate	980 U
208-96-8	Acenaphthylene	980 U
99-09-2	3-Nitroaniline	5,900 U J
83-32-9	**Acenaphthene**	**15,000**
51-28-5	2,4-Dinitrophenol	9,800 U J
100-02-7	4-Nitrophenol	4,900 U
132-64-9	Dibenzofuran	980 U
606-20-2	2,6-Dinitrotoluene	4,900 U

FORM-1

JMB 11/22/97

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS

Sample No: 9738 4939
DILUTION

Lab Sample ID: T914AX
LIMS ID: 97-17617
Matrix: Sediment
Data Release Authorized:
Reported: 11/13/97

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/24/97
Date analyzed: 11/03/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:50
Percent Moisture: 46.7%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	4,900 U
84-66-2	Diethylphthalate	980 U
7005-72-3	4-Chlorophenyl-phenylether	980 U
86-73-7	Fluorene	4,900
100-01-6	4-Nitroaniline	4,900 U J
534-52-1	4,6-Dinitro-2-Methylphenol	9,800 U J
86-30-6	N-Nitrosodiphenylamine	980 U J
101-55-3	4-Bromophenyl-phenylether	980 U
118-74-1	Hexachlorobenzene	980 U
87-86-5	Pentachlorophenol	4,900 U J
85-01-8	Phenanthrene	33,000
86-74-8	Carbazole	1,700 J
120-12-7	Anthracene	6,000
84-74-2	Di-n-Butylphthalate	980 U
206-44-0	Fluoranthene	20,000
129-00-0	Pyrene	26,000
85-68-7	Butylbenzylphthalate	980 U
91-94-1	3,3'-Dichlorobenzidine	4,900 U J
56-55-3	Benzo(a)anthracene	6,300
117-81-7	bis(2-Ethylhexyl)phthalate	980 U
218-01-9	Chrysene	8,600
117-84-0	Di-n-Octyl phthalate	980 U
205-99-2	Benzo(b)fluoranthene	3,900
207-08-9	Benzo(k)fluoranthene	5,400
50-32-8	Benzo(a)pyrene	8,000
193-39-5	Indeno(1,2,3-cd)pyrene	4,200
53-70-3	Dibenz(a,h)anthracene	980 U
191-24-2	Benzo(g,h,i)perylene	5,900 J

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	D	d5-Phenol	D
2-Fluorobiphenyl	D	2-Fluorophenol	D
d14-p-Terphenyl	D	2,4,6-Tribromophenol	D
d4-1,2-Dichlorobenzene	D	d4-2-Chlorophenol	D

FORM-1

JMB 1/22/

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4939
DILUTION

Lab Sample ID: T914AX
LIMS ID: 97-17617
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Data Release Authorized: ewp
Reported: 11/13/97

Date Analyzed: 11/03/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	---	Unknown_Aromatic	10.34	SVOA	2,500 J N
2.	---	Unknown_Hydrocarbon	12.51	SVOA	48,000 J N
3.	90-12-0	Naphthalene,_1-methyl-	14.07	SVOA	6,800 JN
4.	---	Naphthalene,_Ethyl_Isomer	15.00	SVOA	2,900 J N
5.	---	Naphthalene,_Dimethyl_Iso	15.12	SVOA	3,600 J
6.	---	Naphthalene,_Dimethyl_Iso	15.29	SVOA	6,100 J
7.	---	Naphthalene,_Dimethyl_Iso	15.51	SVOA	2,700 J
8.	---	Unknown_Aromatic	16.17	SVOA	2,000 J
9.	---	Naphthalene,_Trimethyl_Is	16.41	SVOA	2,200 J
10.	---	Unknown_Hydrocarbon	17.37	SVOA	2,100 J
11.	132-65-0	Dibenzothiophene	18.70	SVOA	2,900 JN
12.	---	Unknown_C15.H12_PNA	19.98	SVOA	2,000 J N
13.	---	Unknown_Aromatic	20.15	SVOA	4,200 J
14.	---	Unknown_PNA	23.80	SVOA	2,600 J
15.	---	Unknown_C20.H12_PNA	26.68	SVOA	4,800 J
16.					
17.					
18.					
19.					
20.					

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914AY
LIMS ID: 97-17618
Matrix: Sediment
Data Release Authorized: AWP
Reported: 11/13/97

Sample No: 9738 4940
WR-SD-SD069-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/24/97
Date analyzed: 10/31/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 40.3%
pH: 7.2

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U J
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U J
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U J
106-44-5	**4-Methylphenol**	**64**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	98 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**200**
106-47-8	4-Chloroaniline	59 U J
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	**2-Methylnaphthalene**	**210**
77-47-4	Hexachlorocyclopentadiene	98 U J
88-06-2	2,4,6-Trichlorophenol	98 U
95-95-4	2,4,5-Trichlorophenol	98 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	98 U
131-11-3	Dimethylphthalate	20 U
208-96-8	**Acenaphthylene**	**180**
99-09-2	3-Nitroaniline	120 U J
83-32-9	**Acenaphthene**	~~1,400 E~~ 5600 D
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	98 U
132-64-9	**Dibenzofuran**	~~2,200 E~~ 1900 D
606-20-2	2,6-Dinitrotoluene	98 U

FORM-1

JMB 1/22/99

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914AY
LIMS ID: 97-17618
Matrix: Sediment
Data Release Authorized: RB
Reported: 11/13/97

Sample No: 9738 4940
WR-SD-SD069-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/24/97
Date analyzed: 10/31/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 40.3%
pH: 7.2

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	98 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	**Fluorene**	~~5,100 E~~ 6700 D
100-01-6	4-Nitroaniline	98 U J
534-52-1	4,6-Dinitro-2-Methylphenol	200 U J
86-30-6	N-Nitrosodiphenylamine	20 U J
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	98 U J
85-01-8	**Phenanthrene**	~~19,000 E~~ 31000 D
86-74-8	**Carbazole**	~~4,300 E~~ 3400 D J
120-12-7	**Anthracene**	~~11,000 E~~ 22000 D
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	~~13,000 E~~ 22000 D
129-00-0	**Pyrene**	~~7,600 E~~ 17000 D
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	98 U J
56-55-3	**Benzo(a)anthracene**	~~4,600 E~~ 4800 D
117-81-7	**bis(2-Ethylhexyl)phthalate**	76
218-01-9	**Chrysene**	~~5,000 E~~ 6300 D
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	~~2,800 E~~ 1900 D
207-08-9	**Benzo(k)fluoranthene**	1,400
50-32-8	**Benzo(a)pyrene**	2,600 E 2400 D
193-39-5	**Indeno(1,2,3-cd)pyrene**	1,100
53-70-3	**Dibenz(a,h)anthracene**	390
191-24-2	**Benzo(g,h,i)perylene**	1,100

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	62.3%	d5-Phenol	60.8%
2-Fluorobiphenyl	63.5%	2-Fluorophenol	66.9%
d14-p-Terphenyl	82.6%	2,4,6-Tribromophenol	73.7%
d4-1,2-Dichlorobenzene	54.8%	d4-2-Chlorophenol	62.1%

FORM-1

JMB 1/22/99

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4940
WR-SD-SD069-0000

Lab Sample ID: T914AY
LIMS ID: 97-17618
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Data Release Authorized: GKB
Reported: 11/13/97

Date Analyzed: 10/31/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Naphthalene,_Dimethyl_Iso	14.23	SVOA	1,700 JN
2.	--	Unknown_Aromatic_____	16.18	SVOA	1,400 JN
3.	--	Unknown_Aromatic_____	16.25	SVOA	980 JN
4.	--	Unknown_Aromatic_____	16.35	SVOA	1,500 JN
5.	--	Unknown_Aromatic_____	17.58	SVOA	1,200 JN
6.	132-65-0	Dibenzothiophene_____	17.65	SVOA	1,600 JN
7.	--	Unknown_Aromatic_____	18.22	SVOA	1,000 JN
8.	--	Unknown_C16.H12_PNA_____	18.54	SVOA	1,200 JN
9.	--	Unknown_C15.H12_PNA_____	18.90	SVOA	2,000 JN
10.	--	Unknown_C15.H12_PNA_____	18.98	SVOA	2,000 JN
11.	--	Unknown_PNA_____	19.08	SVOA	2,000 JN
12.	--	Unknown_Aromatic_____	19.18	SVOA	4,200 JN
13.	--	Unknown_C16.H14_PNA_____	19.79	SVOA	980 JN
14.	--	Unknown_C16.H14_PNA_____	19.88	SVOA	980 JN
15.	--	Unknown_Aromatic_____	21.04	SVOA	1,000 JN
16.	--	Unknown_C17.H12_PNA_____	21.27	SVOA	1,400 JN
17.	--	Unknown_C17.H12_PNA_____	21.50	SVOA	2,700 JN
18.	--	Unknown_C17.H12_PNA_____	21.62	SVOA	2,300 JN
19.	--	Unknown_C17.H12_PNA_____	21.69	SVOA	2,100 JN
20.	--	Unknown_PNA_____	22.78	SVOA	1,800 JN

FORM-1-B

JMB 12/22/97

~~003581~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 1 of 2

Sample No: 9738 4940
DILUTION

Lab Sample ID: T914AY
LIMS ID: 97-17618
Matrix: Sediment
Data Release Authorized: [illegible]
Reported: 11/13/97

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/24/97
Date analyzed: 11/03/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:50
Percent Moisture: 40.3%
pH: 7.2

CAS Number	Analyte	ug/kg
108-95-2	Phenol	980 U
111-44-4	Bis-(2-Chloroethyl) Ether	2,000 U
95-57-8	2-Chlorophenol	980 U
541-73-1	1,3-Dichlorobenzene	980 U
106-46-7	1,4-Dichlorobenzene	980 U
100-51-6	Benzyl Alcohol	980 U J
95-50-1	1,2-Dichlorobenzene	980 U
95-48-7	2-Methylphenol	980 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	980 U J
106-44-5	4-Methylphenol	980 U
621-64-7	N-Nitroso-Di-N-Propylamine	2,000 U
67-72-1	Hexachloroethane	980 U
98-95-3	Nitrobenzene	980 U
78-59-1	Isophorone	980 U
88-75-5	2-Nitrophenol	4,900 U
105-67-9	2,4-Dimethylphenol	980 U
65-85-0	Benzoic Acid	9,800 U J
111-91-1	bis(2-Chloroethoxy) Methane	980 U
120-83-2	2,4-Dichlorophenol	2,900 U
120-82-1	1,2,4-Trichlorobenzene	980 U
91-20-3	Naphthalene	980 U
106-47-8	4-Chloroaniline	2,900 U J
87-68-3	Hexachlorobutadiene	980 U
59-50-7	4-Chloro-3-methylphenol	2,000 U
91-57-6	2-Methylnaphthalene	980 U
77-47-4	Hexachlorocyclopentadiene	4,900 U J
88-06-2	2,4,6-Trichlorophenol	4,900 U
95-95-4	2,4,5-Trichlorophenol	4,900 U
91-58-7	2-Chloronaphthalene	980 U
88-74-4	2-Nitroaniline	4,900 U
131-11-3	Dimethylphthalate	980 U
208-96-8	Acenaphthylene	980 U
99-09-2	3-Nitroaniline	5,900 U J
83-32-9	**Acenaphthene**	**5,600**
51-28-5	2,4-Dinitrophenol	9,800 U J
100-02-7	4-Nitrophenol	4,900 U
132-64-9	**Dibenzofuran**	**1,900**
606-20-2	2,6-Dinitrotoluene	4,900 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914AY
LIMS ID: 97-17618
Matrix: Sediment
Data Release Authorized: OKB
Reported: 11/13/97

Sample No: 9738 4940
DILUTION

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/24/97
Date analyzed: 11/03/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:50
Percent Moisture: 40.3%
pH: 7.2

CAS Number	Analyte	ug/kg	
121-14-2	2,4-Dinitrotoluene	4,900	U
84-66-2	Diethylphthalate	980	U
7005-72-3	4-Chlorophenyl-phenylether	980	U
86-73-7	**Fluorene**	**6,700**	
100-01-6	4-Nitroaniline	4,900	U J
534-52-1	4,6-Dinitro-2-Methylphenol	9,800	U J
86-30-6	N-Nitrosodiphenylamine	980	U J
101-55-3	4-Bromophenyl-phenylether	980	U
118-74-1	Hexachlorobenzene	980	U
87-86-5	Pentachlorophenol	4,900	U J
85-01-8	**Phenanthrene**	**31,000**	
86-74-8	**Carbazole**	**3,400**	J
120-12-7	**Anthracene**	**22,000**	
84-74-2	Di-n-Butylphthalate	980	U
206-44-0	**Fluoranthene**	**22,000**	
129-00-0	**Pyrene**	**17,000**	
85-68-7	Butylbenzylphthalate	980	U
91-94-1	3,3'-Dichlorobenzidine	4,900	U J
56-55-3	**Benzo(a)anthracene**	**4,800**	
117-81-7	bis(2-Ethylhexyl)phthalate	980	U
218-01-9	**Chrysene**	**6,300**	
117-84-0	Di-n-Octyl phthalate	980	U
205-99-2	**Benzo(b)fluoranthene**	**1,900**	
207-08-9	**Benzo(k)fluoranthene**	**2,100**	
50-32-8	**Benzo(a)pyrene**	**2,400**	
193-39-5	**Indeno(1,2,3-cd)pyrene**	**1,100**	
53-70-3	Dibenz(a,h)anthracene	980	U
191-24-2	**Benzo(g,h,i)perylene**	**1,300**	J

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	D	d5-Phenol	D
2-Fluorobiphenyl	D	2-Fluorophenol	D
d14-p-Terphenyl	D	2,4,6-Tribromophenol	D
d4-1,2-Dichlorobenzene	D	d4-2-Chlorophenol	D

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS

Lab Sample ID: T914AI
LIMS ID: 97-17621
Matrix: Sediment
Data Release Authorized: BKB
Reported: 11/13/97

Sample No: 9738 4944
WR-SD-SD072-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/29/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 36.9%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	99 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	**Fluorene**	**960**
100-01-6	4-Nitroaniline	99 U
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	99 U J
85-01-8	**Phenanthrene**	~~2,200 E~~ 1800 D
86-74-8	**Carbazole**	86 J
120-12-7	**Anthracene**	**440**
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	~~1,600 E~~ 1500 D
129-00-0	**Pyrene**	~~2,100 E~~ 1600 D
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	99 U
56-55-3	**Benzo(a)anthracene**	**700**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**210** ~~B~~
218-01-9	**Chrysene**	**1,100**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**800**
207-08-9	**Benzo(k)fluoranthene**	**630**
50-32-8	**Benzo(a)pyrene**	**980**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**560**
53-70-3	**Dibenz(a,h)anthracene**	**160**
191-24-2	**Benzo(g,h,i)perylene**	**600**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	57.6%	d5-Phenol	65.4%
2-Fluorobiphenyl	62.2%	2-Fluorophenol	67.4%
d14-p-Terphenyl	91.2%	2,4,6-Tribromophenol	74.7%
d4-1,2-Dichlorobenzene	57.2%	d4-2-Chlorophenol	64.2%

FORM-1

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4940
DILUTION

Lab Sample ID: T914AY
LIMS ID: 97-17618
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Data Release Authorized: SWP
Reported: 11/13/97

Date Analyzed: 11/03/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	---	Unknown_Hydrocarbon	12.50	SVOA	46,000 J N
2.	---	Unknown_C15.H12_PNA	19.98	SVOA	2,200 J
3.	---	Unknown_Aromatic	20.15	SVOA	6,200 J
4.	---	Unknown_C17.H12_PNA	22.47	SVOA	5,300 J
5.	---	Unknown_C17.H12_PNA	22.60	SVOA	3,600 J
6.	---	Unknown_Hydrocarbon	25.23	SVOA	2,300 J
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914AG
LIMS ID: 97-17619
Matrix: Sediment
Data Release Authorized: RWB
Reported: 11/13/97

Sample No: 9738 4941
WR-SD-SD070-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/29/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 53.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 37.6%
pH: 7.5

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U
106-44-5	**4-Methylphenol**	**61**
621-64-7	N-Nitroso-Di-N-Propylamine	38 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	94 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	56 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**510**
106-47-8	4-Chloroaniline	56 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	**2-Methylnaphthalene**	**530**
77-47-4	Hexachlorocyclopentadiene	94 U J
88-06-2	2,4,6-Trichlorophenol	94 U
95-95-4	2,4,5-Trichlorophenol	94 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	94 U
131-11-3	Dimethylphthalate	19 U
208-96-8	**Acenaphthylene**	**64**
99-09-2	3-Nitroaniline	110 U
83-32-9	**Acenaphthene**	~~7,900 E~~ 11000 D
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	94 U
132-64-9	**Dibenzofuran**	~~3,100 E~~ 2600 D
606-20-2	2,6-Dinitrotoluene	94 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914AG
LIMS ID: 97-17619
Matrix: Sediment
Data Release Authorized:
Reported: 11/13/97

Sample No: 9738 4941
WR-SD-SD070-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/29/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 53.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 37.6%
pH: 7.5

CAS Number	Analyte	ug/kg	
121-14-2	2,4-Dinitrotoluene	94 U	
84-66-2	Diethylphthalate	19 U	
7005-72-3	4-Chlorophenyl-phenylether	19 U	
86-73-7	Fluorene	~~8,000 E~~	11000 D
100-01-6	4-Nitroaniline	94 U	
534-52-1	4,6-Dinitro-2-Methylphenol	190 U	
86-30-6	N-Nitrosodiphenylamine	19 U	
101-55-3	4-Bromophenyl-phenylether	19 U	
118-74-1	Hexachlorobenzene	19 U	
87-86-5	Pentachlorophenol	94 U	J
85-01-8	Phenanthrene	~~26,000 E~~	40000 D
86-74-8	Carbazole	2,000 E	J
120-12-7	Anthracene	~~6,600 E~~	8000 D
84-74-2	Di-n-Butylphthalate	19 U	
206-44-0	Fluoranthene	~~15,000 E~~	19000 D
129-00-0	Pyrene	~~11,000 E~~	17000 D
85-68-7	Butylbenzylphthalate	19 U	
91-94-1	3,3'-Dichlorobenzidine	94 U	
56-55-3	Benzo(a)anthracene	~~3,100 E~~	2900 D
117-81-7	bis(2-Ethylhexyl)phthalate	94 ~~B~~	U
218-01-9	Chrysene	~~3,100 E~~	3200 D
117-84-0	Di-n-Octyl phthalate	19 U	
205-99-2	Benzo(b)fluoranthene	~~1,600 E~~	1100 D
207-08-9	Benzo(k)fluoranthene	1,200	
50-32-8	Benzo(a)pyrene	1,400	
193-39-5	Indeno(1,2,3-cd)pyrene	520	
53-70-3	Dibenz(a,h)anthracene	210	
191-24-2	Benzo(g,h,i)perylene	460	

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	45.6%	d5-Phenol	52.0%
2-Fluorobiphenyl	48.7%	2-Fluorophenol	53.5%
d14-p-Terphenyl	77.0%	2,4,6-Tribromophenol	63.6%
d4-1,2-Dichlorobenzene	43.3%	d4-2-Chlorophenol	49.8%

FORM-1

JMB 1/22/9

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4941
WR-SD-SD070-0000

Lab Sample ID: T914AG
LIMS ID: 97-17619
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Data Release Authorized: CWB
Reported: 11/13/97

Date Analyzed: 10/29/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Naphthalene,_Dimethyl_Iso	13.67	SVOA	1,500 JN
2.	--	Naphthalene,_Dimethyl_Iso	13.84	SVOA	2,300 JN
3.	--	Unknown	15.80	SVOA	2,500 JN
4.	--	Unknown_C13.H12_PNA	15.86	SVOA	1,500 JN
5.	--	Unknown_Aromatic	15.96	SVOA	2,000 JN
6.	--	Unknown_C14.H12_PNA	16.48	SVOA	1,400 JN
7.	--	Unknown_C14.H12_PNA	16.70	SVOA	1,600 JN
8.	--	Unknown_C14.H12_PNA	16.88	SVOA	1,200 JN
9.	132-65-0	Dibenzothiophene	17.25	SVOA	2,400 JN
10.	--	Unknown_C16.H12_PNA	18.12	SVOA	1,300 JN
11.	--	Unknown_C15.H12_PNA	18.50	SVOA	2,400 JN
12.	--	Unknown_C15.H12_PNA	18.58	SVOA	2,500 JN
13.	--	Unknown_C15.H12_PNA	18.65	SVOA	1,100 JN
14.	--	Unknown_Aromatic	18.76	SVOA	5,400 JN
15.	--	Unknown_C16.H12_PNA	19.10	SVOA	1,500 JN
16.	--	Unknown	20.08	SVOA	1,500 JN
17.	--	Unknown_Aromatic	20.45	SVOA	4,000 JN
18.	--	Unknown_C17.H12_PNA	20.84	SVOA	1,200 JN
19.	--	Unknown_C17.H12_PNA	21.07	SVOA	2,600 JN
20.	--	Unknown_C17.H12_PNA	21.19	SVOA	1,900 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914AG
LIMS ID: 97-17619
Matrix: Sediment
Data Release Authorized:
Reported: 11/13/97

Sample No: 9738 4941
DILUTION

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 11/07/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 53.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:50
Percent Moisture: 37.6%
pH: 7.5

CAS Number	Analyte	ug/kg
108-95-2	Phenol	940 U
111-44-4	Bis-(2-Chloroethyl) Ether	1,900 U
95-57-8	2-Chlorophenol	940 U
541-73-1	1,3-Dichlorobenzene	940 U
106-46-7	1,4-Dichlorobenzene	940 U
100-51-6	Benzyl Alcohol	940 U
95-50-1	1,2-Dichlorobenzene	940 U
95-48-7	2-Methylphenol	940 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	940 U
106-44-5	4-Methylphenol	940 U
621-64-7	N-Nitroso-Di-N-Propylamine	1,900 U
67-72-1	Hexachloroethane	940 U
98-95-3	Nitrobenzene	940 U
78-59-1	Isophorone	940 U
88-75-5	2-Nitrophenol	4,700 U
105-67-9	2,4-Dimethylphenol	940 U
65-85-0	Benzoic Acid	9,400 U
111-91-1	bis(2-Chloroethoxy) Methane	940 U
120-83-2	2,4-Dichlorophenol	2,800 U
120-82-1	1,2,4-Trichlorobenzene	940 U
91-20-3	Naphthalene	940 U
106-47-8	4-Chloroaniline	2,800 U
87-68-3	Hexachlorobutadiene	940 U
59-50-7	4-Chloro-3-methylphenol	1,900 U
91-57-6	2-Methylnaphthalene	940 U
77-47-4	Hexachlorocyclopentadiene	4,700 U
88-06-2	2,4,6-Trichlorophenol	4,700 U
95-95-4	2,4,5-Trichlorophenol	4,700 U
91-58-7	2-Chloronaphthalene	940 U
88-74-4	2-Nitroaniline	4,700 U
131-11-3	Dimethylphthalate	940 U
208-96-8	Acenaphthylene	940 U
99-09-2	3-Nitroaniline	5,600 U
83-32-9	**Acenaphthene**	**11,000**
51-28-5	2,4-Dinitrophenol	9,400 U J
100-02-7	4-Nitrophenol	4,700 U
132-64-9	**Dibenzofuran**	**2,600**
606-20-2	2,6-Dinitrotoluene	4,700 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914AG
LIMS ID: 97-17619
Matrix: Sediment
Data Release Authorized: BWB
Reported: 11/13/97

Sample No: 9738 4941
DILUTION

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 11/07/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 53.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:50
Percent Moisture: 37.6%
pH: 7.5

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	4,700 U
84-66-2	Diethylphthalate	940 U
7005-72-3	4-Chlorophenyl-phenylether	940 U
86-73-7	**Fluorene**	**11,000**
100-01-6	4-Nitroaniline	4,700 U
534-52-1	4,6-Dinitro-2-Methylphenol	9,400 U
86-30-6	N-Nitrosodiphenylamine	940 U
101-55-3	4-Bromophenyl-phenylether	940 U
118-74-1	Hexachlorobenzene	940 U
87-86-5	Pentachlorophenol	4,700 U
85-01-8	**Phenanthrene**	**40,000**
86-74-8	Carbazole	940 U
120-12-7	**Anthracene**	**8,000**
84-74-2	Di-n-Butylphthalate	940 U
206-44-0	**Fluoranthene**	**19,000**
129-00-0	**Pyrene**	**17,000**
85-68-7	Butylbenzylphthalate	940 U
91-94-1	3,3'-Dichlorobenzidine	4,700 U
56-55-3	**Benzo(a)anthracene**	**2,900**
117-81-7	bis(2-Ethylhexyl)phthalate	940 U
218-01-9	**Chrysene**	**3,200**
117-84-0	Di-n-Octyl phthalate	940 U
205-99-2	**Benzo(b)fluoranthene**	**1,100**
207-08-9	**Benzo(k)fluoranthene**	**1,200**
50-32-8	**Benzo(a)pyrene**	**1,100**
193-39-5	Indeno(1,2,3-cd)pyrene	940 U
53-70-3	Dibenz(a,h)anthracene	940 U
191-24-2	Benzo(g,h,i)perylene	940 U

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	D	d5-Phenol	D
2-Fluorobiphenyl	D	2-Fluorophenol	D
d14-p-Terphenyl	D	2,4,6-Tribromophenol	D
d4-1,2-Dichlorobenzene	D	d4-2-Chlorophenol	D

FORM-1

JMB 1/22/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

	Sample No:	9738 4941 DILUTION
Lab Sample ID: T914AG	QC Report No:	T914-Roy F. Weston
LIMS ID: 97-17619	Project:	
Matrix: Sediment		1001.006
	Date Sampled:	09/20/97
	Date Received:	09/24/97

Data Release Authorized: QVP
Reported: 11/13/97

Date Analyzed: 11/07/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	---	Naphthalene, Dimethyl Iso	13.47	SVOA	2,400 J N
2.	---	Unknown PNA	15.41	SVOA	2,500 J
3.	---	Unknown Aromatic	15.58	SVOA	1,900 J
4.	---	Unknown	18.33	SVOA	4,800 J
5.	---	Unknown	27.96	SVOA	2,400 J
6.					
7.					
8.					
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18.					
19.					
20.					

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914AH
LIMS ID: 97-17620
Matrix: Sediment
Data Release Authorized: CMB
Reported: 11/13/97

Sample No: 9738 4943
WR-SD-SD070-1000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/29/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 35.6%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U
106-44-5	**4-Methylphenol**	**73**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	97 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**280**
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	**2-Methylnaphthalene**	**240**
77-47-4	Hexachlorocyclopentadiene	97 U J
88-06-2	2,4,6-Trichlorophenol	97 U
95-95-4	2,4,5-Trichlorophenol	97 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	97 U
131-11-3	Dimethylphthalate	19 U
208-96-8	**Acenaphthylene**	**39**
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	~~4,600 E~~ 5200 D
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	97 U
132-64-9	**Dibenzofuran**	**1,500**
606-20-2	2,6-Dinitrotoluene	97 U

FORM-1

JMB 1/22/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS

Lab Sample ID: T914AH
LIMS ID: 97-17620
Matrix: Sediment
Data Release Authorized: [illegible]
Reported: 11/13/97

Sample No: 9738 4943 WR-SD-SD070-1000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/29/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 35.6%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	97 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	Fluorene	~~4,500 E~~ 4800 D
100-01-6	4-Nitroaniline	97 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	97 U J
85-01-8	Phenanthrene	~~12,000 E~~ 18000 D
86-74-8	Carbazole	580 J
120-12-7	Anthracene	3,500 ~~E~~ D
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	Fluoranthene	~~7,200 E~~ 9600 D
129-00-0	Pyrene	~~6,600 E~~ 8400 D
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	97 U
56-55-3	Benzo(a)anthracene	~~1,700 E~~ 1600 D
117-81-7	bis(2-Ethylhexyl)phthalate	140 ~~B~~ U
218-01-9	Chrysene	~~1,900 E~~ 1800 D
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	Benzo(b)fluoranthene	770
207-08-9	Benzo(k)fluoranthene	770
50-32-8	Benzo(a)pyrene	830
193-39-5	Indeno(1,2,3-cd)pyrene	290
53-70-3	Dibenz(a,h)anthracene	120
191-24-2	Benzo(g,h,i)perylene	290

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	49.6%	d5-Phenol	58.9%
2-Fluorobiphenyl	53.8%	2-Fluorophenol	57.2%
d14-p-Terphenyl	79.0%	2,4,6-Tribromophenol	66.9%
d4-1,2-Dichlorobenzene	45.6%	d4-2-Chlorophenol	55.9%

FORM-1

JMB 1/22/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4943
WR-SD-SD070-1000

Lab Sample ID: T914AH
LIMS ID: 97-17620
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Data Release Authorized: GMB
Reported: 11/13/97

Date Analyzed: 10/29/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Naphthalene,_Dimethyl_Iso	13.66	SVOA	820 J N
2.	--	Naphthalene,_Dimethyl_Iso	13.84	SVOA	1,200 J N
3.	--	Unknown_C13.H12_PNA	15.76	SVOA	1,500 J N
4.	--	Unknown_C13.H12_PNA	15.84	SVOA	810 J N
5.	--	Unknown_Aromatic	15.93	SVOA	1,200 J N
6.	--	Unknown_C14.H12_PNA	16.47	SVOA	890 J N
7.	--	Unknown_C14.H12_PNA	16.68	SVOA	750 J N
8.	132-65-0	Dibenzothiophene	17.23	SVOA	1,300 JN
9.	--	Unknown_C16.H12_PNA	18.11	SVOA	720 J N
10.	--	Unknown_C15.H12_PNA	18.47	SVOA	1,600 J N
11.	--	Unknown_C15.H12_PNA	18.54	SVOA	1,700 J N
12.	--	Unknown_C15.H12_PNA	18.61	SVOA	700 J N
13.	--	Unknown_PNA	18.72	SVOA	4,000 J N
14.	--	Unknown	20.05	SVOA	680 J N
15.	--	Unknown_C17.H12_PNA	20.80	SVOA	710 J N
16.	--	Unknown_C17.H12_PNA	21.03	SVOA	1,700 J N
17.	--	Unknown_C17.H12_PNA	21.15	SVOA	1,100 J N
18.	--	Unknown_C17.H12_PNA	21.23	SVOA	780 J N
19.	--	Unknown_Sterol_type	27.62	SVOA	900 J N
20.	--	Unknown_Aromatic	27.77	SVOA	840 J N

GMB 12/22/97

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914AH
LIMS ID: 97-17620
Matrix: Sediment
Data Release Authorized: BMB
Reported: 11/13/97

Sample No: 9738 4943
DILUTION

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 11/07/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:20
Percent Moisture: 35.6%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	390 U
111-44-4	Bis-(2-Chloroethyl) Ether	770 U
95-57-8	2-Chlorophenol	390 U
541-73-1	1,3-Dichlorobenzene	390 U
106-46-7	1,4-Dichlorobenzene	390 U
100-51-6	Benzyl Alcohol	390 U
95-50-1	1,2-Dichlorobenzene	390 U
95-48-7	2-Methylphenol	390 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	390 U
106-44-5	4-Methylphenol	390 U
621-64-7	N-Nitroso-Di-N-Propylamine	770 U
67-72-1	Hexachloroethane	390 U
98-95-3	Nitrobenzene	390 U
78-59-1	Isophorone	390 U
88-75-5	2-Nitrophenol	1,900 U
105-67-9	2,4-Dimethylphenol	390 U
65-85-0	Benzoic Acid	3,900 U
111-91-1	bis(2-Chloroethoxy) Methane	390 U
120-83-2	2,4-Dichlorophenol	1,200 U
120-82-1	1,2,4-Trichlorobenzene	390 U
91-20-3	Naphthalene	390 U
106-47-8	4-Chloroaniline	1,200 U
87-68-3	Hexachlorobutadiene	390 U
59-50-7	4-Chloro-3-methylphenol	770 U
91-57-6	2-Methylnaphthalene	390 U
77-47-4	Hexachlorocyclopentadiene	1,900 U
88-06-2	2,4,6-Trichlorophenol	1,900 U
95-95-4	2,4,5-Trichlorophenol	1,900 U
91-58-7	2-Chloronaphthalene	390 U
88-74-4	2-Nitroaniline	1,900 U
131-11-3	Dimethylphthalate	390 U
208-96-8	Acenaphthylene	390 U
99-09-2	3-Nitroaniline	2,300 U
83-32-9	**Acenaphthene**	**5,200**
51-28-5	2,4-Dinitrophenol	3,900 UJ
100-02-7	4-Nitrophenol	1,900 U
132-64-9	**Dibenzofuran**	**1,200**
606-20-2	2,6-Dinitrotoluene	1,900 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 2 of 2

Sample No: 9738 4943
DILUTION

Lab Sample ID: T914AH
LIMS ID: 97-17620
Matrix: Sediment
Data Release Authorized: [illegible]
Reported: 11/13/97

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 11/07/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:20
Percent Moisture: 35.6%
pH: 7.3

CAS Number	Analyte	µg/kg
121-14-2	2,4-Dinitrotoluene	1,900 U
84-66-2	Diethylphthalate	390 U
7005-72-3	4-Chlorophenyl-phenylether	390 U
86-73-7	**Fluorene**	**4,800**
100-01-6	4-Nitroaniline	1,900 U
534-52-1	4,6-Dinitro-2-Methylphenol	3,900 U
86-30-6	N-Nitrosodiphenylamine	390 U
101-55-3	4-Bromophenyl-phenylether	390 U
118-74-1	Hexachlorobenzene	390 U
87-86-5	Pentachlorophenol	1,900 U
85-01-8	**Phenanthrene**	**18,000**
86-74-8	Carbazole	390 U
120-12-7	**Anthracene**	**3,500**
84-74-2	Di-n-Butylphthalate	390 U
206-44-0	**Fluoranthene**	**9,600**
129-00-0	**Pyrene**	**8,400**
85-68-7	Butylbenzylphthalate	390 U
91-94-1	3,3'-Dichlorobenzidine	1,900 U
56-55-3	**Benzo(a)anthracene**	**1,600**
117-81-7	bis(2-Ethylhexyl)phthalate	390 U
218-01-9	**Chrysene**	**1,800**
117-84-0	Di-n-Octyl phthalate	390 U
205-99-2	**Benzo(b)fluoranthene**	**620**
207-08-9	**Benzo(k)fluoranthene**	**630**
50-32-8	**Benzo(a)pyrene**	**630**
193-39-5	Indeno(1,2,3-cd)pyrene	390 U
53-70-3	Dibenz(a,h)anthracene	390 U
191-24-2	Benzo(g,h,i)perylene	390 U

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	46.4%	d5-Phenol	49.1%
2-Fluorobiphenyl	55.2%	2-Fluorophenol	49.6%
d14-p-Terphenyl	70.4%	2,4,6-Tribromophenol	56.5%
d4-1,2-Dichlorobenzene	42.4%	d4-2-Chlorophenol	46.4%

FORM-1

JMB 1/22/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4943
DILUTION

Lab Sample ID: T914AH
LIMS ID: 97-17620
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Data Release Authorized: GNB
Reported: 11/13/97

Date Analyzed: 11/07/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	---	Naphthalene,_Dimethyl_Iso	13.48	SVOA	1,100 J N
2.	---	Unknown_Aromatic	15.42	SVOA	1,300 J
3.	---	Unknown_Aromatic	15.57	SVOA	900 J
4.	---	Unknown_C15.H12_PNA	18.11	SVOA	780 J
5.	---	Unknown_C15.H12_PNA	18.16	SVOA	870 J
6.	---	Unknown_Aromatic	18.33	SVOA	2,300 J
7.	---	Unknown_C17.H12_PNA	20.65	SVOA	890 J
8.	---	Unknown_Aromatic	21.95	SVOA	850 J
9.	---	Unknown_Aromatic	22.61	SVOA	880 J
10.	---	Unknown_Hydrocarbon	23.43	SVOA	1,100 J
11.	---	Unknown	27.96	SVOA	870 J
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					

FORM-1-B

~~002622~~ JME 1/22/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914AI
LIMS ID: 97-17621
Matrix: Sediment
Data Release Authorized:
Reported: 11/13/97

Sample No: 9738 4944
WR-SD-SD072-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/29/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 36.9%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	40 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U J
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U
106-44-5	**4-Methylphenol**	**250**
621-64-7	N-Nitroso-Di-N-Propylamine	40 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	99 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**210**
106-47-8	4-Chloroaniline	59 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	40 U
91-57-6	**2-Methylnaphthalene**	**130**
77-47-4	Hexachlorocyclopentadiene	99 U J
88-06-2	2,4,6-Trichlorophenol	99 U
95-95-4	2,4,5-Trichlorophenol	99 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	99 U
131-11-3	Dimethylphthalate	20 U
208-96-8	**Acenaphthylene**	**85**
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**1,500**
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	99 U
132-64-9	**Dibenzofuran**	**220**
606-20-2	2,6-Dinitrotoluene	99 U

FORM-1

~~002655~~
JMB 1/22/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4944
WR-SD-SD072-0000

Lab Sample ID: T914AI
LIMS ID: 97-17621
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Data Release Authorized: aup
Reported: 11/13/97

Date Analyzed: 10/29/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid	6.60	SVOA	280 J N
2.	--	Unknown_Organic_Acid	11.88	SVOA	270 J N
3.	--	Naphthalene,_Dimethyl_Iso	13.82	SVOA	240 J N
4.	--	Unknown	16.80	SVOA	290 J N
5.	--	Unknown_Organic_Acid	17.01	SVOA	280 J N
6.	--	Unknown_Organic_Acid	17.66	SVOA	270 J N
7.	--	Unknown_C15.H12_PNA	18.45	SVOA	300 J N
8.	--	Unknown_C15.H12_PNA	18.58	SVOA	240 J N
9.	--	Unknown_Aromatic	18.68	SVOA	470 J N
10.	--	Unknown_Organic_Acid	18.76	SVOA	400 J N
11.	--	Unknown	19.13	SVOA	240 J N
12.	--	Unknown_Aromatic	20.97	SVOA	600 J N
13.	--	Unknown	22.27	SVOA	640 J N
14.	--	Unknown_Aldehyde	24.66	SVOA	260 J N
15.	--	Unknown_C20.H12_PNA	25.22	SVOA	230 J N
16.	--	Unknown_Sterol_type	27.63	SVOA	850 J N
17.	--	Unknown_Aromatic	27.78	SVOA	350 J N
18.	--	Unknown	27.96	SVOA	340 J N
19.	--	Unknown_Sterol_type	28.07	SVOA	610 J N
20.	--	Unknown_Sterol_type	28.51	SVOA	350 J N

FORM-1-B

~~002657~~

JMB
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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2

Sample No: 9738 4944

Lab Sample ID: T914AI
LIMS ID: 97-17621
Matrix: Sediment
Data Release Authorized: BWB
Reported: 11/13/97

QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/29/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 36.9%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	99 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	**Fluorene**	**960**
100-01-6	4-Nitroaniline	99 U
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	99 U
85-01-8	**Phenanthrene**	**2,200 E**
86-74-8	**Carbazole**	**86**
120-12-7	**Anthracene**	**440**
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**1,600 E**
129-00-0	**Pyrene**	**2,100 E**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	99 U
56-55-3	**Benzo(a)anthracene**	**700**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**210 B**
218-01-9	**Chrysene**	**1,100**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**800**
207-08-9	**Benzo(k)fluoranthene**	**630**
50-32-8	**Benzo(a)pyrene**	**980**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**560**
53-70-3	**Dibenz(a,h)anthracene**	**160**
191-24-2	**Benzo(g,h,i)perylene**	**600**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	57.6%	d5-Phenol	65.4%
2-Fluorobiphenyl	62.2%	2-Fluorophenol	67.4%
d14-p-Terphenyl	91.2%	2,4,6-Tribromophenol	74.7%
d4-1,2-Dichlorobenzene	57.2%	d4-2-Chlorophenol	64.2%

FORM-1

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 1 of 2

Sample No: 9738 4944
DILUTION

Lab Sample ID: T914AI
LIMS ID: 97-17621
Matrix: Sediment
Data Release Authorized: GMB
Reported: 11/13/97

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 11/07/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:5
Percent Moisture: 36.9%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	99 U
111-44-4	Bis-(2-Chloroethyl) Ether	200 U
95-57-8	2-Chlorophenol	99 U
541-73-1	1,3-Dichlorobenzene	99 U
106-46-7	1,4-Dichlorobenzene	99 U
100-51-6	Benzyl Alcohol	99 U
95-50-1	1,2-Dichlorobenzene	99 U
95-48-7	2-Methylphenol	99 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	99 U
106-44-5	**4-Methylphenol**	**280**
621-64-7	N-Nitroso-Di-N-Propylamine	200 U
67-72-1	Hexachloroethane	99 U
98-95-3	Nitrobenzene	99 U
78-59-1	Isophorone	99 U
88-75-5	2-Nitrophenol	490 U
105-67-9	2,4-Dimethylphenol	99 U
65-85-0	Benzoic Acid	990 U
111-91-1	bis(2-Chloroethoxy) Methane	99 U
120-83-2	2,4-Dichlorophenol	300 U
120-82-1	1,2,4-Trichlorobenzene	99 U
91-20-3	**Naphthalene**	**190**
106-47-8	4-Chloroaniline	300 U
87-68-3	Hexachlorobutadiene	99 U
59-50-7	4-Chloro-3-methylphenol	200 U
91-57-6	**2-Methylnaphthalene**	**100**
77-47-4	Hexachlorocyclopentadiene	490 U
88-06-2	2,4,6-Trichlorophenol	490 U
95-95-4	2,4,5-Trichlorophenol	490 U
91-58-7	2-Chloronaphthalene	99 U
88-74-4	2-Nitroaniline	490 U
131-11-3	Dimethylphthalate	99 U
208-96-8	Acenaphthylene	99 U
99-09-2	3-Nitroaniline	590 U
83-32-9	**Acenaphthene**	**1,200**
51-28-5	2,4-Dinitrophenol	990 U J
100-02-7	4-Nitrophenol	490 U
132-64-9	**Dibenzofuran**	**190**
606-20-2	2,6-Dinitrotoluene	490 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 2 of 2

Sample No: 9738 4944
DILUTION

Lab Sample ID: T914AI
LIMS ID: 97-17621
Matrix: Sediment
Data Release Authorized: [illegible]
Reported: 11/13/97

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 11/07/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:5
Percent Moisture: 36.9%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	490 U
84-66-2	Diethylphthalate	99 U
7005-72-3	4-Chlorophenyl-phenylether	99 U
86-73-7	**Fluorene**	**820**
100-01-6	4-Nitroaniline	490 U
534-52-1	4,6-Dinitro-2-Methylphenol	990 U
86-30-6	N-Nitrosodiphenylamine	99 U
101-55-3	4-Bromophenyl-phenylether	99 U
118-74-1	Hexachlorobenzene	99 U
87-86-5	Pentachlorophenol	490 U
85-01-8	**Phenanthrene**	**1,800**
86-74-8	Carbazole	99 U
120-12-7	**Anthracene**	**290**
84-74-2	Di-n-Butylphthalate	99 U
206-44-0	**Fluoranthene**	**1,500**
129-00-0	**Pyrene**	**1,600**
85-68-7	Butylbenzylphthalate	99 U
91-94-1	3,3'-Dichlorobenzidine	490 U
56-55-3	**Benzo(a)anthracene**	**570**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**140** JL
218-01-9	**Chrysene**	**850**
117-84-0	Di-n-Octyl phthalate	99 U
205-99-2	**Benzo(b)fluoranthene**	**480**
207-08-9	**Benzo(k)fluoranthene**	**580**
50-32-8	**Benzo(a)pyrene**	**710**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**440**
53-70-3	**Dibenz(a,h)anthracene**	**110**
191-24-2	**Benzo(g,h,i)perylene**	**600**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	53.4%	d5-Phenol	56.3%
2-Fluorobiphenyl	59.8%	2-Fluorophenol	57.7%
d14-p-Terphenyl	69.0%	2,4,6-Tribromophenol	66.3%
d4-1,2-Dichlorobenzene	49.6%	d4-2-Chlorophenol	51.9%

FORM-1

~~002709~~ JMB 1/22/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4944
DILUTION

Lab Sample ID: T914AI
LIMS ID: 97-17621
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project:
1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Data Release Authorized: DKP
Reported: 11/13/97

Date Analyzed: 11/07/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	---	Unknown_Organic_Acid	11.33	SVOA	260 J N
2.	---	Unknown_C15.H12_PNA	18.16	SVOA	310 J N
3.	---	Unknown_Organic_Acid	18.32	SVOA	870 J N
4.	7704-34-9	Sulfur	19.46	SVOA	260 JN
5.	---	Unknown	19.70	SVOA	490 J N
6.	---	Unknown_Aromatic	20.63	SVOA	670 J
7.	---	Unknown_C17.H12_PNA	20.78	SVOA	260 J
8.	---	Unknown_PNA_+_C.E.	20.85	SVOA	300 J
9.	---	Unknown	21.95	SVOA	830 J
10.	---	Unknown	22.25	SVOA	250 J
11.	---	Unknown_C19.H14_PNA	23.18	SVOA	240 J
12.	---	Unknown_Aromatic	23.37	SVOA	290 J
13.	---	Unknown_Aldehyde	24.28	SVOA	280 J
14.	---	Unknown_C20.H12_PNA	24.86	SVOA	560 J
15.	---	Unknown	25.93	SVOA	230 J
16.	---	Unknown_C22.H12_PNA	27.45	SVOA	240 J
17.	---	Unknown	27.63	SVOA	1,000 J
18.	---	Unknown	27.81	SVOA	480 J
19.	---	Unknown	27.96	SVOA	1,600 J
20.	---	Unknown_Sterol_type	28.43	SVOA	400 J

FORM-1-B

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914AJ
LIMS ID: 97-17622
Matrix: Sediment
Data Release Authorized:
Reported: 11/13/97

Sample No: 9738 4945
WR-SD-SD075-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/29/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 53.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 37.6%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U
106-44-5	**4-Methylphenol**	**97**
621-64-7	N-Nitroso-Di-N-Propylamine	38 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	94 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	56 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**350**
106-47-8	4-Chloroaniline	56 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	**2-Methylnaphthalene**	**180**
77-47-4	Hexachlorocyclopentadiene	94 U J
88-06-2	2,4,6-Trichlorophenol	94 U
95-95-4	2,4,5-Trichlorophenol	94 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	94 U
131-11-3	Dimethylphthalate	19 U
208-96-8	**Acenaphthylene**	**140**
99-09-2	3-Nitroaniline	110 U
83-32-9	**Acenaphthene**	~~4,200 E~~ 3800 D
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	94 U
132-64-9	**Dibenzofuran**	**340**
606-20-2	2,6-Dinitrotoluene	94 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914AJ
LIMS ID: 97-17622
Matrix: Sediment
Data Release Authorized: ACB
Reported: 11/13/97

Sample No: 9738 4945
WR-SD-SD075-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/29/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 53.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 37.6%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	94 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	~~2,900 E~~ 2400 D
100-01-6	4-Nitroaniline	94 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	94 U J
85-01-8	**Phenanthrene**	~~5,000 E~~ 5500 D
86-74-8	**Carbazole**	170 J
120-12-7	**Anthracene**	1,300
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	~~3,300 E~~ 3500 D
129-00-0	**Pyrene**	~~3,000 E~~ 3300 D
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	94 U
56-55-3	**Benzo(a)anthracene**	1,500
117-81-7	**bis(2-Ethylhexyl)phthalate**	700 ~~B~~
218-01-9	**Chrysene**	~~1,900 E~~ 1700 D
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	1,100
207-08-9	**Benzo(k)fluoranthene**	1,100
50-32-8	**Benzo(a)pyrene**	1,300
193-39-5	**Indeno(1,2,3-cd)pyrene**	730
53-70-3	**Dibenz(a,h)anthracene**	220
191-24-2	**Benzo(g,h,i)perylene**	810

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	50.6%	d5-Phenol	51.7%
2-Fluorobiphenyl	54.8%	2-Fluorophenol	55.8%
d14-p-Terphenyl	77.8%	2,4,6-Tribromophenol	63.0%
d4-1,2-Dichlorobenzene	48.6%	d4-2-Chlorophenol	52.1%

FORM-1

JMB 1/22/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4945
WR-SD-SD075-0000

Lab Sample ID: T914AJ
LIMS ID: 97-17622
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Data Release Authorized: BNR
Reported: 11/13/97

Date Analyzed: 10/29/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Naphthalene,_Ethyl_Isomer	13.53	SVOA	390 JN
2.	--	Naphthalene,_Dimethyl_Iso	13.66	SVOA	490 JN
3.	--	Naphthalene,_Dimethyl_Iso	13.83	SVOA	830 JN
4.	--	Unknown_Aromatic_____	15.76	SVOA	380 JN
5.	--	Unknown_Aromatic_____	15.93	SVOA	520 JN
6.	132-65-0	Dibenzothiophene_____	17.23	SVOA	380 JN
7.	--	Unknown_C15.H12_PNA_____	18.52	SVOA	470 JN
8.	--	Unknown_C15.H12_PNA_____	18.59	SVOA	380 JN
9.	--	Unknown_____	18.69	SVOA	1,700 JN
10.	--	Unknown_____	19.13	SVOA	430 JN
11.	--	Unknown_____	20.06	SVOA	390 JN
12.	--	Unknown_PNA_____	20.53	SVOA	370 JN
13.	--	Unknown_C17.H12_PNA_____	20.80	SVOA	380 JN
14.	--	Unknown_Aromatic_____	21.04	SVOA	3,800 JN
15.	--	Unknown_C17.H12_PNA_____	21.17	SVOA	660 JN
16.	--	Unknown_C17.H12_PNA_____	21.24	SVOA	510 JN
17.	--	Benzothiophene_Isomer____	22.26	SVOA	480 JN
18.	--	Unknown_Sterol_type_____	27.63	SVOA	410 JN
19.	--	Unknown_____	27.97	SVOA	380 JN
20.	--	Unknown_Sterol_type_____	28.08	SVOA	530 JN

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FORM-1-B

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914AJ
LIMS ID: 97-17622
Matrix: Sediment
Data Release Authorized: [illegible]
Reported: 11/13/97

Sample No: 9738 4945
DILUTION

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 11/07/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 53.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:10
Percent Moisture: 37.6%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	190 U
111-44-4	Bis-(2-Chloroethyl) Ether	380 U
95-57-8	2-Chlorophenol	190 U
541-73-1	1,3-Dichlorobenzene	190 U
106-46-7	1,4-Dichlorobenzene	190 U
100-51-6	Benzyl Alcohol	190 U
95-50-1	1,2-Dichlorobenzene	190 U
95-48-7	2-Methylphenol	190 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	190 U
106-44-5	4-Methylphenol	190 U
621-64-7	N-Nitroso-Di-N-Propylamine	380 U
67-72-1	Hexachloroethane	190 U
98-95-3	Nitrobenzene	190 U
78-59-1	Isophorone	190 U
88-75-5	2-Nitrophenol	940 U
105-67-9	2,4-Dimethylphenol	190 U
65-85-0	Benzoic Acid	1,900 U
111-91-1	bis(2-Chloroethoxy) Methane	190 U
120-83-2	2,4-Dichlorophenol	560 U
120-82-1	1,2,4-Trichlorobenzene	190 U
91-20-3	**Naphthalene**	**270**
106-47-8	4-Chloroaniline	560 U
87-68-3	Hexachlorobutadiene	190 U
59-50-7	4-Chloro-3-methylphenol	380 U
91-57-6	2-Methylnaphthalene	190 U
77-47-4	Hexachlorocyclopentadiene	940 U
88-06-2	2,4,6-Trichlorophenol	940 U
95-95-4	2,4,5-Trichlorophenol	940 U
91-58-7	2-Chloronaphthalene	190 U
88-74-4	2-Nitroaniline	940 U
131-11-3	Dimethylphthalate	190 U
208-96-8	Acenaphthylene	190 U
99-09-2	3-Nitroaniline	1,100 U
83-32-9	**Acenaphthene**	**3,800**
51-28-5	2,4-Dinitrophenol	1,900 U J
100-02-7	4-Nitrophenol	940 U
132-64-9	**Dibenzofuran**	**260**
606-20-2	2,6-Dinitrotoluene	940 U

FORM-1

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~~002812~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS

Sample No: 9738 4945
DILUTION

Lab Sample ID: T914AJ
LIMS ID: 97-17622
Matrix: Sediment
Data Release Authorized: [illegible]
Reported: 11/13/97

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 11/07/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 53.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:10
Percent Moisture: 37.6%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	940 U
84-66-2	Diethylphthalate	190 U
7005-72-3	4-Chlorophenyl-phenylether	190 U
86-73-7	**Fluorene**	**2,400**
100-01-6	4-Nitroaniline	940 U
534-52-1	4,6-Dinitro-2-Methylphenol	1,900 U
86-30-6	N-Nitrosodiphenylamine	190 U
101-55-3	4-Bromophenyl-phenylether	190 U
118-74-1	Hexachlorobenzene	190 U
87-86-5	Pentachlorophenol	940 U
85-01-8	**Phenanthrene**	**5,500**
86-74-8	Carbazole	190 U
120-12-7	**Anthracene**	**920**
84-74-2	Di-n-Butylphthalate	190 U
206-44-0	**Fluoranthene**	**3,500**
129-00-0	**Pyrene**	**3,300**
85-68-7	Butylbenzylphthalate	190 U
91-94-1	3,3'-Dichlorobenzidine	940 U
56-55-3	**Benzo(a)anthracene**	**1,200**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**430** U
218-01-9	**Chrysene**	**1,700**
117-84-0	Di-n-Octyl phthalate	190 U
205-99-2	**Benzo(b)fluoranthene**	**710**
207-08-9	**Benzo(k)fluoranthene**	**820**
50-32-8	**Benzo(a)pyrene**	**960**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**540**
53-70-3	Dibenz(a,h)anthracene	190 U
191-24-2	**Benzo(g,h,i)perylene**	**740**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	42.0%	d5-Phenol	41.9%
2-Fluorobiphenyl	48.4%	2-Fluorophenol	45.9%
d14-p-Terphenyl	60.0%	2,4,6-Tribromophenol	56.3%
d4-1,2-Dichlorobenzene	40.8%	d4-2-Chlorophenol	40.5%

FORM-1

JMB
~~002813~~ 1/22/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4945
DILUTION

Lab Sample ID: T914AJ
LIMS ID: 97-17622
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project:
1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Data Release Authorized: ANB
Reported: 11/13/97

Date Analyzed: 11/07/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	---	Naphthalene,_Ethyl_Isomer	13.18	SVOA	400 J N
2.	---	Naphthalene,_Dimethyl_Iso	13.30	SVOA	390 J
3.	---	Naphthalene,_Dimethyl_Iso	13.47	SVOA	500 J
4.	---	Naphthalene,_Dimethyl_Iso	13.70	SVOA	440 J
5.	---	Unknown_Hydrocarbon	16.09	SVOA	470 J
6.	---	Unknown_Aromatic	18.33	SVOA	940 J
7.	---	Unknown_Aromatic	20.63	SVOA	3,200 J
8.	---	Unknown	21.53	SVOA	520 J
9.	---	Unknown	21.95	SVOA	1,100 J
10.	---	Unknown_Hydrocarbon	22.19	SVOA	550 J
11.	---	Unknown_Hydrocarbon	23.44	SVOA	930 J
12.	---	Unknown_Hydrocarbon	24.59	SVOA	830 J
13.	---	Unknown_C20.H12_PNA	24.86	SVOA	790 J
14.	---	Unknown	27.63	SVOA	800 J
15.	---	Unknown	27.96	SVOA	1,000 J
16.					
17.					
18.					
19.					
20.					

FORM-1-B

~~002814~~ JMB 1/22/

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914AK
LIMS ID: 97-17623
Matrix: Sediment
Data Release Authorized: [illegible]
Reported: 11/13/97

Sample No: 9738 4947
WR-SD-SD077-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/21/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 11/03/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 38.1%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	**4-Methylphenol**	**68**
621-64-7	N-Nitroso-Di-N-Propylamine	38 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	95 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U J
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	57 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**300**
106-47-8	4-Chloroaniline	57 U J
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	**2-Methylnaphthalene**	**430**
77-47-4	Hexachlorocyclopentadiene	95 U J
88-06-2	2,4,6-Trichlorophenol	95 U
95-95-4	2,4,5-Trichlorophenol	95 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	95 U
131-11-3	Dimethylphthalate	19 U
208-96-8	**Acenaphthylene**	**140**
99-09-2	3-Nitroaniline	110 U J
83-32-9	**Acenaphthene**	~~2,600 B~~ 2400 D
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	95 U
132-64-9	**Dibenzofuran**	**160**
606-20-2	2,6-Dinitrotoluene	95 U

FORM-1

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~~002854~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914AK
LIMS ID: 97-17623
Matrix: Sediment
Data Release Authorized: DMB
Reported: 11/13/97

Sample No: 9738 4947
WR-SD-SD077-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/21/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 11/03/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 38.1%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	95 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**1,400**
100-01-6	4-Nitroaniline	95 U J
534-52-1	4,6-Dinitro-2-Methylphenol	190 U ~~J~~
86-30-6	N-Nitrosodiphenylamine	19 U J
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	95 U J
85-01-8	**Phenanthrene**	~~2,100 E~~ 2200 D
86-74-8	**Carbazole**	**700** J
120-12-7	**Anthracene**	**420**
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	~~1,800 E~~ 1700 D
129-00-0	**Pyrene**	~~2,100 E~~ 2500 D
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	95 U J
56-55-3	**Benzo(a)anthracene**	**740**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**180** ~~J~~ U
218-01-9	**Chrysene**	**920**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**700**
207-08-9	**Benzo(k)fluoranthene**	**670**
50-32-8	**Benzo(a)pyrene**	**890**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**380**
53-70-3	**Dibenz(a,h)anthracene**	**140**
191-24-2	**Benzo(g,h,i)perylene**	**420** J

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	63.6%	d5-Phenol	71.4%
2-Fluorobiphenyl	60.7%	2-Fluorophenol	79.0%
d14-p-Terphenyl	75.9%	2,4,6-Tribromophenol	81.7%
d4-1,2-Dichlorobenzene	56.2%	d4-2-Chlorophenol	65.5%

FORM-1

MMB 1/22/98

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4947
WR-SD-SD077-0000

Lab Sample ID: T914AK
LIMS ID: 97-17623
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/21/97
Date Received: 09/24/97

Data Release Authorized: DMB
Reported: 11/13/97

Date Analyzed: 11/03/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	90-12-0	Naphthalene,_1-methyl-___	14.08	SVOA	730 JN
2.	--	Unknown_Aromatic_____	15.04	SVOA	390 JN
3.	--	Naphthalene,_Dimethyl_Iso	15.13	SVOA	420 JN
4.	--	Naphthalene,_Dimethyl_Iso	15.31	SVOA	850 JN
5.	--	Unknown_Aromatic_____	16.20	SVOA	350 JN
6.	--	Unknown_Aromatic_____	20.20	SVOA	900 JN
7.	--	Unknown_____	21.56	SVOA	520 JN
8.	--	Unknown_Aromatic_____	22.49	SVOA	1,200 JN
9.	--	Unknown_____	23.36	SVOA	1,500 JN
10.	--	Unknown_____	23.63	SVOA	700 JN
11.	--	Unknown_____	23.78	SVOA	4,400 JN
12.	--	Unknown_____	23.93	SVOA	2,000 JN
13.	--	Unknown_____	24.14	SVOA	2,300 JN
14.	--	Unknown_Aldehyde_____	26.13	SVOA	540 JN
15.	--	Unknown_C20.H12_PNA_____	26.76	SVOA	400 JN
16.	--	Unknown_Aldehyde_____	27.25	SVOA	610 JN
17.	--	Unknown_Sterol_type_____	27.77	SVOA	540 JN
18.	--	Unknown_Sterol_type_____	29.31	SVOA	5,800 JN
19.	--	Unknown_____	29.43	SVOA	4,300 JN
20.	--	Unknown_____	29.52	SVOA	1,400 JN

FORM-1-B

JMB 12/22/97

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 1 of 2

Sample No: 9738 4947
DILUTION

Lab Sample ID: T914AK
LIMS ID: 97-17623
Matrix: Sediment
Data Release Authorized:
Reported: 11/13/97

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/21/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 11/07/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:5
Percent Moisture: 38.1%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	95 U
111-44-4	Bis-(2-Chloroethyl) Ether	190 U
95-57-8	2-Chlorophenol	95 U
541-73-1	1,3-Dichlorobenzene	95 U
106-46-7	1,4-Dichlorobenzene	95 U
100-51-6	Benzyl Alcohol	95 U
95-50-1	1,2-Dichlorobenzene	95 U
95-48-7	2-Methylphenol	95 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	95 U
106-44-5	4-Methylphenol	95 U
621-64-7	N-Nitroso-Di-N-Propylamine	190 U
67-72-1	Hexachloroethane	95 U
98-95-3	Nitrobenzene	95 U
78-59-1	Isophorone	95 U
88-75-5	2-Nitrophenol	470 U
105-67-9	2,4-Dimethylphenol	95 U
65-85-0	Benzoic Acid	950 U
111-91-1	bis(2-Chloroethoxy) Methane	95 U
120-83-2	2,4-Dichlorophenol	280 U
120-82-1	1,2,4-Trichlorobenzene	95 U
91-20-3	**Naphthalene**	**280**
106-47-8	4-Chloroaniline	280 U
87-68-3	Hexachlorobutadiene	95 U
59-50-7	4-Chloro-3-methylphenol	190 U
91-57-6	**2-Methylnaphthalene**	**330**
77-47-4	Hexachlorocyclopentadiene	470 U
88-06-2	2,4,6-Trichlorophenol	470 U
95-95-4	2,4,5-Trichlorophenol	470 U
91-58-7	2-Chloronaphthalene	95 U
88-74-4	2-Nitroaniline	470 U
131-11-3	Dimethylphthalate	95 U
208-96-8	**Acenaphthylene**	**120**
99-09-2	3-Nitroaniline	570 U
83-32-9	**Acenaphthene**	**2,400**
51-28-5	2,4-Dinitrophenol	950 UJ
100-02-7	4-Nitrophenol	470 U
132-64-9	**Dibenzofuran**	**160**
606-20-2	2,6-Dinitrotoluene	470 U

FORM-1

JMB 1/22/98

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914AK
LIMS ID: 97-17623
Matrix: Sediment
Data Release Authorized: BMB
Reported: 11/13/97

Sample No: 9738 4947
DILUTION

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/21/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 11/07/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:5
Percent Moisture: 38.1%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	470 U
84-66-2	Diethylphthalate	95 U
7005-72-3	4-Chlorophenyl-phenylether	95 U
86-73-7	**Fluorene**	**1,200**
100-01-6	4-Nitroaniline	470 U
534-52-1	4,6-Dinitro-2-Methylphenol	950 U
86-30-6	N-Nitrosodiphenylamine	95 U
101-55-3	4-Bromophenyl-phenylether	95 U
118-74-1	Hexachlorobenzene	95 U
87-86-5	Pentachlorophenol	470 U
85-01-8	**Phenanthrene**	**2,000**
86-74-8	**Carbazole**	**180**
120-12-7	**Anthracene**	**370**
84-74-2	Di-n-Butylphthalate	95 U
206-44-0	**Fluoranthene**	**1,700**
129-00-0	**Pyrene**	**2,500**
85-68-7	Butylbenzylphthalate	95 U
91-94-1	3,3'-Dichlorobenzidine	470 U
56-55-3	**Benzo(a)anthracene**	**700**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**190** U
218-01-9	**Chrysene**	**970**
117-84-0	Di-n-Octyl phthalate	95 U
205-99-2	**Benzo(b)fluoranthene**	**650**
207-08-9	**Benzo(k)fluoranthene**	**560**
50-32-8	**Benzo(a)pyrene**	**750**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**440**
53-70-3	**Dibenz(a,h)anthracene**	**140**
191-24-2	**Benzo(g,h,i)perylene**	**560**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	57.2%	d5-Phenol	61.9%
2-Fluorobiphenyl	63.4%	2-Fluorophenol	63.2%
d14-p-Terphenyl	83.4%	2,4,6-Tribromophenol	78.3%
d4-1,2-Dichlorobenzene	50.6%	d4-2-Chlorophenol	54.1%

FORM-1

JMB 1/22/98

~~002908~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4947
DILUTION

Lab Sample ID: T914AK
LIMS ID: 97-17623
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/21/97
Date Received: 09/24/97

Data Release Authorized: AWB
Reported: 11/13/97

Date Analyzed: 11/07/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	90-12-0	Naphthalene,_1-methyl-___	12.26	SVOA	500 JN
2.	---	Unknown_Aromatic_____	13.19	SVOA	350 JN
3.	---	Naphthalene,_Dimethyl_Iso	13.48	SVOA	320 J
4.	---	Naphthalene,_Trimethyl_Is	14.64	SVOA	350 J
5.	---	Unknown_Organic_Acid_____	18.34	SVOA	1,200 J
6.	---	Unknown_C16.H10_PNA_____	19.71	SVOA	590 J
7.	---	Unknown_Aromatic_____	20.63	SVOA	520 J
8.	---	Unknown_____	21.53	SVOA	540 J
9.	---	Unknown_____	21.93	SVOA	2,800 J
10.	---	Unknown_____	22.09	SVOA	990 J
11.	---	Unknown_____	22.27	SVOA	1,400 J
12.	---	Unknown_Sterol_type_____	25.93	SVOA	480 J
13.	---	Unknown_____	27.52	SVOA	5,600 J
14.	---	Unknown_____	27.65	SVOA	4,000 J
15.	---	Unknown_____	27.84	SVOA	1,800 J
16.	---	Unknown_____	28.00	SVOA	6,800 J
17.	---	Unknown_____	28.19	SVOA	480 J
18.	---	Unknown_____	28.27	SVOA	2,500 J
19.	---	Unknown_____	28.35	SVOA	1,500 J
20.	---	Unknown_Sterol_type_____	28.46	SVOA	1,500 J

FORM-1-B

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~~002909~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914AL
LIMS ID: 97-17624
Matrix: Sediment
Data Release Authorized: CWS
Reported: 11/13/97

Sample No: 9738 4950
WR-SD-SD078-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/21/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/29/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 30.4%
pH: 7.4

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	**1,2-Dichlorobenzene**	**22**
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U
106-44-5	**4-Methylphenol**	**48**
621-64-7	N-Nitroso-Di-N-Propylamine	38 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	96 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	57 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**55**
106-47-8	4-Chloroaniline	57 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	**2-Methylnaphthalene**	**24**
77-47-4	Hexachlorocyclopentadiene	96 U J
88-06-2	2,4,6-Trichlorophenol	96 U
95-95-4	2,4,5-Trichlorophenol	96 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	96 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	110 U
83-32-9	**Acenaphthene**	**46**
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	96 U
132-64-9	**Dibenzofuran**	**20**
606-20-2	2,6-Dinitrotoluene	96 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914AL
LIMS ID: 97-17624
Matrix: Sediment
Data Release Authorized:
Reported: 11/13/97

Sample No: 9738 4950
WR-SD-SD078-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/21/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/29/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 30.4%
pH: 7.4

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	96 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**34**
100-01-6	4-Nitroaniline	96 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	96 U J
85-01-8	**Phenanthrene**	**230**
86-74-8	**Carbazole**	**40 J**
120-12-7	**Anthracene**	**60**
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**440**
129-00-0	**Pyrene**	**580**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	96 U
56-55-3	**Benzo(a)anthracene**	**240**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**210 B**
218-01-9	**Chrysene**	**340**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**300**
207-08-9	**Benzo(k)fluoranthene**	**310**
50-32-8	**Benzo(a)pyrene**	**360**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**190**
53-70-3	**Dibenz(a,h)anthracene**	**74**
191-24-2	**Benzo(g,h,i)perylene**	**200**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	57.4%	d5-Phenol	56.5%
2-Fluorobiphenyl	56.2%	2-Fluorophenol	60.5%
d14-p-Terphenyl	78.4%	2,4,6-Tribromophenol	67.3%
d4-1,2-Dichlorobenzene	47.8%	d4-2-Chlorophenol	56.7%

FORM-1

JMB 1/22/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4950
WR-SD- SD078-0000

Lab Sample ID: T914AL
LIMS ID: 97-17624
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/21/97
Date Received: 09/24/97

Data Release Authorized: BNB
Reported: 11/13/97

Date Analyzed: 10/29/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid	17.65	SVOA	140 JN
2.	--	Unknown_Aromatic	18.67	SVOA	160 JN
3.	--	Unknown_Organic_Acid	18.75	SVOA	240 JN
4.	--	Unknown	19.17	SVOA	180 JN
5.	--	Unknown_Acid_Ester	20.36	SVOA	240 JN
6.	--	Unknown_Aromatic	20.96	SVOA	200 JN
7.	--	Unknown_Chloro_Aro	21.31	SVOA	340 JN
8.	50-29-3	Chlorophenothane	21.88	SVOA	220 JN
9.	--	Unknown	22.27	SVOA	290 JN
10.	--	Unknown_Aldehyde	24.66	SVOA	200 JN
11.	--	Unknown_Sterol_type	27.63	SVOA	620 JN
12.	--	Unknown_Aromatic	27.78	SVOA	300 JN
13.	--	Unknown	27.97	SVOA	390 JN
14.	--	Unknown_Sterol_type	28.08	SVOA	980 JN
15.	--	Unknown_Aromatic	28.23	SVOA	240 JN
16.	--	Unknown_Aromatic	28.30	SVOA	240 JN
17.	--	Unknown	28.40	SVOA	260 JN
18.	--	Unknown	28.51	SVOA	310 JN
19.	--	Unknown_Sterol_type	28.56	SVOA	380 JN
20.	--	Unknown	28.76	SVOA	320 JN

FORM-1-B

JMB 12/22/97

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914AM
LIMS ID: 97-17625
Matrix: Sediment
Data Release Authorized: ap
Reported: 11/13/97

Sample No: 9738 4952
WR-SD-SD079-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/21/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/29/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 22.8%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	40 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U J
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U
106-44-5	4-Methylphenol	20 U
621-64-7	N-Nitroso-Di-N-Propylamine	40 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	100 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	60 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**92**
106-47-8	4-Chloroaniline	60 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	40 U
91-57-6	**2-Methylnaphthalene**	**44**
77-47-4	Hexachlorocyclopentadiene	100 U J
88-06-2	2,4,6-Trichlorophenol	100 U
95-95-4	2,4,5-Trichlorophenol	100 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	100 U
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**36**
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	100 U
132-64-9	**Dibenzofuran**	**42**
606-20-2	2,6-Dinitrotoluene	100 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914AM
LIMS ID: 97-17625
Matrix: Sediment
Data Release Authorized: AWP
Reported: 11/13/97

Sample No: 9738 4952
WR-SD-SD079-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/21/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/29/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 22.8%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	100 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	**Fluorene**	**37**
100-01-6	4-Nitroaniline	100 U
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	100 U J
85-01-8	**Phenanthrene**	**160**
86-74-8	**Carbazole**	**21 J**
120-12-7	**Anthracene**	**76**
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**280**
129-00-0	**Pyrene**	**350**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	100 U
56-55-3	**Benzo(a)anthracene**	**120**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**96 ~~B~~ U**
218-01-9	**Chrysene**	**220**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**160**
207-08-9	**Benzo(k)fluoranthene**	**160**
50-32-8	**Benzo(a)pyrene**	**140**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**62**
53-70-3	**Dibenz(a,h)anthracene**	**24**
191-24-2	**Benzo(g,h,i)perylene**	**58**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	52.8%	d5-Phenol	46.6%
2-Fluorobiphenyl	45.5%	2-Fluorophenol	48.5%
d14-p-Terphenyl	83.6%	2,4,6-Tribromophenol	58.3%
d4-1,2-Dichlorobenzene	44.6%	d4-2-Chlorophenol	45.9%

FORM-1

~~003013~~ JMB 1/22/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4952
WR-SD-SD079-0000

Lab Sample ID: T914AM
LIMS ID: 97-17625
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/21/97
Date Received: 09/24/97

Data Release Authorized: QWB
Reported: 11/13/97

Date Analyzed: 10/29/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	79-34-5	Ethane,_1,1,2,2-tetrachlo	7.00	SVOA	61 ~~JNB~~ R
2.	--	Unknown_____	7.09	SVOA	67 JN
3.	--	Unknown_____	7.95	SVOA	120 JN
4.	--	Unknown_Ketone_____	9.96	SVOA	230 JN
5.	--	Unknown_Hydrocarbon_____	14.07	SVOA	74 JN
6.	--	Unknown_Cycloalkane_____	14.23	SVOA	72 JN
7.	--	Unknown_____	18.43	SVOA	50 JN
8.	--	Unknown_Aromatic_____	18.67	SVOA	54 JN
9.	--	Unknown_____	18.91	SVOA	56 JN
10.	--	Unknown_Hydrocarbon_____	18.98	SVOA	42 JN
11.	--	Unknown_____	19.12	SVOA	43 JN
12.	19407-28-4	Phenanthrene,_1,2,3,4,4a,	19.71	SVOA	81 JN
13.	--	Unknown_Aromatic_____	20.03	SVOA	52 JN
14.	--	Unknown_Aromatic_____	20.96	SVOA	170 JN
15.	--	Unknown_Aldehyde_____	24.66	SVOA	61 JN
16.	--	Unknown_Sterol_type_____	26.53	SVOA	120 JN
17.	--	Unknown_____	27.96	SVOA	97 JN
18.	--	Unknown_____	28.05	SVOA	250 JN
19.	--	Unknown_Aldehyde_____	28.22	SVOA	99 JN
20.	--	Unknown_Sterol_type_____	28.50	SVOA	200 JN

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FORM-1-B

~~003014~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914AN
LIMS ID: 97-17626
Matrix: Sediment
Data Release Authorized:
Reported: 11/13/97

Sample No: 9738 4954
WR-SD-SD086-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/21/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/31/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 48.0%
pH: 7.0

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U J
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	**4-Methylphenol**	**420**
621-64-7	N-Nitroso-Di-N-Propylamine	38 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	96 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	Naphthalene	19 U
106-47-8	4-Chloroaniline	58 U J
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	96 U J
88-06-2	2,4,6-Trichlorophenol	96 U
95-95-4	2,4,5-Trichlorophenol	96 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	96 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U J
83-32-9	Acenaphthene	19 U
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	96 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	96 U

FORM-1

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~~003063~~

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914AN
LIMS ID: 97-17626
Matrix: Sediment
Data Release Authorized: [illegible]
Reported: 11/13/97

Sample No: 9738 4954 WR-SD-SD086-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/21/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/31/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 48.0%
pH: 7.0

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	96 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	Fluorene	19 U
100-01-6	4-Nitroaniline	96 U J
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U J
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	96 U J
85-01-8	**Phenanthrene**	**26**
86-74-8	Carbazole	19 U J
120-12-7	Anthracene	19 U
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**56**
129-00-0	**Pyrene**	**44**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	96 U J
56-55-3	**Benzo(a)anthracene**	**20**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**120** ~~B~~ U
218-01-9	**Chrysene**	**35**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**33**
207-08-9	**Benzo(k)fluoranthene**	**22**
50-32-8	**Benzo(a)pyrene**	**22**
193-39-5	Indeno(1,2,3-cd)pyrene	19 U
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	Benzo(g,h,i)perylene	19 U

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	33.8%	d5-Phenol	35.2%
2-Fluorobiphenyl	35.6%	2-Fluorophenol	37.6%
d14-p-Terphenyl	39.8%	2,4,6-Tribromophenol	47.5%
d4-1,2-Dichlorobenzene	18.3%	d4-2-Chlorophenol	34.1%

FORM-1

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~~003064~~

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4954
WR-SD-SD086-0000

Lab Sample ID: T914AN
LIMS ID: 97-17626
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/21/97
Date Received: 09/24/97

Data Release Authorized: SVB
Reported: 11/13/97

Date Analyzed: 10/31/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid_____	7.11	SVOA	230 J N
2.	--	Unknown_Organic_Acid_____	12.32	SVOA	440 J N
3.	--	Unknown_Organic_Acid_____	17.42	SVOA	110 J N
4.	--	Unknown_Organic_Acid_____	18.07	SVOA	130 J N
5.	--	Unknown_Organic_Acid_____	19.18	SVOA	110 J N
6.	--	Unknown_Aromatic_____	21.35	SVOA	400 J N
7.	--	Unknown_Aromatic_____	24.11	SVOA	250 J N
8.	--	Unknown_____	26.35	SVOA	170 J N
9.	--	Unknown_____	26.52	SVOA	140 J N
10.	--	Unknown_____	26.77	SVOA	180 J N
11.	--	Unknown_Sterol_type_____	26.91	SVOA	160 J N
12.	--	Unknown_Sterol_type_____	26.97	SVOA	150 J N
13.	--	Unknown_Sterol_type_____	27.64	SVOA	120 J N
14.	--	Unknown_Sterol_type_____	28.01	SVOA	740 J N
15.	--	Unknown_____	28.15	SVOA	280 J N
16.	--	Unknown_____	28.32	SVOA	410 J N
17.	--	Unknown_Sterol_type_____	28.43	SVOA	550 J N
18.	--	Unknown_____	28.58	SVOA	300 J N
19.	--	Unknown_____	28.75	SVOA	120 J N
20.	--	Unknown_Sterol_type_____	28.86	SVOA	240 J N

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914AO
LIMS ID: 97-17627
Matrix: Sediment
Data Release Authorized:
Reported: 11/13/97

Sample No: 9738 4956
WR-SD-SD082-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/21/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/31/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 45.5%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U J
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	**4-Methylphenol**	**300**
621-64-7	N-Nitroso-Di-N-Propylamine	38 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	96 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**21**
106-47-8	4-Chloroaniline	58 U J
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	96 U J
88-06-2	2,4,6-Trichlorophenol	96 U
95-95-4	2,4,5-Trichlorophenol	96 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	96 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U J
83-32-9	Acenaphthene	19 U
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	96 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	96 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914AO
LIMS ID: 97-17627
Matrix: Sediment
Data Release Authorized: [illegible]
Reported: 11/13/97

Sample No: 9738 4956
WR-SD-SD082-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/21/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/31/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 45.5%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	96 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	Fluorene	19 U
100-01-6	4-Nitroaniline	96 U J
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U J
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	96 U J
85-01-8	**Phenanthrene**	**41**
86-74-8	Carbazole	19 U J
120-12-7	Anthracene	19 U
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**56**
129-00-0	**Pyrene**	**41**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	96 U J
56-55-3	Benzo(a)anthracene	19 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**98 ~~B~~ U**
218-01-9	**Chrysene**	**26**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**23**
207-08-9	Benzo(k)fluoranthene	19 U
50-32-8	Benzo(a)pyrene	19 U
193-39-5	Indeno(1,2,3-cd)pyrene	19 U
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	Benzo(g,h,i)perylene	19 U

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	40.3%	d5-Phenol	39.4%
2-Fluorobiphenyl	41.3%	2-Fluorophenol	42.4%
d14-p-Terphenyl	41.6%	2,4,6-Tribromophenol	51.2%
d4-1,2-Dichlorobenzene	34.0%	d4-2-Chlorophenol	38.2%

FORM-1

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4956
WR-SD-SD082-0000

Lab Sample ID: T914AO
LIMS ID: 97-17627
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/21/97
Date Received: 09/24/97

Data Release Authorized: BNB
Reported: 11/13/97

Date Analyzed: 10/31/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid	7.08	SVOA	330 J N
2.	--	Unknown_Organic_Acid	12.30	SVOA	350 J N
3.	--	Unknown_Cycloalkane	14.63	SVOA	100 J N
4.	--	Unknown_Organic_Acid	17.41	SVOA	90 J N
5.	--	Unknown_Organic_Acid	18.07	SVOA	96 J N
6.	--	Unknown_Alcohol	18.44	SVOA	100 J N
7.	--	Unknown_Organic_Acid	19.16	SVOA	91 J N
8.	--	Unknown_Aromatic	20.42	SVOA	67 J N
9.	--	Unknown_Aromatic	21.35	SVOA	360 J N
10.	--	Unknown_Aromatic	24.11	SVOA	270 J N
11.	--	Unknown_Sterol_type	26.91	SVOA	140 J N
12.	--	Unknown_Sterol_type	26.97	SVOA	160 J N
13.	--	Unknown_Sterol_type	27.63	SVOA	120 J N
14.	--	Unknown_Sterol_type	28.01	SVOA	750 J N
15.	--	Unknown_Aromatic	28.15	SVOA	300 J N
16.	--	Unknown	28.32	SVOA	440 J N
17.	--	Unknown_Aldehyde	28.43	SVOA	620 J N
18.	--	Unknown	28.58	SVOA	320 J N
19.	--	Unknown	28.75	SVOA	120 J N
20.	--	Unknown_Sterol_type	28.85	SVOA	240 J N

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FORM-1-B

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914AP
LIMS ID: 97-17628
Matrix: Sediment
Data Release Authorized:
Reported: 11/13/97

Sample No: 9738 4958
WR-SD- SD089-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/21/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/31/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 42.7%
pH: 7.5

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U J
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	**4-Methylphenol**	**300**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	97 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**23**
106-47-8	4-Chloroaniline	58 U J
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	97 U J
88-06-2	2,4,6-Trichlorophenol	97 U
95-95-4	2,4,5-Trichlorophenol	97 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	97 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U J
83-32-9	Acenaphthene	19 U
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	97 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	97 U

FORM-1

~~003145~~ JMB 1/22/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914AP
LIMS ID: 97-17628
Matrix: Sediment
Data Release Authorized: AWB
Reported: 11/13/97

Sample No: 9738 4958
WR-SD-SD089-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/21/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/31/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 42.7%
pH: 7.5

CAS Number	Analyte	ug/kg	
121-14-2	2,4-Dinitrotoluene	97 U	
84-66-2	Diethylphthalate	19 U	
7005-72-3	4-Chlorophenyl-phenylether	19 U	
86-73-7	Fluorene	19 U	
100-01-6	4-Nitroaniline	97 U	J
534-52-1	4,6-Dinitro-2-Methylphenol	190 U	
86-30-6	N-Nitrosodiphenylamine	19 U	J
101-55-3	4-Bromophenyl-phenylether	19 U	
118-74-1	Hexachlorobenzene	19 U	
87-86-5	Pentachlorophenol	97 U	J
85-01-8	**Phenanthrene**	**26**	
86-74-8	Carbazole	19 U	J
120-12-7	Anthracene	19 U	
84-74-2	Di-n-Butylphthalate	19 U	
206-44-0	**Fluoranthene**	**36**	
129-00-0	**Pyrene**	**32**	
85-68-7	Butylbenzylphthalate	19 U	
91-94-1	3,3'-Dichlorobenzidine	97 U	J
56-55-3	Benzo(a)anthracene	19 U	
117-81-7	**bis(2-Ethylhexyl)phthalate**	**110** ~~B~~ U	
218-01-9	**Chrysene**	**21**	
117-84-0	Di-n-Octyl phthalate	19 U	
205-99-2	Benzo(b)fluoranthene	19 U	
207-08-9	Benzo(k)fluoranthene	19 U	
50-32-8	Benzo(a)pyrene	19 U	
193-39-5	Indeno(1,2,3-cd)pyrene	19 U	
53-70-3	Dibenz(a,h)anthracene	19 U	
191-24-2	Benzo(g,h,i)perylene	19 U	

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	38.2%	d5-Phenol	39.0%
2-Fluorobiphenyl	39.7%	2-Fluorophenol	41.4%
d14-p-Terphenyl	42.0%	2,4,6-Tribromophenol	52.5%
d4-1,2-Dichlorobenzene	30.9%	d4-2-Chlorophenol	37.7%

FORM-1

JMB 1/22/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4958
WR-SD-SD089-0000

Lab Sample ID: T914AP
LIMS ID: 97-17628
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/21/97
Date Received: 09/24/97

Data Release Authorized: BNB
Reported: 11/13/97

Date Analyzed: 10/31/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid_____	7.06	SVOA	110 JN
2.	--	Unknown_Organic_Acid_____	7.33	SVOA	86 JN
3.	--	Unknown_Organic_Acid_____	12.30	SVOA	340 JN
4.	--	Unknown_Organic_Acid_____	18.07	SVOA	99 JN
5.	--	Unknown_Alcohol_____	18.44	SVOA	97 JN
6.	--	Unknown_Aromatic_____	21.35	SVOA	300 JN
7.	--	Unknown_Aromatic_____	24.11	SVOA	270 JN
8.	--	Unknown_Aldehyde_____	25.06	SVOA	300 JN
9.	--	Unknown_Sterol_type_____	26.69	SVOA	260 JN
10.	--	Unknown_Sterol_type_____	26.91	SVOA	400 JN
11.	--	Unknown_Sterol_type_____	26.97	SVOA	240 JN
12.	--	Unknown_Sterol_type_____	27.20	SVOA	210 JN
13.	--	Unknown_Sterol_type_____	27.64	SVOA	230 JN
14.	--	Unknown_Sterol_type_____	28.01	SVOA	1,200 JN
15.	--	Unknown_Aromatic_____	28.15	SVOA	450 JN
16.	--	Unknown_____	28.33	SVOA	680 JN
17.	--	Unknown_____	28.43	SVOA	940 JN
18.	--	Unknown_____	28.58	SVOA	490 JN
19.	--	Unknown_____	28.75	SVOA	170 JN
20.	--	Unknown_Sterol_type_____	28.85	SVOA	410 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914AQ
LIMS ID: 97-17629
Matrix: Sediment
Data Release Authorized: GWB
Reported: 11/13/97

Sample No: 9738 4960
WR-SD-SD091-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/21/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/31/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 42.6%
pH: 7.2

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U J
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	**4-Methylphenol**	**320**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	96 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	Naphthalene	19 U
106-47-8	4-Chloroaniline	58 U J
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	96 U J
88-06-2	2,4,6-Trichlorophenol	96 U
95-95-4	2,4,5-Trichlorophenol	96 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	96 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U J
83-32-9	Acenaphthene	19 U
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	96 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	96 U

FORM-1

~~003184~~ JMB 1/22/9

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914AQ
LIMS ID: 97-17629
Matrix: Sediment
Data Release Authorized: QAP
Reported: 11/13/97

Sample No: 9738 4960 WR-SD-SD091-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/21/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/31/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 42.6%
pH: 7.2

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	96 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	Fluorene	19 U
100-01-6	4-Nitroaniline	96 U J
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U J
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	96 U J
85-01-8	Phenanthrene	19 U
86-74-8	Carbazole	19 U J
120-12-7	Anthracene	19 U
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**27**
129-00-0	**Pyrene**	**30**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	96 U J
56-55-3	Benzo(a)anthracene	19 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**100 ~~B~~ U**
218-01-9	**Chrysene**	**20**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	Benzo(b)fluoranthene	19 U
207-08-9	Benzo(k)fluoranthene	19 U
50-32-8	Benzo(a)pyrene	19 U
193-39-5	Indeno(1,2,3-cd)pyrene	19 U
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	Benzo(g,h,i)perylene	19 U

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	40.1%	d5-Phenol	46.1%
2-Fluorobiphenyl	38.5%	2-Fluorophenol	45.8%
d14-p-Terphenyl	49.5%	2,4,6-Tribromophenol	54.3%
d4-1,2-Dichlorobenzene	17.7%	d4-2-Chlorophenol	42.6%

FORM-1

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4960
WR-SD-SD091-0000

Lab Sample ID: T914AQ
LIMS ID: 97-17629
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/21/97
Date Received: 09/24/97

Data Release Authorized: BNB
Reported: 11/13/97

Date Analyzed: 10/31/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid	12.30	SVOA	300 J N
2.	--	Unknown_Cycloalkane	14.63	SVOA	600 J N
3.	--	Unknown	16.76	SVOA	200 J N
4.	--	Unknown_Organic_Acid	17.41	SVOA	110 J N
5.	--	Unknown_Organic_Acid	17.98	SVOA	100 J N
6.	--	Unknown	19.52	SVOA	610 J N
7.	--	Unknown_Aromatic	21.36	SVOA	330 J N
8.	--	Unknown_Aromatic	24.10	SVOA	260 J N
9.	--	Unknown_Aldehyde	25.06	SVOA	430 J N
10.	--	Unknown	25.42	SVOA	220 J N
11.	--	Unknown_Sterol_type	26.92	SVOA	330 J N
12.	--	Unknown_Sterol_type	26.97	SVOA	240 J N
13.	--	Unknown_Sterol_type	27.63	SVOA	220 J N
14.	--	Unknown_Sterol_type	28.01	SVOA	1,100 J N
15.	--	Unknown_Aromatic	28.15	SVOA	450 J N
16.	--	Unknown	28.32	SVOA	680 J N
17.	--	Unknown	28.43	SVOA	860 J N
18.	--	Unknown_Sterol_type	28.59	SVOA	440 J N
19.	--	Unknown	28.75	SVOA	180 J N
20.	--	Unknown_Sterol_type	28.86	SVOA	390 J N

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914AR
LIMS ID: 97-17630
Matrix: Sediment
Data Release Authorized: AW
Reported: 11/13/97

Sample No: 9738 4961 WR-SD-SD096-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/21/97
Date Received: 09/24/97

Date extracted: 11/07/97
Date analyzed: 11/10/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 40.0%
pH: 7.4

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U
106-44-5	**4-Methylphenol**	**280**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	98 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	Naphthalene	20 U
106-47-8	4-Chloroaniline	59 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	98 UJ
88-06-2	2,4,6-Trichlorophenol	98 U
95-95-4	2,4,5-Trichlorophenol	98 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	98 U
131-11-3	Dimethylphthalate	20 U
208-96-8	**Acenaphthylene**	**29**
99-09-2	3-Nitroaniline	120 U
83-32-9	Acenaphthene	20 U
51-28-5	2,4-Dinitrophenol	200 ~~U~~ R
100-02-7	4-Nitrophenol	98 U
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	98 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914AR
LIMS ID: 97-17630
Matrix: Sediment
Data Release Authorized: GMR
Reported: 11/13/97

Sample No: 9738 4961
WR-SD-SD096-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/21/97
Date Received: 09/24/97

Date extracted: 11/07/97
Date analyzed: 11/10/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 40.0%
pH: 7.4

CAS Number	Analyte	ug/kg	
121-14-2	2,4-Dinitrotoluene	98	U
84-66-2	Diethylphthalate	20	U
7005-72-3	4-Chlorophenyl-phenylether	20	U
86-73-7	Fluorene	20	U
100-01-6	4-Nitroaniline	98	U J
534-52-1	4,6-Dinitro-2-Methylphenol	200	U J
86-30-6	N-Nitrosodiphenylamine	20	U
101-55-3	4-Bromophenyl-phenylether	20	U
118-74-1	Hexachlorobenzene	20	U
87-86-5	Pentachlorophenol	98	U
85-01-8	**Phenanthrene**	**110**	
86-74-8	Carbazole	20	U
120-12-7	**Anthracene**	**24**	
84-74-2	Di-n-Butylphthalate	20	U
206-44-0	**Fluoranthene**	**550**	
129-00-0	**Pyrene**	**770**	
85-68-7	Butylbenzylphthalate	20	U
91-94-1	3,3'-Dichlorobenzidine	98	U
56-55-3	**Benzo(a)anthracene**	**240**	
117-81-7	**bis(2-Ethylhexyl)phthalate**	**86**	J
218-01-9	**Chrysene**	**280**	
117-84-0	Di-n-Octyl phthalate	20	U J
205-99-2	**Benzo(b)fluoranthene**	**240**	
207-08-9	**Benzo(k)fluoranthene**	**260**	
50-32-8	**Benzo(a)pyrene**	**400**	
193-39-5	**Indeno(1,2,3-cd)pyrene**	**300**	
53-70-3	**Dibenz(a,h)anthracene**	**72**	
191-24-2	**Benzo(g,h,i)perylene**	**380**	

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	42.6%	d5-Phenol	47.9%
2-Fluorobiphenyl	57.1%	2-Fluorophenol	41.1%
d14-p-Terphenyl	72.3%	2,4,6-Tribromophenol	87.0%
d4-1,2-Dichlorobenzene	33.2%	d4-2-Chlorophenol	40.6%

FORM-1

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~~003222~~

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4961
WR-SD-SD096-0000

Lab Sample ID: T914AR
LIMS ID: 97-17630
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/21/97
Date Received: 09/24/97

Data Release Authorized: ON/B
Reported: 11/13/97

Date Analyzed: 11/10/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid	6.42	SVOA	460 JN
2.	--	Unknown_Organic_Acid	11.48	SVOA	780 JN
3.	--	Unknown_Organic_Acid	18.21	SVOA	240 JN
4.	--	Unknown_Aromatic	18.34	SVOA	310 JN
5.	--	Unknown	19.07	SVOA	440 JN
6.	--	Unknown	19.71	SVOA	420 JN
7.	--	Unknown_Aromatic	20.63	SVOA	180 JN
8.	--	Unknown_Aromatic	23.40	SVOA	160 JN
9.	--	Unknown_C20.H12_PNA	24.90	SVOA	260 JN
10.	--	Unknown_Aldehyde	25.42	SVOA	200 JN
11.	--	Unknown_Sterol_type	26.23	SVOA	190 JN
12.	--	Unknown	26.96	SVOA	320 JN
13.	--	Unknown	27.05	SVOA	190 JN
14.	--	Unknown_Sterol_type	27.47	SVOA	560 JN
15.	--	Unknown	27.67	SVOA	300 JN
16.	--	Unknown	27.85	SVOA	220 JN
17.	--	Unknown	28.00	SVOA	490 JN
18.	--	Unknown	28.21	SVOA	220 JN
19.	--	Unknown	28.38	SVOA	500 JN
20.	--	Unknown_Sterol_type	28.49	SVOA	150 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914AS
LIMS ID: 97-17631
Matrix: Sediment
Data Release Authorized:
Reported: 11/13/97

Sample No: 9738 4963
WR-SD-SD095-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/21/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/31/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 43.3%
pH: 7.2

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U J
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U J
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U J
106-44-5	**4-Methylphenol**	**280**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	98 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	Naphthalene	20 U
106-47-8	4-Chloroaniline	59 U J
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	98 U J
88-06-2	2,4,6-Trichlorophenol	98 U
95-95-4	2,4,5-Trichlorophenol	98 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	98 U
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U J
83-32-9	Acenaphthene	20 U
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	98 U
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	98 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914AS
LIMS ID: 97-17631
Matrix: Sediment
Data Release Authorized: DRB
Reported: 11/13/97

Sample No: 9738 4963
WR-SD-SD095-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/21/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/31/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 43.3%
pH: 7.2

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	98 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	Fluorene	20 U
100-01-6	4-Nitroaniline	98 U J
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U J
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	98 U J
85-01-8	Phenanthrene	20 U
86-74-8	Carbazole	20 U J
120-12-7	Anthracene	20 U
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**28**
129-00-0	**Pyrene**	**28**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	98 U J
56-55-3	Benzo(a)anthracene	20 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**98 ~~B~~ U**
218-01-9	Chrysene	20 U
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	Benzo(b)fluoranthene	20 U
207-08-9	Benzo(k)fluoranthene	20 U
50-32-8	Benzo(a)pyrene	20 U
193-39-5	Indeno(1,2,3-cd)pyrene	20 U
53-70-3	Dibenz(a,h)anthracene	20 U
191-24-2	Benzo(g,h,i)perylene	20 U

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	43.0%	d5-Phenol	44.9%
2-Fluorobiphenyl	44.9%	2-Fluorophenol	47.5%
d14-p-Terphenyl	54.8%	2,4,6-Tribromophenol	56.2%
d4-1,2-Dichlorobenzene	37.6%	d4-2-Chlorophenol	43.3%

FORM-1

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4963
WR-SD-SD095-0000

Lab Sample ID: T914AS BKP
LIMS ID: 97-17631
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/21/97
Date Received: 09/24/97

Data Release Authorized:
Reported: 11/13/97

Date Analyzed: 10/31/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid	7.08	SVOA	340 J N
2.	--	Unknown_Organic_Acid	12.32	SVOA	440 J N
3.	--	Unknown	18.09	SVOA	160 J N
4.	--	Unknown_Alcohol	18.44	SVOA	130 J N
5.	--	Unknown	19.06	SVOA	160 J N
6.	--	Unknown	19.51	SVOA	110 J N
7.	--	Unknown_Aromatic	21.35	SVOA	290 J N
8.	--	Unknown_Aromatic	24.11	SVOA	460 J N
9.	--	Unknown_Aldehyde	25.06	SVOA	420 J N
10.	--	Unknown_Sterol_type	26.69	SVOA	350 J N
11.	--	Unknown_Sterol_type	26.91	SVOA	430 J N
12.	--	Unknown_Sterol_type	26.97	SVOA	250 J N
13.	--	Unknown_Sterol_type	27.20	SVOA	260 J N
14.	--	Unknown_Sterol_type	27.64	SVOA	250 J N
15.	--	Unknown_Sterol_type	28.01	SVOA	1,200 J N
16.	--	Unknown	28.15	SVOA	490 J N
17.	--	Unknown	28.34	SVOA	790 J N
18.	--	Unknown	28.43	SVOA	1,000 J N
19.	--	Unknown_Aldehyde	28.58	SVOA	510 J N
20.	--	Unknown_Sterol_type	28.86	SVOA	450 J N

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FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914AT
LIMS ID: 97-17632
Matrix: Sediment
Data Release Authorized: ONR
Reported: 11/13/97

Sample No: 9738 4964
WR-SD-SD094-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/21/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/31/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 41.6%
pH: 7.2

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U J
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	**4-Methylphenol**	**390**
621-64-7	N-Nitroso-Di-N-Propylamine	38 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	95 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	57 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	Naphthalene	19 U
106-47-8	4-Chloroaniline	57 U J
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	95 U J
88-06-2	2,4,6-Trichlorophenol	95 U
95-95-4	2,4,5-Trichlorophenol	95 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	95 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	110 U J
83-32-9	Acenaphthene	19 U
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	95 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	95 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914AT
LIMS ID: 97-17632
Matrix: Sediment
Data Release Authorized: ANB
Reported: 11/13/97

Sample No: 9738 4964
WR-SD-SD094-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/21/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/31/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 41.6%
pH: 7.2

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	95 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	Fluorene	19 U
100-01-6	4-Nitroaniline	95 U J
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U J
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	95 U J
85-01-8	Phenanthrene	19 U
86-74-8	Carbazole	19 U J
120-12-7	Anthracene	19 U
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**26**
129-00-0	**Pyrene**	**23**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	95 U J
56-55-3	Benzo(a)anthracene	19 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**120 ~~B~~ U**
218-01-9	Chrysene	19 U
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	Benzo(b)fluoranthene	19 U
207-08-9	Benzo(k)fluoranthene	19 U
50-32-8	Benzo(a)pyrene	19 U
193-39-5	Indeno(1,2,3-cd)pyrene	19 U
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	Benzo(g,h,i)perylene	19 U

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	37.7%	d5-Phenol	41.2%
2-Fluorobiphenyl	44.8%	2-Fluorophenol	42.1%
d14-p-Terphenyl	55.2%	2,4,6-Tribromophenol	64.9%
d4-1,2-Dichlorobenzene	31.2%	d4-2-Chlorophenol	38.2%

FORM-1

JMB 1/22/98
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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4964
WR-SD-SD094-0000

Lab Sample ID: T914AT
LIMS ID: 97-17632
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/21/97
Date Received: 09/24/97

Data Release Authorized: ORB
Reported: 11/13/97

Date Analyzed: 10/31/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid	7.08	SVOA	450 J N
2.	--	Unknown_Organic_Acid	12.34	SVOA	560 J N
3.	--	Unknown_Organic_Acid	18.08	SVOA	160 J N
4.	--	Unknown	19.05	SVOA	190 J N
5.	--	Unknown	19.51	SVOA	200 J N
6.	--	Unknown_Aromatic	21.35	SVOA	220 J N
7.	--	Unknown_Aromatic	24.10	SVOA	200 J N
8.	--	Unknown_Aldehyde	25.06	SVOA	490 J N
9.	--	Unknown_Aromatic	25.42	SVOA	240 J N
10.	--	Unknown_Sterol_type	26.69	SVOA	440 J N
11.	--	Unknown_Sterol_type	26.91	SVOA	590 J N
12.	--	Unknown_Sterol_type	27.20	SVOA	270 J N
13.	--	Unknown_Sterol_type	27.63	SVOA	300 J N
14.	--	Unknown_Sterol_type	28.01	SVOA	1,300 J N
15.	--	Unknown	28.15	SVOA	600 J N
16.	--	Unknown	28.32	SVOA	830 J N
17.	--	Unknown_Aromatic	28.43	SVOA	1,100 J N
18.	--	Unknown_Aldehyde	28.58	SVOA	470 J N
19.	--	Unknown_Aromatic	28.75	SVOA	230 J N
20.	--	Unknown_Sterol_type	28.85	SVOA	530 J N

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914AU
LIMS ID: 97-17633
Matrix: Sediment
Data Release Authorized: BNB
Reported: 11/13/97

Sample No: 9738 4965
WR-SD- SD099- 0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/21/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/31/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 48.7%
pH: 7.0

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U J
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	**4-Methylphenol**	**420**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	97 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	Naphthalene	19 U
106-47-8	4-Chloroaniline	58 U J
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	97 U J
88-06-2	2,4,6-Trichlorophenol	97 U
95-95-4	2,4,5-Trichlorophenol	97 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	97 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U J
83-32-9	Acenaphthene	19 U
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	97 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	97 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914AU
LIMS ID: 97-17633
Matrix: Sediment
Data Release Authorized: ANB
Reported: 11/13/97

Sample No: 9738 4965
WR-SD-SD099-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/21/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/31/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 48.7%
pH: 7.0

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	97 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	Fluorene	19 U
100-01-6	4-Nitroaniline	97 U J
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U J
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	97 U J
85-01-8	**Phenanthrene**	**73**
86-74-8	Carbazole	19 U J
120-12-7	Anthracene	19 U
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**160**
129-00-0	**Pyrene**	**130**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	97 U J
56-55-3	**Benzo(a)anthracene**	**42**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**110 ~~B~~ U**
218-01-9	**Chrysene**	**78**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**46**
207-08-9	**Benzo(k)fluoranthene**	**42**
50-32-8	**Benzo(a)pyrene**	**32**
193-39-5	Indeno(1,2,3-cd)pyrene	19 U
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	Benzo(g,h,i)perylene	19 U

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	39.1%	d5-Phenol	41.2%
2-Fluorobiphenyl	43.6%	2-Fluorophenol	41.6%
d14-p-Terphenyl	46.3%	2,4,6-Tribromophenol	52.3%
d4-1,2-Dichlorobenzene	32.5%	d4-2-Chlorophenol	39.0%

FORM-1

JMB 1/22/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4965
WR-SD-SD099-0000

Lab Sample ID: T914AU
LIMS ID: 97-17633
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/21/97
Date Received: 09/24/97

Data Release Authorized: EWB
Reported: 11/13/97

Date Analyzed: 10/31/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid_____	6.86	SVOA	230 JN
2.	--	Unknown_Organic_Acid_____	7.11	SVOA	520 JN
3.	--	Unknown_Organic_Acid_____	7.37	SVOA	130 JN
4.	--	Unknown_Organic_Acid_____	12.32	SVOA	480 JN
5.	--	Unknown_Organic_Acid_____	17.41	SVOA	140 JN
6.	--	Unknown_Organic_Acid_____	18.06	SVOA	150 JN
7.	--	Unknown_Aldehyde_____	18.27	SVOA	140 JN
8.	--	Unknown_Organic_Acid_____	19.16	SVOA	180 JN
9.	--	Unknown_____	19.51	SVOA	230 JN
10.	--	Unknown_Aromatic_____	21.35	SVOA	320 JN
11.	--	Unknown_Aromatic_____	24.09	SVOA	190 JN
12.	--	Unknown_Sterol_type_____	26.91	SVOA	220 JN
13.	--	Unknown_Sterol_type_____	26.97	SVOA	190 JN
14.	--	Unknown_Sterol_type_____	27.63	SVOA	170 JN
15.	--	Unknown_____	28.14	SVOA	1,000 JN
16.	--	Unknown_____	28.31	SVOA	620 JN
17.	--	Unknown_Aldehyde_____	28.42	SVOA	800 JN
18.	--	Unknown_Sterol_type_____	28.58	SVOA	370 JN
19.	--	Unknown_____	28.73	SVOA	170 JN
20.	--	Unknown_Sterol_type_____	28.84	SVOA	290 JN

FORM-1-B

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12/22/97

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914AV
LIMS ID: 97-17634
Matrix: Sediment
Data Release Authorized: AWB
Reported: 11/13/97

Sample No: 9738 4966
WR-SD-SD098-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/21/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/31/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 42.8%
pH: 7.2

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U J
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	**4-Methylphenol**	**380**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	97 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	Naphthalene	19 U
106-47-8	4-Chloroaniline	58 U J
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	97 U J
88-06-2	2,4,6-Trichlorophenol	97 U
95-95-4	2,4,5-Trichlorophenol	97 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	97 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U J
83-32-9	Acenaphthene	19 U
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	97 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	97 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914AV
LIMS ID: 97-17634
Matrix: Sediment
Data Release Authorized: BNB
Reported: 11/13/97

Sample No: 9738 4966
WR-SD-SD098-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/21/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/31/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 42.8%
pH: 7.2

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	97 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	Fluorene	19 U
100-01-6	4-Nitroaniline	97 U J
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U J
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	97 U J
85-01-8	**Phenanthrene**	**21**
86-74-8	Carbazole	19 U J
120-12-7	Anthracene	19 U
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**35**
129-00-0	**Pyrene**	**30**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	97 U J
56-55-3	Benzo(a)anthracene	19 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**130 ~~B~~ U**
218-01-9	**Chrysene**	**23**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**20**
207-08-9	Benzo(k)fluoranthene	19 U
50-32-8	Benzo(a)pyrene	19 U
193-39-5	Indeno(1,2,3-cd)pyrene	19 U
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	Benzo(g,h,i)perylene	19 U

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	51.4%	d5-Phenol	55.5%
2-Fluorobiphenyl	56.3%	2-Fluorophenol	56.4%
d14-p-Terphenyl	58.0%	2,4,6-Tribromophenol	71.6%
d4-1,2-Dichlorobenzene	36.9%	d4-2-Chlorophenol	52.4%

FORM-1

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4966
WR-SD-SD098-0000

Lab Sample ID: T914AV
LIMS ID: 97-17634
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/21/97
Date Received: 09/24/97

Data Release Authorized: QMB
Reported: 11/13/97

Date Analyzed: 10/31/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid_____	12.31	SVOA	400 J N
2.	--	Unknown_Organic_Acid_____	17.42	SVOA	110 J N
3.	--	Unknown_____	18.08	SVOA	170 J N
4.	--	Unknown_Organic_Acid_____	19.04	SVOA	190 J N
5.	--	Unknown_Organic_Acid_____	19.19	SVOA	170 J N
6.	--	Unknown_____	19.50	SVOA	150 J N
7.	--	Unknown_Aromatic_____	21.35	SVOA	310 J N
8.	--	Unknown_Aromatic_____	24.11	SVOA	260 J N
9.	--	Unknown_Sterol_type_____	26.70	SVOA	330 J N
10.	--	Unknown_Sterol_type_____	26.93	SVOA	720 J N
11.	--	Unknown_Sterol_type_____	27.20	SVOA	300 J N
12.	--	Unknown_Sterol_type_____	27.64	SVOA	390 J N
13.	--	Unknown_____	27.76	SVOA	230 J N
14.	--	Unknown_Sterol_type_____	28.02	SVOA	1,800 J N
15.	--	Unknown_____	28.16	SVOA	570 J N
16.	--	Unknown_____	28.34	SVOA	1,000 J N
17.	--	Unknown_Sterol_type_____	28.44	SVOA	1,400 J N
18.	--	Unknown_Sterol_type_____	28.59	SVOA	610 J N
19.	--	Unknown_Aromatic_____	28.75	SVOA	270 J N
20.	--	Unknown_Sterol_type_____	28.87	SVOA	610 J N

FORM-1-B

JMB 12/22/97

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T914AW
LIMS ID: 97-17635
Matrix: Sediment
Data Release Authorized: CWA
Reported: 11/13/97

Sample No: 9738 4967
WR-SD-SD103-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/21/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/31/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 49.6%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	40 U J
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U J
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U J
106-44-5	**4-Methylphenol**	**680**
621-64-7	N-Nitroso-Di-N-Propylamine	40 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	99 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	Naphthalene	20 U
106-47-8	4-Chloroaniline	59 U J
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	40 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	99 U J
88-06-2	2,4,6-Trichlorophenol	99 U
95-95-4	2,4,5-Trichlorophenol	99 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	99 U
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U J
83-32-9	**Acenaphthene**	**23**
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	99 U
132-64-9	**Dibenzofuran**	**24**
606-20-2	2,6-Dinitrotoluene	99 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T914AW
LIMS ID: 97-17635
Matrix: Sediment
Data Release Authorized: EWB
Reported: 11/13/97

Sample No: 9738 4967
WR-SD-SD103-0000
QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/21/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/31/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 49.6%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	99 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	**Fluorene**	**35**
100-01-6	4-Nitroaniline	99 U J
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U J
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	99 U J
85-01-8	**Phenanthrene**	**310**
86-74-8	**Carbazole**	**54** J
120-12-7	**Anthracene**	**45**
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**590**
129-00-0	**Pyrene**	**440**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	99 U J
56-55-3	**Benzo(a)anthracene**	**120**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**180** ~~J~~ U
218-01-9	**Chrysene**	**210**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**100**
207-08-9	**Benzo(k)fluoranthene**	**100**
50-32-8	**Benzo(a)pyrene**	**82**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**42**
53-70-3	**Dibenz(a,h)anthracene**	**21**
191-24-2	**Benzo(g,h,i)perylene**	**43**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	54.7%	d5-Phenol	54.6%
2-Fluorobiphenyl	54.6%	2-Fluorophenol	57.8%
d14-p-Terphenyl	61.0%	2,4,6-Tribromophenol	64.0%
d4-1,2-Dichlorobenzene	45.6%	d4-2-Chlorophenol	53.2%

FORM-1

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4967
WR-SD-SD103-0000

Lab Sample ID: T914AW
LIMS ID: 97-17635
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/21/97
Date Received: 09/24/97

Data Release Authorized: BKB
Reported: 11/13/97

Date Analyzed: 10/31/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid	7.30	SVOA	670 JN
2.	--	Unknown_Organic_Acid	7.53	SVOA	190 JN
3.	--	Unknown_Organic_Acid	12.38	SVOA	820 JN
4.	--	Unknown_Organic_Acid	17.08	SVOA	70 JN
5.	--	Unknown_Organic_Acid	17.44	SVOA	160 JN
6.	--	Unknown	19.05	SVOA	220 JN
7.	--	Unknown_Organic_Acid	19.21	SVOA	130 JN
8.	--	Unknown	19.51	SVOA	100 JN
9.	--	Unknown	20.01	SVOA	84 JN
10.	--	Unknown_Aromatic	21.36	SVOA	600 JN
11.	--	Unknown_Aromatic	24.11	SVOA	300 JN
12.	--	Unknown_Sterol_type	26.93	SVOA	610 JN
13.	--	Unknown	27.20	SVOA	340 JN
14.	--	Unknown_Sterol_type	27.64	SVOA	370 JN
15.	--	Unknown	28.15	SVOA	360 JN
16.	--	Unknown	28.33	SVOA	890 JN
17.	--	Unknown	28.43	SVOA	1,200 JN
18.	--	Unknown	28.59	SVOA	600 JN
19.	--	Unknown_Aromatic	28.75	SVOA	270 JN
20.	--	Unknown_Sterol_type	28.85	SVOA	550 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T923A
LIMS ID: 97-17682
Matrix: Sediment
Data Release Authorized: mm
Reported: 10/16/97

Sample No: 97384909
WR-SD-SD045-0000
QC Report No: T923-Roy F. Weston
Project: PSR
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/02/97
Date analyzed: 10/10/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 38.0%
pH: 7.7

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U
106-44-5	4-Methylphenol	19 U
621-64-7	N-Nitroso-Di-N-Propylamine	38 U J
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	95 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U J
120-83-2	2,4-Dichlorophenol	57 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**50**
106-47-8	4-Chloroaniline	57 U J
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	**2-Methylnaphthalene**	**29**
77-47-4	Hexachlorocyclopentadiene	95 U J
88-06-2	2,4,6-Trichlorophenol	95 U
95-95-4	2,4,5-Trichlorophenol	95 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	95 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	110 U J
83-32-9	**Acenaphthene**	**61**
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	95 U
132-64-9	**Dibenzofuran**	**31**
606-20-2	2,6-Dinitrotoluene	95 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T923A
LIMS ID: 97-17682
Matrix: Sediment
Data Release Authorized: MW
Reported: 10/16/97

Sample No: 97384909
WR-SD-SD045-0000
QC Report No: T923-Roy F. Weston
Project: PSR
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/02/97
Date analyzed: 10/10/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 38.0%
pH: 7.7

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	95 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**51**
100-01-6	4-Nitroaniline	95 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	95 U J
85-01-8	**Phenanthrene**	**260**
86-74-8	**Carbazole**	**21**
120-12-7	**Anthracene**	**49**
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**250**
129-00-0	**Pyrene**	**250**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	95 U J
56-55-3	**Benzo(a)anthracene**	**82**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**170**
218-01-9	**Chrysene**	**120**
117-84-0	Di-n-Octyl phthalate	19 U J
205-99-2	**Benzo(b)fluoranthene**	**100**
207-08-9	**Benzo(k)fluoranthene**	**87**
50-32-8	**Benzo(a)pyrene**	**56**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**41**
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	Benzo(g,h,i)perylene	19 U J

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	46.7%	d5-Phenol	47.3%
2-Fluorobiphenyl	52.0%	2-Fluorophenol	50.0%
d14-p-Terphenyl	73.5%	2,4,6-Tribromophenol	69.0%
d4-1,2-Dichlorobenzene	44.0%	d4-2-Chlorophenol	49.5%

FORM-1

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 97384909
WR-SD-SD045-0000

Lab Sample ID: T923A
LIMS ID: 97-17682
Matrix: Sediment

QC Report No: T923-Roy F. Weston
Project: PSR

Date Sampled: 09/19/97
Date Received: 09/24/97

Data Release Authorized:
Reported: 10/16/97

Date Analyzed: 10/10/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Cycloalkane_____	13.87	SVOA	120 J N
2.	--	Unknown_Organic_Acid_____	18.37	SVOA	190 J N
3.	--	Unknown_____	18.81	SVOA	120 J N
4.	--	Unknown_____	19.62	SVOA	100 J N
5.	--	Unknown_Aromatic_____	19.71	SVOA	380 J N
6.	--	Unknown_Aromatic_____	20.65	SVOA	780 J N
7.	--	Unknown_Aldehyde_____	23.10	SVOA	750 J N
8.	--	Unknown_Aldehyde_____	24.31	SVOA	1,700 J N
9.	--	Unknown_Cycloalkane_____	24.68	SVOA	350 J N
10.	--	Unknown_Aldehyde_____	25.44	SVOA	1,000 J N
11.	--	Unknown_____	25.97	SVOA	300 J N
12.	--	Unknown_Sterol_type_____	26.24	SVOA	770 J N
13.	--	Unknown_Sterol_type_____	27.50	SVOA	1,600 J N
14.	--	Unknown_Aromatic_____	27.70	SVOA	1,200 J N
15.	--	Unknown_____	27.75	SVOA	720 J N
16.	--	Unknown_____	27.88	SVOA	1,300 J N
17.	--	Unknown_____	28.03	SVOA	1,500 J N
18.	--	Unknown_____	28.23	SVOA	690 J N
19.	--	Unknown_____	28.40	SVOA	360 J N
20.	--	Unknown_Sterol_type_____	28.52	SVOA	930 J N

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T923B
LIMS ID: 97-17683
Matrix: Sediment
Data Release Authorized:
Reported: 10/16/97

Sample No: 97384910
WR-SD-SD047-0000
QC Report No: T923-Roy F. Weston
Project: PSR
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/02/97
Date analyzed: 10/10/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 35.4%
pH: 7.7

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U
106-44-5	**4-Methylphenol**	**25**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U J
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	97 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U J
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**28**
106-47-8	4-Chloroaniline	58 U J
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	97 U J
88-06-2	2,4,6-Trichlorophenol	97 U
95-95-4	2,4,5-Trichlorophenol	97 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	97 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U J
83-32-9	**Acenaphthene**	**30**
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	97 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	97 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T923B
LIMS ID: 97-17683
Matrix: Sediment
Data Release Authorized: MW
Reported: 10/16/97

Sample No: 97384910
WR-SD-SD047-0000
QC Report No: T923-Roy F. Weston
Project: PSR
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/02/97
Date analyzed: 10/10/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 35.4%
pH: 7.7

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	97 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**25**
100-01-6	4-Nitroaniline	97 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	97 U J
85-01-8	**Phenanthrene**	**140**
86-74-8	Carbazole	19 U
120-12-7	**Anthracene**	**39**
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**200**
129-00-0	**Pyrene**	**260**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	97 U J
56-55-3	**Benzo(a)anthracene**	**79**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**250**
218-01-9	**Chrysene**	**120**
117-84-0	Di-n-Octyl phthalate	19 U J
205-99-2	**Benzo(b)fluoranthene**	**96**
207-08-9	**Benzo(k)fluoranthene**	**94**
50-32-8	**Benzo(a)pyrene**	**120**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**62**
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	Benzo(g,h,i)perylene	19 U J

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	49.0%	d5-Phenol	53.5%
2-Fluorobiphenyl	57.1%	2-Fluorophenol	52.9%
d14-p-Terphenyl	81.3%	2,4,6-Tribromophenol	73.8%
d4-1,2-Dichlorobenzene	43.7%	d4-2-Chlorophenol	52.6%

FORM-1

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 97384910
WR-SD- SD047-0000

Lab Sample ID: T923B
LIMS ID: 97-17683
Matrix: Sediment

QC Report No: T923-Roy F. Weston
Project: PSR

Date Sampled: 09/19/97
Date Received: 09/24/97

Data Release Authorized:
Reported: 10/16/97

Date Analyzed: 10/10/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown	14.47	SVOA	140 J N
2.	--	Unknown_Alcohol	17.67	SVOA	130 J N
3.	--	Unknown_Aromatic	18.35	SVOA	100 J N
4.	--	Unknown	18.81	SVOA	170 J N
5.	--	Unknown	19.25	SVOA	160 J N
6.	--	Unknown_Sterol_type	19.62	SVOA	100 J N
7.	--	Unknown_Aromatic	19.71	SVOA	440 J N
8.	--	Unknown_Aromatic	20.65	SVOA	560 J N
9.	--	Unknown	23.55	SVOA	710 J N
10.	--	Unknown_Aldehyde	24.31	SVOA	1,400 J N
11.	--	Unknown	24.70	SVOA	480 J N
12.	--	Unknown_Aldehyde	25.44	SVOA	810 J N
13.	--	Unknown_Sterol_type	25.97	SVOA	250 J N
14.	--	Unknown_Sterol_type	26.24	SVOA	570 J N
15.	--	Unknown_Sterol_type	27.50	SVOA	1,100 J N
16.	--	Unknown_Aromatic	27.69	SVOA	600 J N
17.	--	Unknown	27.88	SVOA	1,000 J N
18.	--	Unknown_Sterol_type	28.02	SVOA	1,200 J N
19.	--	Unknown_Sterol_type	28.23	SVOA	590 J N
20.	--	Unknown_Sterol_type	28.51	SVOA	720 J N

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T923C
LIMS ID: 97-17684
Matrix: Sediment
Data Release Authorized: MW
Reported: 10/16/97

Sample No: 97384911
WR-SD-SD046-0000
QC Report No: T923-Roy F. Weston
Project: PSR
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/02/97
Date analyzed: 10/15/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 39.9%
pH: 7.6

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U J
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U
106-44-5	4-Methylphenol	20 U
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	98 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**33**
106-47-8	4-Chloroaniline	59 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	98 U J
88-06-2	2,4,6-Trichlorophenol	98 U
95-95-4	2,4,5-Trichlorophenol	98 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	98 U
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**40**
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	98 U
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	98 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T923C
LIMS ID: 97-17684
Matrix: Sediment
Data Release Authorized:
Reported: 10/16/97

Sample No: 97384911
WR-SD-SD046-0000
QC Report No: T923-Roy F. Weston
Project: PSR
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/02/97
Date analyzed: 10/15/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 39.9%
pH: 7.6

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	98 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	**Fluorene**	**31**
100-01-6	4-Nitroaniline	98 U J
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	98 U J
85-01-8	**Phenanthrene**	**150**
86-74-8	Carbazole	20 U
120-12-7	**Anthracene**	**34**
84-74-2	Di-n-Butylphthalate	20 U J
206-44-0	**Fluoranthene**	**210**
129-00-0	**Pyrene**	**190**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	98 U
56-55-3	**Benzo(a)anthracene**	**86**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**170**
218-01-9	**Chrysene**	**120**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**100**
207-08-9	**Benzo(k)fluoranthene**	**90**
50-32-8	**Benzo(a)pyrene**	**83**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**57**
53-70-3	**Dibenz(a,h)anthracene**	**21**
191-24-2	Benzo(g,h,i)perylene	20 U

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	48.8%	d5-Phenol	50.7%
2-Fluorobiphenyl	54.0%	2-Fluorophenol	50.6%
d14-p-Terphenyl	57.3%	2,4,6-Tribromophenol	64.8%
d4-1,2-Dichlorobenzene	43.7%	d4-2-Chlorophenol	48.6%

FORM-1

JMB 12/22/97

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 97384911
WR-SD-SD046-0000

Lab Sample ID: T923C
LIMS ID: 97-17684
Matrix: Sediment

QC Report No: T923-Roy F. Weston
Project: PSR

Date Sampled: 09/19/97
Date Received: 09/24/97

Data Release Authorized:
Reported: 10/16/97

Date Analyzed: 10/15/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Cycloalkane	13.64	SVOA	460 J N
2.	--	Unknown_Organic_Acid	18.16	SVOA	190 J N
3.	--	Unknown_Aromatic	20.42	SVOA	290 J N
4.	--	Unknown_Aromatic	23.19	SVOA	200 J N
5.	--	Unknown_Aldehyde	24.11	SVOA	770 J N
6.	--	Unknown_Cycloalkane	24.48	SVOA	360 J N
7.	--	Unknown_Aldehyde	25.24	SVOA	400 J N
8.	--	Unknown	25.36	SVOA	190 J N
9.	--	Unknown	25.57	SVOA	380 J N
10.	--	Unknown	25.78	SVOA	400 J N
11.	--	Unknown_Sterol_type	26.02	SVOA	380 J N
12.	--	Unknown	26.31	SVOA	250 J N
13.	--	Unknown_Sterol_type	26.80	SVOA	270 J N
14.	--	Unknown_Sterol_type	27.22	SVOA	800 J N
15.	--	Unknown	27.40	SVOA	440 J N
16.	--	Unknown_Aromatic	27.59	SVOA	520 J N
17.	--	Unknown_Sterol_type	27.73	SVOA	690 J N
18.	--	Unknown_Sterol_type	27.90	SVOA	470 J N
19.	--	Unknown	28.08	SVOA	190 J N
20.	--	Unknown_Sterol_type	28.20	SVOA	500 J N

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T923D
LIMS ID: 97-17685
Matrix: Sediment
Data Release Authorized:
Reported: 10/16/97

Sample No: 97384912
WR-SD-SD05D-0000
QC Report No: T923-Roy F. Weston
Project: PSR
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/02/97
Date analyzed: 10/15/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 37.2%
pH: 7.6

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	40 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U J
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U
106-44-5	**4-Methylphenol**	**21**
621-64-7	N-Nitroso-Di-N-Propylamine	40 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	100 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	60 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**86**
106-47-8	4-Chloroaniline	60 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	40 U
91-57-6	**2-Methylnaphthalene**	**32**
77-47-4	Hexachlorocyclopentadiene	100 U J
88-06-2	2,4,6-Trichlorophenol	100 U
95-95-4	2,4,5-Trichlorophenol	100 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	100 U
131-11-3	Dimethylphthalate	20 U
208-96-8	**Acenaphthylene**	**20**
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**70**
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	100 U
132-64-9	**Dibenzofuran**	**26**
606-20-2	2,6-Dinitrotoluene	100 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T923D
LIMS ID: 97-17685
Matrix: Sediment
Data Release Authorized:
Reported: 10/16/97

Sample No: 97384912
WR-SD-SD050-0000
QC Report No: T923-Roy F. Weston
Project: PSR
Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/02/97
Date analyzed: 10/15/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 50.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 37.2%
pH: 7.6

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	100 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	**Fluorene**	**50**
100-01-6	4-Nitroaniline	100 U J
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	100 U J
85-01-8	**Phenanthrene**	**290**
86-74-8	**Carbazole**	**30**
120-12-7	**Anthracene**	**79**
84-74-2	Di-n-Butylphthalate	20 U J
206-44-0	**Fluoranthene**	**430**
129-00-0	**Pyrene**	**380**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	100 U
56-55-3	**Benzo(a)anthracene**	**190**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**150**
218-01-9	**Chrysene**	**260**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**190**
207-08-9	**Benzo(k)fluoranthene**	**220**
50-32-8	**Benzo(a)pyrene**	**140**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**89**
53-70-3	**Dibenz(a,h)anthracene**	**42**
191-24-2	Benzo(g,h,i)perylene	20 U

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	51.8%	d5-Phenol	57.1%
2-Fluorobiphenyl	59.6%	2-Fluorophenol	55.4%
d14-p-Terphenyl	64.7%	2,4,6-Tribromophenol	69.2%
d4-1,2-Dichlorobenzene	42.5%	d4-2-Chlorophenol	54.1%

FORM-1

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 97384912
WR-SD- SD05D-0008

Lab Sample ID: T923D
LIMS ID: 97-17685
Matrix: Sediment

QC Report No: T923-Roy F. Weston
Project: PSR

Date Sampled: 09/19/97
Date Received: 09/24/97

Data Release Authorized:
Reported: 10/16/97

Date Analyzed: 10/15/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid	18.17	SVOA	290 JN
2.	--	Unknown	18.58	SVOA	240 JN
3.	--	Unknown_Aromatic	19.48	SVOA	250 JN
4.	--	Unknown_Aromatic	20.43	SVOA	400 JN
5.	--	Unknown_Aldehyde	22.89	SVOA	240 JN
6.	--	Unknown_Aromatic	23.19	SVOA	210 JN
7.	--	Unknown_Aldehyde	24.11	SVOA	1,100 JN
8.	--	Unknown_Cycloalkane	24.48	SVOA	340 JN
9.	--	Unknown_Aldehyde	25.24	SVOA	570 JN
10.	--	Unknown_Alcohol	25.58	SVOA	370 JN
11.	--	Unknown_Sterol_type	26.02	SVOA	380 JN
12.	--	Unknown_Aldehyde	26.31	SVOA	360 JN
13.	--	Unknown_Sterol_type	26.80	SVOA	280 JN
14.	--	Unknown_Sterol_type	27.23	SVOA	1,000 JN
15.	--	Unknown_Aromatic	27.41	SVOA	600 JN
16.	--	Unknown_Aromatic	27.59	SVOA	620 JN
17.	--	Unknown_Sterol_type	27.73	SVOA	820 JN
18.	--	Unknown	27.91	SVOA	440 JN
19.	--	Unknown	28.09	SVOA	200 JN
20.	--	Unknown_Sterol_type	28.20	SVOA	440 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9738 4106
WR-SD-SD049-0000

Lab Sample ID: T914D
LIMS ID: 97-17588
Matrix: Sediment
Data Release Authorized:
Reported: 10/24/97

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/20/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: NO

Sample Amount: 52.1 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:1
Percent Moisture: 45.6%
pH: 6.8

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	0.96 U
319-85-7	beta-BHC	0.96 U
319-86-8	delta-BHC	1.5 ~~X~~ UI
58-89-9	gamma-BHC (Lindane)	0.96 U
76-44-8	Heptachlor	0.96 U
309-00-2	Aldrin	0.96 U
1024-57-3	Heptachlor Epoxide	0.96 U
959-98-8	Endosulfan I	0.96 U
60-57-1	Dieldrin	1.9 U
72-55-9	4,4'-DDE	1.9 U
72-20-8	Endrin	1.9 U
33213-65-9	Endosulfan II	1.9 U
72-54-8	**4,4'-DDD**	**1.6 J**
1031-07-8	Endosulfan Sulfate	1.9 U
50-29-3	**4,4'-DDT**	**1.7 J**
72-43-5	Methoxychlor	9.6 U
53494-70-5	Endrin Ketone	1.9 U
7421-93-4	Endrin Aldehyde	1.9 U
57-74-9	gamma Chlordane	0.96 U
5103-71-9	alpha Chlordane	0.96 U
8001-35-2	Toxaphene	96 U
12674-11-2	Aroclor 1016	19 U
53469-21-9	Aroclor 1242	19 U
12672-29-6	Aroclor 1248	19 U
11097-69-1	Aroclor 1254	19 U
11096-82-5	Aroclor 1260	19 U
11104-28-2	Aroclor 1221	38 U
11141-16-5	Aroclor 1232	19 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	59.8%
Tetrachlorometaxylene	44.8%

FORM-1

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9738 4913

WR-SD-SD048-0000

Lab Sample ID: T914N
LIMS ID: 97-17598
Matrix: Sediment
Data Release Authorized:
Reported: 10/24/97

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/20/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: NO

Sample Amount: 53.0 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:1
Percent Moisture: 38.1%
pH: 6.5

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	0.94 U
319-85-7	beta-BHC	0.94 U
319-86-8	delta-BHC	0.94 U
58-89-9	gamma-BHC (Lindane)	0.94 U
76-44-8	Heptachlor	0.94 U
309-00-2	Aldrin	0.94 U
1024-57-3	Heptachlor Epoxide	0.94 U
959-98-8	Endosulfan I	0.94 U
60-57-1	Dieldrin	1.9 U
72-55-9	4,4'-DDE	1.9 U
72-20-8	Endrin	1.9 U
33213-65-9	Endosulfan II	1.9 U
72-54-8	**4,4'-DDD**	**3.1**
1031-07-8	Endosulfan Sulfate	1.9 U
50-29-3	**4,4'-DDT**	**7.2**
72-43-5	Methoxychlor	9.4 U
53494-70-5	Endrin Ketone	1.9 U
7421-93-4	Endrin Aldehyde	1.9 U
57-74-9	gamma Chlordane	0.94 U
5103-71-9	alpha Chlordane	0.94 U
8001-35-2	Toxaphene	94 U
12674-11-2	Aroclor 1016	19 U
53469-21-9	Aroclor 1242	19 U
12672-29-6	Aroclor 1248	19 U
11097-69-1	Aroclor 1254	19 U
11096-82-5	Aroclor 1260	19 U
11104-28-2	Aroclor 1221	38 U
11141-16-5	Aroclor 1232	19 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	48.5%
Tetrachlorometaxylene	38.2%

~~005239~~

FORM-1

JMB 1/22/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9738 4915

WR-SD-SD048-1000

Lab Sample ID: T9140
LIMS ID: 97-17599
Matrix: Sediment
Data Release Authorized:
Reported: 10/24/97

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/20/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: NO

Sample Amount: 50.5 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:1
Percent Moisture: 37.5%
pH: 6.5

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	0.99 U
319-85-7	beta-BHC	0.99 U
319-86-8	delta-BHC	0.99 U
58-89-9	gamma-BHC (Lindane)	0.99 U
76-44-8	Heptachlor	0.99 U
309-00-2	Aldrin	0.99 U
1024-57-3	Heptachlor Epoxide	0.99 U
959-98-8	Endosulfan I	0.99 U
60-57-1	Dieldrin	2.0 U
72-55-9	4,4'-DDE	2.0 U
72-20-8	Endrin	2.0 U
33213-65-9	Endosulfan II	2.0 U
72-54-8	**4,4'-DDD**	**3.0**
1031-07-8	Endosulfan Sulfate	2.0 U
50-29-3	**4,4'-DDT**	**3.2**
72-43-5	Methoxychlor	9.9 U
53494-70-5	Endrin Ketone	2.0 U
7421-93-4	Endrin Aldehyde	2.0 U
57-74-9	gamma Chlordane	0.99 U
5103-71-9	alpha Chlordane	0.99 U
8001-35-2	Toxaphene	99 U
12674-11-2	Aroclor 1016	20 U
53469-21-9	Aroclor 1242	20 U
12672-29-6	Aroclor 1248	20 U
11097-69-1	Aroclor 1254	20 U
11096-82-5	Aroclor 1260	20 U
11104-28-2	Aroclor 1221	40 U
11141-16-5	Aroclor 1232	20 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	47.0%
Tetrachlorometaxylene	37.8%

FORM-1

~~005237~~

JMB 1/22/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9738 4917
WR-SD- SD055-0000

Lab Sample ID: T914Q
LIMS ID: 97-17601
Matrix: Sediment
Data Release Authorized:
Reported: 10/24/97

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/19/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/20/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: NO

Sample Amount: 51.2 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:1
Percent Moisture: 21.5%
pH: 7.0

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	0.98 U
319-85-7	beta-BHC	0.98 U
319-86-8	delta-BHC	0.98 U
58-89-9	gamma-BHC (Lindane)	0.98 U
76-44-8	Heptachlor	0.98 U
309-00-2	Aldrin	0.98 U
1024-57-3	Heptachlor Epoxide	0.98 U
959-98-8	Endosulfan I	0.98 U
60-57-1	Dieldrin	2.0 U
72-55-9	4,4'-DDE	2.0 U
72-20-8	Endrin	2.0 U
33213-65-9	Endosulfan II	2.0 U
72-54-8	**4,4'-DDD**	**2.6**
1031-07-8	Endosulfan Sulfate	2.0 U
50-29-3	**4,4'-DDT**	**3.9**
72-43-5	Methoxychlor	9.8 U
53494-70-5	Endrin Ketone	2.0 U
7421-93-4	Endrin Aldehyde	2.0 U
57-74-9	gamma Chlordane	0.98 U
5103-71-9	alpha Chlordane	0.98 U
8001-35-2	Toxaphene	98 U
12674-11-2	Aroclor 1016	20 U
53469-21-9	Aroclor 1242	20 U
12672-29-6	Aroclor 1248	20 U
11097-69-1	Aroclor 1254	20 U
11096-82-5	Aroclor 1260	20 U
11104-28-2	Aroclor 1221	39 U
11141-16-5	Aroclor 1232	20 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	50.8%
Tetrachlorometaxylene	49.0%

FORM-1

005244

00377

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9738 4919

WR-SD-SD057-0000

Lab Sample ID: T914R
LIMS ID: 97-17602
Matrix: Sediment
Data Release Authorized:
Reported: 10/24/97

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/20/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: NO

Sample Amount: 52.4 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:1
Percent Moisture: 42.1%
pH: 7.3

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	0.95 U
319-85-7	beta-BHC	0.95 U
319-86-8	delta-BHC	0.95 U
58-89-9	gamma-BHC (Lindane)	0.95 U
76-44-8	Heptachlor	0.95 U
309-00-2	Aldrin	0.95 U
1024-57-3	Heptachlor Epoxide	0.95 U
959-98-8	Endosulfan I	0.95 U
60-57-1	Dieldrin	1.9 U
72-55-9	**4,4'-DDE**	**2.4**
72-20-8	Endrin	1.9 U
33213-65-9	Endosulfan II	1.9 U
72-54-8	**4,4'-DDD**	**4.1**
1031-07-8	Endosulfan Sulfate	1.9 U
50-29-3	**4,4'-DDT**	**11**
72-43-5	Methoxychlor	9.5 U
53494-70-5	Endrin Ketone	1.9 U
7421-93-4	Endrin Aldehyde	1.9 U
57-74-9	gamma Chlordane	0.95 U
5103-71-9	alpha Chlordane	0.95 U
8001-35-2	Toxaphene	95 U
12674-11-2	Aroclor 1016	19 U
53469-21-9	Aroclor 1242	19 U
12672-29-6	Aroclor 1248	19 U
11097-69-1	Aroclor 1254	19 U
11096-82-5	Aroclor 1260	19 U
11104-28-2	Aroclor 1221	38 U
11141-16-5	Aroclor 1232	19 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	57.8%
Tetrachlorometaxylene	39.8%

FORM-1

~~005251~~

00378

JMB 1/22/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD

Sample No: 9738 4921
WR-SD-SD059-0000

Lab Sample ID: T914S
LIMS ID: 97-17603
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Data Release Authorized:
Reported: 10/27/97

Date extracted: 10/02/97
Date analyzed: 10/11/97

Sample Amount: 52.7 g-dry-wt
Final Ext Vol: 10 mL
pH: 7.4

GPC Cleanup: Yes
Florisil Cleanup: No
Acid Cleanup: Yes
Sulfur Cleanup: Yes
Conc/Dilution Factor: 1:1
Percent Moisture: 44.5%

Reported in Total ug/kg Dry Weight

CAS Number	Analyte	Value
12674-11-2	Aroclor 1016	19 U
53469-21-9	Aroclor 1242	19 U
12672-29-6	Aroclor 1248	19 U
11097-69-1	Aroclor 1254	29 XUI
11096-82-5	Aroclor 1260	19 U
11104-28-2	Aroclor 1221	38 U
11141-16-5	Aroclor 1232	19 U

PCB-Aroclor Surrogate Recovery

Decachlorobiphenyl	45.0%
Tetrachlorometaxylene	43.1%

Data Qualifiers

J Indicates an estimated value when that result is less than the calculated detection limit.
E Indicates a value above the linear range of the detector. Dilution Required
S Indicates no value reported due to saturation of the detector.
D Indicates the surrogate was diluted out.
U Indicates compound was analyzed for, but not detected at the given detection limit.
B Found in associated method blank
NA Indicates compound was not analyzed.
NR Indicates no recovery due to interferences.
NV Indicates no value reportable - see additional analyses.
Y Indicates a raised reporting limit due to matrix interferences. The analyte may be present at or below the listed concentration, but in the opinion of the analyst, confirmation was inadequate.

FORM-1 PCB

JMB 12/22/97

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9738 4922
WR-SD-SD058-0000

Lab Sample ID: T914T
LIMS ID: 97-17604
Matrix: Sediment
Data Release Authorized:
Reported: 10/24/97

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/20/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: NO

Sample Amount: 50.6 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:1
Percent Moisture: 27.9%
pH: 7.2

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	0.99 U
319-85-7	beta-BHC	0.99 U
319-86-8	delta-BHC	1.3 ~~U~~ I
58-89-9	gamma-BHC (Lindane)	0.99 U
76-44-8	Heptachlor	0.99 U
309-00-2	Aldrin	0.99 U
1024-57-3	Heptachlor Epoxide	0.99 U
959-98-8	Endosulfan I	0.99 U
60-57-1	Dieldrin	2.0 U
72-55-9	4,4'-DDE	2.0 U
72-20-8	Endrin	2.0 U
33213-65-9	Endosulfan II	2.0 U
72-54-8	**4,4'-DDD**	**1.7 J**
1031-07-8	Endosulfan Sulfate	2.0 U
50-29-3	**4,4'-DDT**	**2.4**
72-43-5	Methoxychlor	9.9 U
53494-70-5	Endrin Ketone	2.0 U
7421-93-4	Endrin Aldehyde	2.0 U
57-74-9	gamma Chlordane	0.99 U
5103-71-9	alpha Chlordane	0.99 U
8001-35-2	Toxaphene	99 U
12674-11-2	Aroclor 1016	20 U
53469-21-9	Aroclor 1242	20 U
12672-29-6	Aroclor 1248	20 U
11097-69-1	Aroclor 1254	20 U
11096-82-5	Aroclor 1260	20 U
11104-28-2	Aroclor 1221	40 U
11141-16-5	Aroclor 1232	20 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	63.2%
Tetrachlorometaxylene	49.2%

~~005259~~

FORM-1

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD

Sample No: 9738 4924
WR-SD-SD061-0000

Lab Sample ID: T914U
LIMS ID: 97-17605
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Data Release Authorized:
Reported: 10/27/97

Date extracted: 10/02/97
Date analyzed: 10/11/97

Sample Amount: 52.8 g-dry-wt
Final Ext Vol: 10 mL
pH: 7.2

GPC Cleanup: Yes
Florisil Cleanup: No
Acid Cleanup: Yes
Sulfur Cleanup: Yes
Conc/Dilution Factor: 1:1
Percent Moisture: 24.5%

Reported in Total ug/kg Dry Weight

CAS Number	Analyte	Value
12674-11-2	Aroclor 1016	19 U
53469-21-9	Aroclor 1242	19 U
12672-29-6	Aroclor 1248	19 U
11097-69-1	Aroclor 1254	32 ~~U~~ UI
11096-82-5	Aroclor 1260	19 U
11104-28-2	Aroclor 1221	38 U
11141-16-5	Aroclor 1232	19 U

PCB-Aroclor Surrogate Recovery

Decachlorobiphenyl	58.0%
Tetrachlorometaxylene	53.7%

Data Qualifiers

J Indicates an estimated value when that result is less than the calculated detection limit.
E Indicates a value above the linear range of the detector. Dilution Required
S Indicates no value reported due to saturation of the detector.
D Indicates the surrogate was diluted out.
U Indicates compound was analyzed for, but not detected at the given detection limit.
B Found in associated method blank
NA Indicates compound was not analyzed.
NR Indicates no recovery due to interferences.
NV Indicates no value reportable - see additional analyses.
Y Indicates a raised reporting limit due to matrix interferences. The analyte may be present at or below the listed concentration, but in the opinion of the analyst, confirmation was inadequate.

FORM-1 PCB

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9738 4926

WR-SD-SD066-0000

Lab Sample ID: T914W
LIMS ID: 97-17607
Matrix: Sediment
Data Release Authorized: [signature]
Reported: 10/24/97

QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/20/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: NO

Sample Amount: 52.4 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:1
Percent Moisture: 38.8%
pH: 7.4

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	0.95 ~~U~~ R
319-85-7	beta-BHC	0.95 ~~U~~ R
319-86-8	delta-BHC	0.95 ~~U~~ R
58-89-9	gamma-BHC (Lindane)	0.95 ~~U~~ R
76-44-8	Heptachlor	0.95 ~~U~~ R
309-00-2	Aldrin	0.95 ~~U~~ R
1024-57-3	Heptachlor Epoxide	0.95 ~~U~~ R
959-98-8	Endosulfan I	1.2 ~~X~~ ~~UI~~ R
60-57-1	Dieldrin	1.9 ~~U~~ R
72-55-9	4,4'-DDE	5.0 ~~X~~ ~~UI~~ R
72-20-8	Endrin	1.9 ~~U~~ R
33213-65-9	Endosulfan II	1.9 ~~U~~ R
72-54-8	4,4'-DDD	4.8 J
1031-07-8	Endosulfan Sulfate	1.9 ~~U~~ R
50-29-3	4,4'-DDT	2.7 J
72-43-5	Methoxychlor	9.5 ~~U~~ R
53494-70-5	Endrin Ketone	1.9 ~~U~~ R
7421-93-4	Endrin Aldehyde	1.9 ~~U~~ R
57-74-9	gamma Chlordane	1.5 ~~X~~ ~~UI~~ R
5103-71-9	alpha Chlordane	0.95 ~~U~~ R
8001-35-2	Toxaphene	95 ~~U~~ R
12674-11-2	Aroclor 1016	19 ~~U~~ R
53469-21-9	Aroclor 1242	19 ~~U~~ R
12672-29-6	Aroclor 1248	19 ~~U~~ R
11097-69-1	Aroclor 1254	54 J
11096-82-5	Aroclor 1260	38 ~~X~~ ~~UI~~ R
11104-28-2	Aroclor 1221	38 ~~U~~ R
11141-16-5	Aroclor 1232	19 ~~U~~ R

Pesticide Surrogate Recovery

Decachlorobiphenyl	35.5%
Tetrachlorometaxylene	9.5%

~~005266~~

FORM-1

00382

JMB 1/22/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9738 4930
WR-SD-SD074-0000

Lab Sample ID: T914AA
LIMS ID: 97-17611
Matrix: Sediment
Data Release Authorized:
Reported: 10/24/97

QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: ~~10/20/97~~ 10/21/97 @
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: NO

Sample Amount: 50.2 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:1
Percent Moisture: 50.0%
pH: 6.9

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	1.0 U J
319-85-7	beta-BHC	1.0 U J
319-86-8	delta-BHC	1.2 ~~U~~ I J
58-89-9	gamma-BHC (Lindane)	1.0 U J
76-44-8	Heptachlor	1.0 U J
309-00-2	Aldrin	1.0 U J
1024-57-3	Heptachlor Epoxide	1.0 U J
959-98-8	Endosulfan I	1.0 U J
60-57-1	Dieldrin	2.0 U J
72-55-9	**4,4'-DDE**	**4.7** J
72-20-8	Endrin	2.0 U J
33213-65-9	Endosulfan II	2.0 U J
72-54-8	**4,4'-DDD**	~~40 E~~ 457 D J
1031-07-8	Endosulfan Sulfate	2.0 U J
50-29-3	**4,4'-DDT**	~~8~~ 320 D
72-43-5	Methoxychlor	10 U J
53494-70-5	Endrin Ketone	2.0 U J
7421-93-4	Endrin Aldehyde	2.0 U J
57-74-9	gamma Chlordane	1.0 U J
5103-71-9	alpha Chlordane	1.0 U J
8001-35-2	Toxaphene	100 U J
12674-11-2	Aroclor 1016	20 U J
53469-21-9	Aroclor 1242	20 U J
12672-29-6	Aroclor 1248	20 U J
11097-69-1	Aroclor 1254	20 U J
11096-82-5	Aroclor 1260	20 U J

Pesticide Surrogate Recovery

Decachlorobiphenyl	38.8%
Tetrachlorometaxylene	28.2%

FORM-1

~~005274~~

JMB 1/22/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9738 4930
DILUTION

Lab Sample ID: T914AADL
LIMS ID: 97-17611
Matrix: Sediment
Data Release Authorized:
Reported: 10/24/97

QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: ~~10/18/97~~ 10/21/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: NO

Sample Amount: 50.2 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:20
Percent Moisture: 50.0%
pH: 6.9

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	20 U
319-85-7	beta-BHC	20 U
319-86-8	delta-BHC	20 U
58-89-9	gamma-BHC (Lindane)	20 U
76-44-8	Heptachlor	20 U
309-00-2	Aldrin	20 U
1024-57-3	Heptachlor Epoxide	20 U
959-98-8	Endosulfan I	20 U
60-57-1	Dieldrin	40 U
72-55-9	4,4'-DDE	40 U
72-20-8	Endrin	40 U
33213-65-9	Endosulfan II	40 U
72-54-8	**4,4'-DDD**	**45**
1031-07-8	Endosulfan Sulfate	40 U
50-29-3	**4,4'-DDT**	**320**
72-43-5	Methoxychlor	200 U
53494-70-5	Endrin Ketone	40 U J
7421-93-4	Endrin Aldehyde	40 U
57-74-9	gamma Chlordane	20 U
5103-71-9	alpha Chlordane	20 U
8001-35-2	Toxaphene	2,000 U
12674-11-2	Aroclor 1016	400 U
53469-21-9	Aroclor 1242	400 U
12672-29-6	Aroclor 1248	400 U
11097-69-1	Aroclor 1254	400 U
11096-82-5	Aroclor 1260	400 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	80.0%
Tetrachlorometaxylene	D

FORM-1

~~095281~~
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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9738 4941

WR-SD- SD070-0000

Lab Sample ID: T914AG
LIMS ID: 97-17619
Matrix: Sediment
Data Release Authorized:
Reported: 10/24/97

QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: ~~10/20/97~~ 10/21/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: NO

Sample Amount: 53.1 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:1
Percent Moisture: 37.6%
pH: 7.5

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	0.94 U
319-85-7	beta-BHC	0.94 U
319-86-8	delta-BHC	0.94 U
58-89-9	gamma-BHC (Lindane)	0.94 U
76-44-8	Heptachlor	0.94 U
309-00-2	Aldrin	0.94 U
1024-57-3	Heptachlor Epoxide	0.94 U
959-98-8	Endosulfan I	0.94 U
60-57-1	Dieldrin	1.9 U
72-55-9	**4,4'-DDE**	**8.1**
72-20-8	Endrin	3.4 ~~U~~ UI
33213-65-9	Endosulfan II	1.9 U
72-54-8	**4,4'-DDD**	**11**
1031-07-8	Endosulfan Sulfate	1.9 U
50-29-3	**4,4'-DDT**	**27**
72-43-5	Methoxychlor	9.4 U
53494-70-5	Endrin Ketone	5.0 ~~U~~ UIJ
7421-93-4	Endrin Aldehyde	1.9 U
57-74-9	gamma Chlordane	0.94 U
5103-71-9	alpha Chlordane	0.94 U
8001-35-2	Toxaphene	94 U
12674-11-2	Aroclor 1016	19 U
53469-21-9	Aroclor 1242	19 U
12672-29-6	Aroclor 1248	19 U
11097-69-1	**Aroclor 1254**	**51**
11096-82-5	Aroclor 1260	19 U
11104-28-2	Aroclor 1221	38 U
11141-16-5	Aroclor 1232	19 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	63.5%
Tetrachlorometaxylene	34.0%

~~005286~~

FORM-1

JMB 1/22/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9738 4943

WR-SD-SD070-1000

Lab Sample ID: T914AH
LIMS ID: 97-17620
Matrix: Sediment
Data Release Authorized:
Reported: 10/24/97

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: ~~10/20/97~~ 10/21/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: NO

Sample Amount: 51.6 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:1
Percent Moisture: 35.6%
pH: 7.3

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	0.97 U
319-85-7	beta-BHC	0.97 U
319-86-8	delta-BHC	0.97 U
58-89-9	gamma-BHC (Lindane)	0.97 U
76-44-8	Heptachlor	0.97 U
309-00-2	Aldrin	0.97 U
1024-57-3	Heptachlor Epoxide	0.97 U
959-98-8	Endosulfan I	0.97 U
60-57-1	Dieldrin	1.9 U
72-55-9	**4,4'-DDE**	**6.6**
72-20-8	Endrin	1.9 U
33213-65-9	Endosulfan II	1.9 U
72-54-8	**4,4'-DDD**	**14**
1031-07-8	Endosulfan Sulfate	1.9 U
50-29-3	**4,4'-DDT**	**24**
72-43-5	Methoxychlor	9.7 U
53494-70-5	Endrin Ketone	2.8 ~~U~~ UIJ
7421-93-4	Endrin Aldehyde	1.9 U
57-74-9	gamma Chlordane	0.97 U
5103-71-9	alpha Chlordane	0.97 U
8001-35-2	Toxaphene	97 U
12674-11-2	Aroclor 1016	19 U
53469-21-9	Aroclor 1242	19 U
12672-29-6	Aroclor 1248	19 U
11097-69-1	Aroclor 1254	39 ~~U~~ UI
11096-82-5	Aroclor 1260	19 U
11104-28-2	Aroclor 1221	39 U
11141-16-5	Aroclor 1232	19 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	64.8%
Tetrachlorometaxylene	35.5%

FORM-1

~~005294~~

JMB 1/22/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9738 4944

WR-SD-SD072-0000

Lab Sample ID: T914AI
LIMS ID: 97-17621
Matrix: Sediment
Data Release Authorized:
Reported: 10/24/97

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: ~~10/20/97~~ 10/21/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: NO

Sample Amount: 50.6 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:1
Percent Moisture: 36.9%
pH: 7.3

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	0.99 U
319-85-7	beta-BHC	0.99 U
319-86-8	delta-BHC	1.6 ~~X~~ UI
58-89-9	gamma-BHC (Lindane)	0.99 U
76-44-8	Heptachlor	0.99 U
309-00-2	Aldrin	0.99 U
1024-57-3	Heptachlor Epoxide	0.99 U
959-98-8	Endosulfan I	0.99 U
60-57-1	Dieldrin	2.0 U
72-55-9	**4,4'-DDE**	**5.3**
72-20-8	Endrin	2.0 U
33213-65-9	Endosulfan II	2.0 U
72-54-8	**4,4'-DDD**	**22**
1031-07-8	Endosulfan Sulfate	2.0 U
50-29-3	**4,4'-DDT**	~~40 E~~ 60 D
72-43-5	Methoxychlor	9.9 U
53494-70-5	Endrin Ketone	2.0 U J
7421-93-4	Endrin Aldehyde	2.0 U
57-74-9	gamma Chlordane	0.99 U
5103-71-9	alpha Chlordane	0.99 U
8001-35-2	Toxaphene	99 U
12674-11-2	Aroclor 1016	20 U
53469-21-9	Aroclor 1242	20 U
12672-29-6	Aroclor 1248	20 U
11097-69-1	Aroclor 1254	40 ~~X~~ UI
11096-82-5	Aroclor 1260	20 U
11104-28-2	Aroclor 1221	40 U
11141-16-5	Aroclor 1232	20 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	67.5%
Tetrachlorometaxylene	43.2%

FORM-1

~~005302~~

JMB 1/22/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9738 4944
DILUTION

Lab Sample ID: T914AIDL
LIMS ID: 97-17621
Matrix: Sediment
Data Release Authorized:
Reported: 10/24/97

QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: ~~10/18/97~~ 10/21/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: NO

Sample Amount: 50.6 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:10
Percent Moisture: 36.9%
pH: 7.3

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	9.9 U
319-85-7	beta-BHC	9.9 U
319-86-8	delta-BHC	9.9 U
58-89-9	gamma-BHC (Lindane)	9.9 U
76-44-8	Heptachlor	9.9 U
309-00-2	Aldrin	9.9 U
1024-57-3	Heptachlor Epoxide	9.9 U
959-98-8	Endosulfan I	9.9 U
60-57-1	Dieldrin	20 U
72-55-9	4,4'-DDE	20 U
72-20-8	Endrin	20 U
33213-65-9	Endosulfan II	20 U
72-54-8	**4,4'-DDD**	**32**
1031-07-8	Endosulfan Sulfate	20 U
50-29-3	**4,4'-DDT**	**60**
72-43-5	Methoxychlor	99 U
53494-70-5	Endrin Ketone	20 U J
7421-93-4	Endrin Aldehyde	20 U
57-74-9	gamma Chlordane	9.9 U
5103-71-9	alpha Chlordane	9.9 U
8001-35-2	Toxaphene	990 U
12674-11-2	Aroclor 1016	200 U
53469-21-9	Aroclor 1242	200 U
12672-29-6	Aroclor 1248	200 U
11097-69-1	Aroclor 1254	200 U
11096-82-5	Aroclor 1260	200 U
11104-28-2	Aroclor 1221	400 U
11141-16-5	Aroclor 1232	200 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	90.0%
Tetrachlorometaxylene	92.5%

FORM-1

~~005310~~

JMB 1/22/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9738 4945

WR-SD-SD075-0000

Lab Sample ID: T914AJ
LIMS ID: 97-17622
Matrix: Sediment
Data Release Authorized:
Reported: 10/24/97

QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: ~~10/20/97~~ 10/21/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: NO

Sample Amount: 53.2 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:1
Percent Moisture: 37.6%
pH: 7.3

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	0.94 U
319-85-7	beta-BHC	0.94 U
319-86-8	delta-BHC	0.94 U
58-89-9	gamma-BHC (Lindane)	0.94 U
76-44-8	Heptachlor	0.94 U
309-00-2	Aldrin	1.3 ~~Y~~ UI
1024-57-3	Heptachlor Epoxide	2.3 ~~Y~~ UI
959-98-8	Endosulfan I	0.94 U
60-57-1	Dieldrin	1.9 U
72-55-9	**4,4'-DDE**	**13**
72-20-8	Endrin	2.9 ~~Y~~ UI
33213-65-9	Endosulfan II	1.9 U
72-54-8	**4,4'-DDD**	~~48 E~~ 81 D
1031-07-8	Endosulfan Sulfate	1.9 U
50-29-3	**4,4'-DDT**	~~40 E~~ 76 D
72-43-5	Methoxychlor	9.4 U
53494-70-5	Endrin Ketone	4.0 ~~Y~~ UI J
7421-93-4	Endrin Aldehyde	2.0 ~~Y~~ UI
57-74-9	gamma Chlordane	2.4 ~~Y~~ UI
5103-71-9	alpha Chlordane	0.94 U
8001-35-2	Toxaphene	94 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	86.5%
Tetrachlorometaxylene	46.0%

FORM-1

~~005317~~

00389

JMB 1/22/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9738 4945
DILUTION

Lab Sample ID: T914AJDL
LIMS ID: 97-17622
Matrix: Sediment
Data Release Authorized:
Reported: 10/24/97

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/20/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: ~~10/18/97~~ 10/21/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: NO

Sample Amount: 53.2 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:10
Percent Moisture: 37.6%
pH: 7.3

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	9.4 U
319-85-7	beta-BHC	9.4 U
319-86-8	delta-BHC	9.4 U
58-89-9	gamma-BHC (Lindane)	9.4 U
76-44-8	Heptachlor	9.4 U
309-00-2	Aldrin	9.4 U
1024-57-3	Heptachlor Epoxide	9.4 U
959-98-8	Endosulfan I	9.4 U
60-57-1	Dieldrin	19 U
72-55-9	**4,4'-DDE**	**23**
72-20-8	Endrin	19 U
33213-65-9	Endosulfan II	19 U
72-54-8	**4,4'-DDD**	**81**
1031-07-8	Endosulfan Sulfate	19 U
50-29-3	**4,4'-DDT**	**76**
72-43-5	Methoxychlor	94 U
53494-70-5	Endrin Ketone	19 U J
7421-93-4	Endrin Aldehyde	19 U
57-74-9	gamma Chlordane	9.4 U
5103-71-9	alpha Chlordane	9.4 U
8001-35-2	Toxaphene	940 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	105%
Tetrachlorometaxylene	D

FORM-1

~~005326~~

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9738 4947

WR-SD-SD077-0000

Lab Sample ID: T914AK
LIMS ID: 97-17623
Matrix: Sediment
Data Release Authorized:
Reported: 10/24/97

QC Report No: T914-Roy F. Weston
Project: 1001.006

Date Sampled: 09/21/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: 10/20/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 52.9 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:20
Percent Moisture: 38.1%
pH: 7.3

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	19 U
319-85-7	beta-BHC	19 U
319-86-8	delta-BHC	19 U
58-89-9	gamma-BHC (Lindane)	19 U
76-44-8	Heptachlor	19 U
309-00-2	Aldrin	19 U
1024-57-3	Heptachlor Epoxide	19 U
959-98-8	Endosulfan I	19 U
60-57-1	Dieldrin	38 U
72-55-9	4,4'-DDE	38 U
72-20-8	Endrin	38 U
33213-65-9	Endosulfan II	38 U
72-54-8	**4,4'-DDD**	**100**
1031-07-8	Endosulfan Sulfate	38 U
50-29-3	**4,4'-DDT**	**63**
72-43-5	Methoxychlor	190 U
53494-70-5	Endrin Ketone	38 U
7421-93-4	Endrin Aldehyde	38 U
57-74-9	gamma Chlordane	19 U
5103-71-9	alpha Chlordane	19 U
8001-35-2	Toxaphene	1,900 U
12674-11-2	Aroclor 1016	380 U
53469-21-9	Aroclor 1242	380 U
12672-29-6	Aroclor 1248	380 U
11097-69-1	Aroclor 1254	380 U
11096-82-5	Aroclor 1260	380 U
11104-28-2	Aroclor 1221	760 U
11141-16-5	Aroclor 1232	380 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	85.0%
Tetrachlorometaxylene	D

FORM-1

~~005333~~

JMB 1/22/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9738 4950
REANALYSIS
WR-SD-SD078-0000

Lab Sample ID: T914AL-RE
LIMS ID: 97-17624
Matrix: Sediment
Data Release Authorized:
Reported: 11/07/97

QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/21/97
Date Received: 09/24/97

Date extracted: 10/24/97
Date analyzed: 11/07/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 52.4 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:50
Percent Moisture: 30.4%
pH: 7.4

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	48 U
319-85-7	beta-BHC	48 U
319-86-8	delta-BHC	48 U
58-89-9	gamma-BHC (Lindane)	48 U
76-44-8	Heptachlor	48 U
309-00-2	Aldrin	48 U
1024-57-3	Heptachlor Epoxide	48 U
959-98-8	Endosulfan I	48 U
60-57-1	Dieldrin	95 U
72-55-9	4,4'-DDE	95 U
72-20-8	Endrin	95 U
33213-65-9	Endosulfan II	95 U
72-54-8	**4,4'-DDD**	**100**
1031-07-8	Endosulfan Sulfate	95 U
50-29-3	**4,4'-DDT**	**280**
72-43-5	Methoxychlor	480 U
53494-70-5	Endrin Ketone	95 U
7421-93-4	Endrin Aldehyde	95 U
57-74-9	gamma Chlordane	48 U
5103-71-9	alpha Chlordane	48 U
8001-35-2	Toxaphene	4,800 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	D
Tetrachlorometaxylene	D

FORM-1

~~005340~~

JMB 1/22/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9738 4961

WR-SD- SD096-0000

Lab Sample ID: T914AR
LIMS ID: 97-17630
Matrix: Sediment
Data Release Authorized:
Reported: 10/24/97

QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/21/97
Date Received: 09/24/97

Date extracted: 10/10/97
Date analyzed: ~~10/20/97~~ 10/21/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: NO

Sample Amount: 51.2 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:1
Percent Moisture: 40.0%
pH: 7.4

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	0.98 U
319-85-7	beta-BHC	0.98 U
319-86-8	delta-BHC	1.5 ~~J~~ UI
58-89-9	gamma-BHC (Lindane)	0.98 U
76-44-8	Heptachlor	0.98 U
309-00-2	Aldrin	1.8 ~~J~~ UI
1024-57-3	Heptachlor Epoxide	0.98 U
959-98-8	Endosulfan I	1.3 ~~J~~ UI
60-57-1	Dieldrin	2.0 ~~J~~ UI
72-55-9	4,4'-DDE	2.9 ~~J~~ UI
72-20-8	Endrin	5.0 ~~J~~ UI
33213-65-9	Endosulfan II	2.0 U
72-54-8	4,4'-DDD	2.0 U
1031-07-8	Endosulfan Sulfate	2.0 U
50-29-3	4,4'-DDT	5.3 ~~J~~ UI
72-43-5	Methoxychlor	10 ~~J~~ UI
53494-70-5	Endrin Ketone	12 ~~J~~ UI J
7421-93-4	Endrin Aldehyde	6.4 ~~J~~ UI
57-74-9	gamma Chlordane	3.2 ~~J~~ UI
5103-71-9	alpha Chlordane	0.98 U
8001-35-2	Toxaphene	98 U
12674-11-2	Aroclor 1016	20 U
53469-21-9	Aroclor 1242	20 U
12672-29-6	Aroclor 1248	20 U
11097-69-1	**Aroclor 1254**	**200**
11096-82-5	Aroclor 1260	49 ~~J~~ UI
11104-28-2	Aroclor 1221	39 U
11141-16-5	Aroclor 1232	20 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	48.2%
Tetrachlorometaxylene	40.0%

FORM-1

00392

JMB 12/22/97

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD

Sample No: 9738 4967
WR-SD-SD103-0000

Lab Sample ID: T914AW
LIMS ID: 97-17635
Matrix: Sediment

QC Report No: T914-Roy F. Weston
Project: 1001.006
Date Sampled: 09/21/97
Date Received: 09/24/97

Data Release Authorized:
Reported: 10/27/97

Date extracted: 10/02/97
Date analyzed: 10/11/97

Sample Amount: 50.4 g-dry-wt
Final Ext Vol: 10 mL
pH: 7.3

GPC Cleanup: Yes
Florisil Cleanup: No
Acid Cleanup: Yes
Sulfur Cleanup: Yes
Conc/Dilution Factor: 1:1
Percent Moisture: 49.6%

Reported in Total ug/kg Dry Weight

CAS Number	Analyte	Value
12674-11-2	Aroclor 1016	20 U
53469-21-9	Aroclor 1242	20 U
12672-29-6	Aroclor 1248	20 U
11097-69-1	Aroclor 1254	21 ~~J~~ UJ
11096-82-5	Aroclor 1260	20 U
11104-28-2	Aroclor 1221	40 U
11141-16-5	Aroclor 1232	20 U

PCB-Aroclor Surrogate Recovery

Decachlorobiphenyl	55.8%
Tetrachlorometaxylene	53.2%

Data Qualifiers

J Indicates an estimated value when that result is less than the calculated detection limit.
E Indicates a value above the linear range of the detector. Dilution Required
S Indicates no value reported due to saturation of the detector.
D Indicates the surrogate was diluted out.
U Indicates compound was analyzed for, but not detected at the given detection limit.
B Found in associated method blank
NA Indicates compound was not analyzed.
NR Indicates no recovery due to interferences.
NV Indicates no value reportable - see additional analyses.
Y Indicates a raised reporting limit due to matrix interferences. The analyte may be present at or below the listed concentration, but in the opinion of the analyst, confirmation was inadequate.

FORM-1 PCB

JMB 12/22/97

1.8

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MANAGERS DESIGNERS/CONSULTANTS

MEMORANDUM

DATE: 3 February 1998

TO: John Meyer, WAM, U.S. EPA, Region X

FROM: Jennifer M. Baier, Environmental Chemist, WESTON, Seattle JMB
RNM Roger McGinnis, Senior Environmental Chemist, WESTON, Seattle

SUBJECT: Validation of Organics (Semivolatiles, Pesticides, and PCBs)
SDG No: T971
Site: Willamette River

WORK ASSIGNMENT NO: 46-23-0JZZ

DOC. CONTROL NO.: 4000-019-036-AABA

WORK ORDER NO.: 4000-019-036-5200-00

cc: Bruce Woods, RAP-WAM, U.S. EPA, Region X
Karen Stash, Project Manager, WESTON, Seattle (memo only)

The quality assurance review of 68 samples, SDG T971, collected from the Willamette River has been completed. The sediment samples were analyzed at low level for semivolatiles, pesticides and PCBs by Analytical Resources, Inc. The samples were numbered:

97384968	97394715	97394731	97394748	97394764
97384970	97394716	97394732	97394749	97394765
97394700	97394718	97394733	97394750	97394766
97394702	97394719	97394734	97394751	97394767
97394704	97394720	97394736	97394752	97394768
97394705	97394722	97394738	97394753	97394770
97394706	97394723	97394739	97394755	97394771
97394707	97394724	97394741	97394756	97394772
97394708	97394725	97394742	97394758	97394775
97394710	97394726	97394743	97394759	97394776
97394711	97394727	97394744	97394760	97394777
97394712	97394728	97394745	97394761	97394778
97394713	97394729	97394746	97394762	
97394714	97394730	97394747	97394763	

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USEPA SF
1079314

98-0015a.dvm
DCN 4000-019-036-AABA

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Data Qualifications

The following comments refer to the laboratory performance in meeting the quality control criteria described in the technical specifications of the laboratory subcontract. The review follows the format described in the *National Functional Guidelines for Organic Data Review* (EPA OSWER Directive 9240.1-05, February 1994).

1. Timeliness

All samples met holding time criteria except the following:

Sample Number	Fraction	Sampling Date	Extraction Date	Holding Time	QC Limit
97384968	BNA	9/21/97	10/15/97	24	14 days
97384970	BNA	9/21/97	10/15/97	24	14 days
97394700	BNA	9/21/97	10/15/97	24	14 days
97394702	BNA	9/21/97	10/15/97	24	14 days
97394704	BNA	9/21/97	10/15/97	24	14 days
97394705	BNA	9/21/97	10/15/97	24	14 days
97394706	BNA	9/21/97	10/15/97	24	14 days
97394707	BNA	9/21/97	10/15/97	24	14 days
97394708	BNA	9/21/97	10/15/97	24	14 days
97394710	BNA	9/21/97	10/15/97	24	14 days
97394711	BNA	9/22/97	10/15/97	23	14 days
97394712	BNA	9/22/97	10/15/97	23	14 days
97394713	BNA	9/22/97	10/15/97	23	14 days
97394714	BNA	9/22/97	10/15/97	23	14 days
97394715	BNA	9/22/97	10/15/97	23	14 days
97394716	BNA	9/22/97	10/15/97	23	14 days
97394718	BNA	9/22/97	10/15/97	23	14 days
97394719	BNA	9/22/97	10/15/97	23	14 days
97394720	BNA	9/22/97	10/15/97	23	14 days
97394722	BNA	9/22/97	10/15/97	23	14 days
97394723	BNA	9/22/97	10/15/97	23	14 days
97394724	BNA	9/22/97	10/15/97	23	14 days
97394725	BNA	9/22/97	10/15/97	23	14 days
97394726	BNA	9/22/97	10/15/97	23	14 days

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Sample Number	Fraction	Sampling Date	Extraction Date	Holding Time	QC Limit
97394727	BNA	9/22/97	10/15/97	23	14 days
97394728	BNA	9/22/97	10/15/97	23	14 days
97394729	BNA	9/22/97	10/15/97	23	14 days
97394730	BNA	9/22/97	10/15/97	23	14 days
97394731	BNA	9/22/97	10/15/97	23	14 days
97394732	BNA	9/23/97	10/15/97	22	14 days
97394733	BNA	9/23/97	10/15/97	22	14 days
97394734	BNA	9/23/97	10/15/97	22	14 days
97394736	BNA	9/23/97	10/15/97	22	14 days
97394738	BNA	9/23/97	10/15/97	22	14 days
97394739	BNA	9/23/97	10/15/97	22	14 days
97394741	BNA	9/23/97	10/15/97	22	14 days
97394742	BNA	9/23/97	10/15/97	22	14 days
97394743	BNA	9/23/97	10/15/97	22	14 days
97394744	BNA	9/23/97	10/15/97	22	14 days
97394745	BNA	9/23/97	10/15/97	22	14 days
97394746	BNA	9/23/97	10/15/97	22	14 days
97394747	BNA	9/23/97	10/15/97	22	14 days
97394748	BNA	9/23/97	10/15/97	22	14 days
97394749	BNA	9/23/97	10/15/97	22	14 days
97394750	BNA	9/23/97	10/15/97	22	14 days
97394751	BNA	9/23/97	10/15/97	22	14 days
97394752	BNA	9/23/97	10/15/97	22	14 days
97394753	BNA	9/23/97	10/15/97	22	14 days
97394755	BNA	9/23/97	10/15/97	22	14 days
97394756	BNA	9/23/97	10/15/97	22	14 days
97394758	BNA	9/24/97	10/15/97	21	14 days
97394759	BNA	9/24/97	10/15/97	21	14 days
97394760	BNA	9/24/97	10/15/97	21	14 days
97394761	BNA	9/24/97	10/15/97	21	14 days
97394762	BNA	9/24/97	10/15/97	21	14 days
97394763	BNA	9/24/97	10/15/97	21	14 days
97394764	BNA	9/24/97	10/15/97	21	14 days
97394765	BNA	9/24/97	10/15/97	21	14 days
97394766	BNA	9/24/97	10/15/97	21	14 days

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Sample Number	Fraction	Sampling Date	Extraction Date	Holding Time	QC Limit
97394767	BNA	9/24/97	10/15/97	21	14 days
97394768	BNA	9/24/97	10/15/97	21	14 days
97394770	BNA	9/24/97	10/15/97	21	14 days
97394771	BNA	9/24/97	10/15/97	21	14 days
97394772	BNA	9/24/97	10/15/97	21	14 days
97394775	BNA	9/24/97	10/15/97	21	14 days
97394776	BNA	9/24/97	10/15/97	21	14 days
97394777	BNA	9/24/97	10/15/97	21	14 days
97394778	BNA	9/24/97	10/15/97	21	14 days
97394700	Pest/PCB	9/21/97	10/15/97	24	14 days
97394702	Pest/PCB	9/21/97	10/15/97	24	14 days
97394704	Pest/PCB	9/21/97	10/15/97	24	14 days
97394705	Pest/PCB	9/21/97	10/15/97	24	14 days
97394706	Pest/PCB	9/21/97	10/15/97	24	14 days
97394707	Pest/PCB	9/21/97	10/28/97	37	14 days
97394708	Pest/PCB	9/21/97	10/15/97	24	14 days
97394710	Pest/PCB	9/21/97	10/15/97	24	14 days
97394711	Pest/PCB	9/22/97	10/15/97	23	14 days
97394712	Pest/PCB	9/22/97	10/15/97	23	14 days
97394713	Pest/PCB	9/22/97	10/28/97	36	14 days
97394714	Pest/PCB	9/22/97	10/15/97	23	14 days
97394716	Pest/PCB	9/22/97	10/15/97	23	14 days
97394719	Pest/PCB	9/22/97	10/15/97	23	14 days
97394720	Pest/PCB	9/22/97	10/15/97	23	14 days
97394722	Pest/PCB	9/22/97	10/15/97	23	14 days
97394723	Pest/PCB	9/22/97	10/15/97	23	14 days
97394724	Pest/PCB	9/22/97	10/15/97	23	14 days
97394729	Pest/PCB	9/22/97	10/15/97	23	14 days
97394730	Pest/PCB	9/22/97	10/15/97	23	14 days
97394732	Pest/PCB	9/23/97	10/15/97	22	14 days
97394734	Pest/PCB	9/23/97	10/15/97	22	14 days
97394736	Pest/PCB	9/23/97	10/15/97	22	14 days
97394738	Pest/PCB	9/23/97	10/15/97	22	14 days
97394739	Pest/PCB	9/23/97	10/15/97	22	14 days
97394750	Pest/PCB	9/23/97	10/15/97	22	14 days

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Sample Number	Fraction	Sampling Date	Extraction Date	Holding Time	QC Limit
97394751	Pest/PCB	9/23/97	10/15/97	22	14 days
97394753	Pest/PCB	9/23/97	10/15/97	22	14 days
97394756	Pest/PCB	9/23/97	10/15/97	22	14 days
97394758	Pest/PCB	9/24/97	10/15/97	21	14 days
97394760	Pest/PCB	9/24/97	11/11/97	48	14 days
97394765	Pest/PCB	9/24/97	10/15/97	21	14 days
97394766	Pest/PCB	9/24/97	10/15/97	21	14 days
97394777	Pest/PCB	9/24/97	10/15/97	21	14 days
97394778	Pest/PCB	9/24/97	10/15/97	21	14 days

Samples were stored at -18°C upon receipt by the laboratory and, thus, according to PSEP protocols, holding times may be extended to one year. No data were qualified.

2. GC/MS Instrument Performance Check

All tuning check compound mass abundances and ratios were within required limits.

3. Initial Calibration

All target compound list (TCL) analytes and system monitoring compounds were within required limits for the initial calibration with average relative response factors $\overline{RRF}$ greater than or equal to 0.05.

All target compound list (TCL) analytes and system monitoring compounds were within required limits for the initial calibration with $\overline{RRF}$ percent relative standard deviations (percent RSD) less than 30 percent except:

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Date	Fraction	Compound	Percent RSD	Associated Samples
10/16/97	BNA	2,4-Dinitrophenol	50.1	97384968, 97384970, 97394700, 97394702, 97394704, 97394705, 97394706, 97394707, 97394708, 97394710, 97394711, 97394712, 97394713, 97394714, 97394715, 97394716, 97394718, 97394719, 97394720, 97394722, 97394723, 97394724, 97394725, 97394726, 97394727, 97394729, 97394730, 97394731, 97394732, 97394733, 97394736

Results and quantitation limits for compounds associated with the above calibrations and samples have been qualified as estimated (J) as a high RSD is indicative of calibration nonlinearity.

4. Continuing Calibrations

All target compound list (TCL) analytes were within required limits for the continuing calibrations with average relative response factors $\overline{RRF}$ greater than or equal to 0.05.

All target compound list (TCL) analytes were within required limits for the continuing calibration with $\overline{RRF}$ percent differences less than 25 percent except:

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Date	Fraction	Compound	% Diff	Associated Samples
11/1/97	1303	2,2'-oxybis(1-Chloropropane)	49.4	97384968, 97394700,
		N-Nitroso-di-n-propylamine	27.8	97394702, 97394704,
		2-Nitroaniline	29.9	97394705, 97394706,
		2,4-Dinitrophenol	-35.2	97394707, 97394708,
		Nitrobenzene-d5 (surr)	28.8	97394710
		2,4,6-Tribromophenol (surr)	-31.1	
11/3/97	1210	2,2'-oxybis (1-Chloropropane)	51.3	97384970, 97394711,
		Benzoic Acid	-26.7	97394712
		2-Nitroaniline	36.8	
		2,4-Dinitrophenol	-32.8	
		Pentachlorophenol	-26.5	
		Nitrobenzene-d5 (surr)	28.0	
11/4/97	1130	2,2'-oxybis(1-Chloropropane)	54.2	97394713, 97394714,
		N-Nitroso-di-n-propylamine	28.2	97394715, 97394716,
		Benzoic Acid	-27.5	97394718, 97394719,
		2-Nitroaniline	29.6	97394720, 97394722,
		2,4-Dinitrophenol	-60.2	97394723, 97394724
		4-Nitrophenol	-25.2	
		Nitrobenzene-d5 (surr)	27.3	
		2,4,6-Tribromophenol (surr)	-29.7	
11/5/97	1140	2,2'-oxybis(1-Chloropropane)	47.3	97394725, 97394726,
		Nitrobenzene	26.2	97394727, 97394729,
		2-Nitroaniline	34.7	97394730, 97394731,
		Nitrobenzene-d5 (surr)	30.3	97394732, 97394736
11/12/97	1146	2,4-Dinitrophenol	-33.6	97394748, 97394750,
		4-Nitrophenol	-25.7	97394751, 97394752,
				97394753, 97394755,
				97394756, 97394759,
				97394760
11/20/97	1102	2-Fluorophenol (surr)	29.1	97394733, 97394741

Positive results for compounds associated with the above calibrations and samples have been qualified as estimated (J).

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5. Detection Limits—Acceptable

Laboratory reporting limits are equal to or less than project required quantitation limits.

6. Blanks

a. Laboratory Method Blanks

Laboratory method blank frequency criteria were met.

The following compounds were detected in laboratory method blanks.

Blank ID	Compound (RT)	Concen-tration	Associated Samples
Method Blank 11/1/97	1,1,2,2-Tetrachloroethane (6.3) Unknown (8.88)	47 JN 41 JN	97384968, 97394700, 97394702, 97394704, 97394705, 97394706, 97394707, 97394708, 97394710, 97384970, 97394711, 97394712, 97394713, 97394714, 97394715, 97394716, 97394718, 97394719, 97394720, 97394722
Method Blank 11/5/97	Unknown Freon (6.45) Unknown (9.03) Unknown (19.38)	24 JN 32 JN 24 JN	97394723, 97394724, 97394725, 97394726, 97394727, 97394729, 97394730, 97394731, 97394732, 97394736, 97394728, 97394734, 97394738, 97394739, 97394742, 97394743, 97394744, 97394745, 97394734DL, 97394727DL

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Blank ID	Compound (RT)	Concen-tration	Associated Samples
Method Blank 11/12/97	1,1,2,2-Tetrachloroethane (6.28) Unknown (8.85)	25 JN 26 JN	97394746, 97394747, 97394749, 97394748, 97394750, 97394751, 97394752, 97394753, 97394755, 97394756, 97394759, 97394760, 97394758, 97394761, 97394762, 97394763, 97394764, 97394766, 97394767, 97394768, 97394770, 97394771, 97394772, 97394775, 97394776, 97394777, 97394778, 97394765
Method Blank 11/20/97	1,1,2,2-Tetrachloroethane (6.22) Unknown (17.70)	62 JN 28 JN	97394733, 97394741

Reported levels of the above compounds were qualified as undetected with an adjusted quantitation limit (UJ) in samples if concentrations were less than five times concentrations present in the blank (ten times for common laboratory contaminants [e.g., phthalates]).

b. Field Blanks

No field blanks were associated with this SDG.

7. System Monitoring Compounds (Surrogates)

Surrogate compound percent recovery met quality control criteria for all samples except:

Sample	Fraction	Compound	Percent Recovery	QC Limits
97394745	BNA-acid	2,4,6-Tribromophenol	125	19-122

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Results and quantitation limits for samples listed above were qualified as estimated (J/UJ) if any two semivolatile surrogates were outside the recovery limits. No data qualification was required.

8. Matrix Spike and Matrix Spike Duplicate

Matrix spike (MS) or matrix spike duplicate (MSD) percent recovery for the following compounds were outside QC guidelines.

Sample	Fraction	Compound	Percent Recovery	QC Limits
97394713	BNA	Pentachlorophenol	15.8%	17-109%
97394748	BNA	Pentachlorophenol	0.0%	17-109%
LCS (97-18025)	BNA	N-Nitroso-di-n-propylamine	30.9%	41-126%
LCS (97-18045)	BNA	N-Nitroso-di-n-propylamine	36.8%	41-126%

Relative percent differences (RPD) between the MS and MSD percent recoveries exceeded QC guidelines for the following compounds:

Sample	Fraction	Compound	RPD	QC Limits
97394713	BNA	Pentachlorophenol	62	≤50%

No action was taken based solely on MS/MSD data, with the exception of sample 97394748 for pentachlorophenol. The sample result was qualified as rejected (R) due to the percent recovery being below 10%.

9. Field Duplicate Analysis

Samples 97394712/97394713, 97394729/97394730, 97394750/97394751, 97394765/97394766, and 97394777/97394778 were field duplicates. Results exhibited reasonable agreement, with the exception of the following:

Sample IDs	Compound	Original Conc.	Duplicate Conc.	RPD
97394750/51	4-Methylphenol	210	360	52.63

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Sample IDs	Compound	Original Conc.	Duplicate Conc.	RPD
97394729/30	Fluoranthene	300	170	55.32
	Pyrene	350	230	41.38
	Chrysene	190	130	37.50
97394777/78	Phenanthrene	120	200	50.00
97394712/13	4,4'-DDD	290	460	45.33

No action was taken since field duplicate results reflect field variability rather than laboratory performance.

10. Internal Standards Performance

Internal standard areas were within requirements of -50 percent to +100 percent of associated calibration internal standard areas. Retention time shifts for internal standards met requirements of less than 30 seconds.

11. GC/ECD Instrument Performance

a. Resolution Check Mixture

The resolution check mixture was analyzed at the proper frequency. Resolution (valley depth) between adjacent peaks was greater than 60 percent of the shorter peak.

b. Performance Evaluation Mixture

i. Frequency

Samples were analyzed at the proper frequency.

ii. Resolution

Resolution was greater than 90 percent for all adjacent peaks.

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iii. Retention Time Windows

Retention times of all pesticides were within windows calculated from the initial calibration.

iv. Pesticide Recovery

Recovery for all single component pesticides and surrogate compounds were within QC limits of 75 to 125 percent for both GC columns.

v. DDT/Endrin Breakdown

Percent breakdown for 4,4'-DDT and/or Endrin exceeded QC criteria of 20 percent for each compound or 30 percent for combined breakdown in the samples listed:

Date	Time	Compound	Percent Breakdown	Associated Samples
11/13/97	16:34	Combined DDT + Endrin % Breakdown	31.6	97394760RE

Positive results in associated samples for compounds listed above were qualified as estimated (J). Positive results for breakdown products were qualified as tentatively present with estimated concentration (NJ). If parent compounds listed above were not found, but breakdown products were detected, quantitation limits for compounds listed in the table above were rejected (R). Data qualification was not required because parent and breakdown products were not detected.

12. Pesticide Initial Calibration

a. Individual Standard Mixtures

Resolution between adjacent peaks for the initial calibration, mid level concentration was greater than 90 percent.

Retention time windows were calculated correctly.

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Appropriate standards concentrations were used and peak heights of 50 to 100 percent of full scale were obtained.

Calibration factor percent relative standard deviation (%RSD) exceeded QC criteria of 20 percent for pesticides and 30 percent for surrogates listed below:

Date	GC Column	Compound	% RSD	Associated Samples
11/11/97	DB-5	delta-BHC	21.9	None
		4,4'DDT	27.3	

Results and quantitation limits for analytes listed above have been qualified as estimated (J).

13. Pesticide Calibration Verification

Instrument blanks and PEM samples were analyzed at the proper frequency.

Resolution between adjacent peaks in individual pesticide mixtures exceeded 90 percent.

Pesticide standard peaks actual and calculated concentrations of individual pesticides was within QC criteria of ±25 percent.

The difference between actual and calculated concentrations of individual pesticides exceeded QC criteria of ±25 percent for the following pesticides:

Date	Time	GC Column	Compound	% Diff	Associated Samples
11/6/97	19:31	DB-608	alpha-Chlordane	-35	None
11/17/97	20:35	DB-5	delta-BHC	40	None
			Endosulfan sulfate	35	
			Endrin ketone	28	
11/17/97	20.35	DB-608	alpha-Chlordane	-30	None

No qualifiers were assigned.

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14. Pesticide Cleanup Checks

a. Florisil Cartridge Cleanup

Recovery for mixture A pesticides and surrogates were within QC limits of 80 to 120 percent. Recovery of 2,4,5-trichlorophenol was less than 5 percent as required.

b. Gel Permeation Cleanup (GPC)

All pesticides in the matrix spiking solution met recovery limits of 80 to 110 percent. Aroclor-1016 and 1260 patterns matched those of standards.

GPC blank concentrations did not exceed one-half the CRDL for any target analytes.

15. Sample Analysis

The following sample results exhibit greater than 35 percent difference (% D) between the primary and confirmation columns for pesticide analysis.

Sample	Compound	DB-5 Conc.	DB-608 Conc.	% D
97394700DL	4,4'-DDT	110	190	72.7
97394706DL	4,4'-DDT	550	370	48.6
97394710DL	4,4'-DDD	160	440	175
97394711DL	4,4'-DDD	16	27	68.8
97394712DL	4,4'-DDE	20	47	135
97394714DL	4,4'-DDD	410	710	73.2
97394729	4,4'-DDE	4.3	1.7	152.9
	4,4'-DDD	3.3	1.7	94.1
	Aroclor 1254	33	19	74
97394730DL	4,4'-DDD	170	97	75.3
	4,4'-DDT	83	53	56.6
97394750	4,4'-DDE	3.9	2.6	50
	4,4'-DDD	6.7	4.7	42.6

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Sample	Compound	DB-5 Conc.	DB-608 Conc.	% D
97394751	4,4'-DDE	2.4	1.4	71.4
	4,4'-DDD	4.7	1.9	147.4
	4,4'-DDT	2.8	1.8	55.6
97394758	4,4'-DDE	2.6	1.4	85.7
97394760	Aroclor 1260	110	61	80
97394765	4,4'-DDE	2.6	1.7	52.9
97394766	4,4'-DDE	2.5	1.6	56.2
	4,4'-DDT	2.3	1.5	53.3

The percent differences are not deemed significant at the reported concentrations. The lower concentration was reported for each analyte.

16. Laboratory Contact

No laboratory contact was required.

Data Assessment

Upon consideration of the data qualifications noted above, the data are ACCEPTABLE for use except where flagged with data qualifiers that modify the usefulness of the individual values.

Data Qualifiers

U - The compound was analyzed for, but was not detected.

UJ - The compound was analyzed for, but was not detected. The associated quantitation limit is an estimate because quality control criteria were not met.

J - The analyte was positively identified, but the associated numerical value is an estimated quantity because quality control criteria were not met or because concentrations reported are less than the quantitation limit or lowest calibration standard.

R - Quality control indicates that data are unusable (compound may or may not be present). Resampling and reanalysis are necessary for verification.

N - Presumptive evidence of presence of material (tentative identification).

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UI - The compound was analyzed for, but was not detected. The quantitation limit was increased due to matrix interferences.

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971A
LIMS ID: 97-18025
Matrix: Sediment
Data Release Authorized:
Reported: 11/19/97

Sample No: 9738 4968
WR-SD-SD102-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/21/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/01/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 48.2%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	**4-Methylphenol**	**210**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U J
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	96 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	Naphthalene	19 U
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	96 U
88-06-2	2,4,6-Trichlorophenol	96 U
95-95-4	2,4,5-Trichlorophenol	96 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	96 U J
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U
83-32-9	Acenaphthene	19 U
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	96 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	96 U

JMB 1/23/9

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971A
LIMS ID: 97-18025
Matrix: Sediment
Data Release Authorized: GMB
Reported: 11/19/97

Sample No: 9738 4968
WR-SD-SD102-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/21/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/01/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 48.2%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	96 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	Fluorene	19 U
100-01-6	4-Nitroaniline	96 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	96 U
85-01-8	Phenanthrene	19 U
86-74-8	Carbazole	19 U
120-12-7	Anthracene	19 U
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**26**
129-00-0	**Pyrene**	**34**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	96 U
56-55-3	Benzo(a)anthracene	19 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**130**
218-01-9	Chrysene	19 U
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	Benzo(b)fluoranthene	19 U
207-08-9	Benzo(k)fluoranthene	19 U
50-32-8	Benzo(a)pyrene	19 U
193-39-5	Indeno(1,2,3-cd)pyrene	19 U
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	Benzo(g,h,i)perylene	19 U

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	38.8%	d5-Phenol	41.6%
2-Fluorobiphenyl	44.1%	2-Fluorophenol	35.5%
d14-p-Terphenyl	54.0%	2,4,6-Tribromophenol	43.0%
d4-1,2-Dichlorobenzene	29.3%	d4-2-Chlorophenol	37.0%

FORM-1

JMB 1/23/10

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ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4968
WR-SD-SD102-0000

Lab Sample ID: T971A
LIMS ID: 97-18025
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/21/97
Date Received: 09/27/97

Data Release Authorized:
Reported: 11/19/97

Date Analyzed: 11/01/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	116-53-0	Butanoic_acid,_2-methyl-_	6.15	SVOA	560 JN
2.	--	Unknown	8.93	SVOA	1,100 JN
3.	103-82-2	Benzeneacetic_acid	14.27	SVOA	500 JN
4.	1002-84-2	Pentadecanoic_acid	23.05	SVOA	360 JN
5.	--	Unknown	23.18	SVOA	310 JN
6.	2091-29-4	9-Hexadecenoic_acid	24.62	SVOA	990 JN
7.	57-10-3	Hexadecanoic_acid	24.88	SVOA	850 JN
8.	--	Unknown	25.37	SVOA	200 JN
9.	112-80-1	Oleic_Acid	27.03	SVOA	1,200 JN
10.	57-11-4	Octadecanoic_acid	27.23	SVOA	330 JN
11.	--	Unknown_Alkyl_PNA	27.95	SVOA	330 JN
12.	--	Unknown	34.00	SVOA	640 JN
13.	--	Unknown	36.42	SVOA	1,500 JN
14.	57-88-5	Cholesterol	36.75	SVOA	1,400 JN
15.	--	Unknown	37.13	SVOA	590 JN
16.	4651-51-8	Ergost-5-en-3-ol,_(3.beta	37.60	SVOA	640 JN
17.	83-48-7	Stigmasterol	37.83	SVOA	410 JN
18.	83-47-6	.gamma.-Sitosterol	38.28	SVOA	4,500 JN
19.	--	Unknown	38.55	SVOA	840 JN
20.	--	Unknown	38.72	SVOA	910 JN

FORM-1-B

~~748~~ JMB 1/23/9

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971B
LIMS ID: 97-18026
Matrix: Sediment
Data Release Authorized:
Reported: 11/19/97

Sample No: 9738 4970
WR-SD-SD101-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/21/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/03/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 53.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 41.3%
pH: 7.2

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	**4-Methylphenol**	**360**
621-64-7	N-Nitroso-Di-N-Propylamine	38 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	94 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U J
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	57 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	Naphthalene	19 U
106-47-8	4-Chloroaniline	57 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	94 U
88-06-2	2,4,6-Trichlorophenol	94 U
95-95-4	2,4,5-Trichlorophenol	94 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	94 U J
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	110 U
83-32-9	Acenaphthene	19 U
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	94 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	94 U

FORM-1

~~788~~ gmB 1/23

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971B
LIMS ID: 97-18026
Matrix: Sediment
Data Release Authorized: ARP
Reported: 11/19/97

Sample No: 9738 4970
WR-SD-SD101-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/21/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/03/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 53.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 41.3%
pH: 7.2

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	94 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	Fluorene	19 U
100-01-6	4-Nitroaniline	94 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	94 U J
85-01-8	Phenanthrene	19 U
86-74-8	Carbazole	19 U
120-12-7	Anthracene	19 U
84-74-2	**Di-n-Butylphthalate**	**21** ~~M~~ N
206-44-0	**Fluoranthene**	**27**
129-00-0	**Pyrene**	**28**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	94 U
56-55-3	Benzo(a)anthracene	19 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**140**
218-01-9	**Chrysene**	**19**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	Benzo(b)fluoranthene	19 U
207-08-9	Benzo(k)fluoranthene	19 U
50-32-8	Benzo(a)pyrene	19 U
193-39-5	Indeno(1,2,3-cd)pyrene	19 U
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	Benzo(g,h,i)perylene	19 U

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	67.6%	d5-Phenol	69.5%
2-Fluorobiphenyl	75.3%	2-Fluorophenol	61.8%
d14-p-Terphenyl	82.0%	2,4,6-Tribromophenol	88.5%
d4-1,2-Dichlorobenzene	57.1%	d4-2-Chlorophenol	59.9%

FORM-1

~~789~~ JMB 11/23

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9738 4970
WR-SD-SD101-0000

Lab Sample ID: T971B
LIMS ID: 97-18026
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/21/97
Date Received: 09/27/97

Data Release Authorized: [illegible]
Reported: 11/19/97

Date Analyzed: 11/03/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	103-82-2	Benzeneacetic_acid	14.45	SVOA	850 JN
2.	143-07-7	Dodecanoic_acid	19.45	SVOA	300 JN
3.	--	Unknown	21.30	SVOA	200 JN
4.	544-63-8	Tetradecanoic_acid	22.32	SVOA	190 JN
5.	--	Unknown	23.22	SVOA	400 JN
6.	--	Unknown	24.47	SVOA	230 JN
7.	2091-29-4	9-Hexadecenoic_acid	24.77	SVOA	640 JN
8.	--	Unknown	25.52	SVOA	270 JN
9.	--	Unknown	26.73	SVOA	240 JN
10.	57-11-4	Octadecanoic_acid	27.38	SVOA	250 JN
11.	--	Unknown_Alkyl_PNA	28.13	SVOA	440 JN
12.	112-85-6	Docosanoic_acid	31.70	SVOA	260 JN
13.	--	Unknown_PNA_+_C.E.	32.62	SVOA	200 JN
14.	--	Unknown	33.67	SVOA	210 JN
15.	--	Unknown_Aldehyde	34.25	SVOA	560 JN
16.	--	Unknown_Aldehyde	36.05	SVOA	260 JN
17.	57-88-5	Cholesterol	36.93	SVOA	550 JN
18.	--	Unknown	37.32	SVOA	280 JN
19.	4651-51-8	Ergost-5-en-3-ol,_(3.beta	37.77	SVOA	470 JN
20.	83-47-6	.gamma.-Sitosterol	38.47	SVOA	2,600 JN

FORM-1-B

~~790~~ MB 11/23

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971C
LIMS ID: 97-18027
Matrix: Sediment
Data Release Authorized: [illegible]
Reported: 11/19/97

Sample No: 9739 4700
WR-SD-SD 080-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/21/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/01/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 52.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 48.0%
pH: 7.2

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	**4-Methylphenol**	**500**
621-64-7	N-Nitroso-Di-N-Propylamine	38 U J
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	96 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**31**
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	96 U
88-06-2	2,4,6-Trichlorophenol	96 U
95-95-4	2,4,5-Trichlorophenol	96 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	96 U J
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**32**
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	96 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	96 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971C
LIMS ID: 97-18027
Matrix: Sediment
Data Release Authorized: [illegible]
Reported: 11/19/97

Sample No: 9739 4700
WR-SD-SD080-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/21/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/01/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 52.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 48.0%
pH: 7.2

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	96 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**30**
100-01-6	4-Nitroaniline	96 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	96 U
85-01-8	**Phenanthrene**	**180**
86-74-8	Carbazole	19 U
120-12-7	**Anthracene**	**64**
84-74-2	**Di-n-Butylphthalate**	**21**
206-44-0	**Fluoranthene**	**310**
129-00-0	**Pyrene**	**390**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	96 U
56-55-3	**Benzo(a)anthracene**	**220**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**260**
218-01-9	**Chrysene**	**310**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**170**
207-08-9	**Benzo(k)fluoranthene**	**190**
50-32-8	**Benzo(a)pyrene**	**240**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**140**
53-70-3	**Dibenz(a,h)anthracene**	**34**
191-24-2	**Benzo(g,h,i)perylene**	**130**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	62.4%	d5-Phenol	56.6%
2-Fluorobiphenyl	63.5%	2-Fluorophenol	53.2%
d14-p-Terphenyl	61.2%	2,4,6-Tribromophenol	64.3%
d4-1,2-Dichlorobenzene	50.6%	d4-2-Chlorophenol	56.7%

FORM-1

JMB 1/23/98
833A

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4700
WR-SD-SD080-0000

Lab Sample ID: T971C
LIMS ID: 97-18027
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/21/97
Date Received: 09/27/97

Data Release Authorized: ayp
Reported: 11/19/97

Date Analyzed: 11/01/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	103-82-2	Benzeneacetic_acid	14.40	SVOA	1,200 JN
2.	1002-84-2	Pentadecanoic_acid	23.10	SVOA	600 JN
3.	--	Unknown	24.27	SVOA	580 JN
4.	--	Unknown	24.67	SVOA	1,300 JN
5.	--	Unknown	24.77	SVOA	1,100 JN
6.	--	Unknown	24.90	SVOA	2,000 JN
7.	--	Unknown	25.32	SVOA	710 JN
8.	--	Unknown	25.62	SVOA	650 JN
9.	--	Unknown	26.60	SVOA	680 JN
10.	112-80-1	Oleic_Acid	27.20	SVOA	1,200 JN
11.	--	Unknown_PNA_+_C.E.	28.38	SVOA	48,000 JN
12.	57-11-4	Octadecanoic_acid	29.55	SVOA	760 JN
13.	112-85-6	Docosanoic_acid	31.67	SVOA	2,000 JN
14.	--	Unknown	31.83	SVOA	1,100 JN
15.	--	Unknown	32.83	SVOA	3,100 JN
16.	--	Unknown	34.12	SVOA	1,100 JN
17.	57-88-5	Cholesterol	36.78	SVOA	1,100 JN
18.	--	Unknown	38.07	SVOA	1,400 JN
19.	83-47-6	.gamma.-Sitosterol	38.32	SVOA	4,800 JN
20.	--	Unknown	38.67	SVOA	700 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971D
LIMS ID: 97-18028
Matrix: Sediment
Data Release Authorized: RVB
Reported: 11/19/97

Sample No: 9739 4702
WR-SD- SD081-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/21/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/01/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 33.3%
pH: 7.1

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	40 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U J
106-44-5	**4-Methylphenol**	**200**
621-64-7	N-Nitroso-Di-N-Propylamine	40 U J
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	100 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	60 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	Naphthalene	20 U
106-47-8	4-Chloroaniline	60 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	40 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	100 U
88-06-2	2,4,6-Trichlorophenol	100 U
95-95-4	2,4,5-Trichlorophenol	100 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	100 U J
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U
83-32-9	Acenaphthene	20 U
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	100 U
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	100 U

FORM-1

gmB 1/23

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971D
LIMS ID: 97-18028
Matrix: Sediment
Data Release Authorized:
Reported: 11/19/97

Sample No: 9739 4702
WR-SD-SD081-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/21/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/01/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 33.3%
pH: 7.1

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	100 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	Fluorene	20 U
100-01-6	4-Nitroaniline	100 U
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	100 U
85-01-8	**Phenanthrene**	**45**
86-74-8	Carbazole	20 U
120-12-7	Anthracene	20 U
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**81**
129-00-0	**Pyrene**	**120**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	100 U
56-55-3	**Benzo(a)anthracene**	**46**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**210**
218-01-9	**Chrysene**	**71**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**54**
207-08-9	**Benzo(k)fluoranthene**	**63**
50-32-8	**Benzo(a)pyrene**	**79**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**63**
53-70-3	Dibenz(a,h)anthracene	20 U
191-24-2	**Benzo(g,h,i)perylene**	**61**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	56.6%	d5-Phenol	54.0%
2-Fluorobiphenyl	61.8%	2-Fluorophenol	54.3%
d14-p-Terphenyl	71.9%	2,4,6-Tribromophenol	69.6%
d4-1,2-Dichlorobenzene	49.4%	d4-2-Chlorophenol	53.3%

FORM-1

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JMB 11/23/9

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4702
WR-SD-SD081-0000

Lab Sample ID: T971D
LIMS ID: 97-18028
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/21/97
Date Received: 09/27/97

Data Release Authorized: ARB
Reported: 11/19/97

Date Analyzed: 11/01/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	116-53-0	Butanoic_acid,_2-methyl-_	6.03	SVOA	660 JN
2.	103-82-2	Benzeneacetic_acid_____	14.28	SVOA	590 JN
3.	143-07-7	Dodecanoic_acid_____	19.30	SVOA	310 JN
4.	544-63-8	Tetradecanoic_acid_____	22.17	SVOA	140 JN
5.	--	Unknown_____	23.05	SVOA	280 JN
6.	--	Unknown_____	23.17	SVOA	240 JN
7.	--	Unknown_____	24.32	SVOA	170 JN
8.	2091-29-4	9-Hexadecenoic_acid_____	24.60	SVOA	770 JN
9.	57-10-3	Hexadecanoic_acid_____	24.87	SVOA	670 JN
10.	--	Unknown_____	25.37	SVOA	140 JN
11.	--	Unknown_____	27.02	SVOA	340 JN
12.	57-11-4	Octadecanoic_acid_____	27.23	SVOA	150 JN
13.	--	Unknown_Alkyl_PNA_____	27.95	SVOA	130 JN
14.	50-29-3	Chlorophenothane_(DDT)___	29.45	SVOA	140 JN
15.	--	Unknown_Phthalate_____	29.82	SVOA	120 JN
16.	--	Unknown_Aldehyde_____	34.07	SVOA	410 JN
17.	--	Unknown_____	35.87	SVOA	180 JN
18.	57-88-5	Cholesterol_____	36.75	SVOA	190 JN
19.	83-47-6	.gamma.-Sitosterol_____	38.27	SVOA	1,300 JN
20.	--	Unknown_____	38.70	SVOA	380 JN

FORM-1-B

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gmB
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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971E
LIMS ID: 97-18029
Matrix: Sediment
Data Release Authorized: GMB
Reported: 11/19/97

Sample No: 9739 4704
WR-SD-SD083-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/21/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/01/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 53.1%
pH: 6.9

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	**4-Methylphenol**	**330**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U J
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	97 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**25**
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	97 U
88-06-2	2,4,6-Trichlorophenol	97 U
95-95-4	2,4,5-Trichlorophenol	97 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	97 U J
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**25**
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	97 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	97 U

FORM-1

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971E
LIMS ID: 97-18029
Matrix: Sediment
Data Release Authorized: BVB
Reported: 11/19/97

Sample No: 9739 4704
WR-SD-SD083-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/21/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/01/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 53.1%
pH: 6.9

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	97 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**29**
100-01-6	4-Nitroaniline	97 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	97 U
85-01-8	**Phenanthrene**	**170**
86-74-8	Carbazole	19 U
120-12-7	**Anthracene**	**51**
84-74-2	**Di-n-Butylphthalate**	**23**
206-44-0	**Fluoranthene**	**330**
129-00-0	**Pyrene**	**500**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	97 U
56-55-3	**Benzo(a)anthracene**	**180**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**480**
218-01-9	**Chrysene**	**300**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**230**
207-08-9	**Benzo(k)fluoranthene**	**150**
50-32-8	**Benzo(a)pyrene**	**240**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**150**
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	**Benzo(g,h,i)perylene**	**150**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	55.4%	d5-Phenol	53.1%
2-Fluorobiphenyl	58.6%	2-Fluorophenol	50.5%
d14-p-Terphenyl	83.9%	2,4,6-Tribromophenol	60.2%
d4-1,2-Dichlorobenzene	44.8%	d4-2-Chlorophenol	52.1%

FORM-1

00124

JMB 1/23/98

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4704
WR-SD-SD083-0000

Lab Sample ID: T971E
LIMS ID: 97-18029
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/21/97
Date Received: 09/27/97

Data Release Authorized: CWB
Reported: 11/19/97

Date Analyzed: 11/01/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	79-34-5	Ethane,_1,1,2,2-tetrachlo	6.32	SVOA	940 JN
2.	103-82-2	Benzeneacetic_acid	14.33	SVOA	990 JN
3.	544-63-8	Tetradecanoic_acid	22.22	SVOA	310 JN
4.	--	Unknown	23.08	SVOA	450 JN
5.	--	Unknown	23.75	SVOA	390 JN
6.	--	Unknown	24.40	SVOA	350 JN
7.	2091-29-4	9-Hexadecenoic_acid	24.68	SVOA	1,200 JN
8.	--	Unknown	25.15	SVOA	290 JN
9.	--	Unknown	26.60	SVOA	660 JN
10.	112-80-1	Oleic_Acid	27.08	SVOA	940 JN
11.	--	Unknown_Alkyl_PNA	28.02	SVOA	1,200 JN
12.	--	Methylpyrene_Isomer	28.25	SVOA	270 JN
13.	50-29-3	Chlorophenothane_(DDT)	29.50	SVOA	510 JN
14.	--	Unknown	31.85	SVOA	700 JN
15.	--	Unknown	32.30	SVOA	1,800 JN
16.	--	Unknown	33.58	SVOA	760 JN
17.	--	Unknown_Aldehyde	34.13	SVOA	1,400 JN
18.	--	Unknown	36.90	SVOA	2,200 JN
19.	83-47-6	.gamma.-Sitosterol	38.35	SVOA	5,200 JN
20.	--	Unknown	38.63	SVOA	390 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971F
LIMS ID: 97-18030
Matrix: Sediment
Data Release Authorized: SKB
Reported: 11/19/97

Sample No: 9739 4705
WR-SD- SD084-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/21/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/01/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 43.5%
pH: 7.1

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U J
106-44-5	**4-Methylphenol**	**330**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U J
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	98 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	Naphthalene	20 U
106-47-8	4-Chloroaniline	59 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	98 U
88-06-2	2,4,6-Trichlorophenol	98 U
95-95-4	2,4,5-Trichlorophenol	98 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	98 U J
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U
83-32-9	Acenaphthene	20 U
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	98 U
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	98 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971F
LIMS ID: 97-18030
Matrix: Sediment
Data Release Authorized: [illegible]
Reported: 11/19/97

Sample No: 9739 4705
WR-SD-SD084-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/21/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/01/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 43.5%
pH: 7.1

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	98 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	Fluorene	20 U
100-01-6	4-Nitroaniline	98 U
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	98 U
85-01-8	**Phenanthrene**	**71**
86-74-8	Carbazole	20 U
120-12-7	Anthracene	20 U
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**120**
129-00-0	**Pyrene**	**150**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	98 U
56-55-3	**Benzo(a)anthracene**	**66**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**140**
218-01-9	**Chrysene**	**92**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**59**
207-08-9	**Benzo(k)fluoranthene**	**64**
50-32-8	**Benzo(a)pyrene**	**68**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**46**
53-70-3	Dibenz(a,h)anthracene	20 U
191-24-2	**Benzo(g,h,i)perylene**	**42**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	37.7%	d5-Phenol	40.2%
2-Fluorobiphenyl	45.2%	2-Fluorophenol	38.2%
d14-p-Terphenyl	56.6%	2,4,6-Tribromophenol	45.2%
d4-1,2-Dichlorobenzene	27.8%	d4-2-Chlorophenol	38.4%

FORM-1

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4705
WR-SD-SD084-0000

Lab Sample ID: T971F
LIMS ID: 97-18030
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/21/97
Date Received: 09/27/97

Data Release Authorized: GWB
Reported: 11/19/97

Date Analyzed: 11/01/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	116-53-0	Butanoic_acid,_2-methyl-_	6.03	SVOA	430 JN
2.	--	Unknown	8.90	SVOA	500 JBN
3.	103-82-2	Benzeneacetic_acid	14.30	SVOA	610 JN
4.	143-07-7	Dodecanoic_acid	19.28	SVOA	240 JN
5.	544-63-8	Tetradecanoic_acid	22.18	SVOA	180 JN
6.	1002-84-2	Pentadecanoic_acid	23.07	SVOA	430 JN
7.	--	Unknown	23.52	SVOA	190 JN
8.	--	Unknown	24.35	SVOA	180 JN
9.	2091-29-4	9-Hexadecenoic_acid	24.62	SVOA	1,100 JN
10.	57-10-3	Hexadecanoic_acid	24.90	SVOA	1,200 JN
11.	--	Unknown	26.65	SVOA	170 JN
12.	112-80-1	Oleic_Acid	27.05	SVOA	1,000 JN
13.	57-11-4	Octadecanoic_acid	27.25	SVOA	320 JN
14.	--	Unknown_Alkyl_PNA	27.97	SVOA	200 JN
15.	--	Unknown	32.25	SVOA	310 JN
16.	--	Unknown_Aldehyde	34.08	SVOA	810 JN
17.	--	Unknown	35.88	SVOA	240 JN
18.	57-88-5	Cholesterol	36.77	SVOA	1,200 JN
19.	83-47-6	.gamma.-Sitosterol	38.30	SVOA	3,000 JN
20.	--	Unknown	38.57	SVOA	250 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971G
LIMS ID: 97-18031
Matrix: Sediment
Data Release Authorized: ans
Reported: 11/19/97

Sample No: 9739 4706
WR-SD-SD085-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/21/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/01/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 43.8%
pH: 7.2

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U J
106-44-5	**4-Methylphenol**	**42**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U J
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	98 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**22**
106-47-8	4-Chloroaniline	59 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	98 U
88-06-2	2,4,6-Trichlorophenol	98 U
95-95-4	2,4,5-Trichlorophenol	98 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	98 U J
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**21**
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	98 U
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	98 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971G
LIMS ID: 97-18031
Matrix: Sediment
Data Release Authorized:
Reported: 11/19/97

Sample No: 9739 4706
WR-SD-SD085-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/21/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/01/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 43.8%
pH: 7.2

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	98 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	Fluorene	20 U
100-01-6	4-Nitroaniline	98 U
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	**Hexachlorobenzene**	**19 J**
87-86-5	Pentachlorophenol	98 U
85-01-8	**Phenanthrene**	**110**
86-74-8	Carbazole	20 U
120-12-7	**Anthracene**	**67**
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**180**
129-00-0	**Pyrene**	**260**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	98 U
56-55-3	**Benzo(a)anthracene**	**120**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**370**
218-01-9	**Chrysene**	**160**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**120**
207-08-9	**Benzo(k)fluoranthene**	**110**
50-32-8	**Benzo(a)pyrene**	**140**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**95**
53-70-3	Dibenz(a,h)anthracene	20 U
191-24-2	**Benzo(g,h,i)perylene**	**88**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	49.4%	d5-Phenol	50.4%
2-Fluorobiphenyl	47.5%	2-Fluorophenol	49.5%
d14-p-Terphenyl	66.6%	2,4,6-Tribromophenol	57.4%
d4-1,2-Dichlorobenzene	37.8%	d4-2-Chlorophenol	49.5%

FORM-1

00130

JMB 1/23/10

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4706
WR-SD-SD085-0000

Lab Sample ID: T971G
LIMS ID: 97-18031
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/21/97
Date Received: 09/27/97

Data Release Authorized: ACB
Reported: 11/19/97

Date Analyzed: 11/01/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	116-53-0	Butanoic_acid,_2-methyl-_	6.15	SVOA	550 JN
2.	79-34-5	Ethane,_1,1,2,2-tetrachlo	6.32	SVOA	190 ~~JNB~~ R
3.	103-82-2	Benzeneacetic_acid_____	14.30	SVOA	670 JN
4.	--	Unknown_____	17.00	SVOA	140 JN
5.	--	Unknown_____	18.22	SVOA	120 JN
6.	--	Naphthalene,_1,2,3,4-_Iso	18.68	SVOA	150 JN
7.	--	Unknown_____	21.70	SVOA	86 JN
8.	1002-84-2	Pentadecanoic_acid_____	23.17	SVOA	210 JN
9.	--	Unknown_____	23.52	SVOA	100 JN
10.	2091-29-4	9-Hexadecenoic_acid_____	24.62	SVOA	280 JN
11.	--	Unknown_____	25.15	SVOA	130 JN
12.	--	Unknown_____	25.62	SVOA	86 JN
13.	--	Unknown_____	26.60	SVOA	180 JN
14.	--	Unknown_Alkyl_PNA_____	28.02	SVOA	530 JN
15.	--	Unknown_____	32.50	SVOA	430 JN
16.	--	Unknown_____	33.02	SVOA	100 JN
17.	--	Unknown_Aldehyde_____	34.13	SVOA	670 JN
18.	--	Unknown_____	35.92	SVOA	210 JN
19.	--	Unknown_____	38.42	SVOA	2,200 JN
20.	--	Unknown_____	38.62	SVOA	230 JN

FORM-1-B

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971H
LIMS ID: 97-18032
Matrix: Sediment
Data Release Authorized:
Reported: 11/19/97

Sample No: 9739 4707
WR-SD-SD087-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/21/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/01/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 44.4%
pH: 6.5

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	40 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U J
106-44-5	**4-Methylphenol**	**260**
621-64-7	N-Nitroso-Di-N-Propylamine	40 U J
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	100 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	60 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	Naphthalene	20 U
106-47-8	4-Chloroaniline	60 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	40 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	100 U
88-06-2	2,4,6-Trichlorophenol	100 U
95-95-4	2,4,5-Trichlorophenol	100 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	100 U J
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**23**
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	100 U
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	100 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971H
LIMS ID: 97-18032
Matrix: Sediment
Data Release Authorized: ART
Reported: 11/19/97

Sample No: 9739 4707
WR-SD- SD087-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/21/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/01/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 44.4%
pH: 6.5

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	100 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	**Fluorene**	**27**
100-01-6	4-Nitroaniline	100 U
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	100 U
85-01-8	**Phenanthrene**	**150**
86-74-8	Carbazole	20 U
120-12-7	**Anthracene**	**41**
84-74-2	**Di-n-Butylphthalate**	**39**
206-44-0	**Fluoranthene**	**290**
129-00-0	**Pyrene**	**320**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	100 U
56-55-3	**Benzo(a)anthracene**	**150**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**210**
218-01-9	**Chrysene**	**260**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**160**
207-08-9	**Benzo(k)fluoranthene**	**140**
50-32-8	**Benzo(a)pyrene**	**150**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**96**
53-70-3	Dibenz(a,h)anthracene	20 U
191-24-2	**Benzo(g,h,i)perylene**	**90**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	51.8%	d5-Phenol	47.1%
2-Fluorobiphenyl	48.9%	2-Fluorophenol	49.1%
d14-p-Terphenyl	63.3%	2,4,6-Tribromophenol	55.7%
d4-1,2-Dichlorobenzene	37.8%	d4-2-Chlorophenol	44.7%

FORM-1

JMB 1/23/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4707
WR-SD-SD087-0000

Lab Sample ID: T971H
LIMS ID: 97-18032
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/21/97
Date Received: 09/27/97

Data Release Authorized: WB
Reported: 11/19/97

Date Analyzed: 11/01/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	503-74-2	Butanoic_acid,_3-methyl-_	5.80	SVOA	360 JN
2.	--	Unknown	6.30	SVOA	930 JN
3.	103-82-2	Benzeneacetic_acid	14.35	SVOA	920 JN
4.	544-63-8	Tetradecanoic_acid	22.20	SVOA	150 JN
5.	1002-84-2	Pentadecanoic_acid	23.07	SVOA	290 JN
6.	--	Unknown	23.20	SVOA	370 JN
7.	--	Unknown	23.73	SVOA	150 JN
8.	57-10-3	Hexadecanoic_acid	24.37	SVOA	170 JN
9.	2091-29-4	9-Hexadecenoic_acid	24.63	SVOA	850 JN
10.	--	Unknown	25.38	SVOA	180 JN
11.	112-80-1	Oleic_Acid	27.05	SVOA	500 JN
12.	57-11-4	Octadecanoic_acid	27.25	SVOA	170 JN
13.	--	Unknown_Alkyl_PNA	27.98	SVOA	270 JN
14.	50-29-3	Chlorophenothane_(DDT)	29.48	SVOA	290 JN
15.	112-85-6	Docosanoic_acid	31.57	SVOA	160 JN
16.	--	Unknown	32.25	SVOA	240 JN
17.	--	Unknown	33.52	SVOA	150 JN
18.	56554-86-0	Octadecenal_Iso	34.10	SVOA	540 JN
19.	57-88-5	Cholesterol	36.78	SVOA	570 JN
20.	--	Unknown	38.38	SVOA	2,200 JN

FORM-1-B

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JME
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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971I
LIMS ID: 97-18033
Matrix: Sediment
Data Release Authorized: AMB
Reported: 11/19/97

Sample No: 9739 4708
WR-SD-SD088-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/21/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/02/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 46.0%
pH: 7.5

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	4-Methylphenol	19 U
621-64-7	N-Nitroso-Di-N-Propylamine	39 U J
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	97 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	Naphthalene	19 U
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	**2-Methylnaphthalene**	**22**
77-47-4	Hexachlorocyclopentadiene	97 U
88-06-2	2,4,6-Trichlorophenol	97 U
95-95-4	2,4,5-Trichlorophenol	97 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	97 U J
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**80**
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	97 U
132-64-9	**Dibenzofuran**	**36**
606-20-2	2,6-Dinitrotoluene	97 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971I
LIMS ID: 97-18033
Matrix: Sediment
Data Release Authorized: [illegible]
Reported: 11/19/97

Sample No: 9739 4708
WR-SD-SD088-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/21/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/02/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 46.0%
pH: 7.5

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	97 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**54**
100-01-6	4-Nitroaniline	97 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	25 ~~U~~ UJ
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	97 U
85-01-8	**Phenanthrene**	**350**
86-74-8	Carbazole	19 U
120-12-7	**Anthracene**	**47**
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**740**
129-00-0	**Pyrene**	**600**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	97 U
56-55-3	**Benzo(a)anthracene**	**220**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**270**
218-01-9	**Chrysene**	**310**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**180**
207-08-9	**Benzo(k)fluoranthene**	**170**
50-32-8	**Benzo(a)pyrene**	**150**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**82**
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	**Benzo(g,h,i)perylene**	**66**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	69.3%	d5-Phenol	57.9%
2-Fluorobiphenyl	60.9%	2-Fluorophenol	57.3%
d14-p-Terphenyl	64.2%	2,4,6-Tribromophenol	58.9%
d4-1,2-Dichlorobenzene	50.7%	d4-2-Chlorophenol	56.0%

FORM-1

JMB 1/23/9

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4708
WR-SD-SD088-0000

Lab Sample ID: T971I
LIMS ID: 97-18033
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/21/97
Date Received: 09/27/97

Data Release Authorized: MB
Reported: 11/19/97

Date Analyzed: 11/02/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	116-53-0	Butanoic_acid,_2-methyl-_	6.15	SVOA	280 JN
2.	103-82-2	Benzeneacetic_acid_____	14.28	SVOA	590 JN
3.	--	Unknown_____	17.00	SVOA	160 JN
4.	--	Unknown_____	21.43	SVOA	120 JN
5.	--	Unknown_____	21.57	SVOA	110 JN
6.	--	Unknown_____	23.17	SVOA	98 JN
7.	--	Unknown_____	23.53	SVOA	94 JN
8.	--	Unknown_____	24.60	SVOA	260 JN
9.	506-12-7	Heptadecanoic_acid_____	24.85	SVOA	260 JN
10.	--	Unknown_____	25.05	SVOA	140 JN
11.	--	Unknown_____	25.15	SVOA	590 JN
12.	--	Unknown_____	25.62	SVOA	86 JN
13.	10544-50-0	Sulfur,_mol._(S8)_____	25.87	SVOA	290 JN
14.	--	Unknown_____	26.60	SVOA	160 JN
15.	--	Unknown_PNA_+_C.E._____	27.98	SVOA	370 JN
16.	50-29-3	Chlorophenothane_(DDT)___	29.50	SVOA	620 JN
17.	--	Unknown_____	33.55	SVOA	210 JN
18.	--	Octadecenal_Iso_____	34.12	SVOA	600 JN
19.	--	Unknown_____	36.87	SVOA	300 JN
20.	--	Unknown_____	38.40	SVOA	2,200 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971J
LIMS ID: 97-18034
Matrix: Sediment
Data Release Authorized: [illegible]
Reported: 11/19/97

Sample No: 9739 4710
WR-SD-SD090-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/21/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/02/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 44.5%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	40 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U J
106-44-5	**4-Methylphenol**	**190**
621-64-7	N-Nitroso-Di-N-Propylamine	40 U J
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	100 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	60 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	Naphthalene	20 U
106-47-8	4-Chloroaniline	60 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	40 U
91-57-6	**2-Methylnaphthalene**	**24**
77-47-4	Hexachlorocyclopentadiene	100 U
88-06-2	2,4,6-Trichlorophenol	100 U
95-95-4	2,4,5-Trichlorophenol	100 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	100 U J
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**170**
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	100 U
132-64-9	**Dibenzofuran**	**100**
606-20-2	2,6-Dinitrotoluene	100 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS

Lab Sample ID: T971J
LIMS ID: 97-18034
Matrix: Sediment
Data Release Authorized:
Reported: 11/19/97

Sample No: 9739 4710
WR-SD-SD090-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/21/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/02/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 44.5%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	100 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	**Fluorene**	**160**
100-01-6	4-Nitroaniline	100 U
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	100 U
85-01-8	**Phenanthrene**	**710**
86-74-8	Carbazole	20 U
120-12-7	**Anthracene**	**77**
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**790**
129-00-0	**Pyrene**	**710**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	100 U
56-55-3	**Benzo(a)anthracene**	**310**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**170**
218-01-9	**Chrysene**	**330**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**210**
207-08-9	**Benzo(k)fluoranthene**	**200**
50-32-8	**Benzo(a)pyrene**	**180**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**95**
53-70-3	**Dibenz(a,h)anthracene**	**26**
191-24-2	**Benzo(g,h,i)perylene**	**76**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	52.6%	d5-Phenol	53.0%
2-Fluorobiphenyl	62.3%	2-Fluorophenol	50.6%
d14-p-Terphenyl	71.3%	2,4,6-Tribromophenol	65.7%
d4-1,2-Dichlorobenzene	40.6%	d4-2-Chlorophenol	51.1%

FORM-1

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4710
WR-SD-SD090-0000

Lab Sample ID: T971J
LIMS ID: 97-18034
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/21/97
Date Received: 09/27/97

Data Release Authorized: GMB
Reported: 11/19/97

Date Analyzed: 11/02/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	79-34-5	Ethane, 1,1,2,2-tetrachlo	6.30	SVOA	980 JN
2.	103-82-2	Benzeneacetic acid	14.35	SVOA	840 JN
3.	--	Unknown	23.05	SVOA	200 JN
4.	--	Unknown	23.17	SVOA	180 JN
5.	--	Unknown	24.08	SVOA	280 JN
6.	203-64-5	4H-Cyclopenta[def]phenant	24.32	SVOA	170 JN
7.	--	Unknown	24.60	SVOA	410 JN
8.	57-10-3	Hexadecanoic acid	24.87	SVOA	480 JN
9.	--	Unknown	25.37	SVOA	180 JN
10.	--	Unknown	27.02	SVOA	280 JN
11.	57-11-4	Octadecanoic acid	27.23	SVOA	170 JN
12.	--	Unknown Alkyl PNA	27.98	SVOA	320 JN
13.	--	Unknown	30.00	SVOA	340 JN
14.	--	Unknown	32.27	SVOA	160 JN
15.	--	Unknown PNA + C.E.	32.47	SVOA	220 JN
16.	--	Unknown Aldehyde	34.10	SVOA	560 JN
17.	--	Unknown Aldehyde	35.90	SVOA	320 JN
18.	57-88-5	Cholesterol	36.78	SVOA	600 JN
19.	--	Unknown	38.38	SVOA	2,200 JN
20.	--	Unknown	38.60	SVOA	340 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971K
LIMS ID: 97-18035
Matrix: Sediment
Data Release Authorized:
Reported: 11/19/97

Sample No: 9739 4711
WR-SD- SD093-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/03/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 48.5%
pH: 7.2

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	**4-Methylphenol**	**580**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	97 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U J
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	Naphthalene	19 U
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	97 U
88-06-2	2,4,6-Trichlorophenol	97 U
95-95-4	2,4,5-Trichlorophenol	97 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	97 U J
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U
83-32-9	Acenaphthene	19 U
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	97 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	97 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS

Lab Sample ID: T971K
LIMS ID: 97-18035
Matrix: Sediment
Data Release Authorized: [illegible]
Reported: 11/19/97

Sample No: 9739 4711
WR-SD-SD093-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/03/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 48.5%
pH: 7.2

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	97 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	Fluorene	19 U
100-01-6	4-Nitroaniline	97 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	97 U J
85-01-8	**Phenanthrene**	**43**
86-74-8	Carbazole	19 U
120-12-7	Anthracene	19 U
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**94**
129-00-0	**Pyrene**	**67**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	97 U
56-55-3	**Benzo(a)anthracene**	**37**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**200**
218-01-9	**Chrysene**	**59**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**46**
207-08-9	**Benzo(k)fluoranthene**	**37**
50-32-8	**Benzo(a)pyrene**	**42**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**33**
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	**Benzo(g,h,i)perylene**	**32**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	53.9%	d5-Phenol	57.5%
2-Fluorobiphenyl	63.0%	2-Fluorophenol	52.2%
d14-p-Terphenyl	68.8%	2,4,6-Tribromophenol	67.1%
d4-1,2-Dichlorobenzene	37.9%	d4-2-Chlorophenol	52.5%

FORM-1

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4711
WR-SD- SD093-0000

Lab Sample ID: T971K
LIMS ID: 97-18035
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Data Release Authorized:
Reported: 11/19/97

Date Analyzed: 11/03/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	116-53-0	Butanoic_acid,_2-methyl-_	6.70	SVOA	600 JN
2.	--	Unknown	9.05	SVOA	680 JBN
3.	103-82-2	Benzeneacetic_acid	14.52	SVOA	1,500 JN
4.	544-63-8	Tetradecanoic_acid	22.35	SVOA	250 JN
5.	1002-84-2	Pentadecanoic_acid	23.23	SVOA	530 JN
6.	--	Unknown	23.63	SVOA	360 JN
7.	--	Unknown	23.88	SVOA	280 JN
8.	--	Unknown_Organic_Acid	24.52	SVOA	270 JN
9.	2091-29-4	9-Hexadecenoic_acid	24.82	SVOA	1,900 JN
10.	57-10-3	Hexadecanoic_acid	25.08	SVOA	1,400 JN
11.	506-12-7	Heptadecanoic_acid	26.20	SVOA	230 JN
12.	112-80-1	Oleic_Acid	27.22	SVOA	1,000 JN
13.	57-11-4	Octadecanoic_acid	27.42	SVOA	280 JN
14.	112-85-6	Docosanoic_acid	31.72	SVOA	320 JN
15.	--	Unknown	32.43	SVOA	320 JN
16.	--	Unknown	32.63	SVOA	400 JN
17.	--	Unknown_Aldehyde	34.25	SVOA	1,100 JN
18.	--	Unknown_Aldehyde	36.07	SVOA	490 JN
19.	57-88-5	Cholesterol	36.95	SVOA	1,800 JN
20.	83-47-6	.gamma.-Sitosterol	38.48	SVOA	4,400 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971L
LIMS ID: 97-18036
Matrix: Sediment
Data Release Authorized:
Reported: 11/19/97

Sample No: 9739 4712
WR-SD-SD092-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/03/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 53.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 24.2%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	4-Methylphenol	19 U
621-64-7	N-Nitroso-Di-N-Propylamine	38 U
67-72-1	**Hexachloroethane**	**38**
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	94 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U J
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	56 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**42**
106-47-8	4-Chloroaniline	56 U
87-68-3	**Hexachlorobutadiene**	**270**
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	94 U
88-06-2	2,4,6-Trichlorophenol	94 U
95-95-4	2,4,5-Trichlorophenol	94 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	94 U J
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	110 U
83-32-9	**Acenaphthene**	**26**
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	94 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	94 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971L
LIMS ID: 97-18036
Matrix: Sediment
Data Release Authorized: CWB
Reported: 11/19/97

Sample No: 9739 4712
WR-SD-SD092-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/03/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 53.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 24.2%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	94 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**22**
100-01-6	4-Nitroaniline	94 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	94 U J
85-01-8	**Phenanthrene**	**180**
86-74-8	Carbazole	19 U
120-12-7	**Anthracene**	**24**
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**300**
129-00-0	**Pyrene**	**300**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	94 U
56-55-3	**Benzo(a)anthracene**	**120**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**21**
218-01-9	**Chrysene**	**170**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**150**
207-08-9	**Benzo(k)fluoranthene**	**110**
50-32-8	**Benzo(a)pyrene**	**150**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**120**
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	**Benzo(g,h,i)perylene**	**120**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	53.4%	d5-Phenol	51.0%
2-Fluorobiphenyl	57.4%	2-Fluorophenol	44.3%
d14-p-Terphenyl	67.2%	2,4,6-Tribromophenol	69.8%
d4-1,2-Dichlorobenzene	44.3%	d4-2-Chlorophenol	48.1%

FORM-1

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4712
WR-SD-SD092-0000

Lab Sample ID: T971L
LIMS ID: 97-18036
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Data Release Authorized: BMB
Reported: 11/19/97

Date Analyzed: 11/03/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown	19.17	SVOA	130 JN
2.	--	Unknown_Alkyl_PNA	24.25	SVOA	79 JN
3.	--	Unknown_PNA	24.47	SVOA	130 JN
4.	--	Unknown	24.70	SVOA	150 JN
5.	544-63-8	Tetradecanoic_acid	24.95	SVOA	230 JN
6.	--	Naphthalene,_Phenyl_Iso_+	25.17	SVOA	84 JN
7.	--	Unknown	25.75	SVOA	89 JN
8.	10544-50-0	Sulfur,_mol._(S8)	26.00	SVOA	160 JN
9.	--	Unknown	26.73	SVOA	99 JN
10.	--	Unknown_Chloro_Aro	27.40	SVOA	140 JN
11.	--	Unknown_Chloro_Aro	27.95	SVOA	180 JN
12.	--	Unknown_PNA	28.17	SVOA	1,200 JN
13.	--	Unknown_PNA_+_C.E.	28.33	SVOA	160 JN
14.	--	Unknown_Chloro_Aro	28.75	SVOA	360 JN
15.	--	Unknown_Chloro_Aro_+_C.E.	29.62	SVOA	190 JN
16.	112-85-6	Docosanoic_acid	31.73	SVOA	760 JN
17.	--	Unknown_Acid_Ester	31.95	SVOA	320 JN
18.	--	Unknown	32.95	SVOA	610 JN
19.	--	Unknown	33.70	SVOA	490 JN
20.	--	Unknown	35.75	SVOA	72 JN

FORM-1-B

JMB
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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971M
LIMS ID: 97-18037
Matrix: Sediment
Data Release Authorized: BWB
Reported: 11/19/97

Sample No: 9739 4713
WR-SD- SD092-1000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/04/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 22.3%
pH: 7.4

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	40 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U J
106-44-5	4-Methylphenol	20 U
621-64-7	N-Nitroso-Di-N-Propylamine	40 U J
67-72-1	**Hexachloroethane**	**37 J**
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	99 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U J
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**38**
106-47-8	4-Chloroaniline	59 U
87-68-3	**Hexachlorobutadiene**	**190**
59-50-7	4-Chloro-3-methylphenol	40 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	99 U
88-06-2	2,4,6-Trichlorophenol	99 U
95-95-4	2,4,5-Trichlorophenol	99 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	99 U J
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**34**
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	99 U J
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	99 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS

Lab Sample ID: T971M
LIMS ID: 97-18037
Matrix: Sediment
Data Release Authorized: CWP
Reported: 11/19/97

Sample No: 9739 4713
WR-SD-SD092-1000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/04/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 22.3%
pH: 7.4

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	99 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	**Fluorene**	**20**
100-01-6	4-Nitroaniline	~~99 U~~
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	99 U
85-01-8	**Phenanthrene**	**180**
86-74-8	Carbazole	20 U
120-12-7	**Anthracene**	**35**
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**320**
129-00-0	**Pyrene**	**360**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	99 U
56-55-3	**Benzo(a)anthracene**	**150**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**32**
218-01-9	**Chrysene**	**220**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**180**
207-08-9	**Benzo(k)fluoranthene**	**150**
50-32-8	**Benzo(a)pyrene**	**200**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**150**
53-70-3	Dibenz(a,h)anthracene	20 U
191-24-2	**Benzo(g,h,i)perylene**	**160**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	63.2%	d5-Phenol	63.7%
2-Fluorobiphenyl	69.0%	2-Fluorophenol	55.6%
d14-p-Terphenyl	64.7%	2,4,6-Tribromophenol	65.2%
d4-1,2-Dichlorobenzene	58.2%	d4-2-Chlorophenol	59.2%

FORM-1

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4713
WR-SD-SD092-1000

Lab Sample ID: T971M
LIMS ID: 97-18037
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Data Release Authorized: BMB
Reported: 11/19/97

Date Analyzed: 11/04/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown	20.03	SVOA	240 JN
2.	--	Unknown	21.42	SVOA	240 JN
3.	--	Unknown_PNA_+_C.E.	24.53	SVOA	180 JN
4.	57-10-3	Hexadecanoic_acid	25.00	SVOA	320 JN
5.	10544-50-0	Sulfur,_mol._(S8)	26.12	SVOA	480 JN
6.	--	Unknown	26.80	SVOA	240 JN
7.	112-80-1	Oleic_Acid	27.17	SVOA	280 JN
8.	--	Unknown_Chloro_Aro_+_C.E.	27.48	SVOA	230 JN
9.	--	Unknown_Chloro_Aro	28.02	SVOA	180 JN
10.	--	Unknown_Alkyl_Aromatic	28.25	SVOA	2,000 JN
11.	--	Unknown_PNA_+_C.E.	28.40	SVOA	160 JN
12.	--	Unknown_Chloro_Aro	28.82	SVOA	390 JN
13.	--	Unknown_Chloro_Aro_+_C.E.	29.68	SVOA	410 JN
14.	--	Unknown_Alcohol	31.02	SVOA	1,700 JN
15.	112-85-6	Docosanoic_acid	31.82	SVOA	1,300 JN
16.	--	Unknown_Acid_Ester	32.02	SVOA	320 JN
17.	--	Unknown	33.03	SVOA	1,600 JN
18.	--	Unknown_Organic_Acid	33.80	SVOA	1,600 JN
19.	--	Unknown_PNA	34.72	SVOA	240 JN
20.	83-47-6	.gamma.-Sitosterol	38.52	SVOA	690 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971N
LIMS ID: 97-18038
Matrix: Sediment
Data Release Authorized: GMB
Reported: 11/19/97

Sample No: 9739 4714
WR-SD- SD097-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/04/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 43.8%
pH: 7.0

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U J
106-44-5	4-Methylphenol	20 U
621-64-7	N-Nitroso-Di-N-Propylamine	39 U J
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	99 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U J
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	Naphthalene	20 U
106-47-8	4-Chloroaniline	59 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	**2-Methylnaphthalene**	**29**
77-47-4	Hexachlorocyclopentadiene	99 U
88-06-2	2,4,6-Trichlorophenol	99 U
95-95-4	2,4,5-Trichlorophenol	99 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	99 U J
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**19 J**
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	99 U J
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	99 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS

Lab Sample ID: T971N
LIMS ID: 97-18038
Matrix: Sediment
Data Release Authorized:
Reported: 11/19/97

Sample No: 9739 4714
WR-SD-SD097-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/04/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 43.8%
pH: 7.0

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	99 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	**Fluorene**	**19 J**
100-01-6	4-Nitroaniline	99 U
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	99 U
85-01-8	**Phenanthrene**	**87**
86-74-8	Carbazole	20 U
120-12-7	Anthracene	20 U
84-74-2	**Di-n-Butylphthalate**	**180**
206-44-0	**Fluoranthene**	**110**
129-00-0	**Pyrene**	**130**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	99 U
56-55-3	**Benzo(a)anthracene**	**49**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**440**
218-01-9	**Chrysene**	**73**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**60**
207-08-9	**Benzo(k)fluoranthene**	**41**
50-32-8	**Benzo(a)pyrene**	**56**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**43**
53-70-3	Dibenz(a,h)anthracene	20 U
191-24-2	**Benzo(g,h,i)perylene**	**50**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	56.9%	d5-Phenol	65.7%
2-Fluorobiphenyl	67.9%	2-Fluorophenol	54.0%
d14-p-Terphenyl	72.0%	2,4,6-Tribromophenol	71.1%
d4-1,2-Dichlorobenzene	49.8%	d4-2-Chlorophenol	58.6%

FORM-1

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4714
WR-SD-SD097-0000

Lab Sample ID: T971N
LIMS ID: 97-18038
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Data Release Authorized: AWS
Reported: 11/19/97

Date Analyzed: 11/04/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	116-53-0	Butanoic_acid,_2-methyl-_	5.97	SVOA	280 JN
2.	103-82-2	Benzeneacetic_acid	14.32	SVOA	160 JN
3.	--	Unknown_PNA_+_C.E.	19.50	SVOA	100 JN
4.	544-63-8	Tetradecanoic_acid	22.35	SVOA	72 JN
5.	--	Unknown_Organic_Acid	23.22	SVOA	110 JN
6.	--	Unknown	23.70	SVOA	130 JN
7.	--	Unknown	23.93	SVOA	84 JN
8.	--	Unknown	24.52	SVOA	75 JN
9.	2091-29-4	9-Hexadecenoic_acid	24.80	SVOA	450 JN
10.	--	Unknown	25.82	SVOA	96 JN
11.	112-80-1	Oleic_Acid	27.17	SVOA	280 JN
12.	57-11-4	Octadecanoic_acid	27.45	SVOA	250 JN
13.	--	Unknown_Chloro_Aro	28.00	SVOA	85 JN
14.	--	Unknown_Alkyl_PNA	28.20	SVOA	170 JN
15.	--	Unknown_Chloro_Aro	28.82	SVOA	690 JN
16.	--	Unknown_Chloro_Aro	29.73	SVOA	1,600 JN
17.	--	Unknown	30.30	SVOA	60 JN
18.	112-85-6	Docosanoic_acid	31.77	SVOA	120 JN
19.	--	Unknown	34.25	SVOA	290 JN
20.	57-88-5	Cholesterol	37.02	SVOA	440 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T9710
LIMS ID: 97-18039
Matrix: Sediment
Data Release Authorized: BP
Reported: 11/19/97

Sample No: 9739 4715
WR-SD-SD100-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/04/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 35.8%
pH: 7.9

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	**4-Methylphenol**	**250**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U J
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	97 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U J
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	Naphthalene	19 U
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	97 U
88-06-2	2,4,6-Trichlorophenol	97 U
95-95-4	2,4,5-Trichlorophenol	97 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	97 U J
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U
83-32-9	Acenaphthene	19 U
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	97 U J
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	97 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T9710
LIMS ID: 97-18039
Matrix: Sediment
Data Release Authorized: OWB
Reported: 11/19/97

Sample No: 9739 4715
WR-SD-SD100-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/04/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 35.8%
pH: 7.9

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	97 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	Fluorene	19 U
100-01-6	4-Nitroaniline	97 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	97 U
85-01-8	**Phenanthrene**	**39**
86-74-8	Carbazole	19 U
120-12-7	Anthracene	19 U
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**59**
129-00-0	**Pyrene**	**72**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	97 U
56-55-3	**Benzo(a)anthracene**	**28**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**68**
218-01-9	**Chrysene**	**40**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**30**
207-08-9	**Benzo(k)fluoranthene**	**27**
50-32-8	**Benzo(a)pyrene**	**36**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**31**
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	**Benzo(g,h,i)perylene**	**33**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	63.4%	d5-Phenol	70.3%
2-Fluorobiphenyl	63.6%	2-Fluorophenol	68.0%
d14-p-Terphenyl	70.6%	2,4,6-Tribromophenol	70.3%
d4-1,2-Dichlorobenzene	59.5%	d4-2-Chlorophenol	66.8%

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4715
WR-SD-SD100-0000

Lab Sample ID: T9710
LIMS ID: 97-18039
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Data Release Authorized: GWB
Reported: 11/19/97

Date Analyzed: 11/04/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	116-53-0	Butanoic_acid,_2-methyl-_	6.20	SVOA	490 JN
2.	103-82-2	Benzeneacetic_acid_____	14.42	SVOA	380 JN
3.	501-52-0	Benzenepropanoic_acid____	15.87	SVOA	210 JN
4.	544-63-8	Tetradecanoic_acid_____	22.37	SVOA	130 JN
5.	--	Unknown_____	23.27	SVOA	270 JN
6.	--	Unknown_Organic_Acid_____	23.72	SVOA	120 JN
7.	--	Unknown_____	23.93	SVOA	100 JN
8.	--	Unknown_Organic_Acid_____	24.53	SVOA	180 JN
9.	2091-29-4	9-Hexadecenoic_acid_____	24.83	SVOA	810 JN
10.	57-10-3	Hexadecanoic_acid_____	25.12	SVOA	1,200 JN
11.	--	Unknown_____	25.58	SVOA	180 JN
12.	--	Unknown_Organic_Acid_____	25.82	SVOA	110 JN
13.	7704-34-9	Sulfur_____	26.12	SVOA	410 JN
14.	--	Unknown_____	26.80	SVOA	210 JN
15.	--	Unknown_Alkyl_PNA_____	28.20	SVOA	180 JN
16.	--	Unknown_Chloro_Aro_+_C.E.	29.68	SVOA	170 JN
17.	112-85-6	Docosanoic_acid_____	31.77	SVOA	190 JN
18.	--	Unknown_____	36.68	SVOA	240 JN
19.	57-88-5	Cholesterol_____	37.02	SVOA	500 JN
20.	83-47-6	.gamma.-Sitosterol_____	38.55	SVOA	2,600 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971P
LIMS ID: 97-18040
Matrix: Sediment
Data Release Authorized: BNA
Reported: 11/19/97

Sample No: 9739 4716
WR-SD-SD106-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/04/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 43.8%
pH: 6.9

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U J
106-44-5	**4-Methylphenol**	**260**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U J
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	98 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U J
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	Naphthalene	20 U
106-47-8	4-Chloroaniline	59 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	98 U
88-06-2	2,4,6-Trichlorophenol	98 U
95-95-4	2,4,5-Trichlorophenol	98 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	98 U J
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U
83-32-9	Acenaphthene	20 U
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	98 U J
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	98 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS

Lab Sample ID: T971P
LIMS ID: 97-18040
Matrix: Sediment
Data Release Authorized: ARP
Reported: 11/19/97

Sample No: 9739 4716
WR-SD-SD106-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/04/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 43.8%
pH: 6.9

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	98 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	Fluorene	20 U
100-01-6	4-Nitroaniline	98 U
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	98 U
85-01-8	**Phenanthrene**	**23**
86-74-8	Carbazole	20 U
120-12-7	Anthracene	20 U
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**28**
129-00-0	**Pyrene**	**34**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	98 U
56-55-3	Benzo(a)anthracene	20 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**100**
218-01-9	**Chrysene**	**24**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**20**
207-08-9	Benzo(k)fluoranthene	20 U
50-32-8	**Benzo(a)pyrene**	**19 J**
193-39-5	Indeno(1,2,3-cd)pyrene	20 U
53-70-3	Dibenz(a,h)anthracene	20 U
191-24-2	Benzo(g,h,i)perylene	20 U

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	48.8%	d5-Phenol	51.9%
2-Fluorobiphenyl	50.8%	2-Fluorophenol	42.0%
d14-p-Terphenyl	61.0%	2,4,6-Tribromophenol	61.2%
d4-1,2-Dichlorobenzene	39.2%	d4-2-Chlorophenol	45.7%

FORM-1

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4716
WR-SD-SD106-0000

Lab Sample ID: T971P
LIMS ID: 97-18040
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Data Release Authorized: DWB
Reported: 11/19/97

Date Analyzed: 11/04/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	116-53-0	Butanoic_acid,_2-methyl-_	6.33	SVOA	530 JN
2.	103-82-2	Benzeneacetic_acid_____	14.45	SVOA	510 JN
3.	544-63-8	Tetradecanoic_acid_____	22.42	SVOA	210 JN
4.	1002-84-2	Pentadecanoic_acid_____	23.30	SVOA	460 JN
5.	--	Unknown_____	23.43	SVOA	420 JN
6.	--	Unknown_____	23.75	SVOA	240 JN
7.	--	Unknown_____	23.95	SVOA	260 JN
8.	57-10-3	Hexadecanoic_acid_____	24.58	SVOA	260 JN
9.	2091-29-4	9-Hexadecenoic_acid_____	24.87	SVOA	1,500 JN
10.	57-10-3	Hexadecanoic_acid_____	25.15	SVOA	1,200 JN
11.	--	Unknown_____	25.62	SVOA	280 JN
12.	10544-50-0	Sulfur,_mol._(S8)_____	26.12	SVOA	410 JN
13.	112-80-1	Oleic_Acid_____	27.30	SVOA	1,600 JN
14.	544-63-8	Tetradecanoic_acid_____	27.48	SVOA	350 JN
15.	--	Unknown_PNA_+_C.E._____	32.72	SVOA	240 JN
16.	--	Unknown_Aldehyde_____	34.32	SVOA	430 JN
17.	57-88-5	Cholesterol_____	37.03	SVOA	1,000 JN
18.	--	Unknown_____	37.40	SVOA	550 JN
19.	4651-51-8	Ergost-5-en-3-ol,_(3.beta	37.85	SVOA	520 JN
20.	83-47-6	.gamma.-Sitosterol_____	38.57	SVOA	3,400 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971Q
LIMS ID: 97-18041
Matrix: Sediment
Data Release Authorized:
Reported: 11/19/97

Sample No: 9739 4718
WR-SD-SD108-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/04/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 46.6%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U J
106-44-5	**4-Methylphenol**	**480**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U J
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	98 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U J
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	Naphthalene	20 U
106-47-8	4-Chloroaniline	59 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	98 U
88-06-2	2,4,6-Trichlorophenol	98 U
95-95-4	2,4,5-Trichlorophenol	98 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	98 U J
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U
83-32-9	Acenaphthene	20 U
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	98 U J
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	98 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971Q
LIMS ID: 97-18041
Matrix: Sediment
Data Release Authorized: GMP
Reported: 11/19/97

Sample No: 9739 4718
WR-SD-SD108-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/04/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 46.6%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	98 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	Fluorene	20 U
100-01-6	4-Nitroaniline	98 U
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	98 U
85-01-8	**Phenanthrene**	**22**
86-74-8	Carbazole	20 U
120-12-7	Anthracene	20 U
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**28**
129-00-0	**Pyrene**	**34**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	98 U
56-55-3	Benzo(a)anthracene	20 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**190**
218-01-9	**Chrysene**	**21**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	Benzo(b)fluoranthene	20 U
207-08-9	Benzo(k)fluoranthene	20 U
50-32-8	Benzo(a)pyrene	20 U
193-39-5	Indeno(1,2,3-cd)pyrene	20 U
53-70-3	Dibenz(a,h)anthracene	20 U
191-24-2	Benzo(g,h,i)perylene	20 U

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	55.7%	d5-Phenol	51.4%
2-Fluorobiphenyl	54.8%	2-Fluorophenol	46.7%
d14-p-Terphenyl	57.0%	2,4,6-Tribromophenol	51.0%
d4-1,2-Dichlorobenzene	44.2%	d4-2-Chlorophenol	47.7%

FORM-1

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4718
WR-SD-SD108-0000

Lab Sample ID: T971Q
LIMS ID: 97-18041
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Data Release Authorized: ONP
Reported: 11/19/97

Date Analyzed: 11/04/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown Organic Acid	6.55	SVOA	860 JN
2.	--	Unknown	9.15	SVOA	1,000 JN
3.	103-82-2	Benzeneacetic acid	14.55	SVOA	900 JN
4.	544-63-8	Tetradecanoic acid	22.43	SVOA	310 JN
5.	1002-84-2	Pentadecanoic acid	23.32	SVOA	620 JN
6.	--	Unknown	23.47	SVOA	590 JN
7.	--	Unknown Organic Acid	24.60	SVOA	290 JN
8.	2091-29-4	9-Hexadecenoic acid	24.92	SVOA	1,400 JN
9.	57-10-3	Hexadecanoic acid	25.18	SVOA	1,700 JN
10.	--	Unknown	25.65	SVOA	390 JN
11.	10544-50-0	Sulfur, mol. (S8)	26.12	SVOA	390 JN
12.	112-80-1	Oleic Acid	27.28	SVOA	1,900 JN
13.	57-11-4	Octadecanoic acid	27.52	SVOA	400 JN
14.	--	Unknown Alkyl PNA	28.22	SVOA	270 JN
15.	--	Unknown	34.27	SVOA	670 JN
16.	--	Unknown	36.80	SVOA	300 JN
17.	--	Coprostan-3-one	37.02	SVOA	570 JN
18.	--	Unknown	37.40	SVOA	400 JN
19.	--	Unknown	38.50	SVOA	800 JN
20.	--	Unknown	38.62	SVOA	790 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971R
LIMS ID: 97-18042
Matrix: Sediment
Data Release Authorized: BWP
Reported: 11/19/97

Sample No: 9739 4719
WR-SD- SD111- 0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/04/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 49.7%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	40 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U J
106-44-5	**4-Methylphenol**	**480**
621-64-7	N-Nitroso-Di-N-Propylamine	40 U J
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	99 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U J
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	60 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	Naphthalene	20 U
106-47-8	4-Chloroaniline	60 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	40 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	99 U
88-06-2	2,4,6-Trichlorophenol	99 U
95-95-4	2,4,5-Trichlorophenol	99 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	99 U J
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U
83-32-9	Acenaphthene	20 U
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	99 U J
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	99 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971R
LIMS ID: 97-18042
Matrix: Sediment
Data Release Authorized:
Reported: 11/19/97

Sample No: 9739 4719
WR-SD-SD111-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/04/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 49.7%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	99 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	Fluorene	20 U
100-01-6	4-Nitroaniline	99 U
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	99 U
85-01-8	**Phenanthrene**	**29**
86-74-8	Carbazole	20 U
120-12-7	Anthracene	20 U
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**44**
129-00-0	**Pyrene**	**48**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	99 U
56-55-3	**Benzo(a)anthracene**	**21**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**140**
218-01-9	**Chrysene**	**31**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**19 J**
207-08-9	**Benzo(k)fluoranthene**	**20**
50-32-8	**Benzo(a)pyrene**	**26**
193-39-5	Indeno(1,2,3-cd)pyrene	20 U
53-70-3	Dibenz(a,h)anthracene	20 U
191-24-2	**Benzo(g,h,i)perylene**	**19 J**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	57.5%	d5-Phenol	58.6%
2-Fluorobiphenyl	42.5%	2-Fluorophenol	47.6%
d14-p-Terphenyl	53.6%	2,4,6-Tribromophenol	46.6%
d4-1,2-Dichlorobenzene	45.3%	d4-2-Chlorophenol	48.0%

FORM-1

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4719
WR-SD-SD111-0000

Lab Sample ID: T971R
LIMS ID: 97-18042
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Data Release Authorized: BWB
Reported: 11/19/97

Date Analyzed: 11/04/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown	9.13	SVOA	1,000 JN
2.	103-82-2	Benzeneacetic_acid	14.53	SVOA	1,000 JN
3.	544-63-8	Tetradecanoic_acid	22.43	SVOA	310 JN
4.	1002-84-2	Pentadecanoic_acid	23.33	SVOA	670 JN
5.	--	Unknown	23.47	SVOA	670 JN
6.	--	Unknown	24.92	SVOA	2,100 JN
7.	57-10-3	Hexadecanoic_acid	25.18	SVOA	1,700 JN
8.	10544-50-0	Sulfur,_mol._(S8)	26.13	SVOA	530 JN
9.	--	Unknown	26.82	SVOA	380 JN
10.	112-80-1	Oleic_Acid	27.32	SVOA	1,900 JN
11.	57-11-4	Octadecanoic_acid	27.50	SVOA	500 JN
12.	--	Unknown_Alkyl_PNA	28.22	SVOA	340 JN
13.	--	Unknown	32.52	SVOA	340 JN
14.	--	Unknown_PNA_+_C.E.	32.73	SVOA	360 JN
15.	--	Unknown	34.27	SVOA	760 JN
16.	--	Unknown	36.72	SVOA	490 JN
17.	57-88-5	Cholesterol	37.05	SVOA	1,000 JN
18.	--	Unknown	37.40	SVOA	960 JN
19.	4651-51-8	Ergost-5-en-3-ol,_(3.beta	37.87	SVOA	400 JN
20.	--	Unknown	38.63	SVOA	2,800 JN

FORM-1-B

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971S
LIMS ID: 97-18043
Matrix: Sediment
Data Release Authorized: GWJ
Reported: 11/19/97

Sample No: 9739 4720
WR-SD-SD116-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/04/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 46.7%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U J
106-44-5	**4-Methylphenol**	**490**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U J
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	99 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U J
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	Naphthalene	20 U
106-47-8	4-Chloroaniline	59 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	99 U
88-06-2	2,4,6-Trichlorophenol	99 U
95-95-4	2,4,5-Trichlorophenol	99 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	99 U J
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U
83-32-9	Acenaphthene	20 U
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	99 U J
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	99 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971S
LIMS ID: 97-18043
Matrix: Sediment
Data Release Authorized: RNB
Reported: 11/19/97

Sample No: 9739 4720
WR-SD-SD116-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/04/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 46.7%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	99 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	Fluorene	20 U
100-01-6	4-Nitroaniline	99 U
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	99 U
85-01-8	**Phenanthrene**	**27**
86-74-8	Carbazole	20 U
120-12-7	Anthracene	20 U
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**30**
129-00-0	**Pyrene**	**35**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	99 U
56-55-3	Benzo(a)anthracene	20 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**130**
218-01-9	**Chrysene**	**20**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	Benzo(b)fluoranthene	20 U
207-08-9	Benzo(k)fluoranthene	20 U
50-32-8	**Benzo(a)pyrene**	**20 J**
193-39-5	Indeno(1,2,3-cd)pyrene	20 U
53-70-3	Dibenz(a,h)anthracene	20 U
191-24-2	Benzo(g,h,i)perylene	20 U

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	51.5%	d5-Phenol	53.0%
2-Fluorobiphenyl	51.1%	2-Fluorophenol	48.5%
d14-p-Terphenyl	58.1%	2,4,6-Tribromophenol	55.7%
d4-1,2-Dichlorobenzene	42.0%	d4-2-Chlorophenol	50.1%

FORM-1

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4720
WR-SD-SD116-0000

Lab Sample ID: T971S
LIMS ID: 97-18043
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Data Release Authorized: ONB
Reported: 11/19/97

Date Analyzed: 11/04/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid	6.52	SVOA	1,000 JN
2.	103-82-2	Benzeneacetic_acid	14.53	SVOA	1,100 JN
3.	544-63-8	Tetradecanoic_acid	22.42	SVOA	340 JN
4.	1002-84-2	Pentadecanoic_acid	23.32	SVOA	660 JN
5.	--	Unknown_Organic_Acid	23.43	SVOA	600 JN
6.	--	Unknown	23.70	SVOA	290 JN
7.	57-10-3	Hexadecanoic_acid	24.58	SVOA	260 JN
8.	--	Unknown	24.88	SVOA	2,200 JN
9.	--	Unknown	25.17	SVOA	1,800 JN
10.	--	Unknown	25.62	SVOA	320 JN
11.	112-80-1	Oleic_Acid	27.30	SVOA	1,700 JN
12.	57-11-4	Octadecanoic_acid	27.48	SVOA	410 JN
13.	--	Unknown_Alkyl_PNA	28.22	SVOA	310 JN
14.	--	Unknown_PNA_+_C.E.	32.70	SVOA	230 JN
15.	--	Unknown	34.25	SVOA	710 JN
16.	--	Unknown	36.72	SVOA	480 JN
17.	57-88-5	Cholesterol	37.05	SVOA	1,000 JN
18.	--	Coprostan-3-one	37.38	SVOA	550 JN
19.	4651-51-8	Ergost-5-en-3-ol,_(3.beta	37.87	SVOA	430 JN
20.	--	Unknown	38.62	SVOA	2,300 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971T
LIMS ID: 97-18044
Matrix: Sediment
Data Release Authorized: CWB
Reported: 11/19/97

Sample No: 9739 4722
WR-SD-SD119-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/04/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.5 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 48.6%
pH: 7.1

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	**4-Methylphenol**	**500**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U J
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	97 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U J
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	Naphthalene	19 U
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	97 U
88-06-2	2,4,6-Trichlorophenol	97 U
95-95-4	2,4,5-Trichlorophenol	97 U
91-58-7	2-Chloronaphthalene	19 U ~~J~~
88-74-4	2-Nitroaniline	97 U J
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U
83-32-9	Acenaphthene	19 U
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	97 U J
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	97 U

JMB

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971T
LIMS ID: 97-18044
Matrix: Sediment
Data Release Authorized: MB
Reported: 11/19/97

Sample No: 9739 4722
WR-SD-SD119-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/04/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.5 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 48.6%
pH: 7.1

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	97 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	Fluorene	19 U
100-01-6	4-Nitroaniline	97 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	97 U
85-01-8	**Phenanthrene**	**28**
86-74-8	Carbazole	19 U
120-12-7	Anthracene	19 U
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**39**
129-00-0	**Pyrene**	**54**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	97 U
56-55-3	**Benzo(a)anthracene**	**19 J**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**130**
218-01-9	**Chrysene**	**28**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**22**
207-08-9	**Benzo(k)fluoranthene**	**18 J**
50-32-8	**Benzo(a)pyrene**	**23**
193-39-5	Indeno(1,2,3-cd)pyrene	19 U
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	**Benzo(g,h,i)perylene**	**22**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	52.3%	d5-Phenol	51.6%
2-Fluorobiphenyl	59.1%	2-Fluorophenol	47.7%
d14-p-Terphenyl	64.8%	2,4,6-Tribromophenol	65.2%
d4-1,2-Dichlorobenzene	40.8%	d4-2-Chlorophenol	49.1%

FORM-1

MB 1/23/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4722
WR-SD-SD119-0000

Lab Sample ID: T971T
LIMS ID: 97-18044
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Data Release Authorized: LNB
Reported: 11/19/97

Date Analyzed: 11/04/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	116-53-0	Butanoic_acid,_2-methyl-_	6.73	SVOA	640 JN
2.	103-82-2	Benzeneacetic_acid_____	14.57	SVOA	1,300 JN
3.	544-63-8	Tetradecanoic_acid_____	22.43	SVOA	360 JN
4.	1002-84-2	Pentadecanoic_acid_____	23.32	SVOA	700 JN
5.	--	Unknown_____	23.45	SVOA	690 JN
6.	--	Unknown_Organic_Acid_____	23.77	SVOA	290 JN
7.	87-51-4	Indoleacetic_acid_____	24.25	SVOA	200 JN
8.	--	Unknown_Organic_Acid_____	24.58	SVOA	300 JN
9.	--	Unknown_____	24.90	SVOA	2,500 JN
10.	57-10-3	Hexadecanoic_acid_____	25.18	SVOA	1,900 JN
11.	--	Unknown_____	26.15	SVOA	330 JN
12.	112-80-1	Oleic_Acid_____	27.32	SVOA	1,900 JN
13.	57-11-4	Octadecanoic_acid_____	27.50	SVOA	500 JN
14.	--	Unknown_Alkyl_PNA_____	28.22	SVOA	240 JN
15.	--	Unknown_____	32.52	SVOA	220 JN
16.	--	Unknown_PNA_+_C.E._____	32.72	SVOA	260 JN
17.	--	Unknown_____	36.73	SVOA	430 JN
18.	57-88-5	Cholesterol_____	37.05	SVOA	960 JN
19.	--	Unknown_____	37.40	SVOA	790 JN
20.	--	Unknown_____	38.62	SVOA	2,300 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971U
LIMS ID: 97-18045
Matrix: Sediment
Data Release Authorized: AWS
Reported: 11/19/97

Sample No: 9739 4723
WR-SD-SD122-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/04/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 52.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 52.5%
pH: 7.2

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	**4-Methylphenol**	**690**
621-64-7	N-Nitroso-Di-N-Propylamine	38 U J
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	95 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U J
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	57 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	Naphthalene	19 U
106-47-8	4-Chloroaniline	57 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	95 U
88-06-2	2,4,6-Trichlorophenol	95 U
95-95-4	2,4,5-Trichlorophenol	95 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	95 U J
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	110 U
83-32-9	Acenaphthene	19 U
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	95 U J
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	95 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971U
LIMS ID: 97-18045
Matrix: Sediment
Data Release Authorized: RJB
Reported: 11/19/97

Sample No: 9739 4723
WR-SD-SD122-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/04/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 52.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 52.5%
pH: 7.2

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	95 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	Fluorene	19 U
100-01-6	4-Nitroaniline	95 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	95 U
85-01-8	**Phenanthrene**	**31**
86-74-8	Carbazole	19 U
120-12-7	Anthracene	19 U
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**46**
129-00-0	**Pyrene**	**53**
85-68-7	**Butylbenzylphthalate**	**24**
91-94-1	3,3'-Dichlorobenzidine	95 U
56-55-3	**Benzo(a)anthracene**	**19**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**250**
218-01-9	**Chrysene**	**30**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**26**
207-08-9	**Benzo(k)fluoranthene**	**20**
50-32-8	**Benzo(a)pyrene**	**25**
193-39-5	Indeno(1,2,3-cd)pyrene	19 U
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	**Benzo(g,h,i)perylene**	**18 J**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	51.0%	d5-Phenol	52.4%
2-Fluorobiphenyl	56.2%	2-Fluorophenol	47.9%
d14-p-Terphenyl	62.9%	2,4,6-Tribromophenol	62.9%
d4-1,2-Dichlorobenzene	44.8%	d4-2-Chlorophenol	46.7%

FORM-1

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4723
WR-SD-SD122-0000

Lab Sample ID: T971U
LIMS ID: 97-18045
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Data Release Authorized: BOB
Reported: 11/19/97

Date Analyzed: 11/04/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	116-53-0	Butanoic_acid,_2-methyl-_	6.98	SVOA	1,300 JN
2.	103-82-2	Benzeneacetic_acid_____	14.65	SVOA	1,500 JN
3.	544-63-8	Tetradecanoic_acid_____	22.47	SVOA	390 JN
4.	1002-84-2	Pentadecanoic_acid_____	23.37	SVOA	820 JN
5.	--	Unknown_Organic_Acid_____	23.50	SVOA	690 JN
6.	--	Unknown_____	23.95	SVOA	240 JN
7.	--	Unknown_Organic_Acid_____	24.65	SVOA	250 JN
8.	--	Unknown_____	24.97	SVOA	2,000 JN
9.	57-10-3	Hexadecanoic_acid_____	25.23	SVOA	1,900 JN
10.	--	Unknown_____	25.68	SVOA	440 JN
11.	10544-50-0	Sulfur,_mol._(S8)_____	26.13	SVOA	620 JN
12.	--	Unknown_____	26.83	SVOA	230 JN
13.	112-80-1	Oleic_Acid_____	27.37	SVOA	2,400 JN
14.	57-11-4	Octadecanoic_acid_____	27.55	SVOA	570 JN
15.	--	Unknown_Alkyl_PNA_____	28.23	SVOA	300 JN
16.	--	Unknown_____	34.28	SVOA	820 JN
17.	--	Unknown_____	36.75	SVOA	520 JN
18.	57-88-5	Cholesterol_____	37.08	SVOA	710 JN
19.	--	Unknown_____	37.42	SVOA	800 JN
20.	--	Unknown_____	38.65	SVOA	2,600 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971V
LIMS ID: 97-18046
Matrix: Sediment
Data Release Authorized: GMB
Reported: 11/19/97

Sample No: 9739 4724
WR-SD-SD121-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/04/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 43.9%
pH: 7.2

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U J
106-44-5	**4-Methylphenol**	**460**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U J
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	99 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U J
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	Naphthalene	20 U
106-47-8	4-Chloroaniline	59 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	99 U
88-06-2	2,4,6-Trichlorophenol	99 U
95-95-4	2,4,5-Trichlorophenol	99 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	99 U J
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U
83-32-9	Acenaphthene	20 U
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	99 U J
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	99 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971V
LIMS ID: 97-18046
Matrix: Sediment
Data Release Authorized: RWB
Reported: 11/19/97

Sample No: 9739 4724
WR-SD-SD121-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/04/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 43.9%
pH: 7.2

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	99 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	Fluorene	20 U
100-01-6	4-Nitroaniline	99 U
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	99 U
85-01-8	**Phenanthrene**	**22**
86-74-8	Carbazole	20 U
120-12-7	Anthracene	20 U
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**30**
129-00-0	**Pyrene**	**36**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	99 U
56-55-3	Benzo(a)anthracene	20 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**110**
218-01-9	**Chrysene**	**22**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	Benzo(b)fluoranthene	20 U
207-08-9	Benzo(k)fluoranthene	20 U
50-32-8	**Benzo(a)pyrene**	**22**
193-39-5	Indeno(1,2,3-cd)pyrene	20 U
53-70-3	Dibenz(a,h)anthracene	20 U
191-24-2	Benzo(g,h,i)perylene	20 U

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	61.8%	d5-Phenol	61.5%
2-Fluorobiphenyl	61.2%	2-Fluorophenol	60.3%
d14-p-Terphenyl	70.2%	2,4,6-Tribromophenol	64.2%
d4-1,2-Dichlorobenzene	53.8%	d4-2-Chlorophenol	62.1%

FORM-1

JMB 1/23/98
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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4724
WR-SD-SD121-0000

Lab Sample ID: T971V
LIMS ID: 97-18046
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Data Release Authorized: ANB
Reported: 11/19/97

Date Analyzed: 11/04/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	79-34-5	Ethane,_1,1,2,2-tetrachlo	6.53	SVOA	460 JN
2.	103-82-2	Benzeneacetic_acid_____	14.55	SVOA	870 JN
3.	544-63-8	Tetradecanoic_acid_____	22.42	SVOA	250 JN
4.	1002-84-2	Pentadecanoic_acid_____	23.30	SVOA	400 JN
5.	--	Unknown_Organic_Acid_____	23.42	SVOA	360 JN
6.	--	Unknown_Organic_Acid_____	24.60	SVOA	140 JN
7.	--	Unknown_____	24.87	SVOA	1,200 JN
8.	57-10-3	Hexadecanoic_acid_____	25.12	SVOA	840 JN
9.	10544-50-0	Sulfur,_mol._(S8)_____	26.10	SVOA	210 JN
10.	112-80-1	Oleic_Acid_____	27.28	SVOA	800 JN
11.	57-11-4	Octadecanoic_acid_____	27.48	SVOA	250 JN
12.	--	Unknown_Alkyl_PNA_____	28.22	SVOA	180 JN
13.	--	Unknown_____	32.40	SVOA	160 JN
14.	--	Unknown_PNA_+_C.E._____	32.72	SVOA	160 JN
15.	--	Unknown_____	33.25	SVOA	330 JN
16.	--	Unknown_____	34.32	SVOA	340 JN
17.	--	Unknown_____	36.78	SVOA	300 JN
18.	--	Unknown_Sterol_____	37.02	SVOA	200 JN
19.	--	Coprostan-3-one_____	37.40	SVOA	340 JN
20.	--	Unknown_____	38.62	SVOA	1,700 JN

FORM-1-B

1822
JMB 1/23/9

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971W
LIMS ID: 97-18047
Matrix: Sediment
Data Release Authorized: GAB
Reported: 11/20/97

Sample No: 9739 4725
WR-SD-SD129-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/05/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 52.9%
pH: 7.2

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	**4-Methylphenol**	**1,100**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U J
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	96 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**62**
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	**2-Methylnaphthalene**	**26**
77-47-4	Hexachlorocyclopentadiene	96 U
88-06-2	2,4,6-Trichlorophenol	96 U
95-95-4	2,4,5-Trichlorophenol	96 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	96 U J
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**33**
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	96 U
132-64-9	**Dibenzofuran**	**20**
606-20-2	2,6-Dinitrotoluene	96 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971W
LIMS ID: 97-18047
Matrix: Sediment
Data Release Authorized: BNB
Reported: 11/20/97

Sample No: 9739 4725
WR-SD-SD129-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/05/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 52.9%
pH: 7.2

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	96 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**38**
100-01-6	4-Nitroaniline	96 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	96 U
85-01-8	**Phenanthrene**	**250**
86-74-8	**Carbazole**	**25** ~~J~~ N
120-12-7	**Anthracene**	**50**
84-74-2	**Di-n-Butylphthalate**	**51**
206-44-0	**Fluoranthene**	**570**
129-00-0	**Pyrene**	**510**
85-68-7	**Butylbenzylphthalate**	**74**
91-94-1	3,3'-Dichlorobenzidine	96 U
56-55-3	**Benzo(a)anthracene**	**160**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**760**
218-01-9	**Chrysene**	**320**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**230**
207-08-9	**Benzo(k)fluoranthene**	**180**
50-32-8	**Benzo(a)pyrene**	**210**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**130**
53-70-3	**Dibenz(a,h)anthracene**	**34**
191-24-2	**Benzo(g,h,i)perylene**	**130**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	47.8%	d5-Phenol	52.9%
2-Fluorobiphenyl	47.1%	2-Fluorophenol	42.4%
d14-p-Terphenyl	57.0%	2,4,6-Tribromophenol	70.5%
d4-1,2-Dichlorobenzene	38.2%	d4-2-Chlorophenol	44.9%

FORM-1

JMB 1865
1/23/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4725
WR-SD-SD129-0000

Lab Sample ID: T971W
LIMS ID: 97-18047
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Data Release Authorized:
Reported: 11/20/97

Date Analyzed: 11/05/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	116-53-0	Butanoic_acid,_2-methyl-_	6.93	SVOA	1,600 JN
2.	103-82-2	Benzeneacetic_acid	14.60	SVOA	1,700 JN
3.	1002-84-2	Pentadecanoic_acid	23.30	SVOA	1,500 JN
4.	--	Unknown	24.92	SVOA	6,000 JN
5.	57-10-3	Hexadecanoic_acid	25.18	SVOA	4,200 JN
6.	--	Unknown	25.62	SVOA	1,100 JN
7.	10544-50-0	Sulfur,_mol._(S8)	26.08	SVOA	2,100 JN
8.	112-80-1	Oleic_Acid	27.23	SVOA	4,000 JN
9.	57-11-4	Octadecanoic_acid	27.47	SVOA	1,200 JN
10.	--	Unknown_Alkyl_PNA	28.17	SVOA	1,300 JN
11.	112-85-6	Docosanoic_acid	31.77	SVOA	990 JN
12.	--	Unknown	32.67	SVOA	820 JN
13.	--	Unknown	34.22	SVOA	2,600 JN
14.	--	Unknown_PNA_+_C.E.	34.67	SVOA	1,200 JN
15.	--	Unknown	35.95	SVOA	1,100 JN
16.	57-88-5	Cholesterol	37.00	SVOA	2,300 JN
17.	--	Unknown	37.07	SVOA	1,300 JN
18.	--	Unknown	37.17	SVOA	1,100 JN
19.	83-47-6	.gamma.-Sitosterol	38.50	SVOA	6,400 JN
20.	--	Unknown	38.80	SVOA	870 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971X
LIMS ID: 97-18048
Matrix: Sediment
Data Release Authorized: BNB
Reported: 11/20/97

Sample No: 9739 4726
WR-SD-SD134-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/05/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 59.9%
pH: 7.1

CAS Number	Analyte	ug/kg
108-95-2	**Phenol**	**55**
111-44-4	Bis-(2-Chloroethyl) Ether	40 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U J
106-44-5	**4-Methylphenol**	**780**
621-64-7	N-Nitroso-Di-N-Propylamine	40 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U J
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	100 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	60 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**23**
106-47-8	4-Chloroaniline	60 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	40 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	100 U
88-06-2	2,4,6-Trichlorophenol	100 U
95-95-4	2,4,5-Trichlorophenol	100 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	100 U J
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**21**
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	100 U
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	100 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971X
LIMS ID: 97-18048
Matrix: Sediment
Data Release Authorized: [illegible]
Reported: 11/20/97

Sample No: 9739 4726
WR-SD-SD134-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/05/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 59.9%
pH: 7.1

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	100 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	**Fluorene**	**26**
100-01-6	4-Nitroaniline	100 U
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	100 U
85-01-8	**Phenanthrene**	**200**
86-74-8	Carbazole	20 U
120-12-7	**Anthracene**	**47**
84-74-2	**Di-n-Butylphthalate**	**43** ~~U~~ N
206-44-0	**Fluoranthene**	**330**
129-00-0	**Pyrene**	**300**
85-68-7	**Butylbenzylphthalate**	**30**
91-94-1	3,3'-Dichlorobenzidine	100 U
56-55-3	**Benzo(a)anthracene**	**130**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**1,300**
218-01-9	**Chrysene**	**200**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**140**
207-08-9	**Benzo(k)fluoranthene**	**130**
50-32-8	**Benzo(a)pyrene**	**140**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**84**
53-70-3	**Dibenz(a,h)anthracene**	**24**
191-24-2	**Benzo(g,h,i)perylene**	**59**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	40.3%	d5-Phenol	46.2%
2-Fluorobiphenyl	44.4%	2-Fluorophenol	38.6%
d14-p-Terphenyl	52.9%	2,4,6-Tribromophenol	54.1%
d4-1,2-Dichlorobenzene	38.2%	d4-2-Chlorophenol	42.5%

FORM-1

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ANALYTICAL
RESOURCES
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ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4726
WR-SD-SD134-0000

Lab Sample ID: T971X
LIMS ID: 97-18048
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Data Release Authorized: BNB
Reported: 11/20/97

Date Analyzed: 11/05/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid	6.43	SVOA	1,900 JN
2.	116-53-0	Butanoic_acid,_2-methyl-_	6.83	SVOA	1,400 JN
3.	103-82-2	Benzeneacetic_acid	14.52	SVOA	1,200 JN
4.	544-63-8	Tetradecanoic_acid	22.40	SVOA	540 JN
5.	1002-84-2	Pentadecanoic_acid	23.28	SVOA	950 JN
6.	--	Unknown	23.42	SVOA	770 JN
7.	--	Unknown	23.63	SVOA	380 JN
8.	--	Unknown	24.90	SVOA	3,300 JN
9.	57-10-3	Hexadecanoic_acid	25.15	SVOA	2,300 JN
10.	--	Unknown	27.25	SVOA	1,700 JN
11.	57-11-4	Octadecanoic_acid	27.45	SVOA	520 JN
12.	--	Unknown	28.12	SVOA	360 JN
13.	--	Unknown	28.42	SVOA	390 JN
14.	506-30-9	Eicosanoic_acid	29.67	SVOA	320 JN
15.	112-85-6	Docosanoic_acid	31.75	SVOA	490 JN
16.	--	Unknown_PNA_+_C.E.	32.67	SVOA	330 JN
17.	--	Unknown	34.22	SVOA	1,100 JN
18.	57-88-5	Cholesterol	36.98	SVOA	1,500 JN
19.	--	Sitosterol_Iso	38.48	SVOA	1,200 JN
20.	--	Unknown	38.78	SVOA	420 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971Y
LIMS ID: 97-18049
Matrix: Sediment
Data Release Authorized: DKP
Reported: 11/20/97

Sample No: 9739 4727
WR-SD-SD136-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/05/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 52.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 26.0%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	**4-Methylphenol**	**380**
621-64-7	N-Nitroso-Di-N-Propylamine	38 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U J
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	96 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	Naphthalene	19 U
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	96 U
88-06-2	2,4,6-Trichlorophenol	96 U
95-95-4	2,4,5-Trichlorophenol	96 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	96 U J
131-11-3	**Dimethylphthalate**	**19 J**
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U
83-32-9	Acenaphthene	19 U
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	96 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	96 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971Y
LIMS ID: 97-18049
Matrix: Sediment
Data Release Authorized: GVP
Reported: 11/20/97

Sample No: 9739 4727
WR-SD- SD136-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/05/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 52.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 26.0%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	96 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	Fluorene	19 U
100-01-6	4-Nitroaniline	96 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	96 U
85-01-8	**Phenanthrene**	**110**
86-74-8	Carbazole	19 U
120-12-7	**Anthracene**	**19**
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**240**
129-00-0	**Pyrene**	**220**
85-68-7	**Butylbenzylphthalate**	**62**
91-94-1	3,3'-Dichlorobenzidine	96 U
56-55-3	**Benzo(a)anthracene**	**69**
117-81-7	**bis(2-Ethylhexyl)phthalate**	~~1,900 E~~ 2100 D
218-01-9	**Chrysene**	**130**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**110**
207-08-9	**Benzo(k)fluoranthene**	**74**
50-32-8	**Benzo(a)pyrene**	**85**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**48**
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	**Benzo(g,h,i)perylene**	**49**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	53.0%	d5-Phenol	58.1%
2-Fluorobiphenyl	58.4%	2-Fluorophenol	52.6%
d14-p-Terphenyl	67.4%	2,4,6-Tribromophenol	79.2%
d4-1,2-Dichlorobenzene	48.0%	d4-2-Chlorophenol	53.4%

FORM-1

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ANALYTICAL
RESOURCES
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ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4727
WR-SD-SD136-0000

Lab Sample ID: T971Y
LIMS ID: 97-18049
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Data Release Authorized: OMB
Reported: 11/20/97

Date Analyzed: 11/05/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown	21.70	SVOA	520 JN
2.	--	Unknown	22.00	SVOA	570 JN
3.	--	Unknown_Organic_Acid	22.37	SVOA	890 JN
4.	--	Unknown	23.23	SVOA	700 JN
5.	--	Unknown	23.37	SVOA	680 JN
6.	--	Unknown	23.67	SVOA	600 JN
7.	--	Unknown	24.83	SVOA	1,900 JN
8.	--	Unknown_Organic_Acid	25.13	SVOA	2,400 JN
9.	--	Unknown	26.77	SVOA	970 JN
10.	--	Unknown	27.22	SVOA	1,700 JN
11.	57-11-4	Octadecanoic_acid	27.48	SVOA	1,200 JN
12.	--	Unknown	28.15	SVOA	2,000 JN
13.	--	Unknown	29.42	SVOA	940 JN
14.	112-85-6	Docosanoic_acid	31.80	SVOA	770 JN
15.	--	Unknown	32.78	SVOA	3,100 JN
16.	--	Unknown	33.75	SVOA	560 JN
17.	--	Unknown	34.33	SVOA	1,100 JN
18.	--	Unknown	35.33	SVOA	840 JN
19.	--	Unknown	37.22	SVOA	980 JN
20.	--	Unknown_Sterol	38.50	SVOA	2,000 JN

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET Sample No. 9739 4727
Semivolatiles by GC/MS DILUTION
Page 1 of 2
Lab Sample ID: T971Y QC Report No: T971-Roy F. Weston
LIMS ID: 97-18049 Project: 1001-006
Matrix: Sediment
Data Release Authorized: CWP Date Sampled: 09/22/97
Reported: 11/26/97 Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/17/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 52.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:3
Percent Moisture: 26.0%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	58 U
111-44-4	Bis-(2-Chloroethyl) Ether	120 U
95-57-8	2-Chlorophenol	58 U
541-73-1	1,3-Dichlorobenzene	58 U
106-46-7	1,4-Dichlorobenzene	58 U
100-51-6	Benzyl Alcohol	58 U
95-50-1	1,2-Dichlorobenzene	58 U
95-48-7	2-Methylphenol	58 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	58 U
106-44-5	**4-Methylphenol**	**340**
621-64-7	N-Nitroso-Di-N-Propylamine	120 U
67-72-1	Hexachloroethane	58 U
98-95-3	Nitrobenzene	58 U
78-59-1	Isophorone	58 U
88-75-5	2-Nitrophenol	290 U
105-67-9	2,4-Dimethylphenol	58 U
65-85-0	Benzoic Acid	580 U
111-91-1	bis(2-Chloroethoxy) Methane	58 U
120-83-2	2,4-Dichlorophenol	170 U
120-82-1	1,2,4-Trichlorobenzene	58 U
91-20-3	Naphthalene	58 U
106-47-8	4-Chloroaniline	170 U
87-68-3	Hexachlorobutadiene	58 U
59-50-7	4-Chloro-3-methylphenol	120 U
91-57-6	2-Methylnaphthalene	58 U
77-47-4	Hexachlorocyclopentadiene	290 U
88-06-2	2,4,6-Trichlorophenol	290 U
95-95-4	2,4,5-Trichlorophenol	290 U
91-58-7	2-Chloronaphthalene	58 U
88-74-4	2-Nitroaniline	290 U
131-11-3	Dimethylphthalate	58 U
208-96-8	Acenaphthylene	58 U
99-09-2	3-Nitroaniline	350 U
83-32-9	Acenaphthene	58 U
51-28-5	2,4-Dinitrophenol	580 U
100-02-7	4-Nitrophenol	290 U
132-64-9	Dibenzofuran	58 U
606-20-2	2,6-Dinitrotoluene	290 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971Y
LIMS ID: 97-18049
Matrix: Sediment
Data Release Authorized: AMP
Reported: 11/26/97

Sample No: 9739 4727
DILUTION

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/17/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 52.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:3
Percent Moisture: 26.0%
pH: 7.3

CAS Number	Analyte	ug/kg	
121-14-2	2,4-Dinitrotoluene	290	U
84-66-2	Diethylphthalate	58	U
7005-72-3	4-Chlorophenyl-phenylether	58	U
86-73-7	Fluorene	58	U
100-01-6	4-Nitroaniline	290	U
534-52-1	4,6-Dinitro-2-Methylphenol	580	U
86-30-6	N-Nitrosodiphenylamine	58	U
101-55-3	4-Bromophenyl-phenylether	58	U
118-74-1	Hexachlorobenzene	58	U
87-86-5	Pentachlorophenol	290	U
85-01-8	**Phenanthrene**	**140**	
86-74-8	Carbazole	58	U
120-12-7	Anthracene	58	U
84-74-2	Di-n-Butylphthalate	58	U
206-44-0	**Fluoranthene**	**290**	
129-00-0	**Pyrene**	**220**	
85-68-7	**Butylbenzylphthalate**	**58**	
91-94-1	3,3'-Dichlorobenzidine	290	U
56-55-3	**Benzo(a)anthracene**	**85**	
117-81-7	**bis(2-Ethylhexyl)phthalate**	**2,100**	
218-01-9	**Chrysene**	**140**	
117-84-0	Di-n-Octyl phthalate	58	U
205-99-2	**Benzo(b)fluoranthene**	**110**	
207-08-9	**Benzo(k)fluoranthene**	**91**	
50-32-8	**Benzo(a)pyrene**	**87**	
193-39-5	**Indeno(1,2,3-cd)pyrene**	**57**	**J**
53-70-3	Dibenz(a,h)anthracene	58	U
191-24-2	**Benzo(g,h,i)perylene**	**66**	

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	68.6%	d5-Phenol	58.1%
2-Fluorobiphenyl	77.8%	2-Fluorophenol	50.6%
d14-p-Terphenyl	73.2%	2,4,6-Tribromophenol	77.5%
d4-1,2-Dichlorobenzene	52.6%	d4-2-Chlorophenol	51.3%

FORM-1

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971Z
LIMS ID: 97-18050
Matrix: Sediment
Data Release Authorized: [illegible]
Reported: 11/20/97

Sample No: 9739 4728 WR-SD-SD139-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/11/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 63.3%
pH: 7.4

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U
106-44-5	**4-Methylphenol**	**1,400**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	97 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**22**
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	97 U
88-06-2	2,4,6-Trichlorophenol	97 U
95-95-4	2,4,5-Trichlorophenol	97 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	97 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U
83-32-9	Acenaphthene	19 U
51-28-5	2,4-Dinitrophenol	190 U
100-02-7	4-Nitrophenol	97 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	97 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971Z
LIMS ID: 97-18050
Matrix: Sediment
Data Release Authorized:
Reported: 11/20/97

Sample No: 9739 4728
WR-SD- SD139-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/11/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 63.3%
pH: 7.4

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	97 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**19 J**
100-01-6	4-Nitroaniline	97 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	97 U
85-01-8	**Phenanthrene**	**120**
86-74-8	Carbazole	19 U
120-12-7	**Anthracene**	**45**
84-74-2	**Di-n-Butylphthalate**	**84** MN
206-44-0	**Fluoranthene**	**250**
129-00-0	**Pyrene**	**370**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	97 U
56-55-3	**Benzo(a)anthracene**	**63**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**1,200**
218-01-9	**Chrysene**	**370**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**120**
207-08-9	**Benzo(k)fluoranthene**	**230**
50-32-8	**Benzo(a)pyrene**	**170**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**80**
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	**Benzo(g,h,i)perylene**	**91**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	38.5%	d5-Phenol	41.6%
2-Fluorobiphenyl	54.3%	2-Fluorophenol	35.1%
d14-p-Terphenyl	72.5%	2,4,6-Tribromophenol	76.1%
d4-1,2-Dichlorobenzene	30.3%	d4-2-Chlorophenol	38.2%

FORM-1

00139

JMB 1/23/98

2097

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4728
WR-SD-SD139-0000

Lab Sample ID: T971Z
LIMS ID: 97-18050
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Data Release Authorized: BKB
Reported: 11/20/97

Date Analyzed: 11/11/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Acid_Ester	6.25	SVOA	180 JN
2.	503-74-2	Butanoic_acid,_3-methyl-	6.58	SVOA	930 JN
3.	116-53-0	Butanoic_acid,_2-methyl-	6.97	SVOA	1,100 JN
4.	--	Unknown	7.22	SVOA	390 JN
5.	--	Unknown	8.77	SVOA	280 JN
6.	103-82-2	Benzeneacetic_acid	14.45	SVOA	2,100 JN
7.	--	Unknown	16.78	SVOA	98 JN
8.	--	Unknown	18.55	SVOA	84 JN
9.	--	Phenol,_Tetramethylbu_Iso	19.75	SVOA	79 JN
10.	--	Unknown	21.87	SVOA	110 JN
11.	544-63-8	Tetradecanoic_acid	22.03	SVOA	380 JN
12.	--	Unknown	22.90	SVOA	74 JN
13.	5746-58-7	Tetradecanoic_acid,_12-me	23.03	SVOA	1,000 JN
14.	--	Unknown	23.33	SVOA	660 JN
15.	--	Unknown	23.55	SVOA	1,300 JN
16.	--	Unknown	26.90	SVOA	300 JN
17.	--	Unknown	29.82	SVOA	140 JN
18.	--	Unknown	33.87	SVOA	420 JN
19.	--	Unknown	36.68	SVOA	990 JN
20.	--	Unknown	38.13	SVOA	1,100 JN

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971BK
LIMS ID: 97-18086
Matrix: Sediment
Data Release Authorized: BWB
Reported: 11/24/97

Sample No: 9739 4770
WR-SD-SD143-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/13/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 39.0%
pH: 7.2

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U
106-44-5	**4-Methylphenol**	**290**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	96 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	Naphthalene	19 U
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	**2-Methylnaphthalene**	**36**
77-47-4	Hexachlorocyclopentadiene	96 U
88-06-2	2,4,6-Trichlorophenol	96 U
95-95-4	2,4,5-Trichlorophenol	96 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	96 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**20**
51-28-5	2,4-Dinitrophenol	190 U
100-02-7	4-Nitrophenol	96 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	96 U

FORM-1

2161
JMB 12/3/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971BK
LIMS ID: 97-18086
Matrix: Sediment
Data Release Authorized: [illegible]
Reported: 11/24/97

Sample No: 9739 4770
WR-SD-SD143-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/13/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 39.0%
pH: 7.2

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	96 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**27**
100-01-6	4-Nitroaniline	96 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	96 U
85-01-8	**Phenanthrene**	**110**
86-74-8	Carbazole	19 U
120-12-7	Anthracene	19 U
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**110**
129-00-0	**Pyrene**	**110**
85-68-7	**Butylbenzylphthalate**	**30**
91-94-1	3,3'-Dichlorobenzidine	96 U
56-55-3	**Benzo(a)anthracene**	**38**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**640**
218-01-9	**Chrysene**	**68**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**64**
207-08-9	**Benzo(k)fluoranthene**	**37**
50-32-8	**Benzo(a)pyrene**	**55**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**32**
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	**Benzo(g,h,i)perylene**	**28**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	69.8%	d5-Phenol	60.5%
2-Fluorobiphenyl	86.2%	2-Fluorophenol	45.6%
d14-p-Terphenyl	78.4%	2,4,6-Tribromophenol	102%
d4-1,2-Dichlorobenzene	52.4%	d4-2-Chlorophenol	55.5%

FORM-1

00192

JMB 1/23/98
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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4770
WR-SD-SD143-0000

Lab Sample ID: T971BK
LIMS ID: 97-18086
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Data Release Authorized: DWP
Reported: 11/24/97

Date Analyzed: 11/13/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	503-74-2	Butanoic_acid,_3-methyl-_	5.47	SVOA	410 JN
2.	--	Unknown_Organic_Acid_____	5.87	SVOA	470 JN
3.	--	Unknown_Cycloalkane_+_C.E	15.22	SVOA	220 JN
4.	--	Naphthalene,_Dimethyl_Iso	16.55	SVOA	250 JN
5.	--	Unknown_Cycloalkane_+_C.E	16.98	SVOA	330 JN
6.	--	Naphthalene,_Trimethyl_Is	18.67	SVOA	640 JN
7.	--	Unknown_____	18.87	SVOA	350 JN
8.	1002-84-2	Pentadecanoic_acid_____	22.70	SVOA	560 JN
9.	--	Unknown_____	22.82	SVOA	440 JN
10.	--	Unknown_____	23.10	SVOA	320 JN
11.	--	Unknown_____	24.25	SVOA	620 JN
12.	57-10-3	Hexadecanoic_acid_____	24.52	SVOA	850 JN
13.	--	Unknown_____	26.18	SVOA	350 JN
14.	--	Unknown_____	32.07	SVOA	1,100 JN
15.	--	Unknown_____	35.52	SVOA	340 JN
16.	--	Unknown_Sterol_____	35.82	SVOA	910 JN
17.	--	Unknown_____	36.13	SVOA	400 JN
18.	--	Unknown_____	37.98	SVOA	1,100 JN
19.	--	Unknown_____	38.32	SVOA	1,100 JN
20.	--	Unknown_____	38.57	SVOA	440 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971BL
LIMS ID: 97-18087
Matrix: Sediment
Data Release Authorized: BWB
Reported: 11/24/97

Sample No: 9739 4771
WR-SD-SD144-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/13/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 52.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 52.8%
pH: 7.4

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U
106-44-5	**4-Methylphenol**	**1,200**
621-64-7	N-Nitroso-Di-N-Propylamine	38 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	96 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	Naphthalene	19 U
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	96 U
88-06-2	2,4,6-Trichlorophenol	96 U
95-95-4	2,4,5-Trichlorophenol	96 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	96 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U
83-32-9	Acenaphthene	19 U
51-28-5	2,4-Dinitrophenol	190 U
100-02-7	4-Nitrophenol	96 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	96 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS

Lab Sample ID: T971BL
LIMS ID: 97-18087
Matrix: Sediment
Data Release Authorized: ONO
Reported: 11/24/97

Sample No: 9739 4771
WR-SD-SD144-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/13/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 52.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 52.8%
pH: 7.4

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	96 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	Fluorene	19 U
100-01-6	4-Nitroaniline	96 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	96 U
85-01-8	**Phenanthrene**	**58**
86-74-8	Carbazole	19 U
120-12-7	Anthracene	19 U
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**110**
129-00-0	**Pyrene**	**88**
85-68-7	**Butylbenzylphthalate**	**20**
91-94-1	3,3'-Dichlorobenzidine	96 U
56-55-3	**Benzo(a)anthracene**	**38**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**440**
218-01-9	**Chrysene**	**68**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**59**
207-08-9	**Benzo(k)fluoranthene**	**38**
50-32-8	**Benzo(a)pyrene**	**41**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**31**
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	**Benzo(g,h,i)perylene**	**28**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	67.0%	d5-Phenol	65.5%
2-Fluorobiphenyl	73.0%	2-Fluorophenol	54.7%
d14-p-Terphenyl	82.5%	2,4,6-Tribromophenol	92.5%
d4-1,2-Dichlorobenzene	51.2%	d4-2-Chlorophenol	59.4%

FORM-1

JMB 1/23/98
2220

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4771
WR-SD-SD144-0000

Lab Sample ID: T971BL
LIMS ID: 97-18087
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Data Release Authorized: CWB
Reported: 11/24/97

Date Analyzed: 11/13/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid	6.57	SVOA	1,600 JN
2.	103-82-2	Benzeneacetic_acid	14.13	SVOA	2,100 JN
3.	544-63-8	Tetradecanoic_acid	21.85	SVOA	390 JN
4.	1002-84-2	Pentadecanoic_acid	22.73	SVOA	840 JN
5.	--	Unknown	23.35	SVOA	350 JN
6.	--	Unknown	24.28	SVOA	1,100 JN
7.	57-10-3	Hexadecanoic_acid	24.55	SVOA	1,100 JN
8.	112-80-1	Oleic_Acid	26.67	SVOA	930 JN
9.	57-11-4	Octadecanoic_acid	26.88	SVOA	290 JN
10.	--	Unknown	27.55	SVOA	540 JN
11.	--	Unknown	32.03	SVOA	400 JN
12.	--	Unknown	32.55	SVOA	320 JN
13.	--	Unknown	33.70	SVOA	420 JN
14.	--	Unknown_PNA_+_C.E.	34.00	SVOA	400 JN
15.	--	Unknown	35.35	SVOA	350 JN
16.	--	Unknown	36.10	SVOA	540 JN
17.	57-88-5	Cholesterol	36.40	SVOA	830 JN
18.	--	Unknown	37.97	SVOA	2,400 JN
19.	--	Unknown	38.32	SVOA	1,100 JN
20.	--	Unknown	38.57	SVOA	400 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971BM
LIMS ID: 97-18088
Matrix: Sediment
Data Release Authorized: DWB
Reported: 11/24/97

Sample No: 9739 4772
WR-SD-SD146-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/13/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 52.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 47.7%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U
106-44-5	**4-Methylphenol**	**750**
621-64-7	N-Nitroso-Di-N-Propylamine	38 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	95 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	57 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	Naphthalene	19 U
106-47-8	4-Chloroaniline	57 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	95 U
88-06-2	2,4,6-Trichlorophenol	95 U
95-95-4	2,4,5-Trichlorophenol	95 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	95 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	110 U
83-32-9	Acenaphthene	19 U
51-28-5	2,4-Dinitrophenol	190 U
100-02-7	4-Nitrophenol	95 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	95 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS

Lab Sample ID: T971BM
LIMS ID: 97-18088
Matrix: Sediment
Data Release Authorized: ewp
Reported: 11/24/97

Sample No: 9739 4772
WR-SD-SD146-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/13/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 52.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 47.7%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	95 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	Fluorene	19 U
100-01-6	4-Nitroaniline	95 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	95 U
85-01-8	**Phenanthrene**	**32**
86-74-8	Carbazole	19 U
120-12-7	Anthracene	19 U
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**55**
129-00-0	**Pyrene**	**50**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	95 U
56-55-3	**Benzo(a)anthracene**	**22**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**170**
218-01-9	**Chrysene**	**38**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**24**
207-08-9	**Benzo(k)fluoranthene**	**20**
50-32-8	**Benzo(a)pyrene**	**23**
193-39-5	Indeno(1,2,3-cd)pyrene	19 U
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	Benzo(g,h,i)perylene	19 U

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	73.6%	d5-Phenol	73.5%
2-Fluorobiphenyl	80.2%	2-Fluorophenol	57.8%
d14-p-Terphenyl	78.7%	2,4,6-Tribromophenol	97.8%
d4-1,2-Dichlorobenzene	54.2%	d4-2-Chlorophenol	69.5%

FORM-1

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4772
WR-SD-SD146-0000

Lab Sample ID: T971BM
LIMS ID: 97-18088
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Data Release Authorized: AMB
Reported: 11/24/97

Date Analyzed: 11/13/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	79-34-5	Ethane,_1,1,2,2-tetrachlo	5.93	SVOA	600 JN
2.	116-53-0	Butanoic_acid,_2-methyl-_	6.45	SVOA	1,100 JN
3.	109-52-4	Pentanoic_acid_____	6.75	SVOA	310 JN
4.	544-63-8	Tetradecanoic_acid_____	21.83	SVOA	350 JN
5.	1002-84-2	Pentadecanoic_acid_____	22.72	SVOA	690 JN
6.	--	Unknown_____	22.85	SVOA	540 JN
7.	--	Unknown_____	24.28	SVOA	1,600 JN
8.	--	Unknown_____	24.38	SVOA	550 JN
9.	57-10-3	Hexadecanoic_acid_____	24.55	SVOA	1,200 JN
10.	112-80-1	Oleic_Acid_____	26.68	SVOA	2,500 JN
11.	57-11-4	Octadecanoic_acid_____	26.87	SVOA	420 JN
12.	--	Unknown_Alkyl_PNA_+_C.E._	27.55	SVOA	410 JN
13.	--	Unknown_____	28.75	SVOA	390 JN
14.	--	Unknown_____	32.53	SVOA	470 JN
15.	80-97-7	Cholestanol_____	36.03	SVOA	700 JN
16.	57-88-5	Cholesterol_____	36.37	SVOA	940 JN
17.	--	Unknown_____	37.95	SVOA	3,400 JN
18.	--	Unknown_____	38.30	SVOA	2,500 JN
19.	--	Unknown_____	38.53	SVOA	890 JN
20.	1058-61-3	Stigmast-4-en-3-one_____	38.83	SVOA	580 JN

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971BN
LIMS ID: 97-18089
Matrix: Sediment
Data Release Authorized: ONP
Reported: 11/24/97

Sample No: 9739 4775
WR-SD-SD147-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/14/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 52.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 47.4%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U
106-44-5	4-Methylphenol	990
621-64-7	N-Nitroso-Di-N-Propylamine	38 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	95 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	57 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	Naphthalene	19 U
106-47-8	4-Chloroaniline	57 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	95 U
88-06-2	2,4,6-Trichlorophenol	95 U
95-95-4	2,4,5-Trichlorophenol	95 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	95 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	110 U
83-32-9	Acenaphthene	19 U
51-28-5	2,4-Dinitrophenol	190 U
100-02-7	4-Nitrophenol	95 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	95 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971BN
LIMS ID: 97-18089
Matrix: Sediment
Data Release Authorized: ONB
Reported: 11/24/97

Sample No: 9739 4775
WR-SD-SD147-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/14/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 52.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 47.4%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	95 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	Fluorene	19 U
100-01-6	4-Nitroaniline	95 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	95 U
85-01-8	**Phenanthrene**	**25**
86-74-8	Carbazole	19 U
120-12-7	Anthracene	19 U
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**57**
129-00-0	**Pyrene**	**54**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	95 U
56-55-3	**Benzo(a)anthracene**	**22**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**170**
218-01-9	**Chrysene**	**37**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**26**
207-08-9	**Benzo(k)fluoranthene**	**31**
50-32-8	**Benzo(a)pyrene**	**27**
193-39-5	Indeno(1,2,3-cd)pyrene	19 U
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	Benzo(g,h,i)perylene	19 U

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	69.8%	d5-Phenol	72.0%
2-Fluorobiphenyl	77.7%	2-Fluorophenol	53.0%
d14-p-Terphenyl	89.2%	2,4,6-Tribromophenol	89.5%
d4-1,2-Dichlorobenzene	53.0%	d4-2-Chlorophenol	64.7%

FORM-1

00501

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4775
WR-SD-SD147-0000

Lab Sample ID: T971BN
LIMS ID: 97-18089
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Data Release Authorized: ORB
Reported: 11/24/97

Date Analyzed: 11/14/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid	6.47	SVOA	1,200 JN
2.	103-82-2	Benzeneacetic_acid	14.08	SVOA	1,700 JN
3.	544-63-8	Tetradecanoic_acid	21.82	SVOA	320 JN
4.	1002-84-2	Pentadecanoic_acid	22.70	SVOA	580 JN
5.	5746-58-7	Tetradecanoic_acid,_12-me	22.82	SVOA	520 JN
6.	--	Unknown	24.35	SVOA	360 JN
7.	57-10-3	Hexadecanoic_acid	24.52	SVOA	990 JN
8.	112-80-1	Oleic_Acid	26.65	SVOA	1,200 JN
9.	--	Unknown	32.02	SVOA	360 JN
10.	--	Unknown	32.53	SVOA	450 JN
11.	--	Unknown_Aldehyde	33.67	SVOA	380 JN
12.	80-97-7	Cholestanol	36.05	SVOA	740 JN
13.	57-88-5	Cholesterol	36.37	SVOA	640 JN
14.	--	Unknown_Sterol	36.72	SVOA	630 JN
15.	4651-51-8	Ergost-5-en-3-ol,_(3.beta	37.28	SVOA	540 JN
16.	--	Cholest-4-ene-3-one	37.37	SVOA	350 JN
17.	--	Unknown	37.95	SVOA	3,200 JN
18.	--	Unknown_Sterol	38.30	SVOA	1,800 JN
19.	--	Unknown	38.53	SVOA	680 JN
20.	--	Unknown	38.83	SVOA	540 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971BO
LIMS ID: 97-18090
Matrix: Sediment
Data Release Authorized:
Reported: 11/24/97

Sample No: 9739 4776
WR-SD-SD149-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/17/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.5 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 49.6%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	40 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U
106-44-5	**4-Methylphenol**	**800**
621-64-7	N-Nitroso-Di-N-Propylamine	40 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	99 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	Naphthalene	20 U
106-47-8	4-Chloroaniline	59 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	40 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	99 U
88-06-2	2,4,6-Trichlorophenol	99 U
95-95-4	2,4,5-Trichlorophenol	99 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	99 U
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U
83-32-9	Acenaphthene	20 U
51-28-5	2,4-Dinitrophenol	200 U
100-02-7	4-Nitrophenol	99 U
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	99 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971BO
LIMS ID: 97-18090
Matrix: Sediment
Data Release Authorized: [illegible]
Reported: 11/24/97

Sample No: 9739 4776
WR-SD-SD149-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/17/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.5 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 49.6%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	99 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	**Fluorene**	**19 J**
100-01-6	4-Nitroaniline	99 U
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	99 U
85-01-8	**Phenanthrene**	**180**
86-74-8	**Carbazole**	**23**
120-12-7	**Anthracene**	**23**
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**320**
129-00-0	**Pyrene**	**240**
85-68-7	**Butylbenzylphthalate**	**40**
91-94-1	3,3'-Dichlorobenzidine	99 U
56-55-3	**Benzo(a)anthracene**	**84**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**100**
218-01-9	**Chrysene**	**170**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**120**
207-08-9	**Benzo(k)fluoranthene**	**86**
50-32-8	**Benzo(a)pyrene**	**63**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**46**
53-70-3	**Dibenz(a,h)anthracene**	**19 J**
191-24-2	**Benzo(g,h,i)perylene**	**43**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	66.1%	d5-Phenol	69.7%
2-Fluorobiphenyl	72.2%	2-Fluorophenol	56.8%
d14-p-Terphenyl	76.1%	2,4,6-Tribromophenol	81.1%
d4-1,2-Dichlorobenzene	56.6%	d4-2-Chlorophenol	57.9%

FORM-1

00504

JMB 1/23/98

2371

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4776
WR-SD-SD149-0000

Lab Sample ID: T971BO
LIMS ID: 97-18090
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Data Release Authorized: BM
Reported: 11/24/97

Date Analyzed: 11/17/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	503-74-2	Butanoic_acid,_3-methyl-_	6.00	SVOA	1,500 JN
2.	79-34-5	Ethane,_1,1,2,2-tetrachlo	6.12	SVOA	380 JNB
3.	116-53-0	Butanoic_acid,_2-methyl-_	6.40	SVOA	580 JN
4.	109-52-4	Pentanoic_acid	6.75	SVOA	360 JN
5.	103-82-2	Benzeneacetic_acid	14.20	SVOA	1,500 JN
6.	544-63-8	Tetradecanoic_acid	21.95	SVOA	130 JN
7.	--	Unknown	22.83	SVOA	180 JN
8.	--	Unknown	22.95	SVOA	170 JN
9.	--	Unknown	24.08	SVOA	140 JN
10.	--	Unknown	24.38	SVOA	420 JN
11.	--	Unknown	24.48	SVOA	120 JN
12.	57-10-3	Hexadecanoic_acid	24.62	SVOA	320 JN
13.	--	Unknown	26.78	SVOA	290 JN
14.	--	Unknown	32.20	SVOA	280 JN
15.	--	Unknown	36.23	SVOA	260 JN
16.	57-88-5	Cholesterol	36.55	SVOA	400 JN
17.	--	Unknown	38.12	SVOA	1,600 JN
18.	--	Unknown	38.35	SVOA	530 JN
19.	--	Unknown	38.47	SVOA	790 JN
20.	--	Unknown	38.70	SVOA	300 JN

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FORM-1-B

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971BP
LIMS ID: 97-18091
Matrix: Sediment
Data Release Authorized: ANB
Reported: 11/24/97

Sample No: 9739 4777
WR-SD-SD151-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/17/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 52.5 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 47.5%
pH: 7.2

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U
106-44-5	**4-Methylphenol**	**810**
621-64-7	N-Nitroso-Di-N-Propylamine	38 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	95 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	57 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	Naphthalene	19 U
106-47-8	4-Chloroaniline	57 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	95 U
88-06-2	2,4,6-Trichlorophenol	95 U
95-95-4	2,4,5-Trichlorophenol	95 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	95 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	110 U
83-32-9	Acenaphthene	19 U
51-28-5	2,4-Dinitrophenol	190 U
100-02-7	4-Nitrophenol	95 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	95 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971BP
LIMS ID: 97-18091
Matrix: Sediment
Data Release Authorized: AWP
Reported: 11/24/97

Sample No: 9739 4777
WR-SD-SD151-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/17/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 52.5 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 47.5%
pH: 7.2

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	95 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**18 J**
100-01-6	4-Nitroaniline	95 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	95 U
85-01-8	**Phenanthrene**	**120**
86-74-8	Carbazole	19 U
120-12-7	**Anthracene**	**19**
84-74-2	**Di-n-Butylphthalate**	**24**
206-44-0	**Fluoranthene**	**270**
129-00-0	**Pyrene**	**180**
85-68-7	**Butylbenzylphthalate**	**100**
91-94-1	3,3'-Dichlorobenzidine	95 U
56-55-3	**Benzo(a)anthracene**	**94**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**160**
218-01-9	**Chrysene**	**160**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**140**
207-08-9	**Benzo(k)fluoranthene**	**97**
50-32-8	**Benzo(a)pyrene**	**83**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**68**
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	**Benzo(g,h,i)perylene**	**64**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	74.8%	d5-Phenol	78.9%
2-Fluorobiphenyl	76.5%	2-Fluorophenol	62.6%
d14-p-Terphenyl	75.7%	2,4,6-Tribromophenol	89.1%
d4-1,2-Dichlorobenzene	64.2%	d4-2-Chlorophenol	70.3%

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JMB 1/23/98
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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4777
WR-SD-SD151-0000

Lab Sample ID: T971BP
LIMS ID: 97-18091
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Data Release Authorized: SNB
Reported: 11/24/97

Date Analyzed: 11/17/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	79-34-5	Ethane,_1,1,2,2-tetrachlo	6.12	SVOA	600 JN
2.	--	Unknown_Organic_Acid_____	6.68	SVOA	1,300 JN
3.	109-52-4	Pentanoic_acid_____	7.03	SVOA	320 JN
4.	103-82-2	Benzeneacetic_acid_____	14.27	SVOA	1,400 JN
5.	544-63-8	Tetradecanoic_acid_____	21.97	SVOA	150 JN
6.	1002-84-2	Pentadecanoic_acid_____	22.85	SVOA	310 JN
7.	5746-58-7	Tetradecanoic_acid,_12-me	22.97	SVOA	280 JN
8.	--	Unknown_____	24.40	SVOA	590 JN
9.	--	Unknown_____	24.50	SVOA	220 JN
10.	--	Unknown_____	26.80	SVOA	290 JN
11.	--	Unknown_Alkyl_PNA_+_C.E._	27.72	SVOA	220 JN
12.	--	Unknown_____	32.20	SVOA	260 JN
13.	--	Unknown_____	32.72	SVOA	160 JN
14.	--	Unknown_PNA_____	34.18	SVOA	200 JN
15.	80-97-7	Cholestanol_____	36.22	SVOA	280 JN
16.	57-88-5	Cholesterol_____	36.55	SVOA	400 JN
17.	--	Unknown_____	37.47	SVOA	160 JN
18.	--	Unknown_____	38.13	SVOA	1,400 JN
19.	--	Unknown_____	38.48	SVOA	930 JN
20.	--	Unknown_____	38.72	SVOA	340 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971BQ
LIMS ID: 97-18092
Matrix: Sediment
Data Release Authorized: DMB
Reported: 11/24/97

Sample No: 9739 4778
WR-SD-SD151-1000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/17/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 46.0%
pH: 7.4

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U
106-44-5	**4-Methylphenol**	**870**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	97 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	Naphthalene	19 U
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	97 U
88-06-2	2,4,6-Trichlorophenol	97 U
95-95-4	2,4,5-Trichlorophenol	97 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	97 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**22**
51-28-5	2,4-Dinitrophenol	190 U
100-02-7	4-Nitrophenol	97 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	97 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971BQ
LIMS ID: 97-18092
Matrix: Sediment
Data Release Authorized: AWP
Reported: 11/24/97

Sample No: 9739 4778 WR-SD-SD151-1000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/17/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 46.0%
pH: 7.4

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	97 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**29**
100-01-6	4-Nitroaniline	97 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	97 U
85-01-8	**Phenanthrene**	**200**
86-74-8	Carbazole	19 U
120-12-7	**Anthracene**	**33**
84-74-2	**Di-n-Butylphthalate**	**23** ~~M~~ N
206-44-0	**Fluoranthene**	**350**
129-00-0	**Pyrene**	**250**
85-68-7	**Butylbenzylphthalate**	**130**
91-94-1	3,3'-Dichlorobenzidine	97 U
56-55-3	**Benzo(a)anthracene**	**130**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**160**
218-01-9	**Chrysene**	**200**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**170**
207-08-9	**Benzo(k)fluoranthene**	**130**
50-32-8	**Benzo(a)pyrene**	**100**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**64**
53-70-3	**Dibenz(a,h)anthracene**	**21**
191-24-2	**Benzo(g,h,i)perylene**	**68**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	77.9%	d5-Phenol	80.8%
2-Fluorobiphenyl	85.4%	2-Fluorophenol	70.2%
d14-p-Terphenyl	81.2%	2,4,6-Tribromophenol	92.9%
d4-1,2-Dichlorobenzene	63.8%	d4-2-Chlorophenol	68.5%

FORM-1

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JMB 1/23/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4778
WR-SD-SD151-1000

Lab Sample ID: T971BQ
LIMS ID: 97-18092
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Data Release Authorized: GNB
Reported: 11/24/97

Date Analyzed: 11/17/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	503-74-2	Butanoic_acid,_3-methyl-_	6.05	SVOA	2,000 JN
2.	116-53-0	Butanoic_acid,_2-methyl-_	6.45	SVOA	750 JN
3.	109-52-4	Pentanoic_acid	6.78	SVOA	380 JN
4.	103-82-2	Benzeneacetic_acid	14.20	SVOA	1,400 JN
5.	544-63-8	Tetradecanoic_acid	21.95	SVOA	150 JN
6.	1002-84-2	Pentadecanoic_acid	22.83	SVOA	270 JN
7.	--	Unknown_Organic_Acid	22.95	SVOA	250 JN
8.	--	Unknown	24.07	SVOA	170 JN
9.	--	Unknown	24.38	SVOA	590 JN
10.	--	Unknown	24.48	SVOA	150 JN
11.	--	Unknown	25.35	SVOA	210 JN
12.	112-80-1	Oleic_Acid	26.78	SVOA	270 JN
13.	--	Unknown_Alkyl_PNA_+_C.E._	27.72	SVOA	210 JN
14.	--	Unknown	31.98	SVOA	170 JN
15.	--	Unknown	32.20	SVOA	250 JN
16.	--	Unknown	33.78	SVOA	210 JN
17.	--	Coprostan-3-one	36.48	SVOA	240 JN
18.	--	Unknown	36.90	SVOA	200 JN
19.	--	Unknown	38.12	SVOA	1,000 JN
20.	--	Unknown	38.47	SVOA	660 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971AA
LIMS ID: 97-18051
Matrix: Sediment
Data Release Authorized:
Reported: 11/20/97

Sample No: 9739 4729
WR-SD-SD141-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/05/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 60.8%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U J
106-44-5	**4-Methylphenol**	**1,000**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U J
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	98 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**37**
106-47-8	4-Chloroaniline	59 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	98 U
88-06-2	2,4,6-Trichlorophenol	98 U
95-95-4	2,4,5-Trichlorophenol	98 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	98 U J
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U
83-32-9	Acenaphthene	20 U
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	98 U
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	98 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971AA
LIMS ID: 97-18051
Matrix: Sediment
Data Release Authorized: NB
Reported: 11/20/97

Sample No: 9739 4729
WR-SD-SD141-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/05/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 60.8%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	98 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	**Fluorene**	**20**
100-01-6	4-Nitroaniline	98 U
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	98 U
85-01-8	**Phenanthrene**	**130**
86-74-8	Carbazole	20 U
120-12-7	**Anthracene**	**26**
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**300**
129-00-0	**Pyrene**	**350**
85-68-7	**Butylbenzylphthalate**	**33**
91-94-1	3,3'-Dichlorobenzidine	98 U
56-55-3	**Benzo(a)anthracene**	**110**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**980**
218-01-9	**Chrysene**	**190**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**160**
207-08-9	**Benzo(k)fluoranthene**	**130**
50-32-8	**Benzo(a)pyrene**	**130**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**68**
53-70-3	Dibenz(a,h)anthracene	20 U
191-24-2	**Benzo(g,h,i)perylene**	**63**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	40.6%	d5-Phenol	45.4%
2-Fluorobiphenyl	43.8%	2-Fluorophenol	37.5%
d14-p-Terphenyl	56.6%	2,4,6-Tribromophenol	53.2%
d4-1,2-Dichlorobenzene	28.4%	d4-2-Chlorophenol	39.0%

FORM-1

GMB 1/23/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4729
WR-SD-SD141-0000

Lab Sample ID: T971AA
LIMS ID: 97-18051
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Data Release Authorized: GWA
Reported: 11/20/97

Date Analyzed: 11/05/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	103-82-2	Benzeneacetic_acid	14.68	SVOA	1,400 JN
2.	544-63-8	Tetradecanoic_acid	22.48	SVOA	880 JN
3.	1002-84-2	Pentadecanoic_acid	23.37	SVOA	1,200 JN
4.	--	Unknown_Organic_Acid	23.50	SVOA	1,300 JN
5.	--	Unknown	23.68	SVOA	730 JN
6.	--	Unknown	24.97	SVOA	5,700 JN
7.	57-10-3	Hexadecanoic_acid	25.25	SVOA	3,600 JN
8.	--	Unknown	25.67	SVOA	650 JN
9.	150-86-7	Phytol	26.87	SVOA	770 JN
10.	--	Unknown	27.28	SVOA	2,300 JN
11.	57-11-4	Octadecanoic_acid	27.52	SVOA	650 JN
12.	--	Unknown_Alkyl_PNA_+_C.E._	28.22	SVOA	980 JN
13.	--	Unknown	28.48	SVOA	640 JN
14.	112-85-6	Docosanoic_acid	31.82	SVOA	650 JN
15.	--	Unknown	34.33	SVOA	1,200 JN
16.	--	Unknown	37.05	SVOA	1,300 JN
17.	--	Unknown	37.23	SVOA	760 JN
18.	--	Unknown	38.22	SVOA	830 JN
19.	--	Unknown_Sterol	38.52	SVOA	1,600 JN
20.	--	Unknown	38.62	SVOA	990 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971AB
LIMS ID: 97-18052
Matrix: Sediment
Data Release Authorized: AMB
Reported: 11/20/97

Sample No: 9739 4730
WR-SD-SD141-1000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/05/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 60.6%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U J
106-44-5	**4-Methylphenol**	**880**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U J
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	98 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**25**
106-47-8	4-Chloroaniline	59 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	98 U
88-06-2	2,4,6-Trichlorophenol	98 U
95-95-4	2,4,5-Trichlorophenol	98 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	98 U J
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U
83-32-9	Acenaphthene	20 U
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	98 U
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	98 U

FORM-1

90515

JMB 1/23/98
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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971AB
LIMS ID: 97-18052
Matrix: Sediment
Data Release Authorized: AWB
Reported: 11/20/97

Sample No: 9739 4730
WR-SD-SD141-1000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/05/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 60.6%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	98 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	Fluorene	20 U
100-01-6	4-Nitroaniline	98 U
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	98 U
85-01-8	**Phenanthrene**	**100**
86-74-8	Carbazole	20 U
120-12-7	**Anthracene**	**22**
84-74-2	**Di-n-Butylphthalate**	**25**
206-44-0	**Fluoranthene**	**170**
129-00-0	**Pyrene**	**230**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	98 U
56-55-3	**Benzo(a)anthracene**	**75**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**810**
218-01-9	**Chrysene**	**130**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**96**
207-08-9	**Benzo(k)fluoranthene**	**91**
50-32-8	**Benzo(a)pyrene**	**87**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**53**
53-70-3	Dibenz(a,h)anthracene	20 U
191-24-2	**Benzo(g,h,i)perylene**	**50**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	35.1%	d5-Phenol	40.1%
2-Fluorobiphenyl	39.9%	2-Fluorophenol	29.3%
d14-p-Terphenyl	52.1%	2,4,6-Tribromophenol	46.4%
d4-1,2-Dichlorobenzene	24.8%	d4-2-Chlorophenol	33.8%

FORM-1

00516

JMB 1/23/98
2595

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4730
WR-SD-SD141-1000

Lab Sample ID: T971AB
LIMS ID: 97-18052
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Data Release Authorized: CMJ
Reported: 11/20/97

Date Analyzed: 11/05/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown	5.97	SVOA	730 JN
2.	--	Unknown_Organic_Acid	6.45	SVOA	1,600 JN
3.	116-53-0	Butanoic_acid,_2-methyl-_	6.92	SVOA	1,600 JN
4.	103-82-2	Benzeneacetic_acid	14.63	SVOA	1,700 JN
5.	156-38-7	Benzeneacetic_acid,_4-hyd	19.52	SVOA	680 JN
6.	544-63-8	Tetradecanoic_acid	22.43	SVOA	800 JN
7.	1002-84-2	Pentadecanoic_acid	23.30	SVOA	1,400 JN
8.	87-51-4	Indoleacetic_acid	24.20	SVOA	510 JN
9.	57-10-3	Hexadecanoic_acid	25.17	SVOA	2,100 JN
10.	--	Unknown	25.62	SVOA	610 JN
11.	112-80-1	Oleic_Acid	27.25	SVOA	1,700 JN
12.	57-11-4	Octadecanoic_acid	27.47	SVOA	530 JN
13.	--	Unknown_Alkyl_PNA_+_C.E._	28.17	SVOA	940 JN
14.	--	Unknown	32.68	SVOA	490 JN
15.	7683-64-9	Squalene	34.23	SVOA	1,400 JN
16.	--	Unknown	37.03	SVOA	1,300 JN
17.	--	Unknown	37.20	SVOA	700 JN
18.	--	Unknown_Sterol	37.40	SVOA	970 JN
19.	--	Unknown_Sterol	38.52	SVOA	1,700 JN
20.	--	Unknown	38.60	SVOA	870 JN

FORM-1-B

JMB 2596
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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971AC
LIMS ID: 97-18053
Matrix: Sediment
Data Release Authorized: CNB
Reported: 11/20/97

Sample No: 9739 4731
WR-SD-SD148-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/05/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 46.1%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U J
106-44-5	**4-Methylphenol**	**690**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U J
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	98 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**110**
106-47-8	4-Chloroaniline	59 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	**2-Methylnaphthalene**	**25**
77-47-4	Hexachlorocyclopentadiene	98 U
88-06-2	2,4,6-Trichlorophenol	98 U
95-95-4	2,4,5-Trichlorophenol	98 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	98 U J
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**47**
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	98 U
132-64-9	**Dibenzofuran**	**21**
606-20-2	2,6-Dinitrotoluene	98 U

FORM-1

00518

JMB 1/23/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971AC
LIMS ID: 97-18053
Matrix: Sediment
Data Release Authorized: [illegible]
Reported: 11/20/97

Sample No: 9739 4731
WR-SD-SD148-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/05/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 46.1%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	98 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	**Fluorene**	**38**
100-01-6	4-Nitroaniline	98 U
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	98 U
85-01-8	**Phenanthrene**	**190**
86-74-8	Carbazole	20 U
120-12-7	**Anthracene**	**41**
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**220**
129-00-0	**Pyrene**	**340**
85-68-7	**Butylbenzylphthalate**	**20**
91-94-1	3,3'-Dichlorobenzidine	98 U
56-55-3	**Benzo(a)anthracene**	**88**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**640**
218-01-9	**Chrysene**	**130**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**120**
207-08-9	**Benzo(k)fluoranthene**	**97**
50-32-8	**Benzo(a)pyrene**	**120**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**73**
53-70-3	Dibenz(a,h)anthracene	20 U
191-24-2	**Benzo(g,h,i)perylene**	**72**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	58.3%	d5-Phenol	59.7%
2-Fluorobiphenyl	54.7%	2-Fluorophenol	38.3%
d14-p-Terphenyl	69.4%	2,4,6-Tribromophenol	57.9%
d4-1,2-Dichlorobenzene	45.6%	d4-2-Chlorophenol	48.3%

FORM-1

JMB 1/23/98
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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4731
WR-SD- SD148-0000

Lab Sample ID: T971AC
LIMS ID: 97-18053
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Data Release Authorized: [illegible]
Reported: 11/20/97

Date Analyzed: 11/05/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	503-74-2	Butanoic_acid,_3-methyl-_	6.38	SVOA	1,400 JN
2.	116-53-0	Butanoic_acid,_2-methyl-_	6.75	SVOA	1,000 JN
3.	103-82-2	Benzeneacetic_acid_____	14.57	SVOA	1,400 JN
4.	544-63-8	Tetradecanoic_acid_____	22.42	SVOA	390 JN
5.	--	Unknown_____	23.23	SVOA	520 JN
6.	--	Unknown_____	24.88	SVOA	1,500 JN
7.	--	Unknown_____	24.98	SVOA	800 JN
8.	57-10-3	Hexadecanoic_acid_____	25.15	SVOA	1,200 JN
9.	--	Unknown_____	25.60	SVOA	340 JN
10.	--	Unknown_____	27.25	SVOA	650 JN
11.	57-11-4	Octadecanoic_acid_____	27.45	SVOA	320 JN
12.	--	Unknown_Alkyl_PNA_+_C.E._	28.20	SVOA	520 JN
13.	112-85-6	Docosanoic_acid_____	31.80	SVOA	410 JN
14.	--	Unknown_Organic_Acid_____	33.77	SVOA	350 JN
15.	--	Unknown_Aldehyde_____	34.32	SVOA	650 JN
16.	--	Unknown_____	34.63	SVOA	410 JN
17.	--	Unknown_____	37.20	SVOA	370 JN
18.	--	Unknown_Sterol_____	37.40	SVOA	560 JN
19.	--	Unknown_Sterol_____	38.52	SVOA	1,100 JN
20.	--	Unknown_____	38.62	SVOA	610 JN

FORM-1-B

2653
JMB 1/23/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971AD
LIMS ID: 97-18054
Matrix: Sediment
Data Release Authorized: ARF
Reported: 11/20/97

Sample No: 9739 4732
WR-SD-SD124-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/05/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 46.7%
pH: 7.1

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U J
106-44-5	**4-Methylphenol**	**610**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U J
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	98 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	Naphthalene	20 U
106-47-8	4-Chloroaniline	59 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	98 U
88-06-2	2,4,6-Trichlorophenol	98 U
95-95-4	2,4,5-Trichlorophenol	98 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	98 U J
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U
83-32-9	Acenaphthene	20 U
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	98 U
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	98 U

FORM-1

00521

JMB 1/23/98
2710

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971AD
LIMS ID: 97-18054
Matrix: Sediment
Data Release Authorized: ewb
Reported: 11/20/97

Sample No: 9739 4732
WR-SD-SD124-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/05/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 46.7%
pH: 7.1

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	98 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	Fluorene	20 U
100-01-6	4-Nitroaniline	98 U
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	98 U
85-01-8	**Phenanthrene**	**67**
86-74-8	Carbazole	20 U
120-12-7	Anthracene	20 U
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**70**
129-00-0	**Pyrene**	**89**
85-68-7	**Butylbenzylphthalate**	**82**
91-94-1	3,3'-Dichlorobenzidine	98 U
56-55-3	**Benzo(a)anthracene**	**35**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**340**
218-01-9	**Chrysene**	**52**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**37**
207-08-9	**Benzo(k)fluoranthene**	**36**
50-32-8	**Benzo(a)pyrene**	**45**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**28**
53-70-3	Dibenz(a,h)anthracene	20 U
191-24-2	**Benzo(g,h,i)perylene**	**26**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	46.5%	d5-Phenol	49.0%
2-Fluorobiphenyl	46.6%	2-Fluorophenol	27.8%
d14-p-Terphenyl	68.0%	2,4,6-Tribromophenol	62.8%
d4-1,2-Dichlorobenzene	35.9%	d4-2-Chlorophenol	39.5%

FORM-1

JMB 1/23/9
2711

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4732
WR-SD-SD124-0000

Lab Sample ID: T971AD
LIMS ID: 97-18054
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Data Release Authorized:
Reported: 11/20/97

Date Analyzed: 11/05/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	116-53-0	Butanoic_acid,_2-methyl-_	6.43	SVOA	910 JN
2.	103-82-2	Benzeneacetic_acid_____	14.50	SVOA	550 JN
3.	544-63-8	Tetradecanoic_acid_____	22.43	SVOA	290 JN
4.	1002-84-2	Pentadecanoic_acid_____	23.32	SVOA	670 JN
5.	--	Unknown_____	23.43	SVOA	720 JN
6.	--	Unknown_____	23.67	SVOA	330 JN
7.	--	Unknown_____	23.90	SVOA	400 JN
8.	--	Unknown_____	24.88	SVOA	1,900 JN
9.	57-10-3	Hexadecanoic_acid_____	25.15	SVOA	1,600 JN
10.	--	Unknown_____	25.33	SVOA	1,900 JN
11.	--	Unknown_____	26.77	SVOA	480 JN
12.	--	Unknown_____	27.25	SVOA	1,900 JN
13.	57-11-4	Octadecanoic_acid_____	27.50	SVOA	630 JN
14.	--	Unknown_Alkyl_PNA_____	28.18	SVOA	570 JN
15.	--	Unknown_PNA_+_C.E._____	32.68	SVOA	240 JN
16.	57-88-5	Cholesterol_____	37.00	SVOA	1,500 JN
17.	--	Unknown_____	37.37	SVOA	780 JN
18.	4651-51-8	Ergost-5-en-3-ol,_(3.beta	37.82	SVOA	700 JN
19.	83-47-6	.gamma.-Sitosterol_____	38.53	SVOA	3,000 JN
20.	--	Unknown_____	38.82	SVOA	330 JN

FORM-1-B

JMB 1/23/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971AE
LIMS ID: 97-18055
Matrix: Sediment
Data Release Authorized:
Reported: 11/21/97

Sample No: 9739 4733
WR-SD-SD126-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/20/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 54.3%
pH: 7.1

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	40 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U
106-44-5	**4-Methylphenol**	**170**
621-64-7	N-Nitroso-Di-N-Propylamine	40 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	99 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	60 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	Naphthalene	20 U
106-47-8	4-Chloroaniline	60 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	40 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	99 U
88-06-2	2,4,6-Trichlorophenol	99 U
95-95-4	2,4,5-Trichlorophenol	99 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	99 U
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U
83-32-9	Acenaphthene	20 U
51-28-5	2,4-Dinitrophenol	200 U
100-02-7	4-Nitrophenol	99 U
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	99 U

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971AE
LIMS ID: 97-18055
Matrix: Sediment
Data Release Authorized: EWB
Reported: 11/21/97

Sample No: 9739 4733
WR-SD-SD126-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/20/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 54.3%
pH: 7.1

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	99 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	Fluorene	20 U
100-01-6	4-Nitroaniline	99 U
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	99 U
85-01-8	**Phenanthrene**	**47**
86-74-8	Carbazole	20 U
120-12-7	Anthracene	20 U
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**97**
129-00-0	**Pyrene**	**96**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	99 U
56-55-3	**Benzo(a)anthracene**	**37**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**120**
218-01-9	**Chrysene**	**55**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**36**
207-08-9	**Benzo(k)fluoranthene**	**36**
50-32-8	**Benzo(a)pyrene**	**40**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**33**
53-70-3	Dibenz(a,h)anthracene	20 U
191-24-2	**Benzo(g,h,i)perylene**	**38**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	67.6%	d5-Phenol	70.1%
2-Fluorobiphenyl	72.8%	2-Fluorophenol	61.0%
d14-p-Terphenyl	81.1%	2,4,6-Tribromophenol	94.7%
d4-1,2-Dichlorobenzene	58.8%	d4-2-Chlorophenol	64.3%

FORM-1

JMB 1/23/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4733
WR-SD-SD126-0000

Lab Sample ID: T971AE
LIMS ID: 97-18055
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Data Release Authorized: ONB
Reported: 11/21/97

Date Analyzed: 11/20/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	103-82-2	Benzeneacetic_acid	14.13	SVOA	420 JN
2.	1002-84-2	Pentadecanoic_acid	22.90	SVOA	180 JN
3.	--	Unknown	23.58	SVOA	120 JN
4.	--	Unknown	24.45	SVOA	290 JN
5.	57-10-3	Hexadecanoic_acid	24.70	SVOA	380 JN
6.	10544-50-0	Sulfur,_mol._(S8)	25.68	SVOA	250 JN
7.	--	Unknown	26.87	SVOA	620 JN
8.	57-11-4	Octadecanoic_acid	27.08	SVOA	300 JN
9.	--	Unknown_Alkyl_PNA_+_C.E._	27.83	SVOA	740 JN
10.	--	Unknown	32.30	SVOA	380 JN
11.	--	Unknown	33.93	SVOA	1,200 JN
12.	--	Unknown_PNA_+_C.E.	34.27	SVOA	320 JN
13.	--	Unknown_Aldehyde	35.73	SVOA	440 JN
14.	--	Unknown	36.32	SVOA	1,400 JN
15.	57-88-5	Cholesterol	36.62	SVOA	1,800 JN
16.	4651-51-8	Ergost-5-en-3-ol,_(3.beta	37.48	SVOA	960 JN
17.	--	Sitosterol_Iso	38.15	SVOA	5,500 JN
18.	--	Unknown	38.43	SVOA	1,500 JN
19.	--	Unknown	38.57	SVOA	2,100 JN
20.	545-47-1	Lupeol	38.77	SVOA	1,100 JN

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971AF
LIMS ID: 97-18056
Matrix: Sediment
Data Release Authorized: AWB
Reported: 11/20/97

Sample No: 9739 4734
WR-SD- SD128-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/11/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 52.4%
pH: 7.4

CAS Number	Analyte	ug/kg
108-95-2	**Phenol**	**52**
111-44-4	Bis-(2-Chloroethyl) Ether	40 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U
106-44-5	**4-Methylphenol**	**540**
621-64-7	N-Nitroso-Di-N-Propylamine	40 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	100 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	60 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**57**
106-47-8	4-Chloroaniline	60 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	40 U
91-57-6	**2-Methylnaphthalene**	**35**
77-47-4	Hexachlorocyclopentadiene	100 U
88-06-2	2,4,6-Trichlorophenol	100 U
95-95-4	2,4,5-Trichlorophenol	100 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	100 U
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**130**
51-28-5	2,4-Dinitrophenol	200 U
100-02-7	4-Nitrophenol	100 U
132-64-9	**Dibenzofuran**	**62**
606-20-2	2,6-Dinitrotoluene	100 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971AF
LIMS ID: 97-18056
Matrix: Sediment
Data Release Authorized: [signature]
Reported: 11/20/97

Sample No: 9739 4734
WR-SD-SD128-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/11/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 52.4%
pH: 7.4

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	100 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	Fluorene	170
100-01-6	4-Nitroaniline	100 U
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	100 U
85-01-8	Phenanthrene	1,200
86-74-8	Carbazole	55
120-12-7	Anthracene	160
84-74-2	Di-n-Butylphthalate	26
206-44-0	Fluoranthene	~~1,700 E~~ 1900 D
129-00-0	Pyrene	1,400
85-68-7	Butylbenzylphthalate	55
91-94-1	3,3'-Dichlorobenzidine	100 U
56-55-3	Benzo(a)anthracene	700
117-81-7	bis(2-Ethylhexyl)phthalate	970
218-01-9	Chrysene	920
117-84-0	Di-n-Octyl phthalate	280
205-99-2	Benzo(b)fluoranthene	1,100
207-08-9	Benzo(k)fluoranthene	510
50-32-8	Benzo(a)pyrene	820
193-39-5	Indeno(1,2,3-cd)pyrene	430
53-70-3	Dibenz(a,h)anthracene	120
191-24-2	Benzo(g,h,i)perylene	290

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	67.9%	d5-Phenol	60.9%
2-Fluorobiphenyl	68.1%	2-Fluorophenol	61.4%
d14-p-Terphenyl	69.4%	2,4,6-Tribromophenol	88.2%
d4-1,2-Dichlorobenzene	48.8%	d4-2-Chlorophenol	55.4%

FORM-1

JMB 1/23/9
2814

00528

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4734
WR-SD- SD128-0000

Lab Sample ID: T971AF
LIMS ID: 97-18056
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Data Release Authorized: ARB
Reported: 11/20/97

Date Analyzed: 11/11/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown	6.15	SVOA	640 JN
2.	--	Unknown	16.82	SVOA	260 JN
3.	--	Naphthalene, Trimethyl Is	18.87	SVOA	400 JN
4.	--	Unknown	19.77	SVOA	380 JN
5.	--	Unknown	23.37	SVOA	190 JN
6.	--	Unknown	23.60	SVOA	530 JN
7.	--	Unknown Alkyl PNA	23.95	SVOA	320 JN
8.	--	Unknown	24.32	SVOA	840 JN
9.	57-10-3	Hexadecanoic acid	24.90	SVOA	1,500 JN
10.	--	Unknown	25.05	SVOA	2,300 JN
11.	--	Terphenyl Iso	27.07	SVOA	500 JN
12.	57-11-4	Octadecanoic acid	27.23	SVOA	510 JN
13.	--	Unknown PNA + C.E.	27.85	SVOA	650 JN
14.	--	Unknown	29.83	SVOA	340 JN
15.	--	Unknown	32.08	SVOA	230 JN
16.	--	Unknown	32.37	SVOA	560 JN
17.	--	Unknown	33.92	SVOA	830 JN
18.	--	Unknown	35.63	SVOA	250 JN
19.	--	Unknown	36.83	SVOA	380 JN
20.	--	Unknown	38.15	SVOA	1,200 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971AF
LIMS ID: 97-18056
Matrix: Sediment
Data Release Authorized: [illegible]
Reported: 11/24/97

Sample No: 9739 4734
DILUTION

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/13/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:3
Percent Moisture: 52.4%
pH: 7.4

CAS Number	Analyte	ug/kg
108-95-2	Phenol	60 U
111-44-4	Bis-(2-Chloroethyl) Ether	120 U
95-57-8	2-Chlorophenol	60 U
541-73-1	1,3-Dichlorobenzene	60 U
106-46-7	1,4-Dichlorobenzene	60 U
100-51-6	Benzyl Alcohol	60 U
95-50-1	1,2-Dichlorobenzene	60 U
95-48-7	2-Methylphenol	60 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	60 U
106-44-5	**4-Methylphenol**	**660**
621-64-7	N-Nitroso-Di-N-Propylamine	120 U
67-72-1	Hexachloroethane	60 U
98-95-3	Nitrobenzene	60 U
78-59-1	Isophorone	60 U
88-75-5	2-Nitrophenol	300 U
105-67-9	2,4-Dimethylphenol	60 U
65-85-0	Benzoic Acid	600 U
111-91-1	bis(2-Chloroethoxy) Methane	60 U
120-83-2	2,4-Dichlorophenol	180 U
120-82-1	1,2,4-Trichlorobenzene	60 U
91-20-3	**Naphthalene**	**68**
106-47-8	4-Chloroaniline	180 U
87-68-3	Hexachlorobutadiene	60 U
59-50-7	4-Chloro-3-methylphenol	120 U
91-57-6	2-Methylnaphthalene	60 U
77-47-4	Hexachlorocyclopentadiene	300 U
88-06-2	2,4,6-Trichlorophenol	300 U
95-95-4	2,4,5-Trichlorophenol	300 U
91-58-7	2-Chloronaphthalene	60 U
88-74-4	2-Nitroaniline	300 U
131-11-3	Dimethylphthalate	60 U
208-96-8	Acenaphthylene	60 U
99-09-2	3-Nitroaniline	360 U
83-32-9	**Acenaphthene**	**160**
51-28-5	2,4-Dinitrophenol	600 U
100-02-7	4-Nitrophenol	300 U
132-64-9	**Dibenzofuran**	**70**
606-20-2	2,6-Dinitrotoluene	300 U

FORM-1

00530

JMB 1/23/9

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971AF
LIMS ID: 97-18056
Matrix: Sediment
Data Release Authorized: GMB
Reported: 11/24/97

Sample No.: 9739 4734
DILUTION

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/13/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:3
Percent Moisture: 52.4%
pH: 7.4

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	300 U
84-66-2	Diethylphthalate	60 U
7005-72-3	4-Chlorophenyl-phenylether	60 U
86-73-7	**Fluorene**	**200**
100-01-6	4-Nitroaniline	300 U
534-52-1	4,6-Dinitro-2-Methylphenol	600 U
86-30-6	N-Nitrosodiphenylamine	60 U
101-55-3	4-Bromophenyl-phenylether	60 U
118-74-1	Hexachlorobenzene	60 U
87-86-5	Pentachlorophenol	300 U
85-01-8	**Phenanthrene**	**1,500**
86-74-8	**Carbazole**	**60**
120-12-7	**Anthracene**	**200**
84-74-2	Di-n-Butylphthalate	60 U
206-44-0	**Fluoranthene**	**1,900**
129-00-0	**Pyrene**	**1,800**
85-68-7	**Butylbenzylphthalate**	**61**
91-94-1	3,3'-Dichlorobenzidine	300 U
56-55-3	**Benzo(a)anthracene**	**820**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**1,700**
218-01-9	**Chrysene**	**1,100**
117-84-0	Di-n-Octyl phthalate	60 U
205-99-2	**Benzo(b)fluoranthene**	**790**
207-08-9	**Benzo(k)fluoranthene**	**640**
50-32-8	**Benzo(a)pyrene**	**780**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**410**
53-70-3	**Dibenz(a,h)anthracene**	**120**
191-24-2	**Benzo(g,h,i)perylene**	**390**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	84.0%	d5-Phenol	74.3%
2-Fluorobiphenyl	81.0%	2-Fluorophenol	57.0%
d14-p-Terphenyl	82.2%	2,4,6-Tribromophenol	82.6%
d4-1,2-Dichlorobenzene	61.4%	d4-2-Chlorophenol	67.9%

FORM-1

2889 GMB 1/23/9:

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4734
DILUTION

Lab Sample ID: T971AF
LIMS ID: 97-18056
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/23/97
Date Received: 09/27/97

Data Release Authorized:
Reported: 11/24/97

Date Analyzed: 11/13/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	103-82-2	Benzeneacetic_acid	13.78	SVOA	1,400 JN
2.	---	Unknown	24.02	SVOA	1,100 JN
3.	---	Unknown	24.33	SVOA	2,100 JN
4.	57-10-3	Hexadecanoic_acid	24.48	SVOA	1,600 JN
5.	---	Unknown	26.58	SVOA	760 JN
6.	---	Terphenyl_Iso	26.75	SVOA	570 JN
7.	57-11-4	Octadecanoic_acid	26.85	SVOA	740 JN
8.	---	Unknown_PNA_+_C.E.	27.50	SVOA	710 JN
9.	---	Unknown	32.02	SVOA	1,300 J
10.	---	Unknown	32.78	SVOA	790 J
11.	---	Unknown	33.60	SVOA	1,100 J
12.	---	Unknown_PNA	33.98	SVOA	1,000 J
13.	---	Unknown	34.57	SVOA	640 J
14.	---	Unknown	35.75	SVOA	560 J
15.	---	Unknown	36.07	SVOA	580 J
16.	80-97-7	Cholestanol	36.38	SVOA	630 JN
17.	---	Unknown_Sterol	36.48	SVOA	700 JN
18.	---	Unknown	37.22	SVOA	1,200 J
19.	---	Unknown_Sterol	37.87	SVOA	3,600 J
20.	---	Unknown	38.47	SVOA	740 J

FORM-1-B

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JMB 1/23/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971AG
LIMS ID: 97-18057
Matrix: Sediment
Data Release Authorized: BWB
Reported: 11/20/97

Sample No: 9739 4736
WR-SD-SD125-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/05/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 52.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 50.3%
pH: 7.2

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U J
106-44-5	**4-Methylphenol**	**870**
621-64-7	N-Nitroso-Di-N-Propylamine	38 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U J
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	95 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	57 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	Naphthalene	19 U
106-47-8	4-Chloroaniline	57 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	95 U
88-06-2	2,4,6-Trichlorophenol	95 U
95-95-4	2,4,5-Trichlorophenol	95 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	95 U J
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	110 U
83-32-9	Acenaphthene	19 U
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	95 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	95 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971AG
LIMS ID: 97-18057
Matrix: Sediment
Data Release Authorized: BNB
Reported: 11/20/97

Sample No: 9739 4736
WR-SD-SD125-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/05/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 52.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 50.3%
pH: 7.2

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	95 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	Fluorene	19 U
100-01-6	4-Nitroaniline	95 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	95 U
85-01-8	**Phenanthrene**	**28**
86-74-8	Carbazole	19 U
120-12-7	Anthracene	19 U
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**45**
129-00-0	**Pyrene**	**57**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	95 U
56-55-3	**Benzo(a)anthracene**	**22**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**250**
218-01-9	**Chrysene**	**35**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**24**
207-08-9	**Benzo(k)fluoranthene**	**24**
50-32-8	**Benzo(a)pyrene**	**30**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**24**
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	Benzo(g,h,i)perylene	19 U

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	60.3%	d5-Phenol	50.6%
2-Fluorobiphenyl	44.1%	2-Fluorophenol	28.7%
d14-p-Terphenyl	70.7%	2,4,6-Tribromophenol	71.2%
d4-1,2-Dichlorobenzene	40.8%	d4-2-Chlorophenol	41.2%

FORM-1

09534

2947 JME 11/23/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4736
WR-SD-SD125-0000

Lab Sample ID: T971AG
LIMS ID: 97-18057
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Data Release Authorized: MP
Reported: 11/20/97

Date Analyzed: 11/05/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	503-74-2	Butanoic_acid,_3-methyl-_	6.32	SVOA	1,200 JN
2.	103-82-2	Benzeneacetic_acid_____	14.55	SVOA	1,600 JN
3.	--	Unknown_____	22.42	SVOA	500 JN
4.	1002-84-2	Pentadecanoic_acid_____	23.30	SVOA	690 JN
5.	--	Unknown_____	23.42	SVOA	680 JN
6.	--	Unknown_____	23.88	SVOA	500 JN
7.	--	Unknown_____	24.88	SVOA	2,000 JN
8.	2091-29-4	9-Hexadecenoic_acid_____	24.98	SVOA	590 JN
9.	57-10-3	Hexadecanoic_acid_____	25.15	SVOA	1,800 JN
10.	--	Unknown_____	25.60	SVOA	350 JN
11.	--	Unknown_Organic_Acid_____	27.28	SVOA	1,600 JN
12.	--	Unknown_____	29.37	SVOA	270 JN
13.	--	Unknown_____	34.22	SVOA	440 JN
14.	--	Unknown_Aldehyde_____	34.28	SVOA	550 JN
15.	--	Unknown_____	34.55	SVOA	260 JN
16.	--	Octadecenal_Iso_____	36.08	SVOA	330 JN
17.	57-88-5	Cholesterol_____	37.00	SVOA	1,200 JN
18.	--	Unknown_Sterol_____	37.37	SVOA	780 JN
19.	4651-51-8	Ergost-5-en-3-ol,_(3.beta	37.82	SVOA	360 JN
20.	83-47-6	.gamma.-Sitosterol_____	38.52	SVOA	2,200 JN

FORM-1-B

99535

JMB 2948
1/23/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971AH
LIMS ID: 97-18058
Matrix: Sediment
Data Release Authorized:
Reported: 11/20/97

Sample No: 9739 4738
WR-SD-SD127-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/11/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 52.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 48.2%
pH: 7.2

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U
106-44-5	**4-Methylphenol**	**570**
621-64-7	N-Nitroso-Di-N-Propylamine	38 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	96 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	Naphthalene	19 U
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	96 U
88-06-2	2,4,6-Trichlorophenol	96 U
95-95-4	2,4,5-Trichlorophenol	96 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	96 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U
83-32-9	Acenaphthene	19 U
51-28-5	2,4-Dinitrophenol	190 U
100-02-7	4-Nitrophenol	96 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	96 U

FORM-1

JMB 1/23/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS

Lab Sample ID: T971AH
LIMS ID: 97-18058
Matrix: Sediment
Data Release Authorized: MB
Reported: 11/20/97

Sample No: 9739 4738 WR-SD-SD127-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/11/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 52.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 48.2%
pH: 7.2

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	96 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	Fluorene	19 U
100-01-6	4-Nitroaniline	96 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	96 U
85-01-8	**Phenanthrene**	**25**
86-74-8	Carbazole	19 U
120-12-7	Anthracene	19 U
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**45**
129-00-0	**Pyrene**	**48**
85-68-7	**Butylbenzylphthalate**	**18 J**
91-94-1	3,3'-Dichlorobenzidine	96 U
56-55-3	**Benzo(a)anthracene**	**20**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**160**
218-01-9	**Chrysene**	**31**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**22**
207-08-9	**Benzo(k)fluoranthene**	**24**
50-32-8	**Benzo(a)pyrene**	**24**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**24**
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	Benzo(g,h,i)perylene	19 U

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	58.4%	d5-Phenol	52.5%
2-Fluorobiphenyl	61.3%	2-Fluorophenol	46.8%
d14-p-Terphenyl	71.3%	2,4,6-Tribromophenol	82.4%
d4-1,2-Dichlorobenzene	45.2%	d4-2-Chlorophenol	49.4%

FORM-1

JMB 2997
1/23/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4738
WR-SD-SD127-0000

Lab Sample ID: T971AH
LIMS ID: 97-18058
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Data Release Authorized: CWP
Reported: 11/20/97

Date Analyzed: 11/11/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	103-82-2	Benzeneacetic_acid	14.22	SVOA	920 JN
2.	544-63-8	Tetradecanoic_acid	22.07	SVOA	320 JN
3.	1002-84-2	Pentadecanoic_acid	22.95	SVOA	600 JN
4.	5746-58-7	Tetradecanoic_acid,_12-me	23.07	SVOA	500 JN
5.	--	Unknown	24.52	SVOA	1,400 JN
6.	2091-29-4	9-Hexadecenoic_acid	24.62	SVOA	510 JN
7.	57-10-3	Hexadecanoic_acid	24.78	SVOA	1,100 JN
8.	--	Unknown	25.25	SVOA	260 JN
9.	112-80-1	Oleic_Acid	26.92	SVOA	2,600 JN
10.	7396-38-5	Phenanthrene,_2,4,5,7-tet	27.78	SVOA	580 JN
11.	--	Unknown	32.07	SVOA	720 JN
12.	--	Unknown_Aldehyde	33.92	SVOA	1,600 JN
13.	--	Unknown	34.82	SVOA	900 JN
14.	--	Unknown	36.27	SVOA	1,500 JN
15.	57-88-5	Cholesterol	36.58	SVOA	1,000 JN
16.	--	Unknown	36.98	SVOA	1,100 JN
17.	4651-51-8	Ergost-5-en-3-ol,_(3.beta	37.45	SVOA	1,100 JN
18.	83-47-6	.gamma.-Sitosterol	38.13	SVOA	4,500 JN
19.	--	Unknown	38.55	SVOA	1,200 JN
20.	--	Unknown	38.75	SVOA	970 JN

FORM-1-B

JMB 1/23/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971AI
LIMS ID: 97-18059
Matrix: Sediment
Data Release Authorized:
Reported: 11/20/97

Sample No: 9739 4739
WR-SD-SD130-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/11/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.5 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 48.7%
pH: 7.1

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U
106-44-5	**4-Methylphenol**	**630**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	97 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	Naphthalene	19 U
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	97 U
88-06-2	2,4,6-Trichlorophenol	97 U
95-95-4	2,4,5-Trichlorophenol	97 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	97 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U
83-32-9	Acenaphthene	19 U
51-28-5	2,4-Dinitrophenol	190 U
100-02-7	4-Nitrophenol	97 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	97 U

FORM-1

JMB 1/23/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS

Lab Sample ID: T971AI
LIMS ID: 97-18059
Matrix: Sediment
Data Release Authorized: AMB
Reported: 11/20/97

Sample No: 9739 4739
WR-SD-SD130-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/11/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.5 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 48.7%
pH: 7.1

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	97 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	Fluorene	19 U
100-01-6	4-Nitroaniline	97 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	97 U
85-01-8	**Phenanthrene**	**33**
86-74-8	Carbazole	19 U
120-12-7	Anthracene	19 U
84-74-2	**Di-n-Butylphthalate**	**30**
206-44-0	**Fluoranthene**	**53**
129-00-0	**Pyrene**	**51**
85-68-7	**Butylbenzylphthalate**	**33**
91-94-1	3,3'-Dichlorobenzidine	97 U
56-55-3	**Benzo(a)anthracene**	**23**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**400**
218-01-9	**Chrysene**	**35**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**26**
207-08-9	**Benzo(k)fluoranthene**	**30**
50-32-8	**Benzo(a)pyrene**	**29**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**26**
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	**Benzo(g,h,i)perylene**	**20**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	50.8%	d5-Phenol	49.1%
2-Fluorobiphenyl	60.9%	2-Fluorophenol	44.5%
d14-p-Terphenyl	71.9%	2,4,6-Tribromophenol	81.2%
d4-1,2-Dichlorobenzene	40.6%	d4-2-Chlorophenol	43.8%

FORM-1

3050 JMB 1/23/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4739
WR-SD-SD130-0000

Lab Sample ID: T971AI
LIMS ID: 97-18059
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Data Release Authorized:
Reported: 11/20/97

Date Analyzed: 11/11/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	503-74-2	Butanoic_acid,_3-methyl-_	6.08	SVOA	550 JN
2.	103-82-2	Benzeneacetic_acid_____	14.25	SVOA	1,200 JN
3.	544-63-8	Tetradecanoic_acid_____	22.08	SVOA	440 JN
4.	1002-84-2	Pentadecanoic_acid_____	22.97	SVOA	800 JN
5.	--	Unknown_____	23.08	SVOA	710 JN
6.	--	Unknown_____	23.55	SVOA	420 JN
7.	2091-29-4	9-Hexadecenoic_acid_____	24.53	SVOA	2,000 JN
8.	57-10-3	Hexadecanoic_acid_____	24.82	SVOA	2,100 JN
9.	112-80-1	Oleic_Acid_____	26.88	SVOA	3,000 JN
10.	57-11-4	Octadecanoic_acid_____	27.13	SVOA	840 JN
11.	--	Unknown_____	33.83	SVOA	1,200 JN
12.	--	Unknown_Aldehyde_____	33.92	SVOA	1,100 JN
13.	--	Unknown_____	36.28	SVOA	1,600 JN
14.	57-88-5	Cholesterol_____	36.58	SVOA	2,000 JN
15.	--	Unknown_____	36.98	SVOA	1,200 JN
16.	26047-31-4	Ergost-7-en-3-ol,_(3.beta	37.45	SVOA	1,100 JN
17.	83-47-6	.gamma.-Sitosterol_____	38.13	SVOA	5,800 JN
18.	638-95-9	.alpha.-Amyrin_____	38.40	SVOA	1,500 JN
19.	--	Unknown_____	38.55	SVOA	2,400 JN
20.	--	Unknown_____	38.75	SVOA	980 JN

FORM-1-B

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JMB
1/23/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971AJ
LIMS ID: 97-18060
Matrix: Sediment
Data Release Authorized: [illegible]
Reported: 11/21/97

Sample No: 9739 4741
WR-SD-SD104-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/20/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 46.0%
pH: 6.7

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U
106-44-5	**4-Methylphenol**	**1,300**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	97 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	Naphthalene	19 U
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	97 U
88-06-2	2,4,6-Trichlorophenol	97 U
95-95-4	2,4,5-Trichlorophenol	97 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	97 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U
83-32-9	Acenaphthene	19 U
51-28-5	2,4-Dinitrophenol	190 U
100-02-7	4-Nitrophenol	97 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	97 U

FORM-1

JMB 1/23/98
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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971AJ
LIMS ID: 97-18060
Matrix: Sediment
Data Release Authorized: JNB
Reported: 11/21/97

Sample No: 9739 4741
WR-SD-SD104-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/20/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 46.0%
pH: 6.7

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	97 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	Fluorene	19 U
100-01-6	4-Nitroaniline	97 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	97 U
85-01-8	**Phenanthrene**	**40**
86-74-8	Carbazole	19 U
120-12-7	Anthracene	19 U
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**86**
129-00-0	**Pyrene**	**78**
85-68-7	**Butylbenzylphthalate**	**19 J**
91-94-1	3,3'-Dichlorobenzidine	97 U
56-55-3	**Benzo(a)anthracene**	**34**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**320**
218-01-9	**Chrysene**	**58**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**54**
207-08-9	**Benzo(k)fluoranthene**	**42**
50-32-8	**Benzo(a)pyrene**	**49**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**48**
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	**Benzo(g,h,i)perylene**	**47**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	68.7%	d5-Phenol	71.1%
2-Fluorobiphenyl	78.0%	2-Fluorophenol	61.5%
d14-p-Terphenyl	81.2%	2,4,6-Tribromophenol	120%
d4-1,2-Dichlorobenzene	58.0%	d4-2-Chlorophenol	63.7%

FORM-1

JMB 1/23/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4741
WR-SD-SD104-0000

Lab Sample ID: T971AJ
LIMS ID: 97-18060
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Data Release Authorized: ANB
Reported: 11/21/97

Date Analyzed: 11/20/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	503-74-2	Butanoic_acid,_3-methyl-_	6.52	SVOA	720 JN
2.	116-53-0	Butanoic_acid,_2-methyl-_	6.95	SVOA	2,300 JN
3.	103-82-2	Benzeneacetic_acid	14.37	SVOA	2,200 JN
4.	544-63-8	Tetradecanoic_acid	22.10	SVOA	540 JN
5.	--	Unknown	22.93	SVOA	680 JN
6.	--	Unknown	23.10	SVOA	640 JN
7.	--	Unknown	23.60	SVOA	690 JN
8.	--	Unknown	24.53	SVOA	1,500 JN
9.	57-10-3	Hexadecanoic_acid	24.80	SVOA	1,500 JN
10.	--	Unknown	25.27	SVOA	280 JN
11.	112-80-1	Oleic_Acid	26.92	SVOA	2,800 JN
12.	--	Unknown	33.88	SVOA	2,100 JN
13.	--	Unknown	36.32	SVOA	1,700 JN
14.	57-88-5	Cholesterol	36.63	SVOA	2,900 JN
15.	--	Unknown	37.02	SVOA	2,000 JN
16.	4651-51-8	Ergost-5-en-3-ol,_(3.beta	37.50	SVOA	2,300 JN
17.	--	Sitosterol_Iso	38.15	SVOA	6,500 JN
18.	--	Unknown	38.43	SVOA	1,800 JN
19.	--	Unknown	38.57	SVOA	1,800 JN
20.	545-47-1	Lupeol	38.77	SVOA	960 JN

FORM-1-B

3105

00544

JMB 1/23/9

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971AK
LIMS ID: 97-18061
Matrix: Sediment
Data Release Authorized:
Reported: 11/20/97

Sample No: 9739 4742
WR-SD-SD105-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/11/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 52.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 50.2%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U
106-44-5	**4-Methylphenol**	**590**
621-64-7	N-Nitroso-Di-N-Propylamine	38 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	95 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	57 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	Naphthalene	19 U
106-47-8	4-Chloroaniline	57 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	95 U
88-06-2	2,4,6-Trichlorophenol	95 U
95-95-4	2,4,5-Trichlorophenol	95 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	95 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	110 U
83-32-9	Acenaphthene	19 U
51-28-5	2,4-Dinitrophenol	190 U
100-02-7	4-Nitrophenol	95 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	95 U

FORM-1

JMB 1/23/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971AK
LIMS ID: 97-18061
Matrix: Sediment
Data Release Authorized: ANB
Reported: 11/20/97

Sample No: 9739 4742
WR-SD-SD105-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/11/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 52.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 50.2%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	95 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	Fluorene	19 U
100-01-6	4-Nitroaniline	95 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	95 U
85-01-8	**Phenanthrene**	**71**
86-74-8	Carbazole	19 U
120-12-7	Anthracene	19 U
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**120**
129-00-0	**Pyrene**	**120**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	95 U
56-55-3	**Benzo(a)anthracene**	**38**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**270**
218-01-9	**Chrysene**	**58**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**36**
207-08-9	**Benzo(k)fluoranthene**	**46**
50-32-8	**Benzo(a)pyrene**	**36**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**29**
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	**Benzo(g,h,i)perylene**	**22**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	51.3%	d5-Phenol	46.9%
2-Fluorobiphenyl	57.0%	2-Fluorophenol	45.1%
d14-p-Terphenyl	74.9%	2,4,6-Tribromophenol	100%
d4-1,2-Dichlorobenzene	42.2%	d4-2-Chlorophenol	43.3%

FORM-1

JMB 1/23/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4742
WR-SD-SD105-0000

Lab Sample ID: T971AK
LIMS ID: 97-18061
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Data Release Authorized: CWB
Reported: 11/20/97

Date Analyzed: 11/11/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	103-82-2	Benzeneacetic_acid	14.25	SVOA	1,300 JN
2.	544-63-8	Tetradecanoic_acid	22.07	SVOA	390 JN
3.	1002-84-2	Pentadecanoic_acid	22.95	SVOA	680 JN
4.	--	Unknown	23.08	SVOA	540 JN
5.	--	Unknown	23.55	SVOA	390 JN
6.	2091-29-4	9-Hexadecenoic_acid	24.53	SVOA	1,500 JN
7.	--	Unknown	24.63	SVOA	620 JN
8.	57-10-3	Hexadecanoic_acid	24.80	SVOA	1,400 JN
9.	112-80-1	Oleic_Acid	26.88	SVOA	2,900 JN
10.	--	Unknown	32.07	SVOA	690 JN
11.	--	Unknown	33.83	SVOA	1,200 JN
12.	--	Octadecenal_Iso	33.92	SVOA	1,200 JN
13.	--	Unknown	36.28	SVOA	1,600 JN
14.	57-88-5	Cholesterol	36.60	SVOA	2,500 JN
15.	--	Unknown	36.98	SVOA	1,400 JN
16.	4651-51-8	Ergost-5-en-3-ol,_(3.beta	37.45	SVOA	1,200 JN
17.	--	Unknown	38.13	SVOA	6,400 JN
18.	638-95-9	.alpha.-Amyrin	38.40	SVOA	1,200 JN
19.	--	Unknown	38.55	SVOA	2,500 JN
20.	--	Unknown	38.75	SVOA	1,200 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971AL
LIMS ID: 97-18062
Matrix: Sediment
Data Release Authorized: [illegible]
Reported: 11/20/97

Sample No: 9739 4743
WR-SD-SD107-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/11/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 52.9%
pH: 7.4

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U
106-44-5	**4-Methylphenol**	**770**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	96 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**21**
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	**2-Methylnaphthalene**	**22**
77-47-4	Hexachlorocyclopentadiene	96 U
88-06-2	2,4,6-Trichlorophenol	96 U
95-95-4	2,4,5-Trichlorophenol	96 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	96 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**54**
51-28-5	2,4-Dinitrophenol	190 U
100-02-7	4-Nitrophenol	96 U
132-64-9	**Dibenzofuran**	**44**
606-20-2	2,6-Dinitrotoluene	96 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971AL
LIMS ID: 97-18062
Matrix: Sediment
Data Release Authorized:
Reported: 11/20/97

Sample No: 9739 4743
WR-SD-SD107-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/11/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 52.9%
pH: 7.4

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	96 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**66**
100-01-6	4-Nitroaniline	96 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	96 U
85-01-8	**Phenanthrene**	**350**
86-74-8	Carbazole	19 U
120-12-7	**Anthracene**	**38**
84-74-2	**Di-n-Butylphthalate**	**23**
206-44-0	**Fluoranthene**	**430**
129-00-0	**Pyrene**	**390**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	96 U
56-55-3	**Benzo(a)anthracene**	**100**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**430**
218-01-9	**Chrysene**	**170**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**84**
207-08-9	**Benzo(k)fluoranthene**	**93**
50-32-8	**Benzo(a)pyrene**	**79**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**52**
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	**Benzo(g,h,i)perylene**	**37**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	50.2%	d5-Phenol	50.8%
2-Fluorobiphenyl	61.0%	2-Fluorophenol	46.1%
d14-p-Terphenyl	76.5%	2,4,6-Tribromophenol	94.6%
d4-1,2-Dichlorobenzene	39.3%	d4-2-Chlorophenol	44.9%

FORM-1

JMB 1/23/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4743
WR-SD-SD107-0000

Lab Sample ID: T971AL
LIMS ID: 97-18062
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Data Release Authorized: RWB
Reported: 11/20/97

Date Analyzed: 11/11/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	103-82-2	Benzeneacetic_acid	14.22	SVOA	1,100 JN
2.	544-63-8	Tetradecanoic_acid	22.08	SVOA	470 JN
3.	1002-84-2	Pentadecanoic_acid	22.97	SVOA	940 JN
4.	5746-58-7	Tetradecanoic_acid,_12-me	23.08	SVOA	580 JN
5.	--	Unknown	23.32	SVOA	320 JN
6.	--	Unknown	23.55	SVOA	440 JN
7.	--	Unknown	23.85	SVOA	350 JN
8.	--	Unknown	24.55	SVOA	640 JN
9.	57-10-3	Hexadecanoic_acid	24.83	SVOA	1,700 JN
10.	112-80-1	Oleic_Acid	26.93	SVOA	1,200 JN
11.	--	Unknown	33.85	SVOA	420 JN
12.	--	Unknown_Aldehyde	33.92	SVOA	450 JN
13.	--	Unknown	36.28	SVOA	670 JN
14.	57-88-5	Cholesterol	36.60	SVOA	1,200 JN
15.	--	Unknown_Sterol_type	36.98	SVOA	620 JN
16.	26047-31-4	Ergost-7-en-3-ol,_(3.beta	37.47	SVOA	500 JN
17.	83-47-6	.gamma.-Sitosterol	38.13	SVOA	2,600 JN
18.	559-70-6	.beta.-Amyrin	38.40	SVOA	700 JN
19.	--	Unknown	38.55	SVOA	960 JN
20.	--	Unknown	38.73	SVOA	400 JN

FORM-1-B

JMB 12/3/97
3208

00550

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971AM
LIMS ID: 97-18063
Matrix: Sediment
Data Release Authorized:
Reported: 11/20/97

Sample No: 9739 4744
WR-SD- SD109-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/11/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 51.9%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U
106-44-5	**4-Methylphenol**	**580**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	99 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**26**
106-47-8	4-Chloroaniline	59 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	99 U
88-06-2	2,4,6-Trichlorophenol	99 U
95-95-4	2,4,5-Trichlorophenol	99 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	99 U
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**49**
51-28-5	2,4-Dinitrophenol	200 U
100-02-7	4-Nitrophenol	99 U
132-64-9	**Dibenzofuran**	**35**
606-20-2	2,6-Dinitrotoluene	99 U

FORM-1

00551

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971AM
LIMS ID: 97-18063
Matrix: Sediment
Data Release Authorized: AOB
Reported: 11/20/97

Sample No: 9739 4744
WR-SD-SD109-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/11/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 51.9%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	99 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	**Fluorene**	**58**
100-01-6	4-Nitroaniline	99 U
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	99 U
85-01-8	**Phenanthrene**	**300**
86-74-8	Carbazole	20 U
120-12-7	**Anthracene**	**34**
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**360**
129-00-0	**Pyrene**	**300**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	99 U
56-55-3	**Benzo(a)anthracene**	**100**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**240**
218-01-9	**Chrysene**	**150**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**100**
207-08-9	**Benzo(k)fluoranthene**	**94**
50-32-8	**Benzo(a)pyrene**	**91**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**57**
53-70-3	Dibenz(a,h)anthracene	20 U
191-24-2	**Benzo(g,h,i)perylene**	**46**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	56.2%	d5-Phenol	57.1%
2-Fluorobiphenyl	63.2%	2-Fluorophenol	52.3%
d14-p-Terphenyl	70.3%	2,4,6-Tribromophenol	91.8%
d4-1,2-Dichlorobenzene	45.4%	d4-2-Chlorophenol	49.3%

FORM-1

3265

09552

JMB 1/23/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4744
WR-SD-SD109-0000

Lab Sample ID: T971AM
LIMS ID: 97-18063
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Data Release Authorized: ALB
Reported: 11/20/97

Date Analyzed: 11/11/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	116-53-0	Butanoic_acid,_2-methyl-_	6.52	SVOA	760 JN
2.	544-63-8	Tetradecanoic_acid_____	22.08	SVOA	330 JN
3.	1002-84-2	Pentadecanoic_acid_____	22.97	SVOA	770 JN
4.	--	Unknown_____	23.10	SVOA	560 JN
5.	102608-53-7	3,7,11,15-Tetramethyl-2-h	23.57	SVOA	380 JN
6.	--	Unknown_____	24.23	SVOA	260 JN
7.	--	Unknown_____	24.55	SVOA	600 JN
8.	--	Unknown_____	24.65	SVOA	450 JN
9.	57-10-3	Hexadecanoic_acid_____	24.82	SVOA	1,300 JN
10.	--	Unknown_____	25.28	SVOA	290 JN
11.	112-80-1	Oleic_Acid_____	26.93	SVOA	870 JN
12.	57-11-4	Octadecanoic_acid_____	27.13	SVOA	290 JN
13.	--	Unknown_Alkyl_PNA_____	27.80	SVOA	260 JN
14.	--	Unknown_____	33.87	SVOA	680 JN
15.	57-88-5	Cholesterol_____	36.62	SVOA	230 JN
16.	--	Unknown_____	37.02	SVOA	640 JN
17.	4651-51-8	Ergost-5-en-3-ol,_(3.beta	37.48	SVOA	530 JN
18.	83-47-6	.gamma.-Sitosterol_____	38.15	SVOA	2,700 JN
19.	--	Unknown_____	38.58	SVOA	1,200 JN
20.	--	Unknown_____	38.77	SVOA	470 JN

FORM-1-B

JMB 1/23/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971AN
LIMS ID: 97-18064
Matrix: Sediment
Data Release Authorized:
Reported: 11/20/97

Sample No: 9739 4745
WR-SD-SD110-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/11/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 51.1%
pH: 7.4

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U
106-44-5	**4-Methylphenol**	**700**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	97 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**34**
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	97 U
88-06-2	2,4,6-Trichlorophenol	97 U
95-95-4	2,4,5-Trichlorophenol	97 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	97 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**39**
51-28-5	2,4-Dinitrophenol	190 U
100-02-7	4-Nitrophenol	97 U
132-64-9	**Dibenzofuran**	**24**
606-20-2	2,6-Dinitrotoluene	97 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS

Lab Sample ID: T971AN
LIMS ID: 97-18064
Matrix: Sediment
Data Release Authorized: DMP
Reported: 11/20/97

Sample No: 9739 4745
WR-SD-SD110-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/11/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 51.1%
pH: 7.4

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	97 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**46**
100-01-6	4-Nitroaniline	97 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	97 U
85-01-8	**Phenanthrene**	**210**
86-74-8	**Carbazole**	**22** ~~Y~~ N
120-12-7	**Anthracene**	**22**
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**180**
129-00-0	**Pyrene**	**160**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	97 U
56-55-3	**Benzo(a)anthracene**	**45**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**130**
218-01-9	**Chrysene**	**64**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**32**
207-08-9	**Benzo(k)fluoranthene**	**45**
50-32-8	**Benzo(a)pyrene**	**44**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**31**
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	**Benzo(g,h,i)perylene**	**20**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	73.1%	d5-Phenol	72.4%
2-Fluorobiphenyl	75.4%	2-Fluorophenol	66.3%
d14-p-Terphenyl	85.4%	2,4,6-Tribromophenol	125%
d4-1,2-Dichlorobenzene	51.4%	d4-2-Chlorophenol	62.4%

FORM-1

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4745
WR-SD-SD110-0000

Lab Sample ID: T971AN
LIMS ID: 97-18064
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Data Release Authorized: BMB
Reported: 11/20/97

Date Analyzed: 11/11/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	79-34-5	Ethane,_1,1,2,2-tetrachlo	6.15	SVOA	1,000 JN~~B~~
2.	--	Unknown	6.60	SVOA	1,300 JN
3.	103-82-2	Benzeneacetic_acid	14.28	SVOA	1,500 JN
4.	544-63-8	Tetradecanoic_acid	22.07	SVOA	340 JN
5.	1002-84-2	Pentadecanoic_acid	22.97	SVOA	910 JN
6.	--	Unknown	23.87	SVOA	330 JN
7.	--	Unknown	24.52	SVOA	1,100 JN
8.	57-10-3	Hexadecanoic_acid	24.78	SVOA	1,000 JN
9.	--	Unknown	26.38	SVOA	800 JN
10.	112-80-1	Oleic_Acid	26.92	SVOA	3,500 JN
11.	--	Unknown_Alkyl_PNA	27.82	SVOA	3,000 JN
12.	--	Unknown	29.33	SVOA	1,200 JN
13.	--	Unknown	32.08	SVOA	1,500 JN
14.	--	Unknown	32.30	SVOA	1,200 JN
15.	--	Unknown	33.85	SVOA	1,200 JN
16.	80-97-7	Cholestanol	36.67	SVOA	1,100 JN
17.	83-47-6	.gamma.-Sitosterol	38.15	SVOA	7,800 JN
18.	559-70-6	.beta.-Amyrin	38.42	SVOA	1,200 JN
19.	--	Unknown	38.57	SVOA	3,900 JN
20.	--	Unknown	38.77	SVOA	2,400 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971AO
LIMS ID: 97-18065
Matrix: Sediment
Data Release Authorized: AOP
Reported: 11/20/97

Sample No: 9739 4746
WR-SD-SD112-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/11/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.5 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 51.1%
pH: 7.5

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U
106-44-5	**4-Methylphenol**	**640**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	97 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	Naphthalene	19 U
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	97 U
88-06-2	2,4,6-Trichlorophenol	97 U
95-95-4	2,4,5-Trichlorophenol	97 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	97 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**25**
51-28-5	2,4-Dinitrophenol	190 U
100-02-7	4-Nitrophenol	97 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	97 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971AO
LIMS ID: 97-18065
Matrix: Sediment
Data Release Authorized:
Reported: 11/20/97

Sample No: 9739 4746
WR-SD-SD112-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/11/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.5 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 51.1%
pH: 7.5

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	97 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**26**
100-01-6	4-Nitroaniline	97 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	97 U
85-01-8	**Phenanthrene**	**150**
86-74-8	Carbazole	19 U
120-12-7	**Anthracene**	**21**
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**370**
129-00-0	**Pyrene**	**270**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	97 U
56-55-3	**Benzo(a)anthracene**	**81**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**130**
218-01-9	**Chrysene**	**110**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**65**
207-08-9	**Benzo(k)fluoranthene**	**76**
50-32-8	**Benzo(a)pyrene**	**71**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**49**
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	**Benzo(g,h,i)perylene**	**37**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	61.8%	d5-Phenol	62.1%
2-Fluorobiphenyl	69.7%	2-Fluorophenol	55.2%
d14-p-Terphenyl	88.0%	2,4,6-Tribromophenol	120%
d4-1,2-Dichlorobenzene	45.1%	d4-2-Chlorophenol	53.1%

FORM-1

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JMB 1/23/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4746
WR-SD-SD112-0000

Lab Sample ID: T971AO
LIMS ID: 97-18065
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Data Release Authorized: RNB
Reported: 11/20/97

Date Analyzed: 11/11/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid	6.15	SVOA	1,200 JN
2.	--	Unknown_Organic_Acid	6.60	SVOA	1,300 JN
3.	103-82-2	Benzeneacetic_acid	14.30	SVOA	1,700 JN
4.	1002-84-2	Pentadecanoic_acid	22.95	SVOA	530 JN
5.	--	Unknown	23.07	SVOA	480 JN
6.	--	Unknown	23.87	SVOA	270 JN
7.	2091-29-4	9-Hexadecenoic_acid	24.50	SVOA	890 JN
8.	--	Unknown	24.60	SVOA	360 JN
9.	57-10-3	Hexadecanoic_acid	24.77	SVOA	730 JN
10.	--	Unknown	26.85	SVOA	880 JN
11.	--	Unknown_Alkyl_PNA	27.80	SVOA	570 JN
12.	--	Unknown	32.07	SVOA	360 JN
13.	--	Unknown	32.27	SVOA	350 JN
14.	57-88-5	Cholesterol	36.58	SVOA	370 JN
15.	80-97-7	Cholestanol	36.67	SVOA	330 JN
16.	--	Unknown	36.98	SVOA	450 JN
17.	4651-51-8	Ergost-5-en-3-ol,_(3.beta	37.45	SVOA	420 JN
18.	--	Unknown	38.12	SVOA	2,200 JN
19.	--	Unknown	38.55	SVOA	1,000 JN
20.	--	Unknown	38.73	SVOA	530 JN

FORM-1-B

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JMB
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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971AP
LIMS ID: 97-18066
Matrix: Sediment
Data Release Authorized:
Reported: 11/20/97

Sample No: 9739 4747
WR-SD-SD113-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/11/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 51.3%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U
106-44-5	**4-Methylphenol**	**1,100**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	98 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**21**
106-47-8	4-Chloroaniline	59 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	98 U
88-06-2	2,4,6-Trichlorophenol	98 U
95-95-4	2,4,5-Trichlorophenol	98 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	98 U
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**26**
51-28-5	2,4-Dinitrophenol	200 U
100-02-7	4-Nitrophenol	98 U
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	98 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971AP
LIMS ID: 97-18066
Matrix: Sediment
Data Release Authorized:
Reported: 11/20/97

Sample No: 9739 4747
WR-SD-SD113-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/11/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 51.3%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	98 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	**Fluorene**	**29**
100-01-6	4-Nitroaniline	98 U
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	98 U
85-01-8	**Phenanthrene**	**150**
86-74-8	Carbazole	20 U
120-12-7	**Anthracene**	**31**
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**180**
129-00-0	**Pyrene**	**150**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	98 U
56-55-3	**Benzo(a)anthracene**	**49**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**210**
218-01-9	**Chrysene**	**72**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**45**
207-08-9	**Benzo(k)fluoranthene**	**51**
50-32-8	**Benzo(a)pyrene**	**48**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**30**
53-70-3	Dibenz(a,h)anthracene	20 U
191-24-2	**Benzo(g,h,i)perylene**	**25**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	75.2%	d5-Phenol	69.1%
2-Fluorobiphenyl	69.8%	2-Fluorophenol	62.8%
d14-p-Terphenyl	88.6%	2,4,6-Tribromophenol	110%
d4-1,2-Dichlorobenzene	54.0%	d4-2-Chlorophenol	62.1%

FORM-1

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4747
WR-SD-SD113-0000

Lab Sample ID: T971AP
LIMS ID: 97-18066
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Data Release Authorized: AWB
Reported: 11/20/97

Date Analyzed: 11/11/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	116-53-0	Butanoic_acid,_2-methyl-_	6.72	SVOA	1,500 JN
2.	544-63-8	Tetradecanoic_acid_____	22.10	SVOA	420 JN
3.	1002-84-2	Pentadecanoic_acid_____	22.98	SVOA	370 JN
4.	--	Unknown_____	23.12	SVOA	740 JN
5.	--	Unknown_____	23.87	SVOA	370 JN
6.	--	Unknown_____	24.57	SVOA	1,700 JN
7.	--	Unknown_____	24.67	SVOA	670 JN
8.	57-10-3	Hexadecanoic_acid_____	24.83	SVOA	1,500 JN
9.	--	Unknown_____	25.28	SVOA	350 JN
10.	--	Unknown_____	25.60	SVOA	330 JN
11.	112-80-1	Oleic_Acid_____	26.95	SVOA	1,300 JN
12.	--	Unknown_Alkyl_PNA_____	27.80	SVOA	370 JN
13.	--	Unknown_____	36.27	SVOA	620 JN
14.	57-88-5	Cholesterol_____	36.60	SVOA	1,100 JN
15.	--	Unknown_____	37.00	SVOA	590 JN
16.	4651-51-8	Ergost-5-en-3-ol,_(3.beta	37.47	SVOA	450 JN
17.	83-47-6	.gamma.-Sitosterol_____	38.15	SVOA	2,900 JN
18.	638-95-9	.alpha.-Amyrin_____	38.42	SVOA	940 JN
19.	--	Unknown_____	38.57	SVOA	960 JN
20.	--	Unknown_____	38.77	SVOA	540 JN

FORM-1-B

3435 JMB 1/23/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971AQ
LIMS ID: 97-18067
Matrix: Sediment
Data Release Authorized: BMK
Reported: 11/21/97

Sample No: 9739 4748
WR-SD-SD114-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/12/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 21.2%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U
106-44-5	4-Methylphenol	20 U
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	98 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	Naphthalene	20 U
106-47-8	4-Chloroaniline	59 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	98 U
88-06-2	2,4,6-Trichlorophenol	98 U
95-95-4	2,4,5-Trichlorophenol	98 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	98 U
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**23**
51-28-5	2,4-Dinitrophenol	200 UJ
100-02-7	4-Nitrophenol	98 UJ
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	98 U

3400

FORM-1

00563

JMB 1/23/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971AQ
LIMS ID: 97-18067
Matrix: Sediment
Data Release Authorized: BVH
Reported: 11/21/97

Sample No: 9739 4748
WR-SD-SD114-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/12/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 21.2%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	98 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	**Fluorene**	**37**
100-01-6	4-Nitroaniline	98 U
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	98 ~~U~~ R
85-01-8	**Phenanthrene**	**180**
86-74-8	**Carbazole**	**21 ~~M~~ N**
120-12-7	**Anthracene**	**27 ~~M~~ N**
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**250**
129-00-0	**Pyrene**	**260**
85-68-7	**Butylbenzylphthalate**	**120**
91-94-1	3,3'-Dichlorobenzidine	98 U
56-55-3	**Benzo(a)anthracene**	**140**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**250**
218-01-9	**Chrysene**	**240**
117-84-0	**Di-n-Octyl phthalate**	**110**
205-99-2	**Benzo(b)fluoranthene**	**200**
207-08-9	**Benzo(k)fluoranthene**	**180**
50-32-8	**Benzo(a)pyrene**	**180**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**160**
53-70-3	Dibenz(a,h)anthracene	20 U
191-24-2	**Benzo(g,h,i)perylene**	**130**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	72.8%	d5-Phenol	68.4%
2-Fluorobiphenyl	81.6%	2-Fluorophenol	51.0%
d14-p-Terphenyl	65.9%	2,4,6-Tribromophenol	61.0%
d4-1,2-Dichlorobenzene	69.0%	d4-2-Chlorophenol	66.0%

3491

FORM-1

30561

JMB 1/23/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4748
WR-SD-SD114-0000

Lab Sample ID: T971AQ
LIMS ID: 97-18067
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Data Release Authorized: BNP
Reported: 11/21/97

Date Analyzed: 11/12/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown	15.73	SVOA	270 JN
2.	--	Unknown_Cycloalkane	16.27	SVOA	250 JN
3.	--	Unknown	16.93	SVOA	1,100 JN
4.	--	Unknown	17.08	SVOA	290 JN
5.	--	Unknown_Cycloalkane	17.30	SVOA	430 JN
6.	--	Unknown	18.13	SVOA	450 JN
7.	--	Unknown	18.30	SVOA	480 JN
8.	--	Naphthalene,_Trimethyl_Is	18.72	SVOA	970 JN
9.	--	Unknown_Cycloalkane_+_C.E	20.60	SVOA	370 JN
10.	--	Unknown_Cycloalkane_+_C.E	20.85	SVOA	430 JN
11.	--	Unknown	23.68	SVOA	350 JN
12.	57-10-3	Hexadecanoic_acid	24.82	SVOA	600 JN
13.	--	Unknown	26.55	SVOA	360 JN
14.	57-11-4	Octadecanoic_acid	27.18	SVOA	290 JN
15.	--	Unknown	28.15	SVOA	280 JN
16.	--	Octadecenal_Iso	34.00	SVOA	430 JN
17.	--	Unknown	38.25	SVOA	500 JN
18.	559-70-6	.beta.-Amyrin	38.52	SVOA	260 JN
19.	--	Unknown	38.60	SVOA	300 JN
20.					

FORM-1-B

3492

00565

JMB
1/23/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971AR
LIMS ID: 97-18068
Matrix: Sediment
Data Release Authorized: BNB
Reported: 11/20/97

Sample No: 9739 4749
WR-SD-SD115-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/11/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 51.6%
pH: 7.5

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U
106-44-5	**4-Methylphenol**	**630**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	98 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	Naphthalene	20 U
106-47-8	4-Chloroaniline	59 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	98 U
88-06-2	2,4,6-Trichlorophenol	98 U
95-95-4	2,4,5-Trichlorophenol	98 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	98 U
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U
83-32-9	Acenaphthene	20 U
51-28-5	2,4-Dinitrophenol	200 U
100-02-7	4-Nitrophenol	98 U
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	98 U

JMB 1/23/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971AR
LIMS ID: 97-18068
Matrix: Sediment
Data Release Authorized: AWB
Reported: 11/20/97

Sample No: 9739 4749
WR-SD-SD115-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/11/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 51.6%
pH: 7.5

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	98 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	Fluorene	20 U
100-01-6	4-Nitroaniline	98 U
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	98 U
85-01-8	**Phenanthrene**	**37**
86-74-8	Carbazole	20 U
120-12-7	Anthracene	20 U
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**74**
129-00-0	**Pyrene**	**69**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	98 U
56-55-3	**Benzo(a)anthracene**	**24**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**120**
218-01-9	**Chrysene**	**40**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**26**
207-08-9	**Benzo(k)fluoranthene**	**25**
50-32-8	**Benzo(a)pyrene**	**32**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**22**
53-70-3	Dibenz(a,h)anthracene	20 U
191-24-2	Benzo(g,h,i)perylene	20 U

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	62.4%	d5-Phenol	62.5%
2-Fluorobiphenyl	64.1%	2-Fluorophenol	60.6%
d14-p-Terphenyl	80.4%	2,4,6-Tribromophenol	106%
d4-1,2-Dichlorobenzene	48.7%	d4-2-Chlorophenol	56.4%

3549

FORM-1

00567

JMB 1/23/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4749
WR-SD-SD115L0000

Lab Sample ID: T971AR
LIMS ID: 97-18068
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Data Release Authorized: BWB
Reported: 11/20/97

Date Analyzed: 11/11/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	503-74-2	Butanoic_acid,_3-methyl-_	6.03	SVOA	570 JN
2.	79-34-5	Ethane,_1,1,2,2-tetrachlo	6.15	SVOA	340 JN
3.	116-53-0	Butanoic_acid,_2-methyl-_	6.43	SVOA	370 JN
4.	103-82-2	Benzeneacetic_acid	14.22	SVOA	920 JN
5.	1002-84-2	Pentadecanoic_acid	22.92	SVOA	430 JN
6.	--	Unknown	23.05	SVOA	390 JN
7.	--	Unknown	24.48	SVOA	890 JN
8.	57-10-3	Hexadecanoic_acid	24.73	SVOA	580 JN
9.	112-80-1	Oleic_Acid	26.88	SVOA	1,300 JN
10.	--	Unknown_Alkyl_PNA	27.80	SVOA	1,300 JN
11.	--	Unknown	32.07	SVOA	380 JN
12.	--	Unknown_Aldehyde	33.90	SVOA	780 JN
13.	--	Unknown	34.23	SVOA	350 JN
14.	57-88-5	Cholesterol	36.57	SVOA	630 JN
15.	--	Unknown	36.97	SVOA	640 JN
16.	26047-31-4	Ergost-7-en-3-ol,_(3.beta	37.45	SVOA	480 JN
17.	--	Unknown	38.18	SVOA	1,700 JN
18.	559-70-6	.beta.-Amyrin	38.38	SVOA	880 JN
19.	--	Unknown	38.53	SVOA	1,600 JN
20.	--	Unknown	38.73	SVOA	850 JN

3550

FORM-1-B

00568

JMB 1/23/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971AS
LIMS ID: 97-18069
Matrix: Sediment
Data Release Authorized: BWB
Reported: 11/21/97

Sample No: 9739 4750
WR-SD-SD117-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/12/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 33.1%
pH: 7.4

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	40 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U
106-44-5	**4-Methylphenol**	**210**
621-64-7	N-Nitroso-Di-N-Propylamine	40 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	100 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	60 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**24**
106-47-8	4-Chloroaniline	60 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	40 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	100 U
88-06-2	2,4,6-Trichlorophenol	100 U
95-95-4	2,4,5-Trichlorophenol	100 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	100 U
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U
83-32-9	Acenaphthene	20 U
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	100 U J
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	100 U

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FORM-1

00569

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971AS
LIMS ID: 97-18069
Matrix: Sediment
Data Release Authorized: BNB
Reported: 11/21/97

Sample No: 9739 4750
WR-SD-SD117-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/12/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 33.1%
pH: 7.4

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	100 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	Fluorene	20 U
100-01-6	4-Nitroaniline	100 U
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	100 U
85-01-8	**Phenanthrene**	**90**
86-74-8	Carbazole	20 U
120-12-7	**Anthracene**	**24**
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**100**
129-00-0	**Pyrene**	**160**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	100 U
56-55-3	**Benzo(a)anthracene**	**58**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**63**
218-01-9	**Chrysene**	**74**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**44**
207-08-9	**Benzo(k)fluoranthene**	**64**
50-32-8	**Benzo(a)pyrene**	**67**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**43**
53-70-3	Dibenz(a,h)anthracene	20 U
191-24-2	**Benzo(g,h,i)perylene**	**47**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	66.1%	d5-Phenol	68.4%
2-Fluorobiphenyl	78.0%	2-Fluorophenol	52.5%
d14-p-Terphenyl	85.7%	2,4,6-Tribromophenol	79.5%
d4-1,2-Dichlorobenzene	62.5%	d4-2-Chlorophenol	66.0%

FORM-1

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JMB 1/23/98

00570

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4750
WR-SD-SD117-0000

Lab Sample ID: T971AS
LIMS ID: 97-18069
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Data Release Authorized: BNB
Reported: 11/21/97

Date Analyzed: 11/12/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	103-82-2	Benzeneacetic_acid	14.13	SVOA	300 JN
2.	483-77-2	Naphthalene,_1,2,3,4-tetr	18.60	SVOA	100 JN
3.	544-63-8	Tetradecanoic_acid	22.08	SVOA	100 JN
4.	1002-84-2	Pentadecanoic_acid	22.95	SVOA	97 JN
5.	--	Unknown	24.23	SVOA	270 JN
6.	--	Unknown	24.75	SVOA	2,800 JN
7.	--	Unknown	24.95	SVOA	130 JN
8.	--	Unknown	25.07	SVOA	190 JN
9.	--	Unknown	25.23	SVOA	100 JN
10.	--	Unknown	26.52	SVOA	770 JN
11.	--	Unknown	28.47	SVOA	130,000 JN
12.	--	Unknown	30.75	SVOA	2,200 JN
13.	112-85-6	Docosanoic_acid	31.50	SVOA	720 JN
14.	--	Unknown_Acid_Ester	31.73	SVOA	1,600 JN
15.	--	Unknown	32.38	SVOA	350 JN
16.	--	Unknown	33.97	SVOA	620 JN
17.	14982-53-7	Cholestane	34.28	SVOA	500 JN
18.	--	Unknown	37.50	SVOA	580 JN
19.	--	Unknown	38.20	SVOA	1,500 JN
20.	--	Unknown	38.62	SVOA	400 JN

3599

FORM-1-B

00571

JMB 1/23/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971AT
LIMS ID: 97-18070
Matrix: Sediment
Data Release Authorized: ABB
Reported: 11/21/97

Sample No: 9739 4751
WR-SD-SD117-1000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/12/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 32.9%
pH: 7.4

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	40 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U
106-44-5	**4-Methylphenol**	**360**
621-64-7	N-Nitroso-Di-N-Propylamine	40 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	99 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	60 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**35**
106-47-8	4-Chloroaniline	60 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	40 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	99 U
88-06-2	2,4,6-Trichlorophenol	99 U
95-95-4	2,4,5-Trichlorophenol	99 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	99 U
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**25**
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	99 U J
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	99 U

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FORM-1

JMB 1/23/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971AT
LIMS ID: 97-18070
Matrix: Sediment
Data Release Authorized: AWH
Reported: 11/21/97

Sample No: 9739 4751
WR-SD- SD117-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/12/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 32.9%
pH: 7.4

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	99 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	Fluorene	20 U
100-01-6	4-Nitroaniline	99 U
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	99 U
85-01-8	**Phenanthrene**	**110**
86-74-8	Carbazole	20 U
120-12-7	**Anthracene**	**21**
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**120**
129-00-0	**Pyrene**	**180**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	99 U
56-55-3	**Benzo(a)anthracene**	**66**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**180**
218-01-9	**Chrysene**	**86**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**63**
207-08-9	**Benzo(k)fluoranthene**	**58**
50-32-8	**Benzo(a)pyrene**	**77**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**58**
53-70-3	Dibenz(a,h)anthracene	20 U
191-24-2	**Benzo(g,h,i)perylene**	**62**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	73.4%	d5-Phenol	78.1%
2-Fluorobiphenyl	85.5%	2-Fluorophenol	61.5%
d14-p-Terphenyl	88.8%	2,4,6-Tribromophenol	84.9%
d4-1,2-Dichlorobenzene	71.4%	d4-2-Chlorophenol	72.9%

FORM-1

3052 JMB 1/23/9

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4751
WR-SD-SD117-1000

Lab Sample ID: T971AT
LIMS ID: 97-18070
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Data Release Authorized: AVB
Reported: 11/21/97

Date Analyzed: 11/12/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Naphthalene,_Dimethyl_Iso	16.93	SVOA	180 JN
2.	156-38-7	Benzeneacetic_acid,_4-hyd	19.17	SVOA	200 JN
3.	544-63-8	Tetradecanoic_acid	22.12	SVOA	140 JN
4.	--	Unknown_Organic_Acid	22.97	SVOA	180 JN
5.	--	Unknown_PNA_+_C.E.	24.25	SVOA	200 JN
6.	--	Unknown	24.52	SVOA	140 JN
7.	57-10-3	Hexadecanoic_acid	24.78	SVOA	360 JN
8.	--	Unknown	25.07	SVOA	120 JN
9.	--	Unknown	25.53	SVOA	120 JN
10.	112-80-1	Oleic_Acid	26.90	SVOA	340 JN
11.	--	Unknown_Alkyl_PNA	27.95	SVOA	3,300 JN
12.	--	Unknown	29.92	SVOA	390 JN
13.	112-85-6	Docosanoic_acid	31.50	SVOA	520 JN
14.	--	Unknown_Acid_Ester	31.73	SVOA	510 JN
15.	--	Unknown	32.38	SVOA	330 JN
16.	--	Unknown_Aldehyde	34.02	SVOA	750 JN
17.	481-21-0	Cholestane	34.28	SVOA	470 JN
18.	--	Unknown	38.27	SVOA	1,200 JN
19.	--	Unknown	38.62	SVOA	450 JN
20.					

FORM-1-B

3653

00574

JMB 1/23/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971AU
LIMS ID: 97-18071
Matrix: Sediment
Data Release Authorized: GVB
Reported: 11/21/97

Sample No: 9739 4752
WR-SD-SD118-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/12/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.5 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 32.7%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	40 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U
106-44-5	**4-Methylphenol**	**88**
621-64-7	N-Nitroso-Di-N-Propylamine	40 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	99 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	Naphthalene	20 U
106-47-8	4-Chloroaniline	59 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	40 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	99 U
88-06-2	2,4,6-Trichlorophenol	99 U
95-95-4	2,4,5-Trichlorophenol	99 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	99 U
131-11-3	Dimethylphthalate	20 U
208-96-8	**Acenaphthylene**	**25**
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**20 J**
51-28-5	2,4-Dinitrophenol	200 UJ
100-02-7	4-Nitrophenol	99 UJ
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	99 U

FORM-1

3704

00575

JMB 1/23/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971AU
LIMS ID: 97-18071
Matrix: Sediment
Data Release Authorized:
Reported: 11/21/97

Sample No: 9739 4752
WR-SD-SD118-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/12/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.5 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 32.7%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	99 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	Fluorene	20 U
100-01-6	4-Nitroaniline	99 U
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	99 U
85-01-8	**Phenanthrene**	**290**
86-74-8	Carbazole	20 U
120-12-7	**Anthracene**	**110**
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**260**
129-00-0	**Pyrene**	**460**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	99 U
56-55-3	**Benzo(a)anthracene**	**200**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**59**
218-01-9	**Chrysene**	**260**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**100**
207-08-9	**Benzo(k)fluoranthene**	**170**
50-32-8	**Benzo(a)pyrene**	**220**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**97**
53-70-3	Dibenz(a,h)anthracene	20 U
191-24-2	**Benzo(g,h,i)perylene**	**98**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	66.4%	d5-Phenol	64.6%
2-Fluorobiphenyl	78.4%	2-Fluorophenol	49.6%
d14-p-Terphenyl	83.7%	2,4,6-Tribromophenol	80.3%
d4-1,2-Dichlorobenzene	65.7%	d4-2-Chlorophenol	62.5%

FORM-1

3705

JMB 1/23/98

00576

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4752
WR-SD- SD118-00095

Lab Sample ID: T971AU
LIMS ID: 97-18071
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Data Release Authorized: GVB
Reported: 11/21/97

Date Analyzed: 11/12/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown	15.08	SVOA	160 J N
2.	--	Unknown	16.95	SVOA	210 J N
3.	--	Naphthalene, Trimethyl Is	18.72	SVOA	190 J N
4.	--	Unknown	19.88	SVOA	190 J N
5.	--	Unknown Cycloalkane	20.57	SVOA	120 J N
6.	--	Unknown Cycloalkane	20.82	SVOA	150 J N
7.	--	Unknown PNA + C.E.	23.50	SVOA	150 J N
8.	--	Unknown Alkyl PNA	24.00	SVOA	140 J N
9.	--	Unknown Alkyl PNA	24.33	SVOA	190 J N
10.	57-10-3	Hexadecanoic acid	24.80	SVOA	330 JN
11.	--	Unknown	25.10	SVOA	120 J N
12.	--	Unknown	25.57	SVOA	110 J N
13.	--	Unknown	26.97	SVOA	120 J N
14.	--	Unknown Alkyl PNA + C.E.	27.93	SVOA	320 J N
15.	--	Unknown PNA + C.E.	28.17	SVOA	160 J N
16.	--	Unknown PNA + C.E.	29.90	SVOA	140 J N
17.	--	Unknown	33.97	SVOA	150 J N
18.	--	Unknown	38.28	SVOA	240 J N
19.	--	Unknown	38.63	SVOA	110 J N
20.					

FORM-1-B

3706

00577

MB 1/23/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971AV
LIMS ID: 97-18072
Matrix: Sediment
Data Release Authorized:
Reported: 11/21/97

Sample No: 9739 4753
WR-SD- SD133-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/12/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 52.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 47.9%
pH: 7.5

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U
106-44-5	**4-Methylphenol**	**510**
621-64-7	N-Nitroso-Di-N-Propylamine	38 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	96 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**29**
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	**2-Methylnaphthalene**	**32**
77-47-4	Hexachlorocyclopentadiene	96 U
88-06-2	2,4,6-Trichlorophenol	96 U
95-95-4	2,4,5-Trichlorophenol	96 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	96 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**94**
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	96 U J
132-64-9	**Dibenzofuran**	**67**
606-20-2	2,6-Dinitrotoluene	96 U

FORM-1

3756

00578

JMB 1/23/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971AV
LIMS ID: 97-18072
Matrix: Sediment
Data Release Authorized: BLB
Reported: 11/21/97

Sample No: 9739 4753
WR-SD-SD133-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/12/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 52.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 47.9%
pH: 7.5

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	96 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**100**
100-01-6	4-Nitroaniline	96 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	96 U
85-01-8	**Phenanthrene**	**580**
86-74-8	**Carbazole**	**36**
120-12-7	**Anthracene**	**120**
84-74-2	**Di-n-Butylphthalate**	**37**
206-44-0	**Fluoranthene**	**530**
129-00-0	**Pyrene**	**690**
85-68-7	**Butylbenzylphthalate**	**32**
91-94-1	3,3'-Dichlorobenzidine	96 U
56-55-3	**Benzo(a)anthracene**	**400**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**650**
218-01-9	**Chrysene**	**480**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**330**
207-08-9	**Benzo(k)fluoranthene**	**390**
50-32-8	**Benzo(a)pyrene**	**380**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**240**
53-70-3	**Dibenz(a,h)anthracene**	**38**
191-24-2	**Benzo(g,h,i)perylene**	**210**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	68.7%	d5-Phenol	71.2%
2-Fluorobiphenyl	77.6%	2-Fluorophenol	57.9%
d14-p-Terphenyl	82.9%	2,4,6-Tribromophenol	79.6%
d4-1,2-Dichlorobenzene	66.2%	d4-2-Chlorophenol	70.4%

3757

FORM-1

00570

JMB 1/23/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4753
WR-SD- SD133-0000

Lab Sample ID: T971AV
LIMS ID: 97-18072
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Data Release Authorized:
Reported: 11/21/97

Date Analyzed: 11/12/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	503-74-2	Butanoic_acid,_3-methyl-_	6.13	SVOA	910 JN
2.	79-34-5	Ethane,_1,1,2,2-tetrachlo	6.27	SVOA	290 JN
3.	--	Unknown_Organic_Acid_____	6.80	SVOA	270 JN
4.	--	Unknown_____	8.87	SVOA	280 JN
5.	140-66-9	Phenol,_4-(1,1,3,3-tetram	19.87	SVOA	110 JN
6.	--	Unknown_____	20.68	SVOA	120 JN
7.	--	2,4-Diphenyl-4-methyl-2(Z	21.53	SVOA	260 JN
8.	--	Unknown_____	23.45	SVOA	310 JN
9.	--	Unknown_Alkyl_PNA_____	23.97	SVOA	180 JN
10.	612-94-2	Naphthalene,_2-phenyl-___	24.97	SVOA	200 JN
11.	--	Unknown_____	25.55	SVOA	240 JN
12.	--	Phenanthrene,_Dimethyl_Is	25.77	SVOA	180 JN
13.	--	Unknown_____	26.53	SVOA	180 JN
14.	--	Unknown_____	27.12	SVOA	200 JN
15.	--	Unknown_PNA_+_C.E._____	27.90	SVOA	240 JN
16.	--	Unknown_PNA_+_C.E._____	28.17	SVOA	180 JN
17.	--	Unknown_____	32.15	SVOA	120 JN
18.	563-04-2	Phosphoric_acid,_tris(3-m	32.43	SVOA	120 JN
19.	--	Unknown_PNA_____	34.38	SVOA	130 JN
20.	--	Unknown_____	38.23	SVOA	260 JN

3758

FORM-1-B

00580

JMB 1/23/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971AX
LIMS ID: 97-18073
Matrix: Sediment
Data Release Authorized: ars
Reported: 11/21/97

Sample No: 9739 4755
WR-SD-SD132-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/12/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 40.0%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U
106-44-5	**4-Methylphenol**	**550**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	98 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	Naphthalene	20 U
106-47-8	4-Chloroaniline	59 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	98 U
88-06-2	2,4,6-Trichlorophenol	98 U
95-95-4	2,4,5-Trichlorophenol	98 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	98 U
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U
83-32-9	Acenaphthene	20 U
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	98 U J
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	98 U

FORM-1

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JMB 1/23/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971AX
LIMS ID: 97-18073
Matrix: Sediment
Data Release Authorized: SWB
Reported: 11/21/97

Sample No: 9739 4755
WR-SD-SD132-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/12/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 51.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 40.0%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	98 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	Fluorene	20 U
100-01-6	4-Nitroaniline	98 U
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	98 U
85-01-8	**Phenanthrene**	**32**
86-74-8	Carbazole	20 U
120-12-7	Anthracene	20 U
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**43**
129-00-0	**Pyrene**	**50**
85-68-7	**Butylbenzylphthalate**	**55**
91-94-1	3,3'-Dichlorobenzidine	98 U
56-55-3	**Benzo(a)anthracene**	**29**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**490**
218-01-9	**Chrysene**	**44**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**29**
207-08-9	**Benzo(k)fluoranthene**	**35**
50-32-8	**Benzo(a)pyrene**	**39**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**22**
53-70-3	Dibenz(a,h)anthracene	20 U
191-24-2	**Benzo(g,h,i)perylene**	**25**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	60.6%	d5-Phenol	67.3%
2-Fluorobiphenyl	73.3%	2-Fluorophenol	51.8%
d14-p-Terphenyl	82.9%	2,4,6-Tribromophenol	89.9%
d4-1,2-Dichlorobenzene	65.1%	d4-2-Chlorophenol	63.9%

FORM-1

00582

3817

JMB 1/23k

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4755
WR-SD-SD132-0000

Lab Sample ID: T971AX
LIMS ID: 97-18073
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Data Release Authorized: EVB
Reported: 11/21/97

Date Analyzed: 11/12/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	503-74-2	Butanoic_acid,_3-methyl-_	6.07	SVOA	300 JN
2.	116-53-0	Butanoic_acid,_2-methyl-_	6.47	SVOA	250 JN
3.	103-82-2	Benzeneacetic_acid_____	14.35	SVOA	1,100 JN
4.	544-63-8	Tetradecanoic_acid_____	22.15	SVOA	150 JN
5.	1002-84-2	Pentadecanoic_acid_____	23.02	SVOA	240 JN
6.	--	Unknown_____	24.57	SVOA	440 JN
7.	--	Unknown_____	24.68	SVOA	170 JN
8.	57-10-3	Hexadecanoic_acid_____	24.83	SVOA	480 JN
9.	--	Unknown_____	25.20	SVOA	210 JN
10.	--	Unknown_____	26.50	SVOA	240 JN
11.	112-80-1	Oleic_Acid_____	26.93	SVOA	530 JN
12.	57-11-4	Octadecanoic_acid_____	27.20	SVOA	280 JN
13.	--	Unknown_Alkyl_PNA_+_C.E._	27.90	SVOA	330 JN
14.	--	Unknown_____	29.92	SVOA	220 JN
15.	56803-37-3	Phosphoric_acid,_(1,1-dim	33.20	SVOA	230 JN
16.	--	Unknown_____	33.95	SVOA	350 JN
17.	57-88-5	Cholesterol_____	36.73	SVOA	260 JN
18.	--	Unknown_____	38.27	SVOA	1,100 JN
19.	--	Unknown_____	38.53	SVOA	410 JN
20.	--	Unknown_____	38.62	SVOA	440 JN

FORM-1-B

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971AY
LIMS ID: 97-18074
Matrix: Sediment
Data Release Authorized: BWB
Reported: 11/21/97

Sample No: 9739 4756
WR-SD-SD020-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/12/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 52.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 45.3%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U
106-44-5	**4-Methylphenol**	**370**
621-64-7	N-Nitroso-Di-N-Propylamine	38 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	96 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	Naphthalene	19 U
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	96 U
88-06-2	2,4,6-Trichlorophenol	96 U
95-95-4	2,4,5-Trichlorophenol	96 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	96 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U
83-32-9	**Acenaphthene**	**20**
51-28-5	2,4-Dinitrophenol	190 UJ
100-02-7	4-Nitrophenol	96 UJ
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	96 U

FORM-1

3868

00584

JMB 1/23/9

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971AY
LIMS ID: 97-18074
Matrix: Sediment
Data Release Authorized:
Reported: 11/21/97

Sample No: 9739 4756
WR-SD-SD020-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/12/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 52.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 45.3%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	96 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	Fluorene	19 U
100-01-6	4-Nitroaniline	96 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	96 U
85-01-8	**Phenanthrene**	**88**
86-74-8	Carbazole	19 U
120-12-7	**Anthracene**	**33**
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**96**
129-00-0	**Pyrene**	**120**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	96 U
56-55-3	**Benzo(a)anthracene**	**57**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**120**
218-01-9	**Chrysene**	**82**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**58**
207-08-9	**Benzo(k)fluoranthene**	**66**
50-32-8	**Benzo(a)pyrene**	**78**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**61**
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	**Benzo(g,h,i)perylene**	**49**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	64.5%	d5-Phenol	71.3%
2-Fluorobiphenyl	74.9%	2-Fluorophenol	52.3%
d14-p-Terphenyl	89.0%	2,4,6-Tribromophenol	78.9%
d4-1,2-Dichlorobenzene	65.3%	d4-2-Chlorophenol	67.9%

3869

FORM-1

00585

JMB
1/23/

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4756
WR-SD- SD020-0000

Lab Sample ID: T971AY
LIMS ID: 97-18074
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Data Release Authorized: CVP
Reported: 11/21/97

Date Analyzed: 11/12/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	503-74-2	Butanoic_acid,_3-methyl-_	6.05	SVOA	930 JN
2.	79-34-5	Ethane,_1,1,2,2-tetrachlo	6.27	SVOA	440 JN
3.	103-82-2	Benzeneacetic_acid_____	14.30	SVOA	760 JN
4.	156-38-7	Benzeneacetic_acid,_4-hyd	19.17	SVOA	130 JN
5.	544-63-8	Tetradecanoic_acid_____	22.12	SVOA	130 JN
6.	--	Unknown_____	23.00	SVOA	280 JN
7.	--	Unknown_____	23.13	SVOA	290 JN
8.	1002-84-2	Pentadecanoic_acid_____	23.47	SVOA	130 JN
9.	57-10-3	Hexadecanoic_acid_____	24.30	SVOA	160 JN
10.	--	Unknown_____	24.57	SVOA	470 JN
11.	--	Unknown_____	24.67	SVOA	200 JN
12.	57-10-3	Hexadecanoic_acid_____	24.82	SVOA	500 JN
13.	112-80-1	Oleic_Acid_____	26.97	SVOA	1,100 JN
14.	--	Unknown_Alkyl_PNA_+_C.E._	27.90	SVOA	650 JN
15.	--	Unknown_Aldehyde_____	34.00	SVOA	950 JN
16.	--	Unknown_____	36.40	SVOA	630 JN
17.	--	Unknown_____	37.95	SVOA	430 JN
18.	--	Unknown_____	38.22	SVOA	2,900 JN
19.	--	Unknown_____	38.53	SVOA	980 JN
20.	--	Unknown_____	38.62	SVOA	1,200 JN

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FORM-1-B

00586

JMB
1/23/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971AZ
LIMS ID: 97-18075
Matrix: Sediment
Data Release Authorized: CMB
Reported: 11/24/97

Sample No: 9739 4758
WR-SD-SD138-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/13/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 52.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 47.7%
pH: 7.5

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U
106-44-5	**4-Methylphenol**	**420**
621-64-7	N-Nitroso-Di-N-Propylamine	38 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	95 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	57 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	Naphthalene	19 U
106-47-8	4-Chloroaniline	57 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	95 U
88-06-2	2,4,6-Trichlorophenol	95 U
95-95-4	2,4,5-Trichlorophenol	95 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	95 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	110 U
83-32-9	Acenaphthene	19 U
51-28-5	2,4-Dinitrophenol	190 U
100-02-7	4-Nitrophenol	95 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	95 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971AZ
LIMS ID: 97-18075
Matrix: Sediment
Data Release Authorized: BWB
Reported: 11/24/97

Sample No: 9739 4758
WR-SD-SD138-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/13/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 52.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 47.7%
pH: 7.5

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	95 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	Fluorene	19 U
100-01-6	4-Nitroaniline	95 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	95 U
85-01-8	Phenanthrene	19 U
86-74-8	Carbazole	19 U
120-12-7	Anthracene	19 U
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**34**
129-00-0	**Pyrene**	**32**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	95 U
56-55-3	Benzo(a)anthracene	19 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**120**
218-01-9	**Chrysene**	**25**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**22**
207-08-9	Benzo(k)fluoranthene	19 U
50-32-8	**Benzo(a)pyrene**	**20**
193-39-5	Indeno(1,2,3-cd)pyrene	19 U
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	Benzo(g,h,i)perylene	19 U

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	69.6%	d5-Phenol	66.1%
2-Fluorobiphenyl	76.2%	2-Fluorophenol	52.3%
d14-p-Terphenyl	75.7%	2,4,6-Tribromophenol	99.6%
d4-1,2-Dichlorobenzene	62.0%	d4-2-Chlorophenol	62.6%

FORM-1

3920

JMB 1/23/9

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4758

WR-SD-SD138-0000

Lab Sample ID: T971AZ
LIMS ID: 97-18075
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Data Release Authorized: GNB
Reported: 11/24/97

Date Analyzed: 11/13/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	106-42-3	Xylene_Iso	5.30	SVOA	190 JN
2.	503-74-2	Butanoic_acid,_3-methyl-_	5.63	SVOA	260 JN
3.	79-34-5	Ethane,_1,1,2,2-tetrachlo	5.93	SVOA	900 JN
4.	--	Unknown	6.40	SVOA	220 JN
5.	103-82-2	Benzeneacetic_acid	13.97	SVOA	760 JN
6.	--	Benzaldehyde,_Hydroxy_Iso	15.77	SVOA	81 JN
7.	156-38-7	Benzeneacetic_acid,_4-hyd	18.83	SVOA	120 JN
8.	--	Unknown	22.63	SVOA	110 JN
9.	5746-58-7	Tetradecanoic_acid,_12-me	22.75	SVOA	130 JN
10.	57-10-3	Hexadecanoic_acid	24.43	SVOA	230 JN
11.	--	Unknown	26.60	SVOA	320 JN
12.	--	Unknown_Alkyl_PNA	27.52	SVOA	230 JN
13.	--	Unknown	31.78	SVOA	170 JN
14.	--	Unknown	31.98	SVOA	240 JN
15.	57-88-5	Cholesterol	36.28	SVOA	500 JN
16.	--	Unknown	37.87	SVOA	1,900 JN
17.	--	Unknown	38.12	SVOA	580 JN
18.	--	Unknown	38.27	SVOA	880 JN
19.	--	Unknown	38.45	SVOA	450 JN
20.	1058-61-3	Stigmast-4-en-3-one	38.80	SVOA	200 JN

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971BA
LIMS ID: 97-18076
Matrix: Sediment
Data Release Authorized: ary
Reported: 11/21/97

Sample No: 9739 4759
WR-SD-SD145-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/12/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 41.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 36.5%
pH: 7.4

CAS Number	Analyte	ug/kg
108-95-2	Phenol	24 U
111-44-4	Bis-(2-Chloroethyl) Ether	48 U
95-57-8	2-Chlorophenol	24 U
541-73-1	1,3-Dichlorobenzene	24 U
106-46-7	1,4-Dichlorobenzene	24 U
100-51-6	Benzyl Alcohol	24 U
95-50-1	1,2-Dichlorobenzene	24 U
95-48-7	2-Methylphenol	24 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	24 U
106-44-5	**4-Methylphenol**	**350**
621-64-7	N-Nitroso-Di-N-Propylamine	48 U
67-72-1	Hexachloroethane	24 U
98-95-3	Nitrobenzene	24 U
78-59-1	Isophorone	24 U
88-75-5	2-Nitrophenol	120 U
105-67-9	2,4-Dimethylphenol	24 U
65-85-0	Benzoic Acid	240 U
111-91-1	bis(2-Chloroethoxy) Methane	24 U
120-83-2	2,4-Dichlorophenol	73 U
120-82-1	1,2,4-Trichlorobenzene	24 U
91-20-3	Naphthalene	24 U
106-47-8	4-Chloroaniline	73 U
87-68-3	Hexachlorobutadiene	24 U
59-50-7	4-Chloro-3-methylphenol	48 U
91-57-6	2-Methylnaphthalene	24 U
77-47-4	Hexachlorocyclopentadiene	120 U
88-06-2	2,4,6-Trichlorophenol	120 U
95-95-4	2,4,5-Trichlorophenol	120 U
91-58-7	2-Chloronaphthalene	24 U
88-74-4	2-Nitroaniline	120 U
131-11-3	Dimethylphthalate	24 U
208-96-8	Acenaphthylene	24 U
99-09-2	3-Nitroaniline	150 U
83-32-9	Acenaphthene	24 U
51-28-5	2,4-Dinitrophenol	240 U J
100-02-7	4-Nitrophenol	120 U J
132-64-9	Dibenzofuran	24 U
606-20-2	2,6-Dinitrotoluene	120 U

FORM-1

00590

3964

JMB 1/23/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971BA
LIMS ID: 97-18076
Matrix: Sediment
Data Release Authorized: AWB
Reported: 11/21/97

Sample No: 9739 4759
WR-SD- SD145- 0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/12/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 41.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 36.5%
pH: 7.4

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	120 U
84-66-2	Diethylphthalate	24 U
7005-72-3	4-Chlorophenyl-phenylether	24 U
86-73-7	Fluorene	24 U
100-01-6	4-Nitroaniline	120 U
534-52-1	4,6-Dinitro-2-Methylphenol	240 U
86-30-6	N-Nitrosodiphenylamine	24 U
101-55-3	4-Bromophenyl-phenylether	24 U
118-74-1	Hexachlorobenzene	24 U
87-86-5	Pentachlorophenol	120 U
85-01-8	Phenanthrene	24 U
86-74-8	Carbazole	24 U
120-12-7	Anthracene	24 U
84-74-2	Di-n-Butylphthalate	24 U
206-44-0	**Fluoranthene**	**31**
129-00-0	**Pyrene**	**47**
85-68-7	Butylbenzylphthalate	24 U
91-94-1	3,3'-Dichlorobenzidine	120 U
56-55-3	**Benzo(a)anthracene**	**24 J**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**140**
218-01-9	**Chrysene**	**39**
117-84-0	Di-n-Octyl phthalate	24 U
205-99-2	**Benzo(b)fluoranthene**	**34**
207-08-9	**Benzo(k)fluoranthene**	**37**
50-32-8	**Benzo(a)pyrene**	**38**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**30**
53-70-3	Dibenz(a,h)anthracene	24 U
191-24-2	**Benzo(g,h,i)perylene**	**30**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	61.9%	d5-Phenol	67.5%
2-Fluorobiphenyl	78.4%	2-Fluorophenol	47.7%
d14-p-Terphenyl	89.0%	2,4,6-Tribromophenol	92.2%
d4-1,2-Dichlorobenzene	55.1%	d4-2-Chlorophenol	60.9%

FORM-1

00591

3965

JMB 1/23/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4759
WR-SD-SD145-0000

Lab Sample ID: T971BA
LIMS ID: 97-18076
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Data Release Authorized: AWB
Reported: 11/21/97

Date Analyzed: 11/12/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	116-53-0	Butanoic_acid,_2-methyl-_	6.13	SVOA	660 JN
2.	103-82-2	Benzeneacetic_acid_____	14.27	SVOA	790 JN
3.	--	Benzaldehyde,_Hydroxy_Iso	16.07	SVOA	110 JN
4.	156-38-7	Benzeneacetic_acid,_4-hyd	19.15	SVOA	130 JN
5.	--	Unknown_____	21.60	SVOA	99 JN
6.	--	Unknown_____	21.88	SVOA	100 JN
7.	544-63-8	Tetradecanoic_acid_____	22.12	SVOA	150 JN
8.	1002-84-2	Pentadecanoic_acid_____	23.00	SVOA	260 JN
9.	--	Unknown_Organic_Acid_____	23.12	SVOA	230 JN
10.	--	Unknown_____	23.67	SVOA	100 JN
11.	--	Unknown_Organic_Acid_____	24.28	SVOA	120 JN
12.	--	Unknown_____	24.55	SVOA	540 JN
13.	--	Unknown_____	24.65	SVOA	190 JN
14.	57-10-3	Hexadecanoic_acid_____	24.80	SVOA	500 JN
15.	--	Unknown_____	25.20	SVOA	320 JN
16.	112-80-1	Oleic_Acid_____	26.95	SVOA	660 JN
17.	--	Unknown_Aldehyde_____	34.00	SVOA	420 JN
18.	--	Unknown_____	38.27	SVOA	1,500 JN
19.	--	Unknown_____	38.53	SVOA	540 JN
20.	--	Unknown_____	38.62	SVOA	790 JN

FORM-1-B

3966

JME 1/23/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971BB
LIMS ID: 97-18077
Matrix: Sediment
Data Release Authorized: AVB
Reported: 11/21/97

Sample No: 9739 4760
WR-SD-SD150-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/12/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 42.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 34.3%
pH: 7.5

CAS Number	Analyte	ug/kg
108-95-2	Phenol	23 U
111-44-4	Bis-(2-Chloroethyl) Ether	47 U
95-57-8	2-Chlorophenol	23 U
541-73-1	1,3-Dichlorobenzene	23 U
106-46-7	1,4-Dichlorobenzene	23 U
100-51-6	Benzyl Alcohol	23 U
95-50-1	1,2-Dichlorobenzene	23 U
95-48-7	2-Methylphenol	23 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	23 U
106-44-5	**4-Methylphenol**	**260**
621-64-7	N-Nitroso-Di-N-Propylamine	47 U
67-72-1	Hexachloroethane	23 U
98-95-3	Nitrobenzene	23 U
78-59-1	Isophorone	23 U
88-75-5	2-Nitrophenol	120 U
105-67-9	2,4-Dimethylphenol	23 U
65-85-0	Benzoic Acid	230 U
111-91-1	bis(2-Chloroethoxy) Methane	23 U
120-83-2	2,4-Dichlorophenol	70 U
120-82-1	1,2,4-Trichlorobenzene	23 U
91-20-3	Naphthalene	23 U
106-47-8	4-Chloroaniline	70 U
87-68-3	Hexachlorobutadiene	23 U
59-50-7	4-Chloro-3-methylphenol	47 U
91-57-6	2-Methylnaphthalene	23 U
77-47-4	Hexachlorocyclopentadiene	120 U
88-06-2	2,4,6-Trichlorophenol	120 U
95-95-4	2,4,5-Trichlorophenol	120 U
91-58-7	2-Chloronaphthalene	23 U
88-74-4	2-Nitroaniline	120 U
131-11-3	Dimethylphthalate	23 U
208-96-8	Acenaphthylene	23 U
99-09-2	3-Nitroaniline	140 U
83-32-9	Acenaphthene	23 U
51-28-5	2,4-Dinitrophenol	230 U J
100-02-7	4-Nitrophenol	120 U J
132-64-9	Dibenzofuran	23 U
606-20-2	2,6-Dinitrotoluene	120 U

4013

FORM-1

00593

JMB 1/23/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971BB
LIMS ID: 97-18077
Matrix: Sediment
Data Release Authorized:
Reported: 11/21/97

Sample No: 9739 4760
WR-SD-SD1SD-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/12/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 42.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 34.3%
pH: 7.5

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	120 U
84-66-2	Diethylphthalate	23 U
7005-72-3	4-Chlorophenyl-phenylether	23 U
86-73-7	Fluorene	23 U
100-01-6	4-Nitroaniline	120 U
534-52-1	4,6-Dinitro-2-Methylphenol	230 U
86-30-6	N-Nitrosodiphenylamine	23 U
101-55-3	4-Bromophenyl-phenylether	23 U
118-74-1	Hexachlorobenzene	23 U
87-86-5	Pentachlorophenol	120 U
85-01-8	**Phenanthrene**	**100**
86-74-8	Carbazole	23 U
120-12-7	Anthracene	23 U
84-74-2	Di-n-Butylphthalate	23 U
206-44-0	**Fluoranthene**	**120**
129-00-0	**Pyrene**	**260**
85-68-7	Butylbenzylphthalate	23 U
91-94-1	3,3'-Dichlorobenzidine	120 U
56-55-3	**Benzo(a)anthracene**	**91**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**100**
218-01-9	**Chrysene**	**150**
117-84-0	Di-n-Octyl phthalate	23 U
205-99-2	**Benzo(b)fluoranthene**	**82**
207-08-9	**Benzo(k)fluoranthene**	**96**
50-32-8	**Benzo(a)pyrene**	**140**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**75**
53-70-3	Dibenz(a,h)anthracene	23 U
191-24-2	**Benzo(g,h,i)perylene**	**98**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	68.2%	d5-Phenol	70.6%
2-Fluorobiphenyl	88.1%	2-Fluorophenol	56.7%
d14-p-Terphenyl	86.8%	2,4,6-Tribromophenol	73.7%
d4-1,2-Dichlorobenzene	71.8%	d4-2-Chlorophenol	71.5%

4014

FORM-1

00594

JMB 1/23/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4760
WR-SD-SD150-0000

Lab Sample ID: T971BB
LIMS ID: 97-18077
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Data Release Authorized: BNB
Reported: 11/21/97

Date Analyzed: 11/12/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	116-53-0	Butanoic_acid,_2-methyl-_	5.97	SVOA	400 JN
2.	103-82-2	Benzeneacetic_acid_____	14.20	SVOA	500 JN
3.	--	Unknown_____	19.87	SVOA	120 JN
4.	--	Unknown_Cycloalkane_____	20.78	SVOA	130 JN
5.	--	Unknown_____	21.10	SVOA	250 JN
6.	--	Unknown_____	21.67	SVOA	130 JN
7.	544-63-8	Tetradecanoic_acid_____	22.10	SVOA	120 JN
8.	--	Unknown_____	23.97	SVOA	240 JN
9.	57-10-3	Hexadecanoic_acid_____	24.77	SVOA	230 JN
10.	--	Unknown_____	24.97	SVOA	140 JN
11.	--	Unknown_Sterol_____	27.90	SVOA	310 JN
12.	--	Pyrene,_Methyl_Iso_____	28.45	SVOA	130 JN
13.	--	Unknown_Sterol_____	29.13	SVOA	140 JN
14.	--	Unknown_PNA_+_C.E._____	29.80	SVOA	130 JN
15.	--	Unknown_____	32.42	SVOA	150 JN
16.	481-21-0	Cholestane_____	34.32	SVOA	260 JN
17.	--	Unknown_____	35.00	SVOA	380 JN
18.	--	Unknown_____	36.90	SVOA	200 JN
19.	--	Unknown_____	38.28	SVOA	170 JN
20.	--	Unknown_____	38.63	SVOA	220 JN

JMB 1/23/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971BC
LIMS ID: 97-18078
Matrix: Sediment
Data Release Authorized: BRB
Reported: 11/24/97

Sample No: 9739 4761
WR-SD-SD120-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/13/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 51.8%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U
106-44-5	**4-Methylphenol**	**880**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	99 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	Naphthalene	20 U
106-47-8	4-Chloroaniline	59 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	99 U
88-06-2	2,4,6-Trichlorophenol	99 U
95-95-4	2,4,5-Trichlorophenol	99 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	99 U
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U
83-32-9	Acenaphthene	20 U
51-28-5	2,4-Dinitrophenol	200 U
100-02-7	4-Nitrophenol	99 U
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	99 U

: 4964

FORM-1

00596

JMB 1/23/9

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971BC
LIMS ID: 97-18078
Matrix: Sediment
Data Release Authorized: AWP
Reported: 11/24/97

Sample No: 9739 4761
WR-SD-SD120-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/13/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 51.8%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	99 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	Fluorene	20 U
100-01-6	4-Nitroaniline	99 U
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	99 U
85-01-8	**Phenanthrene**	**25**
86-74-8	Carbazole	20 U
120-12-7	Anthracene	20 U
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**56**
129-00-0	**Pyrene**	**50**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	99 U
56-55-3	**Benzo(a)anthracene**	**23**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**150**
218-01-9	**Chrysene**	**38**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**24**
207-08-9	**Benzo(k)fluoranthene**	**20**
50-32-8	**Benzo(a)pyrene**	**24**
193-39-5	Indeno(1,2,3-cd)pyrene	20 U
53-70-3	Dibenz(a,h)anthracene	20 U
191-24-2	Benzo(g,h,i)perylene	20 U

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	69.3%	d5-Phenol	67.9%
2-Fluorobiphenyl	81.3%	2-Fluorophenol	50.7%
d14-p-Terphenyl	71.5%	2,4,6-Tribromophenol	82.3%
d4-1,2-Dichlorobenzene	56.1%	d4-2-Chlorophenol	62.6%

FORM-1

00597

4065

JMB 1/23/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4761
WR-SD-SD120-0000

Lab Sample ID: T971BC
LIMS ID: 97-18078
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Data Release Authorized: GMB
Reported: 11/24/97

Date Analyzed: 11/13/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid	5.92	SVOA	950 JN
2.	116-53-0	Butanoic_acid,_2-methyl-_	6.35	SVOA	1,000 JN
3.	109-52-4	Pentanoic_acid	6.68	SVOA	280 JN
4.	103-82-2	Benzeneacetic_acid	14.07	SVOA	1,300 JN
5.	544-63-8	Tetradecanoic_acid	21.77	SVOA	150 JN
6.	1002-84-2	Pentadecanoic_acid	22.63	SVOA	180 JN
7.	--	Unknown_Organic_Acid	22.75	SVOA	160 JN
8.	--	Unknown	24.18	SVOA	420 JN
9.	57-10-3	Hexadecanoic_acid	24.43	SVOA	310 JN
10.	--	Unknown	26.58	SVOA	250 JN
11.	--	Unknown_Alkyl_PNA_+_C.E._	27.50	SVOA	310 JN
12.	--	Unknown	31.77	SVOA	220 JN
13.	--	Unknown_Sterol	35.93	SVOA	470 JN
14.	57-88-5	Cholesterol	36.27	SVOA	660 JN
15.	--	Unknown_Sterol	36.68	SVOA	300 JN
16.	4651-51-8	Ergost-5-en-3-ol,_(3.beta	37.17	SVOA	390 JN
17.	--	Unknown	37.92	SVOA	2,200 JN
18.	559-70-6	.beta.-Amyrin	38.10	SVOA	430 JN
19.	--	Unknown	38.25	SVOA	1,300 JN
20.	--	Unknown_Sterol	38.43	SVOA	480 JN

00598

FORM-1 B

4066

JMB 1/23/9

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971BD
LIMS ID: 97-18079
Matrix: Sediment
Data Release Authorized: DWH
Reported: 11/26/97

Sample No: 9739 4762
WR-SD- SD123-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/13/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 52.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 45.4%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U
106-44-5	**4-Methylphenol**	**270**
621-64-7	N-Nitroso-Di-N-Propylamine	38 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	96 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	Naphthalene	19 U
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	96 U
88-06-2	2,4,6-Trichlorophenol	96 U
95-95-4	2,4,5-Trichlorophenol	96 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	96 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U
83-32-9	Acenaphthene	19 U
51-28-5	2,4-Dinitrophenol	190 U
100-02-7	4-Nitrophenol	96 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	96 U

4113

00599

FORM-1

JMB 11/23

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4762
WR-SD-SD123-0000

Lab Sample ID: T971BD
LIMS ID: 97-18079
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Data Release Authorized: JMR
Reported: 02/04/98

Date Analyzed: 11/13/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown Organic Acid	6.40	SVOA	130 JN
2.	--	Unknown	8.53	SVOA	240 ~~JB~~ R
3.	103-82-2	Benzeneacetic acid	13.95	SVOA	530 JN
4.	156-38-7	Benzeneacetic acid, 4-hyd	18.83	SVOA	110 JN
5.	--	Unknown	22.62	SVOA	120 JN
6.	--	Unknown	22.73	SVOA	130 JN
7.	--	Unknown	24.17	SVOA	270 JN
8.	57-10-3	Hexadecanoic acid	24.42	SVOA	160 JN
9.	--	Unknown	24.93	SVOA	130 JN
10.	--	Unknown	26.58	SVOA	210 JN
11.	--	Unknown Alkyl PNA + C.E.	27.52	SVOA	760 JN
12.	--	Unknown	29.52	SVOA	180 JN
13.	--	Unknown	31.77	SVOA	160 JN
14.	--	Unknown PNA + C.E.	31.98	SVOA	270 JN
15.	--	Unknown	33.57	SVOA	110 JN
16.	--	Unknown	36.45	SVOA	120 JN
17.	--	Unknown	37.92	SVOA	1,000 JN
18.	--	Unknown	38.25	SVOA	920 JN
19.	--	Unknown	38.48	SVOA	160 JN
20.	1058-61-3	Stigmast-4-en-3-one	38.78	SVOA	180 JN

FORM-1-B

4114A

JMB 2/5/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971BD
LIMS ID: 97-18079
Matrix: Sediment
Data Release Authorized: CWB
Reported: 11/26/97

Sample No: 9739 4762
WR-SD-SD123-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/13/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 52.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 45.4%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	96 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	Fluorene	19 U
100-01-6	4-Nitroaniline	96 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	96 U
85-01-8	**Phenanthrene**	**33**
86-74-8	Carbazole	19 U
120-12-7	Anthracene	19 U
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**55**
129-00-0	**Pyrene**	**46**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	96 U
56-55-3	**Benzo(a)anthracene**	**20**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**91**
218-01-9	**Chrysene**	**41**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**21**
207-08-9	**Benzo(k)fluoranthene**	**19**
50-32-8	**Benzo(a)pyrene**	**20**
193-39-5	Indeno(1,2,3-cd)pyrene	19 U
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	Benzo(g,h,i)perylene	19 U

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	69.7%	d5-Phenol	62.4%
2-Fluorobiphenyl	78.8%	2-Fluorophenol	46.8%
d14-p-Terphenyl	74.4%	2,4,6-Tribromophenol	77.3%
d4-1,2-Dichlorobenzene	57.9%	d4-2-Chlorophenol	60.1%

FORM-1

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00601

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971BE
LIMS ID: 97-18080
Matrix: Sediment
Data Release Authorized: [illegible]
Reported: 11/24/97

Sample No: 9739 4763 WR-SD-SD131-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/13/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 41.1%
pH: 7.4

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	40 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U
106-44-5	**4-Methylphenol**	**360**
621-64-7	N-Nitroso-Di-N-Propylamine	40 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	100 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	60 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	Naphthalene	20 U
106-47-8	4-Chloroaniline	60 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	40 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	100 U
88-06-2	2,4,6-Trichlorophenol	100 U
95-95-4	2,4,5-Trichlorophenol	100 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	100 U
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U
83-32-9	Acenaphthene	20 U
51-28-5	2,4-Dinitrophenol	200 U
100-02-7	4-Nitrophenol	100 U
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	100 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971BE
LIMS ID: 97-18080
Matrix: Sediment
Data Release Authorized: AVP
Reported: 11/24/97

Sample No: 9739 4763
WR-SD-SD131-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/13/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 41.1%
pH: 7.4

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	100 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	Fluorene	20 U
100-01-6	4-Nitroaniline	100 U
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	100 U
85-01-8	**Phenanthrene**	**39**
86-74-8	Carbazole	20 U
120-12-7	**Anthracene**	**20**
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**78**
129-00-0	**Pyrene**	**69**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	100 U
56-55-3	**Benzo(a)anthracene**	**33**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**210**
218-01-9	**Chrysene**	**60**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**40**
207-08-9	**Benzo(k)fluoranthene**	**33**
50-32-8	**Benzo(a)pyrene**	**41**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**24**
53-70-3	Dibenz(a,h)anthracene	20 U
191-24-2	**Benzo(g,h,i)perylene**	**28**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	62.9%	d5-Phenol	63.1%
2-Fluorobiphenyl	81.8%	2-Fluorophenol	45.8%
d14-p-Terphenyl	82.8%	2,4,6-Tribromophenol	97.1%
d4-1,2-Dichlorobenzene	47.5%	d4-2-Chlorophenol	58.2%

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ANALYTICAL
RESOURCES
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ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4763
WR-SD-SD131-0000

Lab Sample ID: T971BE
LIMS ID: 97-18080
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Data Release Authorized: BNB
Reported: 11/24/97

Date Analyzed: 11/13/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	79-34-5	Ethane,_1,1,2,2-tetrachlo	5.93	SVOA	480 JN
2.	103-82-2	Benzeneacetic_acid	13.97	SVOA	800 JN
3.	544-63-8	Tetradecanoic_acid	21.78	SVOA	180 JN
4.	1002-84-2	Pentadecanoic_acid	22.65	SVOA	300 JN
5.	5746-58-7	Tetradecanoic_acid,_12-me	22.77	SVOA	210 JN
6.	--	Unknown	24.18	SVOA	480 JN
7.	--	Unknown	24.30	SVOA	180 JN
8.	57-10-3	Hexadecanoic_acid	24.45	SVOA	450 JN
9.	112-80-1	Oleic_Acid	26.60	SVOA	690 JN
10.	--	Unknown_Alkyl_PNA_+_C.E._	27.52	SVOA	310 JN
11.	--	Unknown	29.53	SVOA	270 JN
12.	--	Unknown	31.78	SVOA	330 JN
13.	--	Unknown	31.98	SVOA	570 JN
14.	--	Unknown_Aldehyde	33.65	SVOA	360 JN
15.	--	Unknown	36.05	SVOA	400 JN
16.	--	Unknown	36.47	SVOA	610 JN
17.	--	Unknown	37.78	SVOA	340 JN
18.	--	Unknown	37.92	SVOA	2,500 JN
19.	--	Unknown	38.27	SVOA	2,600 JN
20.	1058-61-3	Stigmast-4-en-3-one	38.80	SVOA	540 JN

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971BF
LIMS ID: 97-18081
Matrix: Sediment
Data Release Authorized: ANB
Reported: 11/24/97

Sample No: 9739 4764
WR-SD-SD135-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/13/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 40.9%
pH: 7.5

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	40 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U
106-44-5	**4-Methylphenol**	**340**
621-64-7	N-Nitroso-Di-N-Propylamine	40 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	100 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	60 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	Naphthalene	20 U
106-47-8	4-Chloroaniline	60 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	40 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	100 U
88-06-2	2,4,6-Trichlorophenol	100 U
95-95-4	2,4,5-Trichlorophenol	100 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	100 U
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U
83-32-9	Acenaphthene	20 U
51-28-5	2,4-Dinitrophenol	200 U
100-02-7	4-Nitrophenol	100 U
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	100 U

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gmB 1/23/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS

Lab Sample ID: T971BF
LIMS ID: 97-18081
Matrix: Sediment
Data Release Authorized: ARP
Reported: 11/24/97

Sample No: 9739 4764
WR-SD-SD135-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/13/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 40.9%
pH: 7.5

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	100 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	Fluorene	20 U
100-01-6	4-Nitroaniline	100 U
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	100 U
85-01-8	**Phenanthrene**	**71**
86-74-8	Carbazole	20 U
120-12-7	Anthracene	20 U
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**98**
129-00-0	**Pyrene**	**79**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	100 U
56-55-3	**Benzo(a)anthracene**	**34**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**320**
218-01-9	**Chrysene**	**58**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**41**
207-08-9	**Benzo(k)fluoranthene**	**29**
50-32-8	**Benzo(a)pyrene**	**46**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**24**
53-70-3	Dibenz(a,h)anthracene	20 U
191-24-2	**Benzo(g,h,i)perylene**	**29**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	64.3%	d5-Phenol	64.3%
2-Fluorobiphenyl	78.6%	2-Fluorophenol	45.3%
d14-p-Terphenyl	77.0%	2,4,6-Tribromophenol	99.1%
d4-1,2-Dichlorobenzene	50.4%	d4-2-Chlorophenol	59.6%

JMB 1/23/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4764
WR-SD-SD135-0000

Lab Sample ID: T971BF
LIMS ID: 97-18081
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Data Release Authorized: OMB
Reported: 11/24/97

Date Analyzed: 11/13/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	79-34-5	Ethane, 1,1,2,2-tetrachlo	5.93	SVOA	650 JN
2.	--	Unknown	8.53	SVOA	330 JN
3.	103-82-2	Benzeneacetic acid	13.93	SVOA	740 JN
4.	544-63-8	Tetradecanoic acid	21.80	SVOA	240 JN
5.	1002-84-2	Pentadecanoic acid	22.67	SVOA	340 JN
6.	5746-58-7	Tetradecanoic acid, 12-me	22.78	SVOA	310 JN
7.	87-51-4	Indoleacetic acid	23.55	SVOA	210 JN
8.	--	Unknown	24.22	SVOA	740 JN
9.	--	Unknown	24.32	SVOA	240 JN
10.	57-10-3	Hexadecanoic acid	24.48	SVOA	750 JN
11.	112-80-1	Oleic Acid	26.62	SVOA	1,000 JN
12.	--	Unknown Alkyl PNA + C.E.	27.52	SVOA	480 JN
13.	--	Unknown	31.78	SVOA	340 JN
14.	--	Unknown	32.00	SVOA	510 JN
15.	--	Unknown	32.53	SVOA	400 JN
16.	--	Unknown	36.07	SVOA	480 JN
17.	--	Unknown	37.93	SVOA	3,000 JN
18.	--	Unknown	38.28	SVOA	2,500 JN
19.	--	Unknown	38.53	SVOA	350 JN
20.	1058-61-3	Stigmast-4-en-3-one	38.82	SVOA	500 JN

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971BG
LIMS ID: 97-18082
Matrix: Sediment
Data Release Authorized:
Reported: 11/24/97

Sample No: 9739 4765
WR-SD-SD137-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/17/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.5 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 44.2%
pH: 7.4

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	40 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U
106-44-5	**4-Methylphenol**	**240**
621-64-7	N-Nitroso-Di-N-Propylamine	40 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	99 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	Naphthalene	20 U
106-47-8	4-Chloroaniline	59 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	40 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	99 U
88-06-2	2,4,6-Trichlorophenol	99 U
95-95-4	2,4,5-Trichlorophenol	99 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	99 U
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U
83-32-9	Acenaphthene	20 U
51-28-5	2,4-Dinitrophenol	200 U
100-02-7	4-Nitrophenol	99 U
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	99 U

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FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS

Lab Sample ID: T971BG
LIMS ID: 97-18082
Matrix: Sediment
Data Release Authorized: OWB
Reported: 11/24/97

Sample No: 9739 4765
WR-SD-SD137-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/17/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.5 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 44.2%
pH: 7.4

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	99 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	Fluorene	20 U
100-01-6	4-Nitroaniline	99 U
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	99 U
85-01-8	Phenanthrene	20 U
86-74-8	Carbazole	20 U
120-12-7	Anthracene	20 U
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**26**
129-00-0	**Pyrene**	**19 J**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	99 U
56-55-3	Benzo(a)anthracene	20 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**56**
218-01-9	Chrysene	20 U
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	Benzo(b)fluoranthene	20 U
207-08-9	Benzo(k)fluoranthene	20 U
50-32-8	Benzo(a)pyrene	20 U
193-39-5	Indeno(1,2,3-cd)pyrene	20 U
53-70-3	Dibenz(a,h)anthracene	20 U
191-24-2	Benzo(g,h,i)perylene	20 U

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	60.5%	d5-Phenol	62.9%
2-Fluorobiphenyl	69.2%	2-Fluorophenol	52.9%
d14-p-Terphenyl	84.2%	2,4,6-Tribromophenol	73.8%
d4-1,2-Dichlorobenzene	55.3%	d4-2-Chlorophenol	56.5%

4264

FORM-1

00009

JMB 1/23/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4765
WR-SD-SD137-0000

Lab Sample ID: T971BG
LIMS ID: 97-18082
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Data Release Authorized: GMP
Reported: 11/24/97

Date Analyzed: 11/17/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	503-74-2	Butanoic_acid,_3-methyl-_	5.52	SVOA	140 JN
2.	116-53-0	Butanoic_acid,_2-methyl-_	5.92	SVOA	580 JN
3.	79-34-5	Ethane,_1,1,2,2-tetrachlo	6.10	SVOA	86 ~~JNB~~ R
4.	109-52-4	Pentanoic_acid	6.37	SVOA	120 JN
5.	103-82-2	Benzeneacetic_acid	14.08	SVOA	540 JN
6.	--	Unknown	20.93	SVOA	120 JN
7.	544-63-8	Tetradecanoic_acid	21.93	SVOA	53 JN
8.	--	Unknown	24.07	SVOA	50 JN
9.	--	Unknown	24.32	SVOA	55 JN
10.	57-10-3	Hexadecanoic_acid	24.57	SVOA	120 JN
11.	--	Unknown	26.70	SVOA	87 JN
12.	--	Unknown_Alkyl_PNA_+_C.E._	27.72	SVOA	81 JN
13.	--	Unknown	31.98	SVOA	94 JN
14.	--	Unknown	33.77	SVOA	86 JN
15.	--	Unknown	36.17	SVOA	120 JN
16.	--	Unknown	36.68	SVOA	70 JN
17.	--	Unknown	36.92	SVOA	92 JN
18.	--	Unknown	38.10	SVOA	640 JN
19.	--	Unknown	38.43	SVOA	330 JN
20.	--	Unknown	38.65	SVOA	150 JN

FORM-1-B

4265

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971BH
LIMS ID: 97-18083
Matrix: Sediment
Data Release Authorized: SRP
Reported: 11/24/97

Sample No: 9739 4766
WR-SD-SD137-1000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/13/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 52.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 45.3%
pH: 7.4

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U
106-44-5	**4-Methylphenol**	**590**
621-64-7	N-Nitroso-Di-N-Propylamine	38 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	96 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	Naphthalene	19 U
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	96 U
88-06-2	2,4,6-Trichlorophenol	96 U
95-95-4	2,4,5-Trichlorophenol	96 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	96 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U
83-32-9	Acenaphthene	19 U
51-28-5	2,4-Dinitrophenol	190 U
100-02-7	4-Nitrophenol	96 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	96 U

JMB 12/3/97

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971BH
LIMS ID: 97-18083
Matrix: Sediment
Data Release Authorized: RNB
Reported: 11/24/97

Sample No: 9739 4766
WR-SD-SD137-1000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/13/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 52.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 45.3%
pH: 7.4

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	96 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	Fluorene	19 U
100-01-6	4-Nitroaniline	96 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	96 U
85-01-8	**Phenanthrene**	**67**
86-74-8	Carbazole	19 U
120-12-7	Anthracene	19 U
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**120**
129-00-0	**Pyrene**	**100**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	96 U
56-55-3	**Benzo(a)anthracene**	**32**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**250**
218-01-9	**Chrysene**	**61**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**40**
207-08-9	**Benzo(k)fluoranthene**	**30**
50-32-8	**Benzo(a)pyrene**	**36**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**20**
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	**Benzo(g,h,i)perylene**	**23**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	63.0%	d5-Phenol	58.9%
2-Fluorobiphenyl	74.7%	2-Fluorophenol	43.8%
d14-p-Terphenyl	81.4%	2,4,6-Tribromophenol	100%
d4-1,2-Dichlorobenzene	40.6%	d4-2-Chlorophenol	55.5%

FORM-1

4306

JMB 11/03/97

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4766
WR-SD-SD137-1000

Lab Sample ID: T971BH
LIMS ID: 97-18083
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Data Release Authorized: GAB
Reported: 11/24/97

Date Analyzed: 11/13/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Organic_Acid	5.90	SVOA	840 JN
2.	116-53-0	Butanoic_acid,_2-methyl-_	6.30	SVOA	590 JN
3.	103-82-2	Benzeneacetic_acid	14.05	SVOA	1,200 JN
4.	544-63-8	Tetradecanoic_acid	21.85	SVOA	500 JN
5.	1002-84-2	Pentadecanoic_acid	22.73	SVOA	820 JN
6.	5746-58-7	Tetradecanoic_acid,_12-me	22.85	SVOA	670 JN
7.	87-51-4	Indoleacetic_acid	23.57	SVOA	350 JN
8.	--	Unknown	24.28	SVOA	1,900 JN
9.	--	Unknown	24.38	SVOA	750 JN
10.	57-10-3	Hexadecanoic_acid	24.57	SVOA	1,700 JN
11.	112-80-1	Oleic_Acid	26.68	SVOA	3,000 JN
12.	--	Unknown_Alkyl_PNA_+_C.E._	27.55	SVOA	650 JN
13.	--	Unknown	31.82	SVOA	660 JN
14.	--	Unknown_Aldehyde	33.68	SVOA	720 JN
15.	--	Unknown	36.08	SVOA	1,100 JN
16.	57-88-5	Cholesterol	36.37	SVOA	2,100 JN
17.	--	Unknown	37.92	SVOA	4,500 JN
18.	--	Unknown	38.32	SVOA	3,500 JN
19.	--	Amyrin_Iso	38.53	SVOA	980 JN
20.	1058-61-3	Stigmast-4-en-3-one	38.85	SVOA	580 JN

FORM-1-B

4307

00613

JMB 1/23/9

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971BI
LIMS ID: 97-18084
Matrix: Sediment
Data Release Authorized: ONB
Reported: 11/24/97

Sample No: 9739 4767
WR-SD- SD140-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/13/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 49.8%
pH: 7.2

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	40 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U
106-44-5	**4-Methylphenol**	**730**
621-64-7	N-Nitroso-Di-N-Propylamine	40 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	99 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	60 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	Naphthalene	20 U
106-47-8	4-Chloroaniline	60 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	40 U
91-57-6	2-Methylnaphthalene	20 U
77-47-4	Hexachlorocyclopentadiene	99 U
88-06-2	2,4,6-Trichlorophenol	99 U
95-95-4	2,4,5-Trichlorophenol	99 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	99 U
131-11-3	Dimethylphthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	120 U
83-32-9	Acenaphthene	20 U
51-28-5	2,4-Dinitrophenol	200 U
100-02-7	4-Nitrophenol	99 U
132-64-9	Dibenzofuran	20 U
606-20-2	2,6-Dinitrotoluene	99 U

4356

FORM-1

00614

JMB 1/23/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: T971BI
LIMS ID: 97-18084
Matrix: Sediment
Data Release Authorized: AWB
Reported: 11/24/97

Sample No: 9739 4767
WR-SD-SD140-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/13/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 50.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 49.8%
pH: 7.2

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	99 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	Fluorene	20 U
100-01-6	4-Nitroaniline	99 U
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	99 U
85-01-8	**Phenanthrene**	**62**
86-74-8	Carbazole	20 U
120-12-7	Anthracene	20 U
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**130**
129-00-0	**Pyrene**	**110**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	99 U
56-55-3	**Benzo(a)anthracene**	**40**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**190**
218-01-9	**Chrysene**	**91**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**40**
207-08-9	**Benzo(k)fluoranthene**	**32**
50-32-8	**Benzo(a)pyrene**	**36**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**23**
53-70-3	Dibenz(a,h)anthracene	20 U
191-24-2	**Benzo(g,h,i)perylene**	**22**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	73.1%	d5-Phenol	64.1%
2-Fluorobiphenyl	67.8%	2-Fluorophenol	53.6%
d14-p-Terphenyl	80.9%	2,4,6-Tribromophenol	102%
d4-1,2-Dichlorobenzene	52.0%	d4-2-Chlorophenol	62.6%

JMB 1/23/9

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4767
WR-SD-SD140-0000

Lab Sample ID: T971BI
LIMS ID: 97-18084
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Data Release Authorized: CWJ
Reported: 11/24/97

Date Analyzed: 11/13/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	116-53-0	Butanoic_acid,_2-methyl-_	6.52	SVOA	1,200 JN
2.	109-52-4	Pentanoic_acid	6.83	SVOA	320 JN
3.	103-82-2	Benzeneacetic_acid	14.12	SVOA	1,500 JN
4.	544-63-8	Tetradecanoic_acid	21.83	SVOA	290 JN
5.	1002-84-2	Pentadecanoic_acid	22.70	SVOA	400 JN
6.	--	Unknown	22.83	SVOA	370 JN
7.	--	Unknown	24.25	SVOA	760 JN
8.	57-10-3	Hexadecanoic_acid	24.50	SVOA	580 JN
9.	112-80-1	Oleic_Acid	26.63	SVOA	1,300 JN
10.	--	Unknown_Alkyl_PNA_+_C.E._	27.53	SVOA	450 JN
11.	--	Unknown	31.82	SVOA	590 JN
12.	--	Unknown	33.68	SVOA	580 JN
13.	--	Unknown_PNA_+_C.E.	33.97	SVOA	480 JN
14.	--	Unknown	36.08	SVOA	880 JN
15.	57-88-5	Cholesterol	36.37	SVOA	480 JN
16.	4651-51-8	Ergost-5-en-3-ol,_(3.beta	37.28	SVOA	450 JN
17.	--	Unknown	37.97	SVOA	5,200 JN
18.	--	Unknown	38.32	SVOA	3,500 JN
19.	--	Unknown	38.53	SVOA	990 JN
20.	1058-61-3	Stigmast-4-en-3-one	38.85	SVOA	520 JN

JMB 12/3/9

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: T971BJ
LIMS ID: 97-18085
Matrix: Sediment
Data Release Authorized: ONB
Reported: 11/24/97

Sample No: 9739 4768
WR-SD-SD142-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/13/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 52.5 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 52.4%
pH: 7.3

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U
106-44-5	**4-Methylphenol**	**950**
621-64-7	N-Nitroso-Di-N-Propylamine	38 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	95 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	57 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	Naphthalene	19 U
106-47-8	4-Chloroaniline	57 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	95 U
88-06-2	2,4,6-Trichlorophenol	95 U
95-95-4	2,4,5-Trichlorophenol	95 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	95 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	110 U
83-32-9	**Acenaphthene**	**35**
51-28-5	2,4-Dinitrophenol	190 U
100-02-7	4-Nitrophenol	95 U
132-64-9	**Dibenzofuran**	**21**
606-20-2	2,6-Dinitrotoluene	95 U

4407
JMB 1/23/9

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS

Lab Sample ID: T971BJ
LIMS ID: 97-18085
Matrix: Sediment
Data Release Authorized: BWB
Reported: 11/24/97

Sample No: 9739 4768
WR-SD-SD142-0000
QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/13/97
Instrument: finn8
GPC Cleanup: YES

Sample Amount: 52.5 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 52.4%
pH: 7.3

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	95 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**33**
100-01-6	4-Nitroaniline	95 U
534-52-1	4,6-Dinitro-2-Methylphenol	190 U
86-30-6	N-Nitrosodiphenylamine	19 U
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	95 U
85-01-8	**Phenanthrene**	**140**
86-74-8	Carbazole	19 U
120-12-7	**Anthracene**	**20**
84-74-2	Di-n-Butylphthalate	19 U
206-44-0	**Fluoranthene**	**200**
129-00-0	**Pyrene**	**140**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	95 U
56-55-3	**Benzo(a)anthracene**	**58**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**300**
218-01-9	**Chrysene**	**86**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**55**
207-08-9	**Benzo(k)fluoranthene**	**56**
50-32-8	**Benzo(a)pyrene**	**48**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**33**
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	**Benzo(g,h,i)perylene**	**27**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	81.1%	d5-Phenol	77.2%
2-Fluorobiphenyl	82.9%	2-Fluorophenol	65.6%
d14-p-Terphenyl	82.0%	2,4,6-Tribromophenol	102%
d4-1,2-Dichlorobenzene	73.5%	d4-2-Chlorophenol	71.9%

FORM-1

4408

JMB 1/23/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 9739 4768
WR-SD-SD142-0000

Lab Sample ID: T971BJ
LIMS ID: 97-18085
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Data Release Authorized: [signature]
Reported: 11/24/97

Date Analyzed: 11/13/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	79-34-5	Ethane,_1,1,2,2-tetrachlo	5.95	SVOA	350 JN
2.	503-74-2	Butanoic_acid,_3-methyl-_	6.33	SVOA	1,000 JN
3.	97-61-0	Pentanoic_acid,_2-methyl-	6.73	SVOA	1,600 JN
4.	--	Unknown	7.02	SVOA	410 JN
5.	103-82-2	Benzeneacetic_acid	14.13	SVOA	1,700 JN
6.	544-63-8	Tetradecanoic_acid	21.83	SVOA	260 JN
7.	1002-84-2	Pentadecanoic_acid	22.70	SVOA	400 JN
8.	--	Unknown	24.27	SVOA	760 JN
9.	--	Unknown	24.37	SVOA	260 JN
10.	57-10-3	Hexadecanoic_acid	24.52	SVOA	540 JN
11.	112-80-1	Oleic_Acid	26.65	SVOA	500 JN
12.	--	Unknown_Alkyl_PNA_+_C.E._	27.55	SVOA	290 JN
13.	--	Unknown	32.02	SVOA	430 JN
14.	--	Unknown_PNA_+_C.E.	34.00	SVOA	240 JN
15.	57-88-5	Cholesterol	36.38	SVOA	610 JN
16.	--	Unknown	37.32	SVOA	400 JN
17.	--	Unknown	37.65	SVOA	230 JN
18.	--	Unknown	37.97	SVOA	2,500 JN
19.	--	Unknown	38.32	SVOA	1,700 JN
20.	--	Unknown	38.55	SVOA	370 JN

FORM-1-B

4409

00619

JMB 1/23/9

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9739 4700
DILUTION WR-SD-SD101-0000

Lab Sample ID: T971CDL
LIMS ID: 97-18027
Matrix: Sediment
Data Release Authorized:
Reported: 11/11/97

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/21/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/07/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 52.0 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:50
Percent Moisture: 48.0%
pH: 7.2

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	48 U
319-85-7	beta-BHC	48 U
319-86-8	delta-BHC	48 U
58-89-9	gamma-BHC (Lindane)	48 U
76-44-8	Heptachlor	48 U
309-00-2	Aldrin	48 U
1024-57-3	Heptachlor Epoxide	48 U
959-98-8	Endosulfan I	48 U
60-57-1	Dieldrin	96 U
72-55-9	4,4'-DDE	96 U
72-20-8	Endrin	96 U
33213-65-9	Endosulfan II	96 U
72-54-8	**4,4'-DDD**	**110**
1031-07-8	Endosulfan Sulfate	96 U
50-29-3	**4,4'-DDT**	**470**
72-43-5	Methoxychlor	480 U
53494-70-5	Endrin Ketone	96 U
7421-93-4	Endrin Aldehyde	96 U
57-74-9	gamma Chlordane	48 U
5103-71-9	alpha Chlordane	48 U
8001-35-2	Toxaphene	4,800 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	D
Tetrachlorometaxylene	D

FORM-1
00620

5306

JMB 1/23/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9739 4702
DILUTION WR-SD- SD 081- 0000

Lab Sample ID: T971DDL
LIMS ID: 97-18028
Matrix: Sediment
Data Release Authorized:
Reported: 11/11/97

QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/21/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/07/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 50.5 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:50
Percent Moisture: 33.3%
pH: 7.1

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	50 U
319-85-7	beta-BHC	50 U
319-86-8	delta-BHC	50 U
58-89-9	gamma-BHC (Lindane)	50 U
76-44-8	Heptachlor	50 U
309-00-2	Aldrin	50 U
1024-57-3	Heptachlor Epoxide	50 U
959-98-8	Endosulfan I	50 U
60-57-1	Dieldrin	99 U
72-55-9	4,4'-DDE	99 U
72-20-8	Endrin	99 U
33213-65-9	Endosulfan II	99 U
72-54-8	**4,4'-DDD**	**76 J**
1031-07-8	Endosulfan Sulfate	99 U
50-29-3	**4,4'-DDT**	**490**
72-43-5	Methoxychlor	500 U
53494-70-5	Endrin Ketone	99 U
7421-93-4	Endrin Aldehyde	99 U
57-74-9	gamma Chlordane	50 U
5103-71-9	alpha Chlordane	50 U
8001-35-2	Toxaphene	5,000 U
12674-11-2	Aroclor 1016	990 U
53469-21-9	Aroclor 1242	990 U
12672-29-6	Aroclor 1248	990 U
11097-69-1	Aroclor 1254	990 U
11096-82-5	Aroclor 1260	990 U
11104-28-2	Aroclor 1221	2,000 U
11141-16-5	Aroclor 1232	990 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	D
Tetrachlorometaxylene	D

FORM-1

JMB 1/23/98
5312

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9739 4704

WR-SD-SD083-0000

Lab Sample ID: T971E
LIMS ID: 97-18029
Matrix: Sediment
Data Release Authorized:
Reported: 11/11/97

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/21/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/06/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 51.7 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:50
Percent Moisture: 53.1%
pH: 6.9

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	48 U
319-85-7	beta-BHC	48 U
319-86-8	delta-BHC	48 U
58-89-9	gamma-BHC (Lindane)	48 U
76-44-8	Heptachlor	48 U
309-00-2	Aldrin	48 U
1024-57-3	Heptachlor Epoxide	48 U
959-98-8	Endosulfan I	48 U
60-57-1	Dieldrin	97 U
72-55-9	4,4'-DDE	97 U
72-20-8	Endrin	97 U
33213-65-9	Endosulfan II	97 U
72-54-8	**4,4'-DDD**	**120**
1031-07-8	Endosulfan Sulfate	97 U
50-29-3	**4,4'-DDT**	**620**
72-43-5	Methoxychlor	480 U
53494-70-5	Endrin Ketone	97 U
7421-93-4	Endrin Aldehyde	97 U
57-74-9	gamma Chlordane	48 U
5103-71-9	alpha Chlordane	48 U
8001-35-2	Toxaphene	4,800 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	D
Tetrachlorometaxylene	D

FORM-1

JMB 1/23/98
5317

00622

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9739 4705

WR-SD-SD084-0000

Lab Sample ID: T971F
LIMS ID: 97-18030
Matrix: Sediment
Data Release Authorized:
Reported: 11/11/97

QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/21/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/06/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 51.0 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:50
Percent Moisture: 43.5%
pH: 7.1

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	49 U
319-85-7	beta-BHC	49 U
319-86-8	delta-BHC	49 U
58-89-9	gamma-BHC (Lindane)	49 U
76-44-8	Heptachlor	49 U
309-00-2	Aldrin	49 U
1024-57-3	Heptachlor Epoxide	49 U
959-98-8	Endosulfan I	49 U
60-57-1	Dieldrin	98 U
72-55-9	4,4'-DDE	98 U
72-20-8	Endrin	98 U
33213-65-9	Endosulfan II	98 U
72-54-8	**4,4'-DDD**	**59 J**
1031-07-8	Endosulfan Sulfate	98 U
50-29-3	**4,4'-DDT**	**620**
72-43-5	Methoxychlor	490 U
53494-70-5	Endrin Ketone	98 U
7421-93-4	Endrin Aldehyde	98 U
57-74-9	gamma Chlordane	49 U
5103-71-9	alpha Chlordane	49 U
8001-35-2	Toxaphene	4,900 U
12674-11-2	Aroclor 1016	980 U
53469-21-9	Aroclor 1242	980 U
12672-29-6	Aroclor 1248	980 U
11097-69-1	Aroclor 1254	980 U
11096-82-5	Aroclor 1260	980 U
11104-28-2	Aroclor 1221	2,000 U
11141-16-5	Aroclor 1232	980 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	D
Tetrachlorometaxylene	D

FORM-1

JMB 1/23/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9739 4706

WR-SD-SD085-0000

Lab Sample ID: T971G
LIMS ID: 97-18031
Matrix: Sediment
Data Release Authorized:
Reported: 11/11/97

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/21/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/06/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 50.7 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:10
Percent Moisture: 43.8%
pH: 7.2

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	9.9 U
319-85-7	beta-BHC	9.9 U
319-86-8	delta-BHC	9.9 U
58-89-9	gamma-BHC (Lindane)	9.9 U
76-44-8	Heptachlor	9.9 U
309-00-2	Aldrin	9.9 U
1024-57-3	Heptachlor Epoxide	15 ~~U~~ UI
959-98-8	Endosulfan I	9.9 U
60-57-1	Dieldrin	20 U
72-55-9	**4,4'-DDE**	**26**
72-20-8	Endrin	20 U
33213-65-9	Endosulfan II	20 U
72-54-8	**4,4'-DDD**	**110**
1031-07-8	Endosulfan Sulfate	20 U
50-29-3	**4,4'-DDT**	**370**
72-43-5	Methoxychlor	99 U
53494-70-5	Endrin Ketone	20 U
7421-93-4	Endrin Aldehyde	20 U
57-74-9	gamma Chlordane	9.9 U
5103-71-9	alpha Chlordane	9.9 U
8001-35-2	Toxaphene	990 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	82.5%
Tetrachlorometaxylene	102%

FORM-1

JMB 1/23/98 532'

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9739 4707

WR-SD- SD087-0000

Lab Sample ID: T971H
LIMS ID: 97-18032
Matrix: Sediment
Data Release Authorized:
Reported: 11/11/97

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/21/97
Date Received: 09/27/97

Date extracted: 10/28/97
Date analyzed: 11/07/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 50.1 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:50
Percent Moisture: 44.4%
pH: 6.5

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	50 U
319-85-7	beta-BHC	50 U
319-86-8	delta-BHC	50 U
58-89-9	gamma-BHC (Lindane)	50 U
76-44-8	Heptachlor	50 U
309-00-2	Aldrin	50 U
1024-57-3	Heptachlor Epoxide	50 U
959-98-8	Endosulfan I	50 U
60-57-1	Dieldrin	100 U
72-55-9	4,4'-DDE	100 U
72-20-8	Endrin	100 U
33213-65-9	Endosulfan II	100 U
72-54-8	**4,4'-DDD**	**110**
1031-07-8	Endosulfan Sulfate	100 U
50-29-3	**4,4'-DDT**	**810**
72-43-5	Methoxychlor	500 U
53494-70-5	Endrin Ketone	100 U
7421-93-4	Endrin Aldehyde	100 U
57-74-9	gamma Chlordane	50 U
5103-71-9	alpha Chlordane	50 U
8001-35-2	Toxaphene	5,000 U
12674-11-2	Aroclor 1016	1,000 U
53469-21-9	Aroclor 1242	1,000 U
12672-29-6	Aroclor 1248	1,000 U
11097-69-1	Aroclor 1254	1,000 U
11096-82-5	Aroclor 1260	1,000 U
11104-28-2	Aroclor 1221	2,000 U
11141-16-5	Aroclor 1232	1,000 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	D
Tetrachlorometaxylene	D

FORM-1

JMB 1/23/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9739 4708

WR-SD- SD088-0000

Lab Sample ID: T971I
LIMS ID: 97-18033
Matrix: Sediment
Data Release Authorized:
Reported: 11/11/97

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/21/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/06/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 51.6 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:100
Percent Moisture: 46.0%
pH: 7.5

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	97 U
319-85-7	beta-BHC	97 U
319-86-8	delta-BHC	97 U
58-89-9	gamma-BHC (Lindane)	97 U
76-44-8	Heptachlor	97 U
309-00-2	Aldrin	97 U
1024-57-3	Heptachlor Epoxide	97 U
959-98-8	Endosulfan I	97 U
60-57-1	Dieldrin	190 U
72-55-9	4,4'-DDE	190 U
72-20-8	Endrin	190 U
33213-65-9	Endosulfan II	190 U
72-54-8	**4,4'-DDD**	**100 J**
1031-07-8	Endosulfan Sulfate	190 U
50-29-3	**4,4'-DDT**	**930**
72-43-5	Methoxychlor	970 U
53494-70-5	Endrin Ketone	190 U
7421-93-4	Endrin Aldehyde	190 U
57-74-9	gamma Chlordane	97 U
5103-71-9	alpha Chlordane	97 U
8001-35-2	Toxaphene	9,700 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	D
Tetrachlorometaxylene	D

FORM-1

~~5341~~

JMB 12/3/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9739 4710

WR-SD-SD090-0000

Lab Sample ID: T971J
LIMS ID: 97-18034
Matrix: Sediment
Data Release Authorized:
Reported: 11/11/97

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/21/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/06/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 50.5 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:100
Percent Moisture: 44.5%
pH: 7.3

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	99 U
319-85-7	beta-BHC	99 U
319-86-8	delta-BHC	99 U
58-89-9	gamma-BHC (Lindane)	99 U
76-44-8	Heptachlor	99 U
309-00-2	Aldrin	99 U
1024-57-3	Heptachlor Epoxide	99 U
959-98-8	Endosulfan I	99 U
60-57-1	Dieldrin	200 U
72-55-9	4,4'-DDE	200 U
72-20-8	Endrin	200 U
33213-65-9	Endosulfan II	200 U
72-54-8	**4,4'-DDD**	**160 J**
1031-07-8	Endosulfan Sulfate	200 U
50-29-3	**4,4'-DDT**	**2,100**
72-43-5	Methoxychlor	990 U
53494-70-5	Endrin Ketone	200 U
7421-93-4	Endrin Aldehyde	200 U
57-74-9	gamma Chlordane	99 U
5103-71-9	alpha Chlordane	99 U
8001-35-2	Toxaphene	9,900 U
12674-11-2	Aroclor 1016	2,000 U
53469-21-9	Aroclor 1242	2,000 U
12672-29-6	Aroclor 1248	2,000 U
11097-69-1	Aroclor 1254	2,000 U
11096-82-5	Aroclor 1260	2,000 U
11104-28-2	Aroclor 1221	4,000 U
11141-16-5	Aroclor 1232	2,000 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	D
Tetrachlorometaxylene	D

FORM-1

JMB 1/23/98 ~~5346~~

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9739 4711

WR-SD-SD093-0000

Lab Sample ID: T971K
LIMS ID: 97-18035
Matrix: Sediment
Data Release Authorized:
Reported: 11/11/97

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/06/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 51.9 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:10
Percent Moisture: 48.5%
pH: 7.2

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	9.6 U
319-85-7	beta-BHC	9.6 U
319-86-8	delta-BHC	9.6 U
58-89-9	gamma-BHC (Lindane)	9.6 U
76-44-8	Heptachlor	9.6 U
309-00-2	Aldrin	9.6 U
1024-57-3	Heptachlor Epoxide	9.6 U
959-98-8	Endosulfan I	9.6 U
60-57-1	Dieldrin	19 U
72-55-9	4,4'-DDE	19 U
72-20-8	Endrin	19 U
33213-65-9	Endosulfan II	19 U
72-54-8	**4,4'-DDD**	**16 J**
1031-07-8	Endosulfan Sulfate	19 U
50-29-3	**4,4'-DDT**	**70**
72-43-5	Methoxychlor	96 U
53494-70-5	Endrin Ketone	19 U
7421-93-4	Endrin Aldehyde	19 U
57-74-9	gamma Chlordane	9.6 U
5103-71-9	alpha Chlordane	9.6 U
8001-35-2	Toxaphene	960 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	72.5%
Tetrachlorometaxylene	65.0%

FORM-1

00628

5351

JMB 1/23/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9739 4712

WR-SD-SD092-0000

Lab Sample ID: T971L
LIMS ID: 97-18036
Matrix: Sediment
Data Release Authorized:
Reported: 11/11/97

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/06/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 53.2 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:20
Percent Moisture: 24.2%
pH: 7.3

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	19 U
319-85-7	beta-BHC	19 U
319-86-8	delta-BHC	19 U
58-89-9	gamma-BHC (Lindane)	19 U
76-44-8	Heptachlor	19 U
309-00-2	Aldrin	19 U
1024-57-3	Heptachlor Epoxide	19 U
959-98-8	Endosulfan I	19 U
60-57-1	Dieldrin	38 U
72-55-9	**4,4'-DDE**	**20 J**
72-20-8	Endrin	38 U
33213-65-9	Endosulfan II	38 U
72-54-8	**4,4'-DDD**	**290**
1031-07-8	**Endosulfan Sulfate**	**240**
50-29-3	4,4'-DDT	38 U
72-43-5	Methoxychlor	190 U
53494-70-5	Endrin Ketone	38 U
7421-93-4	Endrin Aldehyde	38 U
57-74-9	gamma Chlordane	19 U
5103-71-9	alpha Chlordane	19 U
8001-35-2	Toxaphene	1,900 U
12674-11-2	Aroclor 1016	380 U
53469-21-9	Aroclor 1242	380 U
12672-29-6	Aroclor 1248	380 U
11097-69-1	Aroclor 1254	380 U
11096-82-5	Aroclor 1260	380 U
11104-28-2	Aroclor 1221	750 U
11141-16-5	Aroclor 1232	380 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	D
Tetrachlorometaxylene	D

FORM-1

00629

JMB 1/23/98

5357

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9739 4713

WR-SD-SD092-1000

Lab Sample ID: T971M
LIMS ID: 97-18037
Matrix: Sediment
Data Release Authorized:
Reported: 12/01/97

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/28/97
Date analyzed: 11/07/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 50.5 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:50
Percent Moisture: 22.3%
pH: 7.4

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	49 U
319-85-7	beta-BHC	49 U
319-86-8	delta-BHC	49 U
58-89-9	gamma-BHC (Lindane)	49 U
76-44-8	Heptachlor	49 U
309-00-2	Aldrin	49 U
1024-57-3	Heptachlor Epoxide	49 U
959-98-8	Endosulfan I	49 U
60-57-1	Dieldrin	99 U
72-55-9	4,4'-DDE	99 U
72-20-8	Endrin	99 U
33213-65-9	Endosulfan II	99 U
72-54-8	**4,4'-DDD**	**460**
1031-07-8	Endosulfan Sulfate	99 U
50-29-3	**4,4'-DDT**	**280**
72-43-5	Methoxychlor	490 U
53494-70-5	Endrin Ketone	99 U
7421-93-4	Endrin Aldehyde	99 U
57-74-9	gamma Chlordane	49 U
5103-71-9	alpha Chlordane	49 U
8001-35-2	Toxaphene	4,900 U
12674-11-2	Aroclor 1016	990 U
53469-21-9	Aroclor 1242	990 U
12672-29-6	Aroclor 1248	990 U
11097-69-1	Aroclor 1254	990 U
11096-82-5	Aroclor 1260	990 U
11104-28-2	Aroclor 1221	2,000 U
11141-16-5	Aroclor 1232	990 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	D
Tetrachlorometaxylene	D

FORM-1

5363
JMB 1/23/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9739 4714

WR-SD-SD097-0000

Lab Sample ID: T971N
LIMS ID: 97-18038
Matrix: Sediment
Data Release Authorized:
Reported: 11/11/97

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/06/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 50.7 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:100
Percent Moisture: 43.8%
pH: 7.0

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	99 U
319-85-7	beta-BHC	99 U
319-86-8	delta-BHC	99 U
58-89-9	gamma-BHC (Lindane)	99 U
76-44-8	Heptachlor	99 U
309-00-2	Aldrin	99 U
1024-57-3	Heptachlor Epoxide	99 U
959-98-8	Endosulfan I	99 U
60-57-1	Dieldrin	200 U
72-55-9	**4,4'-DDE**	**220**
72-20-8	Endrin	200 U
33213-65-9	Endosulfan II	200 U
72-54-8	**4,4'-DDD**	**420**
1031-07-8	Endosulfan Sulfate	200 U
50-29-3	**4,4'-DDT**	**3,100**
72-43-5	Methoxychlor	990 U
53494-70-5	Endrin Ketone	200 U
7421-93-4	Endrin Aldehyde	200 U
57-74-9	gamma Chlordane	99 U
5103-71-9	alpha Chlordane	99 U
8001-35-2	Toxaphene	9,900 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	D
Tetrachlorometaxylene	D

FORM-1

00631

gmB 1/23/98
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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD

Sample No: 9739 4716
WR-SD-SD106-0000

Lab Sample ID: T971P
LIMS ID: 97-18040
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project:
1001-006
Date Sampled: 09/22/97
Date Received: 09/27/97

Data Release Authorized:
Reported: 11/11/97

Date extracted: 10/15/97
Date analyzed: 11/06/97

Sample Amount: 50.7 g-dry-wt
Final Ext Vol: 10 mL
pH: 6.9

GPC Cleanup: Yes
Florisil Cleanup: Yes
Acid Cleanup: Yes
Sulfur Cleanup: Yes
Conc/Dilution Factor: 1:1
Percent Moisture: 43.8%

Reported in Total ug/kg Dry Weight

CAS Number	Analyte	Value
12674-11-2	Aroclor 1016	20 U
53469-21-9	Aroclor 1242	20 U
12672-29-6	Aroclor 1248	20 U
11097-69-1	Aroclor 1254	20 U
11096-82-5	Aroclor 1260	20 U
11104-28-2	Aroclor 1221	39 U
11141-16-5	Aroclor 1232	20 U

PCB-Aroclor Surrogate Recovery

Decachlorobiphenyl	59.8%
Tetrachlorometaxylene	42.2%

Data Qualifiers

J Indicates an estimated value when that result is less than the calculated detection limit.
E Indicates a value above the linear range of the detector. Dilution Required
S Indicates no value reported due to saturation of the detector.
D Indicates the surrogate was diluted out.
U Indicates compound was analyzed for, but not detected at the given detection limit.
B Found in associated method blank
NA Indicates compound was not analyzed.
NR Indicates no recovery due to interferences.
NV Indicates no value reportable - see additional analyses.
Y Indicates a raised reporting limit due to matrix interferences. The analyte may be present at or below the listed concentration, but in the opinion of the analyst, confirmation was inadequate.

FORM-1 PCB

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JMB 1/23/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD

Sample No: 9739 4719
WR-SD- SD111-0000

Lab Sample ID: T971R
LIMS ID: 97-18042
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project:
1001-006
Date Sampled: 09/22/97
Date Received: 09/27/97

Data Release Authorized:
Reported: 11/11/97

Date extracted: 10/15/97
Date analyzed: 11/06/97

Sample Amount: 50.3 g-dry-wt
Final Ext Vol: 10 mL
pH: 7.3

GPC Cleanup: Yes
Florisil Cleanup: Yes
Acid Cleanup: Yes
Sulfur Cleanup: Yes
Conc/Dilution Factor: 1:1
Percent Moisture: 49.7%

Reported in Total ug/kg Dry Weight

CAS Number	Analyte	Value
12674-11-2	Aroclor 1016	20 U
53469-21-9	Aroclor 1242	20 U
12672-29-6	Aroclor 1248	20 U
11097-69-1	Aroclor 1254	20 U
11096-82-5	Aroclor 1260	20 U
11104-28-2	Aroclor 1221	40 U
11141-16-5	Aroclor 1232	20 U

PCB-Aroclor Surrogate Recovery

Decachlorobiphenyl	49.2%
Tetrachlorometaxylene	35.2%

Data Qualifiers

J Indicates an estimated value when that result is less than the calculated detection limit.
E Indicates a value above the linear range of the detector. Dilution Required
S Indicates no value reported due to saturation of the detector.
D Indicates the surrogate was diluted out.
U Indicates compound was analyzed for, but not detected at the given detection limit.
B Found in associated method blank
NA Indicates compound was not analyzed.
NR Indicates no recovery due to interferences.
NV Indicates no value reportable - see additional analyses.
Y Indicates a raised reporting limit due to matrix interferences. The analyte may be present at or below the listed concentration, but in the opinion of the analyst, confirmation was inadequate.

FORM-1 PCB

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9739 4720

WR-SD- SD116- 0000

Lab Sample ID: T971S
LIMS ID: 97-18043
Matrix: Sediment
Data Release Authorized:
Reported: 11/11/97

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/06/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 50.9 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:1
Percent Moisture: 46.7%
pH: 7.3

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	0.98 U
319-85-7	beta-BHC	0.98 U
319-86-8	delta-BHC	0.98 U
58-89-9	gamma-BHC (Lindane)	0.98 U
76-44-8	Heptachlor	0.98 U
309-00-2	Aldrin	0.98 U
1024-57-3	Heptachlor Epoxide	0.98 U
959-98-8	Endosulfan I	0.98 U
60-57-1	Dieldrin	2.0 U
72-55-9	**4,4'-DDE**	**2.3**
72-20-8	Endrin	2.0 U
33213-65-9	Endosulfan II	2.0 U
72-54-8	**4,4'-DDD**	**1.6 J**
1031-07-8	Endosulfan Sulfate	2.0 U
50-29-3	**4,4'-DDT**	**1.6 J**
72-43-5	Methoxychlor	9.8 U
53494-70-5	Endrin Ketone	2.0 U
7421-93-4	Endrin Aldehyde	2.0 U
57-74-9	gamma Chlordane	0.98 U
5103-71-9	alpha Chlordane	0.98 U
8001-35-2	Toxaphene	98 U
12674-11-2	Aroclor 1016	20 U
53469-21-9	Aroclor 1242	20 U
12672-29-6	Aroclor 1248	20 U
11097-69-1	Aroclor 1254	20 U
11096-82-5	Aroclor 1260	20 U
11104-28-2	Aroclor 1221	39 U
11141-16-5	Aroclor 1232	20 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	56.8%
Tetrachlorometaxylene	39.2%

FORM-1

JMB 1/23/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD

Sample No: 9739 4722

WR-SD- SD119-0000

Lab Sample ID: T971T
LIMS ID: 97-18044
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/22/97
Date Received: 09/27/97

Data Release Authorized:
Reported: 11/11/97

Date extracted: 10/15/97
Date analyzed: 11/06/97

Sample Amount: 51.7 g-dry-wt
Final Ext Vol: 10 mL
pH: 7.1

GPC Cleanup: Yes
Florisil Cleanup: Yes
Acid Cleanup: Yes
Sulfur Cleanup: Yes
Conc/Dilution Factor: 1:1
Percent Moisture: 48.6%

Reported in Total ug/kg Dry Weight

CAS Number	Analyte	Value
12674-11-2	Aroclor 1016	19 U
53469-21-9	Aroclor 1242	19 U
12672-29-6	Aroclor 1248	19 U
11097-69-1	Aroclor 1254	19 U
11096-82-5	Aroclor 1260	19 U
11104-28-2	Aroclor 1221	39 U
11141-16-5	Aroclor 1232	19 U

PCB-Aroclor Surrogate Recovery

Decachlorobiphenyl	51.0%
Tetrachlorometaxylene	38.8%

Data Qualifiers

J Indicates an estimated value when that result is less than the calculated detection limit.
E Indicates a value above the linear range of the detector. Dilution Required
S Indicates no value reported due to saturation of the detector.
D Indicates the surrogate was diluted out.
U Indicates compound was analyzed for, but not detected at the given detection limit.
B Found in associated method blank
NA Indicates compound was not analyzed.
NR Indicates no recovery due to interferences.
NV Indicates no value reportable - see additional analyses.
Y Indicates a raised reporting limit due to matrix interferences. The analyte may be present at or below the listed concentration, but in the opinion of the analyst, confirmation was inadequate.

FORM-1 PCB

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JMB 1/23/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD

Sample No: 9739 4723
WR-SD- SD122-0000

Lab Sample ID: T971U
LIMS ID: 97-18045
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/22/97
Date Received: 09/27/97

Data Release Authorized:
Reported: 11/11/97

Date extracted: 10/15/97
Date analyzed: 11/06/97

Sample Amount: 52.5 g-dry-wt
Final Ext Vol: 10 mL
pH: 7.2

GPC Cleanup: Yes
Florisil Cleanup: Yes
Acid Cleanup: Yes
Sulfur Cleanup: Yes
Conc/Dilution Factor: 1:1
Percent Moisture: 52.5%

Reported in Total ug/kg Dry Weight

CAS Number	Analyte	Value
12674-11-2	Aroclor 1016	19 U
53469-21-9	Aroclor 1242	19 U
12672-29-6	Aroclor 1248	19 U
11097-69-1	Aroclor 1254	19 U
11096-82-5	Aroclor 1260	19 U
11104-28-2	Aroclor 1221	38 U
11141-16-5	Aroclor 1232	19 U

PCB-Aroclor Surrogate Recovery

Decachlorobiphenyl	48.2%
Tetrachlorometaxylene	36.0%

Data Qualifiers

J Indicates an estimated value when that result is less than the calculated detection limit.
E Indicates a value above the linear range of the detector. Dilution Required
S Indicates no value reported due to saturation of the detector.
D Indicates the surrogate was diluted out.
U Indicates compound was analyzed for, but not detected at the given detection limit.
B Found in associated method blank
NA Indicates compound was not analyzed.
NR Indicates no recovery due to interferences.
NV Indicates no value reportable - see additional analyses.
Y Indicates a raised reporting limit due to matrix interferences. The analyte may be present at or below the listed concentration, but in the opinion of the analyst, confirmation was inadequate.

FORM-1 PCB
99636

JMB 1/23/9
5402

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD

Sample No: 9739 4724

WR-SD- SD121- 0000

Lab Sample ID: T971V
LIMS ID: 97-18046
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project:
1001-006
Date Sampled: 09/22/97
Date Received: 09/27/97

Data Release Authorized:
Reported: 11/11/97

Date extracted: 10/15/97
Date analyzed: 11/06/97

Sample Amount: 50.7 g-dry-wt
Final Ext Vol: 10 mL
pH: 7.2

GPC Cleanup: Yes
Florisil Cleanup: Yes
Acid Cleanup: Yes
Sulfur Cleanup: Yes
Conc/Dilution Factor: 1:1
Percent Moisture: 43.9%

Reported in Total ug/kg Dry Weight

CAS Number	Analyte	Value
12674-11-2	Aroclor 1016	20 U
53469-21-9	Aroclor 1242	20 U
12672-29-6	Aroclor 1248	20 U
11097-69-1	Aroclor 1254	20 U
11096-82-5	Aroclor 1260	20 U
11104-28-2	Aroclor 1221	39 U
11141-16-5	Aroclor 1232	20 U

PCB-Aroclor Surrogate Recovery

Decachlorobiphenyl	56.5%
Tetrachlorometaxylene	42.2%

Data Qualifiers

J Indicates an estimated value when that result is less than the calculated detection limit.
E Indicates a value above the linear range of the detector. Dilution Required
S Indicates no value reported due to saturation of the detector.
D Indicates the surrogate was diluted out.
U Indicates compound was analyzed for, but not detected at the given detection limit.
B Found in associated method blank
NA Indicates compound was not analyzed.
NR Indicates no recovery due to interferences.
NV Indicates no value reportable - see additional analyses.
Y Indicates a raised reporting limit due to matrix interferences. The analyte may be present at or below the listed concentration, but in the opinion of the analyst, confirmation was inadequate.

FORM-1 PCB

JMB 11/25/

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9739 4729

WR-SD-SD141-0000

Lab Sample ID: T971AA
LIMS ID: 97-18051
Matrix: Sediment
Data Release Authorized:
Reported: 11/21/97

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/06/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 51.1 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:1
Percent Moisture: 60.8%
pH: 7.3

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	0.98 U
319-85-7	beta-BHC	0.98 U
319-86-8	delta-BHC	0.98 U
58-89-9	gamma-BHC (Lindane)	0.98 U
76-44-8	Heptachlor	0.98 U
309-00-2	Aldrin	0.98 U
1024-57-3	Heptachlor Epoxide	0.98 U
959-98-8	Endosulfan I	0.98 U
60-57-1	Dieldrin	2.0 U
72-55-9	**4,4'-DDE**	**1.7 J**
72-20-8	Endrin	2.0 U
33213-65-9	Endosulfan II	2.0 U
72-54-8	**4,4'-DDD**	**1.7 J**
1031-07-8	Endosulfan Sulfate	2.0 U
50-29-3	4,4'-DDT	2.0 U
72-43-5	Methoxychlor	9.8 U
53494-70-5	Endrin Ketone	2.0 U
7421-93-4	Endrin Aldehyde	2.0 U
57-74-9	gamma Chlordane	0.98 U
5103-71-9	alpha Chlordane	0.98 U
8001-35-2	Toxaphene	98 U
12674-11-2	Aroclor 1016	20 U
53469-21-9	Aroclor 1242	20 U
12672-29-6	Aroclor 1248	20 U
11097-69-1	**Aroclor 1254**	**31**
11096-82-5	Aroclor 1260	20 U
11104-28-2	Aroclor 1221	39 U
11141-16-5	Aroclor 1232	20 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	34.5%
Tetrachlorometaxylene	22.8%

FORM-1

5416

JMB 1/23/9

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9739 4730

WR-SD-SD141-1000

Lab Sample ID: T971AB
LIMS ID: 97-18052
Matrix: Sediment
Data Release Authorized:
Reported: 11/11/97

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/22/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/06/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 51.5 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:10
Percent Moisture: 60.6%
pH: 7.3

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	9.7 U
319-85-7	beta-BHC	9.7 U
319-86-8	delta-BHC	9.7 U
58-89-9	gamma-BHC (Lindane)	9.7 U
76-44-8	Heptachlor	9.7 U
309-00-2	Aldrin	9.7 U
1024-57-3	Heptachlor Epoxide	9.7 U
959-98-8	Endosulfan I	9.7 U
60-57-1	Dieldrin	19 U
72-55-9	4,4'-DDE	19 U
72-20-8	Endrin	19 U
33213-65-9	Endosulfan II	19 U
72-54-8	**4,4'-DDD**	**98**
1031-07-8	Endosulfan Sulfate	19 U
50-29-3	**4,4'-DDT**	**54**
72-43-5	Methoxychlor	97 U
53494-70-5	Endrin Ketone	19 U
7421-93-4	Endrin Aldehyde	19 U
57-74-9	gamma Chlordane	9.7 U
5103-71-9	alpha Chlordane	9.7 U
8001-35-2	Toxaphene	970 U
12674-11-2	Aroclor 1016	190 U
53469-21-9	Aroclor 1242	190 U
12672-29-6	Aroclor 1248	190 U
11097-69-1	Aroclor 1254	190 U
11096-82-5	Aroclor 1260	190 U
11104-28-2	Aroclor 1221	390 U
11141-16-5	Aroclor 1232	190 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	60.0%
Tetrachlorometaxylene	87.5%

FORM-1

JMB 7/23/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD

Sample No: 9739 4732

WR-SD- SD124-0000

Lab Sample ID: T971AD
LIMS ID: 97-18054
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/23/97
Date Received: 09/27/97

Data Release Authorized:
Reported: 12/01/97

Date extracted: 10/15/97
Date analyzed: 11/06/97

Sample Amount: 50.6 g-dry-wt
Final Ext Vol: 10 mL
pH: 7.1

GPC Cleanup: Yes
Florisil Cleanup: Yes
Acid Cleanup: Yes
Sulfur Cleanup: Yes
Conc/Dilution Factor: 1:1
Percent Moisture: 46.7%

Reported in Total ug/kg Dry Weight

CAS Number	Analyte	Value
12674-11-2	Aroclor 1016	20 U
53469-21-9	Aroclor 1242	20 U
12672-29-6	Aroclor 1248	20 U
11097-69-1	Aroclor 1254	20 U
11096-82-5	Aroclor 1260	20 U
11104-28-2	Aroclor 1221	39 U
11141-16-5	Aroclor 1232	20 U

PCB-Aroclor Surrogate Recovery

Decachlorobiphenyl	38.2%
Tetrachlorometaxylene	30.8%

Data Qualifiers

J Indicates an estimated value when that result is less than the calculated detection limit.
E Indicates a value above the linear range of the detector. Dilution Required
S Indicates no value reported due to saturation of the detector.
D Indicates the surrogate was diluted out.
U Indicates compound was analyzed for, but not detected at the given detection limit.
B Found in associated method blank
NA Indicates compound was not analyzed.
NR Indicates no recovery due to interferences.
NV Indicates no value reportable - see additional analyses.
Y Indicates a raised reporting limit due to matrix interferences. The analyte may be present at or below the listed concentration, but in the opinion of the analyst, confirmation was inadequate.

FORM-1 PCB
09540

JMB 1/23/4
5431

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD

Sample No: 9739 4734
WR-SD-SD128-0000

Lab Sample ID: T971AF
LIMS ID: 97-18056
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/23/97
Date Received: 09/27/97

Data Release Authorized:
Reported: 11/11/97

Date extracted: 10/15/97
Date analyzed: 11/06/97

Sample Amount: 50.1 g-dry-wt
Final Ext Vol: 10 mL
pH: 7.4

GPC Cleanup: Yes
Florisil Cleanup: Yes
Acid Cleanup: Yes
Sulfur Cleanup: Yes
Conc/Dilution Factor: 1:10
Percent Moisture: 52.4%

Reported in Total ug/kg Dry Weight

CAS Number	Analyte	Value
12674-11-2	Aroclor 1016	200 U
53469-21-9	Aroclor 1242	200 U
12672-29-6	Aroclor 1248	200 U
11097-69-1	**Aroclor 1254**	**380**
11096-82-5	Aroclor 1260	200 U
11104-28-2	Aroclor 1221	400 U
11141-16-5	Aroclor 1232	200 U

PCB-Aroclor Surrogate Recovery

Decachlorobiphenyl	57.5%
Tetrachlorometaxylene	42.5%

Data Qualifiers

J Indicates an estimated value when that result is less than the calculated detection limit.
E Indicates a value above the linear range of the detector. Dilution Required
S Indicates no value reported due to saturation of the detector.
D Indicates the surrogate was diluted out.
U Indicates compound was analyzed for, but not detected at the given detection limit.
B Found in associated method blank
NA Indicates compound was not analyzed.
NR Indicates no recovery due to interferences.
NV Indicates no value reportable - see additional analyses.
Y Indicates a raised reporting limit due to matrix interferences. The analyte may be present at or below the listed concentration, but in the opinion of the analyst, confirmation was inadequate.

FORM-1 PCB

JMB 1/23/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD

Sample No: 9739 4736
WR-SD-SD125-0000

Lab Sample ID: T971AG
LIMS ID: 97-18057
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/23/97
Date Received: 09/27/97

Data Release Authorized:
Reported: 11/11/97

Date extracted: 10/15/97
Date analyzed: 11/06/97

Sample Amount: 52.2 g-dry-wt
Final Ext Vol: 10 mL
pH: 7.2

GPC Cleanup: Yes
Florisil Cleanup: Yes
Acid Cleanup: Yes
Sulfur Cleanup: Yes
Conc/Dilution Factor: 1:1
Percent Moisture: 50.3%

Reported in Total ug/kg Dry Weight

CAS Number	Analyte	Value
12674-11-2	Aroclor 1016	19 U
53469-21-9	Aroclor 1242	19 U
12672-29-6	Aroclor 1248	19 U
11097-69-1	Aroclor 1254	19 U
11096-82-5	Aroclor 1260	19 U
11104-28-2	Aroclor 1221	38 U
11141-16-5	Aroclor 1232	19 U

PCB-Aroclor Surrogate Recovery

Decachlorobiphenyl	34.5%
Tetrachlorometaxylene	28.5%

Data Qualifiers

J Indicates an estimated value when that result is less than the calculated detection limit.
E Indicates a value above the linear range of the detector. Dilution Required
S Indicates no value reported due to saturation of the detector.
D Indicates the surrogate was diluted out.
U Indicates compound was analyzed for, but not detected at the given detection limit.
B Found in associated method blank
NA Indicates compound was not analyzed.
NR Indicates no recovery due to interferences.
NV Indicates no value reportable - see additional analyses.
Y Indicates a raised reporting limit due to matrix interferences. The analyte may be present at or below the listed concentration, but in the opinion of the analyst, confirmation was inadequate.

FORM-1 PCB

JMB 1/23/9

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD

Sample No: 9739 4738
WR-SD-SD127-0000

Lab Sample ID: T971AH
LIMS ID: 97-18058
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/23/97
Date Received: 09/27/97

Data Release Authorized:
Reported: 11/11/97

Date extracted: 10/15/97
Date analyzed: 11/06/97

Sample Amount: 52.0 g-dry-wt
Final Ext Vol: 10 mL
pH: 7.2

GPC Cleanup: Yes
Florisil Cleanup: Yes
Acid Cleanup: Yes
Sulfur Cleanup: Yes
Conc/Dilution Factor: 1:1
Percent Moisture: 48.2%

Reported in Total ug/kg Dry Weight

CAS Number	Analyte	Value
12674-11-2	Aroclor 1016	19 U
53469-21-9	Aroclor 1242	19 U
12672-29-6	Aroclor 1248	19 U
11097-69-1	Aroclor 1254	19 U
11096-82-5	Aroclor 1260	19 U
11104-28-2	Aroclor 1221	38 U
11141-16-5	Aroclor 1232	19 U

PCB-Aroclor Surrogate Recovery

Decachlorobiphenyl	39.8%
Tetrachlorometaxylene	31.5%

Data Qualifiers

J Indicates an estimated value when that result is less than the calculated detection limit.
E Indicates a value above the linear range of the detector. Dilution Required
S Indicates no value reported due to saturation of the detector.
D Indicates the surrogate was diluted out.
U Indicates compound was analyzed for, but not detected at the given detection limit.
B Found in associated method blank
NA Indicates compound was not analyzed.
NR Indicates no recovery due to interferences.
NV Indicates no value reportable - see additional analyses.
Y Indicates a raised reporting limit due to matrix interferences. The analyte may be present at or below the listed concentration, but in the opinion of the analyst, confirmation was inadequate.

FORM-1 PCB

5452
JMB 1/23/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD

Sample No: 9739 4739
WR-SD-SD130-0000

Lab Sample ID: T971AI
LIMS ID: 97-18059
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project:
1001-006
Date Sampled: 09/23/97
Date Received: 09/27/97

Data Release Authorized:
Reported: 11/11/97

Date extracted: 10/15/97
Date analyzed: 11/06/97

Sample Amount: 51.3 g-dry-wt
Final Ext Vol: 10 mL
pH: 7.1

GPC Cleanup: Yes
Florisil Cleanup: Yes
Acid Cleanup: Yes
Sulfur Cleanup: Yes
Conc/Dilution Factor: 1:1
Percent Moisture: 48.7%

Reported in Total ug/kg Dry Weight

CAS Number	Analyte	Value
12674-11-2	Aroclor 1016	19 U
53469-21-9	Aroclor 1242	19 U
12672-29-6	Aroclor 1248	19 U
11097-69-1	Aroclor 1254	19 U
11096-82-5	Aroclor 1260	19 U
11104-28-2	Aroclor 1221	39 U
11141-16-5	Aroclor 1232	19 U

PCB-Aroclor Surrogate Recovery

Decachlorobiphenyl	41.0%
Tetrachlorometaxylene	33.0%

Data Qualifiers

J Indicates an estimated value when that result is less than the calculated detection limit.
E Indicates a value above the linear range of the detector. Dilution Required
S Indicates no value reported due to saturation of the detector.
D Indicates the surrogate was diluted out.
U Indicates compound was analyzed for, but not detected at the given detection limit.
B Found in associated method blank
NA Indicates compound was not analyzed.
NR Indicates no recovery due to interferences.
NV Indicates no value reportable - see additional analyses.
Y Indicates a raised reporting limit due to matrix interferences. The analyte may be present at or below the listed concentration, but in the opinion of the analyst, confirmation was inadequate.

FORM-1 PCB

JMB 1/23/98
5459

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9739 4750

WR-SD- SD117-0000

Lab Sample ID: T971AS
LIMS ID: 97-18069
Matrix: Sediment
Data Release Authorized:
Reported: 11/17/97

QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/13/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 50.8 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:1
Percent Moisture: 33.1%
pH: 7.4

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	0.98 U
319-85-7	beta-BHC	0.98 U
319-86-8	delta-BHC	0.98 U
58-89-9	gamma-BHC (Lindane)	0.98 U
76-44-8	Heptachlor	0.98 U
309-00-2	Aldrin	0.98 U
1024-57-3	Heptachlor Epoxide	0.98 U
959-98-8	Endosulfan I	0.98 U
60-57-1	Dieldrin	2.0 U
72-55-9	**4,4'-DDE**	**2.6**
72-20-8	Endrin	2.0 U
33213-65-9	Endosulfan II	2.0 U
72-54-8	**4,4'-DDD**	**4.7**
1031-07-8	Endosulfan Sulfate	2.0 U
50-29-3	**4,4'-DDT**	**4.7**
72-43-5	Methoxychlor	9.8 U
53494-70-5	Endrin Ketone	2.0 U
7421-93-4	Endrin Aldehyde	2.1 ~~U~~ UI
57-74-9	gamma Chlordane	0.98 U
5103-71-9	alpha Chlordane	0.98 U
8001-35-2	Toxaphene	98 U
12674-11-2	Aroclor 1016	20 U
53469-21-9	Aroclor 1242	20 U
12672-29-6	Aroclor 1248	20 U
11097-69-1	**Aroclor 1254**	**26**
11096-82-5	Aroclor 1260	39 ~~U~~ UI
11104-28-2	Aroclor 1221	39 U
11141-16-5	Aroclor 1232	20 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	80.2%
Tetrachlorometaxylene	44.5%

FORM-1

5466

JMB 1/23/9

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9739 4751

WR-SD- SD117-1000

Lab Sample ID: T971AT
LIMS ID: 97-18070
Matrix: Sediment
Data Release Authorized:
Reported: 11/11/97

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/06/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 50.9 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:1
Percent Moisture: 32.9%
pH: 7.4

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	0.98 U
319-85-7	beta-BHC	0.98 U
319-86-8	delta-BHC	0.98 U
58-89-9	gamma-BHC (Lindane)	0.98 U
76-44-8	Heptachlor	0.98 U
309-00-2	Aldrin	0.98 U
1024-57-3	Heptachlor Epoxide	0.98 U
959-98-8	Endosulfan I	0.98 U
60-57-1	Dieldrin	2.0 U
72-55-9	**4,4'-DDE**	**1.4 J**
72-20-8	Endrin	2.0 U
33213-65-9	Endosulfan II	2.0 U
72-54-8	**4,4'-DDD**	**1.9 J**
1031-07-8	Endosulfan Sulfate	2.0 U
50-29-3	**4,4'-DDT**	**1.8 J**
72-43-5	Methoxychlor	9.8 U
53494-70-5	Endrin Ketone	2.0 U
7421-93-4	Endrin Aldehyde	2.0 U
57-74-9	gamma Chlordane	0.98 U
5103-71-9	alpha Chlordane	0.98 U
8001-35-2	Toxaphene	98 U
12674-11-2	Aroclor 1016	20 U
53469-21-9	Aroclor 1242	20 U
12672-29-6	Aroclor 1248	20 U
11097-69-1	Aroclor 1254	20 U
11096-82-5	Aroclor 1260	20 U
11104-28-2	Aroclor 1221	39 U
11141-16-5	Aroclor 1232	20 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	42.8%
Tetrachlorometaxylene	31.2%

5474

FORM-1

00546

JMB 1/23/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD

Sample No: 9739 4753 WR-SD-SD133-0000

Lab Sample ID: T971AV
LIMS ID: 97-18072
Matrix: Sediment

QC Report No: T971-Roy F. Weston
Project: 1001-006
Date Sampled: 09/23/97
Date Received: 09/27/97

Data Release Authorized:
Reported: 11/11/97

Date extracted: 10/15/97
Date analyzed: 11/06/97

Sample Amount: 52.1 g-dry-wt
Final Ext Vol: 10 mL
pH: 7.5

GPC Cleanup: Yes
Florisil Cleanup: Yes
Acid Cleanup: Yes
Sulfur Cleanup: Yes
Conc/Dilution Factor: 1:10
Percent Moisture: 47.9%

Reported in Total ug/kg Dry Weight

CAS Number	Analyte	Value
12674-11-2	Aroclor 1016	190 U
53469-21-9	Aroclor 1242	190 U
12672-29-6	Aroclor 1248	190 U
11097-69-1	**Aroclor 1254**	**580**
11096-82-5	Aroclor 1260	190 U
11104-28-2	Aroclor 1221	380 U
11141-16-5	Aroclor 1232	190 U

PCB-Aroclor Surrogate Recovery

Decachlorobiphenyl	62.5%
Tetrachlorometaxylene	65.0%

Data Qualifiers

J Indicates an estimated value when that result is less than the calculated detection limit.
E Indicates a value above the linear range of the detector. Dilution Required
S Indicates no value reported due to saturation of the detector.
D Indicates the surrogate was diluted out.
U Indicates compound was analyzed for, but not detected at the given detection limit.
B Found in associated method blank
NA Indicates compound was not analyzed.
NR Indicates no recovery due to interferences.
NV Indicates no value reportable - see additional analyses.
Y Indicates a raised reporting limit due to matrix interferences. The analyte may be present at or below the listed concentration, but in the opinion of the analyst, confirmation was inadequate.

FORM-1 PCB

5481

JMB 1/23/9

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9739 4756

WR-SD-SD020-0000

Lab Sample ID: T971AY
LIMS ID: 97-18074
Matrix: Sediment
Data Release Authorized:
Reported: 11/11/97

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/23/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/06/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 52.2 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:1
Percent Moisture: 45.3%
pH: 7.3

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	0.96 U
319-85-7	beta-BHC	0.96 U
319-86-8	delta-BHC	0.96 U
58-89-9	gamma-BHC (Lindane)	0.96 U
76-44-8	Heptachlor	0.96 U
309-00-2	Aldrin	0.96 U
1024-57-3	Heptachlor Epoxide	0.96 U
959-98-8	Endosulfan I	0.96 U
60-57-1	Dieldrin	1.9 U
72-55-9	**4,4'-DDE**	**1.2 J**
72-20-8	Endrin	1.9 U
33213-65-9	Endosulfan II	1.9 U
72-54-8	**4,4'-DDD**	**1.4 J**
1031-07-8	Endosulfan Sulfate	1.9 U
50-29-3	**4,4'-DDT**	**1.9 J**
72-43-5	Methoxychlor	9.6 U
53494-70-5	Endrin Ketone	1.9 U
7421-93-4	Endrin Aldehyde	1.9 U
57-74-9	gamma Chlordane	0.96 U
5103-71-9	alpha Chlordane	0.96 U
8001-35-2	Toxaphene	96 U
12674-11-2	Aroclor 1016	19 U
53469-21-9	Aroclor 1242	19 U
12672-29-6	Aroclor 1248	19 U
11097-69-1	Aroclor 1254	19 U
11096-82-5	Aroclor 1260	19 U
11104-28-2	Aroclor 1221	38 U
11141-16-5	Aroclor 1232	19 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	35.5%
Tetrachlorometaxylene	29.5%

FORM-1

00648

5488

JMB 1/23/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9739 4758

WR-SD- SD138- 0000

Lab Sample ID: T971AZ
LIMS ID: 97-18075
Matrix: Sediment
Data Release Authorized:
Reported: 11/11/97

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/06/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 52.5 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:1
Percent Moisture: 47.7%
pH: 7.5

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	0.95 U
319-85-7	beta-BHC	0.95 U
319-86-8	delta-BHC	0.95 U
58-89-9	gamma-BHC (Lindane)	0.95 U
76-44-8	Heptachlor	0.95 U
309-00-2	Aldrin	0.95 U
1024-57-3	Heptachlor Epoxide	0.95 U
959-98-8	Endosulfan I	0.95 U
60-57-1	Dieldrin	1.9 U
72-55-9	**4,4'-DDE**	**1.4 J**
72-20-8	Endrin	1.9 U
33213-65-9	Endosulfan II	1.9 U
72-54-8	**4,4'-DDD**	**1.1 J**
1031-07-8	Endosulfan Sulfate	1.9 U
50-29-3	**4,4'-DDT**	**1.4 J**
72-43-5	Methoxychlor	9.5 U
53494-70-5	Endrin Ketone	1.9 U
7421-93-4	Endrin Aldehyde	1.9 U
57-74-9	gamma Chlordane	0.95 U
5103-71-9	alpha Chlordane	0.95 U
8001-35-2	Toxaphene	95 U
12674-11-2	Aroclor 1016	19 U
53469-21-9	Aroclor 1242	19 U
12672-29-6	Aroclor 1248	19 U
11097-69-1	Aroclor 1254	19 U
11096-82-5	Aroclor 1260	19 U
11104-28-2	Aroclor 1221	38 U
11141-16-5	Aroclor 1232	19 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	40.8%
Tetrachlorometaxylene	32.2%

FORM-1

JMB 11/23/98
5495

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9739 4760
REANALYSIS WR-SD-SD150-0000

Lab Sample ID: T971BB-RE
LIMS ID: 97-18077
Matrix: Sediment
Data Release Authorized:
Reported: 11/17/97

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 11/11/97
Date analyzed: 11/13/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 29.7 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 1:1
Percent Moisture: 34.3%
pH: 7.5

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	0.84 U
319-85-7	beta-BHC	0.84 U
319-86-8	delta-BHC	0.84 U
58-89-9	gamma-BHC (Lindane)	0.84 U
76-44-8	Heptachlor	0.84 U
309-00-2	Aldrin	0.84 U
1024-57-3	Heptachlor Epoxide	0.84 U
959-98-8	Endosulfan I	0.94 ~~Y~~ UI
60-57-1	Dieldrin	1.7 U
72-55-9	4,4'-DDE	1.7 U
72-20-8	Endrin	2.2 ~~Y~~ UI
33213-65-9	Endosulfan II	1.7 U
72-54-8	4,4'-DDD	1.7 U
1031-07-8	Endosulfan Sulfate	1.7 U
50-29-3	4,4'-DDT	2.6 ~~Y~~ UI
72-43-5	Methoxychlor	8.4 U
53494-70-5	Endrin Ketone	6.4 ~~Y~~ UI
7421-93-4	Endrin Aldehyde	3.3 ~~Y~~ UI
57-74-9	gamma Chlordane	1.4 ~~Y~~ UI
5103-71-9	alpha Chlordane	0.84 U
8001-35-2	Toxaphene	84 U
12674-11-2	Aroclor 1016	17 U
53469-21-9	Aroclor 1242	17 U
12672-29-6	Aroclor 1248	17 U
11097-69-1	**Aroclor 1254**	**46**
11096-82-5	**Aroclor 1260**	**110**
11104-28-2	Aroclor 1221	34 U
11141-16-5	Aroclor 1232	17 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	46.8%
Tetrachlorometaxylene	34.5%

FORM-1

JMB 1231
5502

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9739 4765

WR-SD- SD137-0000

Lab Sample ID: T971BG
LIMS ID: 97-18082
Matrix: Sediment
Data Release Authorized:
Reported: 11/11/97

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/06/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 50.6 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:1
Percent Moisture: 44.2%
pH: 7.4

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	0.99 U
319-85-7	beta-BHC	0.99 U
319-86-8	delta-BHC	0.99 U
58-89-9	gamma-BHC (Lindane)	0.99 U
76-44-8	Heptachlor	0.99 U
309-00-2	Aldrin	0.99 U
1024-57-3	Heptachlor Epoxide	0.99 U
959-98-8	Endosulfan I	0.99 U
60-57-1	Dieldrin	2.0 U
72-55-9	**4,4'-DDE**	**1.7 J**
72-20-8	Endrin	2.0 U
33213-65-9	Endosulfan II	2.0 U
72-54-8	4,4'-DDD	2.0 U
1031-07-8	Endosulfan Sulfate	2.0 U
50-29-3	4,4'-DDT	2.0 U
72-43-5	Methoxychlor	9.9 U
53494-70-5	Endrin Ketone	2.0 U
7421-93-4	Endrin Aldehyde	2.0 U
57-74-9	gamma Chlordane	0.99 U
5103-71-9	alpha Chlordane	0.99 U
8001-35-2	Toxaphene	99 U
12674-11-2	Aroclor 1016	20 U
53469-21-9	Aroclor 1242	20 U
12672-29-6	Aroclor 1248	20 U
11097-69-1	Aroclor 1254	20 U
11096-82-5	Aroclor 1260	20 U
11104-28-2	Aroclor 1221	40 U
11141-16-5	Aroclor 1232	20 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	41.5%
Tetrachlorometaxylene	33.8%

FORM-1

0065

JMB 1/23/9.
5510

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9739 4766

WR-SD-SD137-1000

Lab Sample ID: T971BH
LIMS ID: 97-18083
Matrix: Sediment
Data Release Authorized:
Reported: 11/11/97

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/06/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 52.4 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:1
Percent Moisture: 45.3%
pH: 7.4

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	0.95 U
319-85-7	beta-BHC	0.95 U
319-86-8	delta-BHC	0.95 U
58-89-9	gamma-BHC (Lindane)	0.95 U
76-44-8	Heptachlor	0.95 U
309-00-2	Aldrin	0.95 U
1024-57-3	Heptachlor Epoxide	0.95 U
959-98-8	Endosulfan I	0.95 U
60-57-1	Dieldrin	1.9 U
72-55-9	**4,4'-DDE**	**1.6 J**
72-20-8	Endrin	1.9 U
33213-65-9	Endosulfan II	1.9 U
72-54-8	**4,4'-DDD**	**1.3 J**
1031-07-8	Endosulfan Sulfate	1.9 U
50-29-3	**4,4'-DDT**	**1.5 J**
72-43-5	Methoxychlor	9.5 U
53494-70-5	Endrin Ketone	1.9 U
7421-93-4	Endrin Aldehyde	1.9 U
57-74-9	gamma Chlordane	0.95 U
5103-71-9	alpha Chlordane	0.95 U
8001-35-2	Toxaphene	95 U
12674-11-2	Aroclor 1016	19 U
53469-21-9	Aroclor 1242	19 U
12672-29-6	Aroclor 1248	19 U
11097-69-1	Aroclor 1254	19 U
11096-82-5	Aroclor 1260	19 U
11104-28-2	Aroclor 1221	38 U
11141-16-5	Aroclor 1232	19 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	40.0%
Tetrachlorometaxylene	32.8%

FORM-1

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ANALYTICAL
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ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9739 4777
WR-SD-SD151-0000

Lab Sample ID: T971BP
LIMS ID: 97-18091
Matrix: Sediment
Data Release Authorized:
Reported: 11/11/97

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/06/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 52.6 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:50
Percent Moisture: 47.5%
pH: 7.2

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	48 U
319-85-7	beta-BHC	48 U
319-86-8	delta-BHC	48 U
58-89-9	gamma-BHC (Lindane)	48 U
76-44-8	Heptachlor	48 U
309-00-2	Aldrin	48 U
1024-57-3	Heptachlor Epoxide	48 U
959-98-8	Endosulfan I	48 U
60-57-1	Dieldrin	95 U
72-55-9	4,4'-DDE	95 U
72-20-8	Endrin	95 U
33213-65-9	Endosulfan II	95 U
72-54-8	4,4'-DDD	95 U
1031-07-8	Endosulfan Sulfate	95 U
50-29-3	4,4'-DDT	95 U
72-43-5	Methoxychlor	480 U
53494-70-5	Endrin Ketone	95 U
7421-93-4	Endrin Aldehyde	95 U
57-74-9	gamma Chlordane	48 U
5103-71-9	alpha Chlordane	48 U
8001-35-2	Toxaphene	4,800 U
12674-11-2	Aroclor 1016	950 U
53469-21-9	Aroclor 1242	950 U
12672-29-6	Aroclor 1248	950 U
11097-69-1	Aroclor 1254	950 U
11096-82-5	Aroclor 1260	950 U
11104-28-2	Aroclor 1221	1,900 U
11141-16-5	Aroclor 1232	950 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	D
Tetrachlorometaxylene	D

FORM-1

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ANALYTICAL
RESOURCES
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ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 9739 4778

WR-SD- SD151-1000

Lab Sample ID: T971BQ
LIMS ID: 97-18092
Matrix: Sediment
Data Release Authorized:
Reported: 11/11/97

QC Report No: T971-Roy F. Weston
Project: 1001-006

Date Sampled: 09/24/97
Date Received: 09/27/97

Date extracted: 10/15/97
Date analyzed: 11/06/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 51.7 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:10
Percent Moisture: 46.0%
pH: 7.4

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	9.7 U
319-85-7	beta-BHC	9.7 U
319-86-8	delta-BHC	9.7 U
58-89-9	gamma-BHC (Lindane)	9.7 U
76-44-8	Heptachlor	9.7 U
309-00-2	Aldrin	9.7 U
1024-57-3	Heptachlor Epoxide	9.7 U
959-98-8	Endosulfan I	9.7 U
60-57-1	Dieldrin	19 U
72-55-9	4,4'-DDE	19 U
72-20-8	Endrin	19 U
33213-65-9	Endosulfan II	19 U
72-54-8	4,4'-DDD	19 U
1031-07-8	Endosulfan Sulfate	19 U
50-29-3	4,4'-DDT	19 U
72-43-5	Methoxychlor	97 U
53494-70-5	Endrin Ketone	19 U
7421-93-4	Endrin Aldehyde	19 U
57-74-9	gamma Chlordane	9.7 U
5103-71-9	alpha Chlordane	9.7 U
8001-35-2	Toxaphene	970 U
12674-11-2	Aroclor 1016	190 U
53469-21-9	Aroclor 1242	190 U
12672-29-6	Aroclor 1248	190 U
11097-69-1	**Aroclor 1254**	**500**
11096-82-5	Aroclor 1260	190 U
11104-28-2	Aroclor 1221	390 U
11141-16-5	Aroclor 1232	190 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	102%
Tetrachlorometaxylene	70.0%

FORM-1

JMB 1/23/1

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1.8

Roy F. Weston, Inc.
Suite 5700
700 5th Avenue
Seattle, Washington 98104-5057
206-521-7600 • Fax 206-521-7601

MEMORANDUM

DATE: 4 February 1998

TO: John Meyer, WAM, U.S. EPA, Region X

FROM: Jennifer M. Baier, Environmental Chemist, WESTON, Seattle JMB
RNM Roger McGinnis, Senior Environmental Chemist, WESTON, Seattle

SUBJECT: Validation of Organics (Semivolatiles, Pesticides, and PCBs)
SDG No: U175
Site: Willamette River

WORK ASSIGNMENT NO: 46-23-0JZZ

DOC. CONTROL NO.: 4000-019-036-AABP

WORK ORDER NO.: 4000-019-036-5200-00

cc: Bruce Woods, RAP-WAM, U.S. EPA, Region X
Karen Stash, Project Manager, WESTON, Seattle (memo only)

The quality assurance review of 10 samples, SDG U175, collected from the Willamette River has been completed. The sediment samples were analyzed at low level for semivolatiles, pesticides and PCBs by Analytical Resources, Inc. The samples were numbered:

97424900	97424902	97424903	97424904	97424906
97424907	97424908	97424909	97424910	97424912

Data Qualifications

The following comments refer to the laboratory performance in meeting the quality control criteria described in the technical specifications of the laboratory subcontract. The review follows the format described in the *National Functional Guidelines for Organic Data Review* (EPA OSWER Directive 9240.1-05, February 1994).

1. Timeliness

All samples met holding time criteria.

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2. GC/MS Instrument Performance Check

All tuning check compound mass abundances and ratios were within required limits.

3. Initial Calibration

All target compound list (TCL) analytes and system monitoring compounds were within required limits for the initial calibration with average relative response factors $\overline{RRF}$ greater than or equal to 0.05.

All target compound list (TCL) analytes and system monitoring compounds were within required limits for the initial calibration with $\overline{RRF}$ percent relative standard deviations (percent RSD) less than 30 percent except:

Date	Compound	Percent RSD	Associated Samples
11/13/97	Benzyl Alcohol	34.2	97424900, 97424902,
	Hexachlorocyclopentadiene	39.8	97424903, 97424904,
	2,4-Dinitrophenol	58.3	97424906, 97424907,
	4,6-Dinitro-2-methylphenol	32.8	97424909, 97424910,
	Pentachlorophenol	35.2	97424912
11/21/97	2,4-Dinitrophenol	31.8	97424900DL, 97424907DL, 97424909DL, 97424910DL, 97424912DL

Results and quantitation limits for compounds associated with the above calibrations and samples have been qualified as estimated (J) as a high RSD is indicative of calibration nonlinearity.

4. Continuing Calibrations

All target compound list (TCL) analytes were within required limits for the continuing calibrations with average relative response factors $\overline{RRF}$ greater than or equal to 0.05.

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All target compound list (TCL) analytes were within required limits for the continuing calibration with $\overline{RRF}$ percent differences less than 25 percent except:

Date	Time	Compound	% Diff	Associated Samples
11/17/97	15:57	Benzyl Alcohol	-58.4	97424900, 97424902,
		Hexachlorocyclopentadiene	43.4	97424903, 97424904,
		3-Nitroaniline	53.1	97424906, 97424907,
		4-Nitroaniline	36.8	97424909, 97424910,
		N-Nitrosodiphenylamine	36.1	97424912
		Carbazole	62.2	

Positive results for compounds associated with the above calibrations and samples have been qualified as estimated (J).

5. Detection Limits—Acceptable

Laboratory reporting limits are less than or equal to project required quantitation limits.

6. Blanks

a. Laboratory Method Blanks

Laboratory method blank frequency criteria were met.

The following compounds were detected in laboratory method blanks.

Blank ID	Fraction	Compound (RT)	Concentration (µg/kg)
Method Blank	BNA	1,1,2,2-Tetrachloroethane (6.62)	31
		Unknown Alcohol (13.67)	25
		Unknown Alcohol (18.97)	57

Reported levels of the above compounds were qualified as undetected with an adjusted quantitation limit (UJ) in samples if concentrations were less than five times concentrations present in the blank (ten times for common laboratory contaminants [e.g., phthalates]).

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b. Field Blanks

No field blanks were associated with this SDG.

7. System Monitoring Compounds (Surrogates)

Surrogate compound percent recovery met quality control criteria for all samples except:

Sample	Fraction	Compound	Percent Recovery	QC Limits
~~97424900~~	~~Pest/PCB~~	~~TCMX~~	~~20.5~~	30-150
97424902	Pest/PCB	TCMX	19	30-150
97424904	Pest/PCB	TCMX	21.5	30-150
97424906	Pest/PCB	TCMX	28	30-150
	Pest/PCB	DCB	18.5	30-150
97424912	Pest/PCB	TCMX	18.5	30-150

Results and quantitation limits for samples listed above were qualified as estimated (J/UJ). For samples with any surrogate recovery less than 10 percent, positive results were qualified as estimated (J) and quantitation limits for undetected compounds were rejected (R).

8. Matrix Spike and Matrix Spike Duplicate

Matrix spike (MS) or matrix spike duplicate (MSD) percent recovery for the following compounds were outside QC guidelines.

Sample	Fraction	Compound	Percent Recovery	QC Limits
97424912	BNA	Acenaphthene	23.6	31-137
		Pentachlorophenol	0	17-109

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Sample	Fraction	Compound	Percent Recovery	QC Limits
97424900	Pest/PCB-MS	gamma-BHC	19.4	46-127
		Heptachlor	18.8	35-130
		Aldrin	14.2	34-132
		Endrin	38.9	42-139
	Pest/PCB-MSD	gamma-BHC	15.4	46-127
		Heptachlor	15.9	35-130
		Aldrin	11.4	34-132
		Endrin	30.7	42-139

Relative percent differences (RPD) between the MS and MSD percent recoveries exceeded QC guidelines for the following compounds:

Sample	Fraction	Compound	RPD	QC Limits
97424912	BNA	Acenaphthene	98	19

No action was taken based solely on MS/MSD data, with the exception of pentachlorophenol in sample 97424912. The result was rejected (R) due to poor spike recovery.

9. Field Duplicate Analysis

No field duplicate samples were associated with this sample delivery group.

10. Internal Standards Performance

Internal standard areas were within requirements of -50 percent to +100 percent of associated calibration internal standard areas. Retention time shifts for internal standards met requirements of less than 30 seconds.

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11. GC/ECD Instrument Performance

a. Resolution Check Mixture

The resolution check mixture was analyzed at the proper frequency. Resolution (valley depth) between adjacent peaks was greater than 60 percent of the shorter peak.

b. Performance Evaluation Mixture

i. Frequency

Samples were analyzed at the proper frequency.

ii. Resolution

Resolution was greater than 90 percent for all adjacent peaks.

iii. Retention Time Windows

Retention times of all pesticides were within windows calculated from the initial calibration.

iv. Pesticide Recovery

Recovery for all single component pesticides and surrogate compounds were within QC limits of 75 to 125 percent for both GC columns.

v. DDT/Endrin Breakdown

The percent breakdown for 4,4'-DDT and Endrin was less than 20 percent for each compound and combined breakdown was less than 30 percent on both GC columns.

12. Pesticide Initial Calibration

a. Individual Standard Mixtures

Resolution between adjacent peaks for the initial calibration, mid level concentration was greater than 90 percent.

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Retention time windows were calculated correctly.

Appropriate standards concentrations were used and peak heights of 50 to 100 percent of full scale were obtained.

Calibration factor percent relative standard deviation (%RSD) exceeded QC criteria of 20 percent for pesticides and 30 percent for surrogates listed below:

Date	GC Column	Compound	% Diff	Associated Samples
11/11/97	DB-5	delta-BHC	21.9	None
		4,4'-DDT	27.3	
11/19/97	DB-5	4,4'-DDT	25.1	None

Results and quantitation limits for analytes listed above have been qualified as estimated (J).

13. Pesticide Calibration Verification

Instrument blanks and PEM samples were analyzed at the proper frequency.

Resolution between adjacent peaks in individual pesticide mixtures exceeded 90 percent.

The difference between actual and calculated concentrations of individual pesticides exceeded QC criteria of ±25 percent for the following pesticides:

Date	Time	GC Column	Compound	% Diff	Associated Samples
11/11/97	11:41	DB-5	4,4'-DDT	30	None
11/11/97	19:56	DB-5	4,4'-DDT	28	None
11/17/97	12:20	DB-5	4,4'-DDT	34	97424900, 97424902
11/17/97	20:35	DB-5	delta-BHC	40	97424904,
			Endosulfan Sulfate	35	97424906,
			Endrin Ketone	28	97424912
11/17/97	20:35	DB-608	alpha-Chlordane	-30	None

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Date	Time	GC Column	Compound	% Diff	Associated Samples
11/19/97	15:39	DB-5	4,4'-DDT	32	None
11/19/97	23:53	DB-5	4,4'-DDT	28	97424900DL

Results and quantitation limits for pesticides listed above were qualified as estimated (J).

14. Pesticide Cleanup Checks

a. Florisil Cartridge Cleanup

Recovery for mixture A pesticides and surrogates were within QC limits of 80 to 120 percent. Recovery of 2,4,5-trichlorophenol was less than 5 percent as required.

b. Gel Permeation Cleanup (GPC)

All pesticides in the matrix spiking solution met recovery limits of 80 to 110 percent. Aroclor-1016 and 1260 patterns matched those of standards.

GPC blank concentrations did not exceed one-half the CRDL for any target analytes.

15. Sample Analysis

The following samples had percent differences between the columns greater than 35% for the listed analytes.

Sample Number	Compound	DB-5 Conc.	DB-608 Conc.	% Diff
97424900	4,4'-DDD	110	36	205.6
	4,4'-DDT	97	42	131
97424900DL	4,4'-DDD	81	53	52.8
97424902	4,4'-DDE	8.3	2.8	196.4
	4,4'-DDD	20	4.8	316.7
	4,4'-DDT	44	15	193.3
97424904	4,4'-DDD	5.6	3.3	69.7

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Sample Number	Compound	DB-5 Conc.	DB-608 Conc.	% Diff
	Aroclor-1254	59	31	90
	Aroclor-1260	81	34	140
97424906	Aroclor-1254	60	39	54
	Aroclor-1260	120	73	64
97424912	4,4'-DDD	77	23	234.8
	4,4'-DDT	42	18	133.3

Differences can arise from analytical interferences on one column. However, the percent differences are not deemed significant at the reported concentrations. The lower concentration was reported for each analyte.

16. Laboratory Contact

No laboratory contact was required.

Data Assessment

Upon consideration of the data qualifications noted above, the data are ACCEPTABLE for use except where flagged with data qualifiers that modify the usefulness of the individual values.

Data Qualifiers

U - The compound was analyzed for, but was not detected.

UJ - The compound was analyzed for, but was not detected. The associated quantitation limit is an estimate because quality control criteria were not met.

J - The analyte was positively identified, but the associated numerical value is an estimated quantity because quality control criteria were not met or because concentrations reported are less than the quantitation limit or lowest calibration standard.

R - Quality control indicates that data are unusable (compound may or may not be present). Resampling and reanalysis are necessary for verification.

N - Presumptive evidence of presence of material (tentative identification).

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: U175A
LIMS ID: 97-19474
Matrix: Sediment
Data Release Authorized: BVB
Reported: 11/26/97

Sample No: 97424900
WR-SD-SD001-0000A
QC Report No: U175-REGL, LLC
Project: 1001-006
Date Sampled: 10/14/97
Date Received: 10/16/97

Date extracted: 10/27/97
Date analyzed: 11/17/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 27.3 g-dry-wt
Final Extract Volume: 2.0 mL
Dilution Factor: 1:1
Percent Moisture: 45.5%
pH: 7.5

CAS Number	Analyte	ug/kg
108-95-2	Phenol	73 U
111-44-4	Bis-(2-Chloroethyl) Ether	150 U
95-57-8	2-Chlorophenol	73 U
541-73-1	1,3-Dichlorobenzene	73 U
106-46-7	1,4-Dichlorobenzene	73 U
100-51-6	Benzyl Alcohol	73 U J
95-50-1	1,2-Dichlorobenzene	73 U
95-48-7	2-Methylphenol	73 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	73 U
106-44-5	**4-Methylphenol**	**450**
621-64-7	N-Nitroso-Di-N-Propylamine	150 U
67-72-1	Hexachloroethane	73 U
98-95-3	Nitrobenzene	73 U
78-59-1	Isophorone	73 U
88-75-5	2-Nitrophenol	370 U
105-67-9	2,4-Dimethylphenol	73 U
65-85-0	Benzoic Acid	730 U
111-91-1	bis(2-Chloroethoxy) Methane	73 U
120-83-2	2,4-Dichlorophenol	220 U
120-82-1	1,2,4-Trichlorobenzene	73 U
91-20-3	**Naphthalene**	**2,900**
106-47-8	4-Chloroaniline	220 U
87-68-3	Hexachlorobutadiene	73 U
59-50-7	4-Chloro-3-methylphenol	150 U
91-57-6	**2-Methylnaphthalene**	**1,400**
77-47-4	Hexachlorocyclopentadiene	370 U J
88-06-2	2,4,6-Trichlorophenol	370 U
95-95-4	2,4,5-Trichlorophenol	370 U
91-58-7	2-Chloronaphthalene	73 U
88-74-4	2-Nitroaniline	370 U
131-11-3	Dimethylphthalate	73 U
208-96-8	**Acenaphthylene**	**400**
99-09-2	3-Nitroaniline	440 U J
83-32-9	**Acenaphthene**	**4,100**
51-28-5	2,4-Dinitrophenol	730 U J
100-02-7	4-Nitrophenol	370 U
132-64-9	**Dibenzofuran**	**290**
606-20-2	2,6-Dinitrotoluene	370 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS

Sample No: 97424900
WR-SD- SD001-0000A

Lab Sample ID: U175A
LIMS ID: 97-19474
Matrix: Sediment
Data Release Authorized: ONB
Reported: 11/26/97

QC Report No: U175-REGL, LLC
Project: 1001-006
Date Sampled: 10/14/97
Date Received: 10/16/97

Date extracted: 10/27/97
Date analyzed: 11/17/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 27.3 g-dry-wt
Final Extract Volume: 2.0 mL
Dilution Factor: 1:1
Percent Moisture: 45.5%
pH: 7.5

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	370 U
84-66-2	Diethylphthalate	73 U
7005-72-3	4-Chlorophenyl-phenylether	73 U
86-73-7	**Fluorene**	**2,600**
100-01-6	4-Nitroaniline	370 U J
534-52-1	4,6-Dinitro-2-Methylphenol	730 U J
86-30-6	N-Nitrosodiphenylamine	73 U J
101-55-3	4-Bromophenyl-phenylether	73 U
118-74-1	Hexachlorobenzene	73 U
87-86-5	Pentachlorophenol	370 U J
85-01-8	**Phenanthrene**	~~13,000 E~~ 18000 D
86-74-8	**Carbazole**	**370 J**
120-12-7	**Anthracene**	**3,000**
84-74-2	Di-n-Butylphthalate	73 U
206-44-0	**Fluoranthene**	~~12,000 E~~ 14000 D
129-00-0	**Pyrene**	~~13,000 E~~ 19000 D
85-68-7	Butylbenzylphthalate	73 U
91-94-1	3,3'-Dichlorobenzidine	370 U
56-55-3	**Benzo(a)anthracene**	**4,200**
117-81-7	bis(2-Ethylhexyl)phthalate	73 U
218-01-9	**Chrysene**	**5,300**
117-84-0	Di-n-Octyl phthalate	73 U
205-99-2	**Benzo(b)fluoranthene**	**4,200**
207-08-9	**Benzo(k)fluoranthene**	**2,900**
50-32-8	**Benzo(a)pyrene**	**5,700**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**3,200**
53-70-3	**Dibenz(a,h)anthracene**	**830**
191-24-2	**Benzo(g,h,i)perylene**	**4,600**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	58.4%	d5-Phenol	64.0%
2-Fluorobiphenyl	66.6%	2-Fluorophenol	64.2%
d14-p-Terphenyl	72.2%	2,4,6-Tribromophenol	76.9%
d4-1,2-Dichlorobenzene	56.2%	d4-2-Chlorophenol	62.3%

FORM-1

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ANALYTICAL
RESOURCES
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ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 97424900
WR-SD- SD001-0600A

Lab Sample ID: U175A
LIMS ID: 97-19474
Matrix: Sediment

QC Report No: U175-REGL, LLC
Project: 1001-006

Date Sampled: 10/14/97
Date Received: 10/16/97

Data Release Authorized: CWS
Reported: 11/26/97

Date Analyzed: 11/17/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	90-12-0	Naphthalene,_1-methyl-___	12.10	SVOA	2,800 JN
2.	--	Naphthalene,_Dimethyl_Iso	13.14	SVOA	1,800 JN
3.	--	Naphthalene,_Dimethyl_Iso	13.31	SVOA	3,300 JN
4.	132-65-0	Dibenzothiophene_____	16.73	SVOA	3,100 JN
5.	--	Unknown_PNA_____	17.59	SVOA	3,600 JN
6.	--	Unknown_C15.H12_PNA_____	17.96	SVOA	2,600 JN
7.	--	Unknown_C15.H12_PNA_____	18.02	SVOA	3,200 JN
8.	--	Unknown_Aromatic_____	18.20	SVOA	6,300 JN
9.	--	Unknown_C16.H12_PNA_____	18.57	SVOA	2,700 JN
10.	--	Unknown_____	18.65	SVOA	2,100 JN
11.	--	Unknown_C16.H14_PNA_____	19.11	SVOA	2,900 JN
12.	--	Unknown_C16.H10_PNA_____	19.58	SVOA	2,500 JN
13.	--	Unknown_Aromatic_____	20.51	SVOA	6,100 JN
14.	--	Unknown_C17.H12_PNA_____	20.66	SVOA	2,000 JN
15.	--	Unknown_PNA_____	21.87	SVOA	2,700 JN
16.	--	Unknown_Aromatic_____	22.48	SVOA	1,900 JN
17.	--	Unknown_C20.H12_PNA_____	24.77	SVOA	3,300 JN
18.	--	Unknown_Aromatic_____	26.91	SVOA	1,800 JN
19.	--	Unknown_C22.H12_PNA_____	27.34	SVOA	2,600 JN
20.	--	Unknown_____	27.44	SVOA	2,200 JN

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
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Sample No: 97424900
DILUTION

Lab Sample ID: U175A
LIMS ID: 97-19474
Matrix: Sediment
Data Release Authorized: CWB
Reported: 11/26/97

QC Report No: U175-REGL, LLC
Project: 1001-006
Date Sampled: 10/14/97
Date Received: 10/16/97

Date extracted: 10/27/97
Date analyzed: 11/21/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 27.3 g-dry-wt
Final Extract Volume: 2.0 mL
Dilution Factor: 1:10
Percent Moisture: 45.5%
pH: 7.5

CAS Number	Analyte	ug/kg
108-95-2	Phenol	730 U
111-44-4	Bis-(2-Chloroethyl) Ether	1,500 U
95-57-8	2-Chlorophenol	730 U
541-73-1	1,3-Dichlorobenzene	730 U
106-46-7	1,4-Dichlorobenzene	730 U
100-51-6	Benzyl Alcohol	730 U
95-50-1	1,2-Dichlorobenzene	730 U
95-48-7	2-Methylphenol	730 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	730 U
106-44-5	4-Methylphenol	730 U
621-64-7	N-Nitroso-Di-N-Propylamine	1,500 U
67-72-1	Hexachloroethane	730 U
98-95-3	Nitrobenzene	730 U
78-59-1	Isophorone	730 U
88-75-5	2-Nitrophenol	3,700 U
105-67-9	2,4-Dimethylphenol	730 U
65-85-0	Benzoic Acid	7,300 U
111-91-1	bis(2-Chloroethoxy) Methane	730 U
120-83-2	2,4-Dichlorophenol	2,200 U
120-82-1	1,2,4-Trichlorobenzene	730 U
91-20-3	**Naphthalene**	**2,200**
106-47-8	4-Chloroaniline	2,200 U
87-68-3	Hexachlorobutadiene	730 U
59-50-7	4-Chloro-3-methylphenol	1,500 U
91-57-6	**2-Methylnaphthalene**	**1,000**
77-47-4	Hexachlorocyclopentadiene	3,700 U
88-06-2	2,4,6-Trichlorophenol	3,700 U
95-95-4	2,4,5-Trichlorophenol	3,700 U
91-58-7	2-Chloronaphthalene	730 U
88-74-4	2-Nitroaniline	3,700 U
131-11-3	Dimethylphthalate	730 U
208-96-8	Acenaphthylene	730 U
99-09-2	3-Nitroaniline	4,400 U
83-32-9	**Acenaphthene**	**3,600**
51-28-5	2,4-Dinitrophenol	7,300 U J
100-02-7	4-Nitrophenol	3,700 U
132-64-9	Dibenzofuran	730 U
606-20-2	2,6-Dinitrotoluene	3,700 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
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Sample No: 97424900
DILUTION

Lab Sample ID: U175A
LIMS ID: 97-19474
Matrix: Sediment
Data Release Authorized: AWB
Reported: 11/26/97

QC Report No: U175-REGL, LLC
Project: 1001-006

Date Sampled: 10/14/97
Date Received: 10/16/97

Date extracted: 10/27/97
Date analyzed: 11/21/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 27.3 g-dry-wt
Final Extract Volume: 2.0 mL
Dilution Factor: 1:10
Percent Moisture: 45.5%
pH: 7.5

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	3,700 U
84-66-2	Diethylphthalate	730 U
7005-72-3	4-Chlorophenyl-phenylether	730 U
86-73-7	**Fluorene**	**1,700**
100-01-6	4-Nitroaniline	3,700 U
534-52-1	4,6-Dinitro-2-Methylphenol	7,300 U
86-30-6	N-Nitrosodiphenylamine	730 U
101-55-3	4-Bromophenyl-phenylether	730 U
118-74-1	Hexachlorobenzene	730 U
87-86-5	Pentachlorophenol	3,700 U
85-01-8	**Phenanthrene**	**18,000**
86-74-8	Carbazole	730 U
120-12-7	**Anthracene**	**2,200**
84-74-2	Di-n-Butylphthalate	730 U
206-44-0	**Fluoranthene**	**14,000**
129-00-0	**Pyrene**	**19,000**
85-68-7	Butylbenzylphthalate	730 U
91-94-1	3,3'-Dichlorobenzidine	3,700 U
56-55-3	**Benzo(a)anthracene**	**3,500**
117-81-7	bis(2-Ethylhexyl)phthalate	730 U
218-01-9	**Chrysene**	**4,700**
117-84-0	Di-n-Octyl phthalate	730 U
205-99-2	**Benzo(b)fluoranthene**	**2,500**
207-08-9	**Benzo(k)fluoranthene**	**3,200**
50-32-8	**Benzo(a)pyrene**	**5,100**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**3,200**
53-70-3	Dibenz(a,h)anthracene	730 U
191-24-2	**Benzo(g,h,i)perylene**	**4,800**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	52.8%	d5-Phenol	53.1%
2-Fluorobiphenyl	52.8%	2-Fluorophenol	54.4%
d14-p-Terphenyl	58.0%	2,4,6-Tribromophenol	56.0%
d4-1,2-Dichlorobenzene	47.6%	d4-2-Chlorophenol	52.3%

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 97424900
DILUTION

Lab Sample ID: U175A
LIMS ID: 97-19474
Matrix: Sediment

QC Report No: U175-REGL, LLC
Project: 1001-006
Date Sampled: 10/14/97
Date Received: 10/16/97

Data Release Authorized: CAP
Reported: 11/26/97

Date Analyzed: 11/21/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	---	Unknown	8.98	SVOA	1,500 J N
2.	---	Unknown_Hydrocarbon	12.36	SVOA	1,600 J N
3.	90-12-0	Naphthalene,_1-methyl-	13.10	SVOA	2,900 JN
4.	---	Unknown_Hydrocarbon	13.57	SVOA	2,200 J N
5.	---	Naphthalene,_Ethyl_Isomer	14.01	SVOA	1,600 J N
6.	---	Naphthalene,_Dimethyl_Iso	14.14	SVOA	1,900 J N
7.	---	Naphthalene,_Dimethyl_Iso	14.31	SVOA	3,300 J N
8.	---	Unknown_Hydrocarbon	14.49	SVOA	2,100 JN
9.	---	Unknown_Hydrocarbon	16.35	SVOA	3,000 J N
10.	---	Unknown_Hydrocarbon	16.88	SVOA	3,400 J N
11.	132-65-0	Dibenzothiophene	17.75	SVOA	1,800 JN
12.	---	Unknown_Hydrocarbon	17.83	SVOA	2,300 J N
13.	---	Unknown_Aromatic	19.21	SVOA	2,300 J N
14.	---	Unknown	19.93	SVOA	1,700 J N
15.	---	Unknown_PNA	21.50	SVOA	2,700 J N
16.	---	Unknown_PNA	22.89	SVOA	3,000 J N
17.	---	Unknown_Hydrocarbon	24.25	SVOA	2,300 J N
18.	---	Unknown_C20.H12_PNA	25.79	SVOA	3,400 J N
19.	---	Unknown	28.93	SVOA	2,500 JN
20.					

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
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Lab Sample ID: U175C
LIMS ID: 97-19476
Matrix: Sediment
Data Release Authorized: DWB
Reported: 11/26/97

Sample No: 97424902 WR-SD-SD074-0000A

QC Report No: U175-REGL, LLC
Project: 1001-006

Date Sampled: 10/14/97
Date Received: 10/16/97

Date extracted: 10/27/97
Date analyzed: 11/17/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 49.1%
pH: 7.5

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U J
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U
106-44-5	**4-Methylphenol**	**160**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	98 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	**Benzoic Acid**	**400**
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**330**
106-47-8	4-Chloroaniline	59 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	**2-Methylnaphthalene**	**86**
77-47-4	Hexachlorocyclopentadiene	98 U J
88-06-2	2,4,6-Trichlorophenol	98 U
95-95-4	2,4,5-Trichlorophenol	98 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	98 U
131-11-3	Dimethylphthalate	20 U
208-96-8	**Acenaphthylene**	**62**
99-09-2	3-Nitroaniline	120 U J
83-32-9	**Acenaphthene**	**92**
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	98 U
132-64-9	**Dibenzofuran**	**59**
606-20-2	2,6-Dinitrotoluene	98 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
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Lab Sample ID: U175C
LIMS ID: 97-19476
Matrix: Sediment
Data Release Authorized: GNP
Reported: 11/26/97

Sample No: 97424902 WR-SD-SD074-0000A
QC Report No: U175-REGL, LLC
Project: 1001-006
Date Sampled: 10/14/97
Date Received: 10/16/97

Date extracted: 10/27/97
Date analyzed: 11/17/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 49.1%
pH: 7.5

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	98 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	**Fluorene**	**100**
100-01-6	4-Nitroaniline	98 U J
534-52-1	4,6-Dinitro-2-Methylphenol	200 U J
86-30-6	N-Nitrosodiphenylamine	20 U J
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	98 U J
85-01-8	**Phenanthrene**	**520**
86-74-8	Carbazole	20 U J
120-12-7	**Anthracene**	**120**
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**630**
129-00-0	**Pyrene**	**860**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	98 U
56-55-3	**Benzo(a)anthracene**	**220**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**48**
218-01-9	**Chrysene**	**330**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**220**
207-08-9	**Benzo(k)fluoranthene**	**190**
50-32-8	**Benzo(a)pyrene**	**250**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**180**
53-70-3	**Dibenz(a,h)anthracene**	**47**
191-24-2	**Benzo(g,h,i)perylene**	**260**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	50.7%	d5-Phenol	54.3%
2-Fluorobiphenyl	56.4%	2-Fluorophenol	53.9%
d14-p-Terphenyl	58.7%	2,4,6-Tribromophenol	63.0%
d4-1,2-Dichlorobenzene	46.8%	d4-2-Chlorophenol	52.5%

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ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 97424902
WR-SD-SD074-0000A

Lab Sample ID: U175C
LIMS ID: 97-19476
Matrix: Sediment

QC Report No: U175-REGL, LLC
Project: 1001-006

Date Sampled: 10/14/97
Date Received: 10/16/97

Data Release Authorized: CWB
Reported: 11/26/97

Date Analyzed: 11/17/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Alkyl_Benzene____	8.29	SVOA	180 J N
2.	--	Unknown_Aromatic_____	9.53	SVOA	93 J N
3.	--	Unknown_Aromatic_____	9.75	SVOA	100 J N
4.	--	Unknown_____	10.43	SVOA	140 J N
5.	--	Unknown_Cycloalkane_____	10.93	SVOA	120 J N
6.	--	Unknown_____	11.09	SVOA	120 J N
7.	--	Unknown_____	11.21	SVOA	130 J N
8.	--	Unknown_____	11.61	SVOA	150 J N
9.	90-12-0	Naphthalene,_1-methyl-___	12.09	SVOA	110 JN
10.	--	Unknown_____	12.85	SVOA	160 J N
11.	--	Unknown_Aromatic_____	13.03	SVOA	210 J N
12.	--	Naphthalene,_Dimethyl_Iso	13.14	SVOA	93 J N
13.	--	Naphthalene,_Dimethyl_Iso	13.32	SVOA	240 J N
14.	--	Unknown_____	18.11	SVOA	130 J N
15.	--	Unknown_____	18.45	SVOA	260 J N
16.	--	Unknown_____	18.69	SVOA	440 J N
17.	--	Unknown_____	23.36	SVOA	380 J N
18.	--	Unknown_____	26.30	SVOA	160 J N
19.	--	Unknown_Sterol_type_____	27.30	SVOA	310 J N
20.	--	Unknown_____	27.39	SVOA	190 J N

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
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Lab Sample ID: U175D
LIMS ID: 97-19477
Matrix: Sediment
Data Release Authorized: BNB
Reported: 11/26/97

Sample No: 97424903 WR-SD-SD136-0000A

QC Report No: U175-REGL, LLC
Project: 1001-006

Date Sampled: 10/14/97
Date Received: 10/16/97

Date extracted: 10/27/97
Date analyzed: 11/17/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 39.3%
pH: 7.5

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U
106-44-5	4-Methylphenol	19 U
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	97 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	Benzoic Acid	190 U
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	Naphthalene	19 U
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	97 U J
88-06-2	2,4,6-Trichlorophenol	97 U
95-95-4	2,4,5-Trichlorophenol	97 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	97 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U J
83-32-9	Acenaphthene	19 U
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	97 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	97 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: U175D
LIMS ID: 97-19477
Matrix: Sediment
Data Release Authorized: OMB
Reported: 11/26/97

Sample No: 97424903 WR-SD-SD136-0000A
QC Report No: U175-REGL, LLC
Project: 1001-006
Date Sampled: 10/14/97
Date Received: 10/16/97

Date extracted: 10/27/97
Date analyzed: 11/17/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 39.3%
pH: 7.5

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	97 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	Fluorene	19 U
100-01-6	4-Nitroaniline	97 U J
534-52-1	4,6-Dinitro-2-Methylphenol	190 U J
86-30-6	N-Nitrosodiphenylamine	19 U J
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	97 U J
85-01-8	**Phenanthrene**	**61**
86-74-8	Carbazole	19 U J
120-12-7	Anthracene	19 U
84-74-2	**Di-n-Butylphthalate**	**44**
206-44-0	**Fluoranthene**	**130**
129-00-0	**Pyrene**	**130**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	97 U
56-55-3	**Benzo(a)anthracene**	**40**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**370**
218-01-9	**Chrysene**	**60**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**46**
207-08-9	**Benzo(k)fluoranthene**	**42**
50-32-8	**Benzo(a)pyrene**	**48**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**33**
53-70-3	Dibenz(a,h)anthracene	19 U
191-24-2	**Benzo(g,h,i)perylene**	**48**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	49.6%	d5-Phenol	57.8%
2-Fluorobiphenyl	63.8%	2-Fluorophenol	52.9%
d14-p-Terphenyl	71.4%	2,4,6-Tribromophenol	76.2%
d4-1,2-Dichlorobenzene	46.6%	d4-2-Chlorophenol	51.3%

FORM-1

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

WR-SD-SD136-0000A

Sample No: 97424903

Lab Sample ID: U175D
LIMS ID: 97-19477
Matrix: Sediment

QC Report No: U175-REGL, LLC
Project: 1001-006

Date Sampled: 10/14/97
Date Received: 10/16/97

Data Release Authorized: DAB
Reported: 11/26/97

Date Analyzed: 11/17/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	79-34-5	Ethane,_1,1,2,2-tetrachlo	6.64	SVOA	53 ~~JNB~~ R
2.	--	Unknown	6.88	SVOA	46 J N
3.	--	Unknown_Organic_Acid	9.52	SVOA	50 J N
4.	--	Unknown	11.03	SVOA	72 J N
5.	--	Unknown	11.34	SVOA	45 J N
6.	--	Unknown_Alcohol	13.69	SVOA	41 ~~JB~~ R
7.	--	Unknown	13.75	SVOA	48 J N
8.	--	Unknown	14.53	SVOA	54 J N
9.	--	Unknown	15.68	SVOA	60 J N
10.	--	Unknown_Phenol	15.99	SVOA	65 J N
11.	--	Unknown	16.07	SVOA	82 J N
12.	--	Unknown	16.14	SVOA	81 J N
13.	--	Unknown_Phenol	16.21	SVOA	60 J N
14.	--	Unknown	16.26	SVOA	86 J N
15.	--	Unknown_Phenol	16.35	SVOA	81 J N
16.	--	Unknown	16.54	SVOA	260 J N
17.	--	Unknown	16.79	SVOA	260 J N
18.	--	Unknown	19.09	SVOA	210 J N
19.	--	Unknown	19.55	SVOA	150 J N
20.	--	Unknown	27.34	SVOA	160 J N

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: U175E
LIMS ID: 97-19478
Matrix: Sediment
Data Release Authorized:
Reported: 11/26/97

Sample No: 97424904
WR-SD-SD141-0000A
QC Report No: U175-REGL, LLC
Project: 1001-006

Date Sampled: 10/14/97
Date Received: 10/16/97

Date extracted: 10/27/97
Date analyzed: 11/17/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 50.8%
pH: 7.2

CAS Number	Analyte	ug/kg
108-95-2	**Phenol**	**20**
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U
106-44-5	**4-Methylphenol**	**230**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	97 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	**Benzoic Acid**	**860**
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**120**
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	**2-Methylnaphthalene**	**59**
77-47-4	Hexachlorocyclopentadiene	97 U J
88-06-2	2,4,6-Trichlorophenol	97 U
95-95-4	2,4,5-Trichlorophenol	97 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	97 U
131-11-3	Dimethylphthalate	19 U
208-96-8	**Acenaphthylene**	**30**
99-09-2	3-Nitroaniline	120 U J
83-32-9	**Acenaphthene**	**86**
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	97 U
132-64-9	**Dibenzofuran**	**34**
606-20-2	2,6-Dinitrotoluene	97 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: U175E
LIMS ID: 97-19478
Matrix: Sediment
Data Release Authorized: GWB
Reported: 11/26/97

Sample No: 97424904
WR-SD-SD141-0000A
QC Report No: U175-REGL, LLC
Project: 1001-006

Date Sampled: 10/14/97
Date Received: 10/16/97

Date extracted: 10/27/97
Date analyzed: 11/17/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 50.8%
pH: 7.2

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	97 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	**Fluorene**	**87**
100-01-6	4-Nitroaniline	97 U J
534-52-1	4,6-Dinitro-2-Methylphenol	190 U J
86-30-6	N-Nitrosodiphenylamine	19 U J
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	97 U J
85-01-8	**Phenanthrene**	**400**
86-74-8	Carbazole	19 U J
120-12-7	**Anthracene**	**85**
84-74-2	**Di-n-Butylphthalate**	**23**
206-44-0	**Fluoranthene**	**450**
129-00-0	**Pyrene**	**650**
85-68-7	Butylbenzylphthalate	19 U
91-94-1	3,3'-Dichlorobenzidine	97 U
56-55-3	**Benzo(a)anthracene**	**180**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**200**
218-01-9	**Chrysene**	**250**
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	**Benzo(b)fluoranthene**	**190**
207-08-9	**Benzo(k)fluoranthene**	**140**
50-32-8	**Benzo(a)pyrene**	**200**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**150**
53-70-3	**Dibenz(a,h)anthracene**	**53**
191-24-2	**Benzo(g,h,i)perylene**	**220**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	58.7%	d5-Phenol	67.3%
2-Fluorobiphenyl	71.9%	2-Fluorophenol	63.5%
d14-p-Terphenyl	80.9%	2,4,6-Tribromophenol	83.1%
d4-1,2-Dichlorobenzene	52.7%	d4-2-Chlorophenol	61.7%

FORM-1

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ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 97424904
WR-SD- SD141-0000A

Lab Sample ID: U175E
LIMS ID: 97-19478
Matrix: Sediment

QC Report No: U175-REGL, LLC
Project: 1001-006

Date Sampled: 10/14/97
Date Received: 10/16/97

Data Release Authorized:
Reported: 11/26/97

Date Analyzed: 11/17/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown	8.08	SVOA	700 J N
2.	--	Unknown	10.26	SVOA	210 J N
3.	--	Unknown_Cycloalkane	10.93	SVOA	120 J N
4.	--	Unknown	11.09	SVOA	140 J N
5.	--	Unknown	11.21	SVOA	150 J N
6.	--	Unknown	11.61	SVOA	390 J N
7.	90-12-0	Naphthalene,_1-methyl-	12.10	SVOA	150 JN
8.	--	Unknown_Cycloalkane	12.31	SVOA	140 J N
9.	--	Unknown	12.85	SVOA	170 J N
10.	--	Unknown_Aromatic	13.04	SVOA	270 J N
11.	--	Naphthalene,_Dimethyl_Iso	13.15	SVOA	190 J N
12.	--	Naphthalene,_Dimethyl_Iso	13.31	SVOA	280 J N
13.	--	Unknown_Aromatic	14.20	SVOA	170 J N
14.	--	Unknown_Aromatic	14.48	SVOA	280 J N
15.	--	Naphthalene,_Trimethyl_Is	14.69	SVOA	170 J N
16.	--	Unknown	18.44	SVOA	360 J N
17.	--	Unknown	18.68	SVOA	460 J N
18.	--	Unknown_Sterol_type	25.83	SVOA	150 J N
19.	--	Unknown	27.39	SVOA	580 J N
20.	--	Unknown	27.50	SVOA	660 J N

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: U175G
LIMS ID: 97-19480
Matrix: Sediment
Data Release Authorized:
Reported: 11/26/97

Sample No: 97424906
WR-SD-SD138-0000A
QC Report No: U175-REGL, LLC
Project: 1001-006

Date Sampled: 10/14/97
Date Received: 10/16/97

Date extracted: 10/27/97
Date analyzed: 11/17/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 47.9%
pH: 7.9

CAS Number	Analyte	ug/kg
108-95-2	Phenol	19 U
111-44-4	Bis-(2-Chloroethyl) Ether	38 U
95-57-8	2-Chlorophenol	19 U
541-73-1	1,3-Dichlorobenzene	19 U
106-46-7	1,4-Dichlorobenzene	19 U
100-51-6	Benzyl Alcohol	19 U J
95-50-1	1,2-Dichlorobenzene	19 U
95-48-7	2-Methylphenol	19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19 U
106-44-5	**4-Methylphenol**	**50**
621-64-7	N-Nitroso-Di-N-Propylamine	38 U
67-72-1	Hexachloroethane	19 U
98-95-3	Nitrobenzene	19 U
78-59-1	Isophorone	19 U
88-75-5	2-Nitrophenol	96 U
105-67-9	2,4-Dimethylphenol	19 U
65-85-0	**Benzoic Acid**	**560**
111-91-1	bis(2-Chloroethoxy) Methane	19 U
120-83-2	2,4-Dichlorophenol	58 U
120-82-1	1,2,4-Trichlorobenzene	19 U
91-20-3	**Naphthalene**	**35**
106-47-8	4-Chloroaniline	58 U
87-68-3	Hexachlorobutadiene	19 U
59-50-7	4-Chloro-3-methylphenol	38 U
91-57-6	2-Methylnaphthalene	19 U
77-47-4	Hexachlorocyclopentadiene	96 U J
88-06-2	2,4,6-Trichlorophenol	96 U
95-95-4	2,4,5-Trichlorophenol	96 U
91-58-7	2-Chloronaphthalene	19 U
88-74-4	2-Nitroaniline	96 U
131-11-3	Dimethylphthalate	19 U
208-96-8	Acenaphthylene	19 U
99-09-2	3-Nitroaniline	120 U J
83-32-9	Acenaphthene	19 U
51-28-5	2,4-Dinitrophenol	190 U J
100-02-7	4-Nitrophenol	96 U
132-64-9	Dibenzofuran	19 U
606-20-2	2,6-Dinitrotoluene	96 U

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: U175G
LIMS ID: 97-19480
Matrix: Sediment
Data Release Authorized: ANS
Reported: 11/26/97

Sample No: 97424906
WR-SD-SD138-0000A
QC Report No: U175-REGL, LLC
Project: 1001-006

Date Sampled: 10/14/97
Date Received: 10/16/97

Date extracted: 10/27/97
Date analyzed: 11/17/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 52.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 47.9%
pH: 7.9

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	96 U
84-66-2	Diethylphthalate	19 U
7005-72-3	4-Chlorophenyl-phenylether	19 U
86-73-7	Fluorene	19 U
100-01-6	4-Nitroaniline	96 U J
534-52-1	4,6-Dinitro-2-Methylphenol	190 U J
86-30-6	N-Nitrosodiphenylamine	19 U J
101-55-3	4-Bromophenyl-phenylether	19 U
118-74-1	Hexachlorobenzene	19 U
87-86-5	Pentachlorophenol	96 U J
85-01-8	Phenanthrene	92
86-74-8	Carbazole	31 J
120-12-7	Anthracene	21
84-74-2	Di-n-Butylphthalate	22
206-44-0	Fluoranthene	130
129-00-0	Pyrene	150
85-68-7	Butylbenzylphthalate	37
91-94-1	3,3'-Dichlorobenzidine	96 U
56-55-3	Benzo(a)anthracene	63
117-81-7	bis(2-Ethylhexyl)phthalate	820
218-01-9	Chrysene	90
117-84-0	Di-n-Octyl phthalate	19 U
205-99-2	Benzo(b)fluoranthene	79
207-08-9	Benzo(k)fluoranthene	69
50-32-8	Benzo(a)pyrene	70
193-39-5	Indeno(1,2,3-cd)pyrene	47
53-70-3	Dibenz(a,h)anthracene	20
191-24-2	Benzo(g,h,i)perylene	62

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	62.6%	d5-Phenol	72.4%
2-Fluorobiphenyl	75.8%	2-Fluorophenol	68.0%
d14-p-Terphenyl	86.5%	2,4,6-Tribromophenol	93.9%
d4-1,2-Dichlorobenzene	56.1%	d4-2-Chlorophenol	66.3%

FORM-1

JMB 1/27/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 97424906
WR-SD-SD138-0000A

Lab Sample ID: U175G
LIMS ID: 97-19480
Matrix: Sediment

QC Report No: U175-REGL, LLC
Project: 1001-006

Date Sampled: 10/14/97
Date Received: 10/16/97

Data Release Authorized: CWP
Reported: 11/26/97

Date Analyzed: 11/17/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	79-34-5	Ethane,_1,1,2,2-tetrachlo	6.65	SVOA	74 ~~JNB~~ R
2.	--	Unknown_Aromatic_____	7.39	SVOA	69 J N
3.	--	Unknown_Alcohol_____	8.10	SVOA	800 J N
4.	--	Unknown_Organic_Acid_____	9.58	SVOA	130 J N
5.	--	Unknown_Quinone_____	11.63	SVOA	280 J N
6.	--	Unknown_Alcohol_____	13.69	SVOA	130 J N
7.	--	Unknown_Phenol_____	15.13	SVOA	94 J N
8.	--	Unknown_____	15.69	SVOA	84 J N
9.	--	Unknown_Alcohol_____	16.08	SVOA	130 J N
10.	--	Unknown_____	16.27	SVOA	88 J N
11.	--	Unknown_Alcohol_____	16.47	SVOA	110 J N
12.	--	Unknown_____	16.78	SVOA	190 J N
13.	--	Unknown_____	18.66	SVOA	220 J N
14.	--	Unknown_____	18.79	SVOA	220 J N
15.	--	Unknown_Aromatic_____	23.28	SVOA	190 J N
16.	--	Unknown_Sterol_type_____	25.81	SVOA	130 J N
17.	--	Unknown_____	26.08	SVOA	190 J N
18.	--	Unknown_____	26.29	SVOA	130 J N
19.	--	Unknown_____	27.40	SVOA	290 J N
20.	--	Unknown_____	27.49	SVOA	440 J N

FORM-1-B

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: U175H
LIMS ID: 97-19481
Matrix: Sediment
Data Release Authorized: OHB
Reported: 11/26/97

Sample No: 97424907 WR-SD-SD013-0000A
QC Report No: U175-REGL, LLC
Project: 1001-006
Date Sampled: 10/15/97
Date Received: 10/16/97

Date extracted: 10/27/97
Date analyzed: 11/17/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 46.2%
pH: 7.8

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U J
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U
106-44-5	**4-Methylphenol**	**230**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	98 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**1,000**
106-47-8	4-Chloroaniline	59 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	**2-Methylnaphthalene**	**390**
77-47-4	Hexachlorocyclopentadiene	98 U J
88-06-2	2,4,6-Trichlorophenol	98 U
95-95-4	2,4,5-Trichlorophenol	98 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	98 U
131-11-3	Dimethylphthalate	20 U
208-96-8	**Acenaphthylene**	**94**
99-09-2	3-Nitroaniline	120 U J
83-32-9	**Acenaphthene**	**640**
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	98 U
132-64-9	**Dibenzofuran**	**240**
606-20-2	2,6-Dinitrotoluene	98 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: U175H
LIMS ID: 97-19481
Matrix: Sediment
Data Release Authorized: ANB
Reported: 11/26/97

Sample No: 97424907
WR-SD-SD013-0000A
QC Report No: U175-REGL, LLC
Project: 1001-006
Date Sampled: 10/15/97
Date Received: 10/16/97

Date extracted: 10/27/97
Date analyzed: 11/17/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 46.2%
pH: 7.8

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	98 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	**Fluorene**	**520**
100-01-6	4-Nitroaniline	98 U J
534-52-1	4,6-Dinitro-2-Methylphenol	200 U J
86-30-6	N-Nitrosodiphenylamine	20 U J
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	98 U J
85-01-8	**Phenanthrene**	**2,700 ~~E~~ D**
86-74-8	**Carbazole**	**93 J**
120-12-7	**Anthracene**	**550**
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**~~2,000 E~~ 2100 D**
129-00-0	**Pyrene**	**~~2,800 E~~ 2600 D**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	98 U
56-55-3	**Benzo(a)anthracene**	**890**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**220**
218-01-9	**Chrysene**	**1,100**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**790**
207-08-9	**Benzo(k)fluoranthene**	**430**
50-32-8	**Benzo(a)pyrene**	**930**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**680**
53-70-3	**Dibenz(a,h)anthracene**	**220**
191-24-2	**Benzo(g,h,i)perylene**	**920**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	60.4%	d5-Phenol	66.1%
2-Fluorobiphenyl	71.9%	2-Fluorophenol	65.8%
d14-p-Terphenyl	80.9%	2,4,6-Tribromophenol	78.1%
d4-1,2-Dichlorobenzene	57.6%	d4-2-Chlorophenol	63.5%

FORM-1

JMB 1/27/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 97424907 WR-SD-SD013-0000A

Lab Sample ID: U175H
LIMS ID: 97-19481
Matrix: Sediment

QC Report No: U175-REGL, LLC
Project: 1001-006

Date Sampled: 10/15/97
Date Received: 10/16/97

Data Release Authorized: AMB
Reported: 11/26/97

Date Analyzed: 11/17/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Ketone	6.88	SVOA	140 J N
2.	--	Unknown_Cycloalkane	9.53	SVOA	130 J N
3.	--	Unknown_Aromatic	9.76	SVOA	170 J N
4.	--	Unknown	10.44	SVOA	210 J N
5.	--	Unknown_Cycloalkane	10.94	SVOA	240 J N
6.	--	Unknown_Cycloalkane	11.10	SVOA	220 J N
7.	--	Unknown	11.22	SVOA	240 J N
8.	90-12-0	Naphthalene,_1-methyl-	12.11	SVOA	700 JN
9.	--	Unknown_Cycloalkane	12.33	SVOA	190 J N
10.	--	Unknown	12.41	SVOA	160 J N
11.	--	Naphthalene,_Ethyl_Isomer	13.03	SVOA	410 J N
12.	--	Naphthalene,_Dimethyl_Iso	13.16	SVOA	320 J N
13.	--	Naphthalene,_Dimethyl_Iso	13.33	SVOA	510 J N
14.	--	Unknown_Aromatic	14.22	SVOA	170 J N
15.	--	Naphthalene,_Trimethyl_Is	14.51	SVOA	380 J N
16.	--	Unknown_PNA	18.26	SVOA	430 J N
17.	--	Unknown	18.71	SVOA	440 J N
18.	--	Unknown_C18.H18_PNA	20.62	SVOA	1,500 J N
19.	--	Unknown	27.35	SVOA	290 J N
20.	--	Unknown	27.44	SVOA	220 J N

FORM-1-B

MMB 11/27/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 1 of 2

Sample No: 97424907
DILUTION

Lab Sample ID: U175H
LIMS ID: 97-19481
Matrix: Sediment
Data Release Authorized: AB
Reported: 11/26/97

QC Report No: U175-REGL, LLC
Project: 1001-006
Date Sampled: 10/15/97
Date Received: 10/16/97

Date extracted: 10/27/97
Date analyzed: 11/21/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:10
Percent Moisture: 46.2%
pH: 7.8

CAS Number	Analyte	ug/kg
108-95-2	Phenol	200 U
111-44-4	Bis-(2-Chloroethyl) Ether	390 U
95-57-8	2-Chlorophenol	200 U
541-73-1	1,3-Dichlorobenzene	200 U
106-46-7	1,4-Dichlorobenzene	200 U
100-51-6	Benzyl Alcohol	200 U
95-50-1	1,2-Dichlorobenzene	200 U
95-48-7	2-Methylphenol	200 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	200 U
106-44-5	4-Methylphenol	200 U
621-64-7	N-Nitroso-Di-N-Propylamine	390 U
67-72-1	Hexachloroethane	200 U
98-95-3	Nitrobenzene	200 U
78-59-1	Isophorone	200 U
88-75-5	2-Nitrophenol	980 U
105-67-9	2,4-Dimethylphenol	200 U
65-85-0	Benzoic Acid	2,000 U
111-91-1	bis(2-Chloroethoxy) Methane	200 U
120-83-2	2,4-Dichlorophenol	590 U
120-82-1	1,2,4-Trichlorobenzene	200 U
91-20-3	**Naphthalene**	**790**
106-47-8	4-Chloroaniline	590 U
87-68-3	Hexachlorobutadiene	200 U
59-50-7	4-Chloro-3-methylphenol	390 U
91-57-6	**2-Methylnaphthalene**	**300**
77-47-4	Hexachlorocyclopentadiene	980 U
88-06-2	2,4,6-Trichlorophenol	980 U
95-95-4	2,4,5-Trichlorophenol	980 U
91-58-7	2-Chloronaphthalene	200 U
88-74-4	2-Nitroaniline	980 U
131-11-3	Dimethylphthalate	200 U
208-96-8	Acenaphthylene	200 U
99-09-2	3-Nitroaniline	1,200 U
83-32-9	**Acenaphthene**	**510**
51-28-5	2,4-Dinitrophenol	2,000 U J
100-02-7	4-Nitrophenol	980 U
132-64-9	Dibenzofuran	200 U
606-20-2	2,6-Dinitrotoluene	980 U

JMB 1/27/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: U175H
LIMS ID: 97-19481
Matrix: Sediment
Data Release Authorized: AWB
Reported: 11/26/97

Sample No: 97424907
DILUTION

QC Report No: U175-REGL, LLC
Project: 1001-006

Date Sampled: 10/15/97
Date Received: 10/16/97

Date extracted: 10/27/97
Date analyzed: 11/21/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:10
Percent Moisture: 46.2%
pH: 7.8

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	980 U
84-66-2	Diethylphthalate	200 U
7005-72-3	4-Chlorophenyl-phenylether	200 U
86-73-7	**Fluorene**	**320**
100-01-6	4-Nitroaniline	980 U
534-52-1	4,6-Dinitro-2-Methylphenol	2,000 U
86-30-6	N-Nitrosodiphenylamine	200 U
101-55-3	4-Bromophenyl-phenylether	200 U
118-74-1	Hexachlorobenzene	200 U
87-86-5	Pentachlorophenol	980 U
85-01-8	**Phenanthrene**	**2,700**
86-74-8	Carbazole	200 U
120-12-7	**Anthracene**	**420**
84-74-2	Di-n-Butylphthalate	200 U
206-44-0	**Fluoranthene**	**2,100**
129-00-0	**Pyrene**	**2,600**
85-68-7	Butylbenzylphthalate	200 U
91-94-1	3,3'-Dichlorobenzidine	980 U
56-55-3	**Benzo(a)anthracene**	**630**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**220**
218-01-9	**Chrysene**	**930**
117-84-0	Di-n-Octyl phthalate	200 U
205-99-2	**Benzo(b)fluoranthene**	**460**
207-08-9	**Benzo(k)fluoranthene**	**500**
50-32-8	**Benzo(a)pyrene**	**720**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**440**
53-70-3	Dibenz(a,h)anthracene	200 U
191-24-2	**Benzo(g,h,i)perylene**	**680**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	50.4%	d5-Phenol	56.5%
2-Fluorobiphenyl	53.2%	2-Fluorophenol	57.9%
d14-p-Terphenyl	62.4%	2,4,6-Tribromophenol	62.7%
d4-1,2-Dichlorobenzene	49.6%	d4-2-Chlorophenol	52.3%

JMB 1/22/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 97424907
DILUTION

Lab Sample ID: U175H
LIMS ID: 97-19481
Matrix: Sediment

QC Report No: U175-REGL, LLC
Project:
1001-006
Date Sampled: 10/15/97
Date Received: 10/16/97

Data Release Authorized: MB
Reported: 11/26/97

Date Analyzed: 11/21/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	90-12-0	Naphthalene, 1-methyl-	13.10	SVOA	730 JN
2.	---	Unknown	13.83	SVOA	520 JN
3.	---	Naphthalene, Ethyl Isomer	14.01	SVOA	450 JN
4.	---	Naphthalene, Dimethyl Iso	14.13	SVOA	470 JN
5.	---	Naphthalene, Dimethyl Iso	14.31	SVOA	470 JN
6.	---	Unknown	15.39	SVOA	760 JN
7.	---	Naphthalene, Trimethyl Is	15.66	SVOA	550 JN
8.	---	Unknown Aromatic	17.27	SVOA	590 JN
9.	132-65-0	Dibenzothiophene	17.75	SVOA	400 JN
10.	---	Unknown C15.H12 PNA	18.99	SVOA	700 JN
11.	---	Unknown C15.H12 PNA	19.12	SVOA	530 JN
12.	---	Unknown Aromatic	19.22	SVOA	1,100 JN
13.	---	Unknown Aromatic	20.56	SVOA	930 JN
14.	---	Unknown PNA	21.52	SVOA	10,000 JN
15.	---	Unknown	25.09	SVOA	1,000 JN
16.	---	Unknown	26.46	SVOA	1,400 JN
17.	---	Unknown	27.48	SVOA	1,000 JN
18.	---	Unknown	28.82	SVOA	560 JN
19.	---	Unknown	28.94	SVOA	1,100 JN
20.	---	Unknown	29.13	SVOA	820 JN

FORM-1-B

1020

JMB 1/27/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: U175I
LIMS ID: 97-19482
Matrix: Sediment
Data Release Authorized: RWB
Reported: 11/26/97

Sample No: 97424909
WR-SD-SD007-0000A

QC Report No: U175-REGL, LLC
Project: 1001-006

Date Sampled: 10/15/97
Date Received: 10/16/97

Date extracted: 10/27/97
Date analyzed: 11/17/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 43.1%
pH: 7.8

CAS Number	Analyte	ug/kg
108-95-2	Phenol	20 U
111-44-4	Bis-(2-Chloroethyl) Ether	39 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	20 U J
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	2-Methylphenol	20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20 U
106-44-5	**4-Methylphenol**	**240**
621-64-7	N-Nitroso-Di-N-Propylamine	39 U
67-72-1	Hexachloroethane	20 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	98 U
105-67-9	2,4-Dimethylphenol	20 U
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy) Methane	20 U
120-83-2	2,4-Dichlorophenol	59 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**1,000**
106-47-8	4-Chloroaniline	59 U
87-68-3	Hexachlorobutadiene	20 U
59-50-7	4-Chloro-3-methylphenol	39 U
91-57-6	**2-Methylnaphthalene**	**360**
77-47-4	Hexachlorocyclopentadiene	98 U J
88-06-2	2,4,6-Trichlorophenol	98 U
95-95-4	2,4,5-Trichlorophenol	98 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	98 U
131-11-3	Dimethylphthalate	20 U
208-96-8	**Acenaphthylene**	**71**
99-09-2	3-Nitroaniline	120 U J
83-32-9	**Acenaphthene**	**600**
51-28-5	2,4-Dinitrophenol	200 U J
100-02-7	4-Nitrophenol	98 U
132-64-9	**Dibenzofuran**	**150**
606-20-2	2,6-Dinitrotoluene	98 U

JMB 1044
1/27/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: U175I
LIMS ID: 97-19482
Matrix: Sediment
Data Release Authorized: JWB
Reported: 11/26/97

Sample No: 97424909
WR-SD- SD007- 0000A
QC Report No: U175-REGL, LLC
Project: 1001-006
Date Sampled: 10/15/97
Date Received: 10/16/97

Date extracted: 10/27/97
Date analyzed: 11/17/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 43.1%
pH: 7.8

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	98 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	**Fluorene**	**360**
100-01-6	4-Nitroaniline	98 U J
534-52-1	4,6-Dinitro-2-Methylphenol	200 U J
86-30-6	N-Nitrosodiphenylamine	20 U J
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	98 U J
85-01-8	**Phenanthrene**	~~1,600 E~~ 1500 D
86-74-8	**Carbazole**	73 J
120-12-7	**Anthracene**	**360**
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**1,400**
129-00-0	**Pyrene**	~~1,900 E~~ 2000 D
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	98 U
56-55-3	**Benzo(a)anthracene**	**600**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**37**
218-01-9	**Chrysene**	**800**
117-84-0	Di-n-Octyl phthalate	20 U
205-99-2	**Benzo(b)fluoranthene**	**620**
207-08-9	**Benzo(k)fluoranthene**	**410**
50-32-8	**Benzo(a)pyrene**	**770**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**540**
53-70-3	**Dibenz(a,h)anthracene**	**150**
191-24-2	**Benzo(g,h,i)perylene**	**770**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	54.5%	d5-Phenol	62.7%
2-Fluorobiphenyl	71.1%	2-Fluorophenol	56.2%
d14-p-Terphenyl	82.6%	2,4,6-Tribromophenol	81.8%
d4-1,2-Dichlorobenzene	49.0%	d4-2-Chlorophenol	56.5%

FORM-1

JMB 1/27/98 1045

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 97424909
WR-SD-SD007-0000A

Lab Sample ID: U175I
LIMS ID: 97-19482
Matrix: Sediment

QC Report No: U175-REGL, LLC
Project: 1001-006

Date Sampled: 10/15/97
Date Received: 10/16/97

Data Release Authorized: BWR
Reported: 11/26/97

Date Analyzed: 11/17/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	--	Unknown_Alcohol	8.10	SVOA	650 J N
2.	--	Unknown_Aromatic	8.76	SVOA	110 J N
3.	--	Unknown_Cycloalkane	9.76	SVOA	120 J N
4.	--	Unknown_Cycloalkane	10.44	SVOA	160 J N
5.	--	Unknown_Cycloalkane	10.94	SVOA	130 J N
6.	--	Unknown_Cycloalkane	11.10	SVOA	140 J N
7.	--	Unknown	11.22	SVOA	160 J N
8.	90-12-0	Naphthalene,_1-methyl-	12.11	SVOA	320 JN
9.	--	Unknown_Cycloalkane	12.33	SVOA	130 J N
10.	--	Unknown	12.42	SVOA	110 J N
11.	--	Unknown_PNA_+_C.E.	12.86	SVOA	200 J N
12.	--	Naphthalene,_Ethyl_Isomer	13.03	SVOA	250 J N
13.	--	Naphthalene,_Dimethyl_Iso	13.16	SVOA	180 J N
14.	--	Naphthalene,_Dimethyl_Iso	13.34	SVOA	270 J N
15.	--	Unknown	13.55	SVOA	550 J N
16.	--	Unknown_Phenol	15.16	SVOA	170 J N
17.	--	Unknown_Aromatic	18.23	SVOA	280 J N
18.	--	Unknown	18.69	SVOA	290 J N
19.	--	Unknown_PNA_+_C.E.	27.40	SVOA	300 J N
20.	--	Unknown	27.51	SVOA	420 J N

JMB 1/27/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: U175I
LIMS ID: 97-19482
Matrix: Sediment
Data Release Authorized: DNB
Reported: 11/26/97

Sample No: 97424909
DILUTION

QC Report No: U175-REGL, LLC
Project: 1001-006

Date Sampled: 10/15/97
Date Received: 10/16/97

Date extracted: 10/27/97
Date analyzed: 11/21/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:5
Percent Moisture: 43.1%
pH: 7.8

CAS Number	Analyte	ug/kg
108-95-2	Phenol	98 U
111-44-4	Bis-(2-Chloroethyl) Ether	200 U
95-57-8	2-Chlorophenol	98 U
541-73-1	1,3-Dichlorobenzene	98 U
106-46-7	1,4-Dichlorobenzene	98 U
100-51-6	Benzyl Alcohol	98 U
95-50-1	1,2-Dichlorobenzene	98 U
95-48-7	2-Methylphenol	98 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	98 U
106-44-5	**4-Methylphenol**	**190**
621-64-7	N-Nitroso-Di-N-Propylamine	200 U
67-72-1	Hexachloroethane	98 U
98-95-3	Nitrobenzene	98 U
78-59-1	Isophorone	98 U
88-75-5	2-Nitrophenol	490 U
105-67-9	2,4-Dimethylphenol	98 U
65-85-0	Benzoic Acid	980 U
111-91-1	bis(2-Chloroethoxy) Methane	98 U
120-83-2	2,4-Dichlorophenol	290 U
120-82-1	1,2,4-Trichlorobenzene	98 U
91-20-3	**Naphthalene**	**800**
106-47-8	4-Chloroaniline	290 U
87-68-3	Hexachlorobutadiene	98 U
59-50-7	4-Chloro-3-methylphenol	200 U
91-57-6	**2-Methylnaphthalene**	**250**
77-47-4	Hexachlorocyclopentadiene	490 U
88-06-2	2,4,6-Trichlorophenol	490 U
95-95-4	2,4,5-Trichlorophenol	490 U
91-58-7	2-Chloronaphthalene	98 U
88-74-4	2-Nitroaniline	490 U
131-11-3	Dimethylphthalate	98 U
208-96-8	Acenaphthylene	98 U
99-09-2	3-Nitroaniline	590 U
83-32-9	**Acenaphthene**	**430**
51-28-5	2,4-Dinitrophenol	980 U J
100-02-7	4-Nitrophenol	490 U
132-64-9	**Dibenzofuran**	**99**
606-20-2	2,6-Dinitrotoluene	490 U

FORM-1

JMB 12/2/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 2 of 2

Sample No: 97424909
DILUTION

Lab Sample ID: U175I
LIMS ID: 97-19482
Matrix: Sediment
Data Release Authorized: GMB
Reported: 11/26/97

QC Report No: U175-REGL, LLC
Project: 1001-006
Date Sampled: 10/15/97
Date Received: 10/16/97

Date extracted: 10/27/97
Date analyzed: 11/21/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 51.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:5
Percent Moisture: 43.1%
pH: 7.8

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	490 U
84-66-2	Diethylphthalate	98 U
7005-72-3	4-Chlorophenyl-phenylether	98 U
86-73-7	**Fluorene**	**190**
100-01-6	4-Nitroaniline	490 U
534-52-1	4,6-Dinitro-2-Methylphenol	980 U
86-30-6	N-Nitrosodiphenylamine	98 U
101-55-3	4-Bromophenyl-phenylether	98 U
118-74-1	Hexachlorobenzene	98 U
87-86-5	Pentachlorophenol	490 U
85-01-8	**Phenanthrene**	**1,500**
86-74-8	Carbazole	98 U
120-12-7	**Anthracene**	**230**
84-74-2	Di-n-Butylphthalate	98 U
206-44-0	**Fluoranthene**	**1,400**
129-00-0	**Pyrene**	**2,000**
85-68-7	Butylbenzylphthalate	98 U
91-94-1	3,3'-Dichlorobenzidine	490 U
56-55-3	**Benzo(a)anthracene**	**400**
117-81-7	bis(2-Ethylhexyl)phthalate	98 U
218-01-9	**Chrysene**	**620**
117-84-0	Di-n-Octyl phthalate	98 U
205-99-2	**Benzo(b)fluoranthene**	**330**
207-08-9	**Benzo(k)fluoranthene**	**400**
50-32-8	**Benzo(a)pyrene**	**590**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**420**
53-70-3	**Dibenz(a,h)anthracene**	**100**
191-24-2	**Benzo(g,h,i)perylene**	**580**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	44.0%	d5-Phenol	50.5%
2-Fluorobiphenyl	50.0%	2-Fluorophenol	46.0%
d14-p-Terphenyl	65.2%	2,4,6-Tribromophenol	59.7%
d4-1,2-Dichlorobenzene	38.2%	d4-2-Chlorophenol	43.1%

FORM-1

JMB 1/27/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 97424909
DILUTION

Lab Sample ID: U175I
LIMS ID: 97-19482
Matrix: Sediment

QC Report No: U175-REGL, LLC
Project:
1001-006
Date Sampled: 10/15/97
Date Received: 10/16/97

Data Release Authorized: CMB
Reported: 11/26/97

Date Analyzed: 11/21/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	---	Unknown_Cycloalkane	7.91	SVOA	300 J N
2.	---	Unknown	8.97	SVOA	790 J N
3.	---	Unknown	10.74	SVOA	250 J N
4.	90-12-0	Naphthalene,_1-methyl-	13.11	SVOA	500 JN
5.	---	Unknown_Aromatic	14.02	SVOA	280 J N
6.	---	Naphthalene,_Dimethyl_Iso	14.13	SVOA	350 J N
7.	---	Naphthalene,_Dimethyl_Iso	14.31	SVOA	300 J N
8.	---	Unknown	14.36	SVOA	260 J N
9.	---	Unknown	15.44	SVOA	340 J N
10.	---	Naphthalene,_Trimethyl_Is	15.66	SVOA	260 J N
11.	---	Unknown_C15.H12_PNA	18.99	SVOA	560 J N
12.	---	Unknown_Organic_Acid	19.11	SVOA	330 J N
13.	---	Unknown_Aromatic	19.22	SVOA	520 J N
14.	---	Unknown	19.68	SVOA	550 J N
15.	---	Unknown_PNA	21.52	SVOA	1,800 J N
16.	---	Unknown	25.09	SVOA	580 J N
17.	---	Unknown	27.48	SVOA	640 J N
18.	---	Unknown	28.82	SVOA	1,100 J N
19.	---	Unknown	28.94	SVOA	1,800 J N
20.	---	Unknown	29.36	SVOA	800 J N

FORM-1-B

JMB 1/27/98 1123

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: U175J
LIMS ID: 97-19483
Matrix: Sediment
Data Release Authorized: MB
Reported: 11/26/97

Sample No: 97424910 WR-SD-SD017-0000A

QC Report No: U175-REGL, LLC
Project: 1001-006

Date Sampled: 10/15/97
Date Received: 10/16/97

Date extracted: 10/27/97
Date analyzed: 11/17/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 28.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 42.7%
pH: 7.9

CAS Number	Analyte	ug/kg
108-95-2	Phenol	35 U
111-44-4	Bis-(2-Chloroethyl) Ether	69 U
95-57-8	2-Chlorophenol	35 U
541-73-1	1,3-Dichlorobenzene	35 U
106-46-7	1,4-Dichlorobenzene	35 U
100-51-6	Benzyl Alcohol	35 U J
95-50-1	1,2-Dichlorobenzene	35 U
95-48-7	2-Methylphenol	35 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	35 U
106-44-5	**4-Methylphenol**	**280**
621-64-7	N-Nitroso-Di-N-Propylamine	69 U
67-72-1	Hexachloroethane	35 U
98-95-3	Nitrobenzene	35 U
78-59-1	Isophorone	35 U
88-75-5	2-Nitrophenol	170 U
105-67-9	2,4-Dimethylphenol	35 U
65-85-0	Benzoic Acid	350 U
111-91-1	bis(2-Chloroethoxy) Methane	35 U
120-83-2	2,4-Dichlorophenol	100 U
120-82-1	1,2,4-Trichlorobenzene	35 U
91-20-3	**Naphthalene**	**1,500**
106-47-8	4-Chloroaniline	100 U
87-68-3	Hexachlorobutadiene	35 U
59-50-7	4-Chloro-3-methylphenol	69 U
91-57-6	**2-Methylnaphthalene**	**730**
77-47-4	Hexachlorocyclopentadiene	170 U J
88-06-2	2,4,6-Trichlorophenol	170 U
95-95-4	2,4,5-Trichlorophenol	170 U
91-58-7	2-Chloronaphthalene	35 U
88-74-4	2-Nitroaniline	170 U
131-11-3	Dimethylphthalate	35 U
208-96-8	**Acenaphthylene**	**220**
99-09-2	3-Nitroaniline	210 U J
83-32-9	**Acenaphthene**	**2,500**
51-28-5	2,4-Dinitrophenol	350 U J
100-02-7	4-Nitrophenol	170 U
132-64-9	**Dibenzofuran**	**220**
606-20-2	2,6-Dinitrotoluene	170 U

MMB 12-12-97

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: U175J
LIMS ID: 97-19483
Matrix: Sediment
Data Release Authorized: AWS
Reported: 11/26/97

Sample No: 97424910
WR-SD-SD017-0000A
QC Report No: U175-REGL, LLC
Project: 1001-006

Date Sampled: 10/15/97
Date Received: 10/16/97

Date extracted: 10/27/97
Date analyzed: 11/17/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 28.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:1
Percent Moisture: 42.7%
pH: 7.9

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	170 U
84-66-2	Diethylphthalate	35 U
7005-72-3	4-Chlorophenyl-phenylether	35 U
86-73-7	**Fluorene**	**1,700**
100-01-6	4-Nitroaniline	170 U J
534-52-1	4,6-Dinitro-2-Methylphenol	350 U J
86-30-6	N-Nitrosodiphenylamine	35 U J
101-55-3	4-Bromophenyl-phenylether	35 U
118-74-1	Hexachlorobenzene	35 U
87-86-5	Pentachlorophenol	170 U J
85-01-8	**Phenanthrene**	~~10,000 E~~ 16000 D
86-74-8	**Carbazole**	310 J
120-12-7	**Anthracene**	**1,800**
84-74-2	Di-n-Butylphthalate	35 U
206-44-0	**Fluoranthene**	~~8,500 E~~ 11000 D
129-00-0	**Pyrene**	~~11,000 E~~ 15000 D
85-68-7	Butylbenzylphthalate	35 U
91-94-1	3,3'-Dichlorobenzidine	170 U
56-55-3	**Benzo(a)anthracene**	~~3,000 E~~ 2400 D
117-81-7	**bis(2-Ethylhexyl)phthalate**	**120**
218-01-9	**Chrysene**	~~3,700 E~~ 3300 D
117-84-0	Di-n-Octyl phthalate	35 U
205-99-2	**Benzo(b)fluoranthene**	~~2,900 E~~ 1800 D
207-08-9	**Benzo(k)fluoranthene**	**2,100**
50-32-8	**Benzo(a)pyrene**	~~3,900 E~~ 3500 D
193-39-5	**Indeno(1,2,3-cd)pyrene**	**2,500**
53-70-3	**Dibenz(a,h)anthracene**	**680**
191-24-2	**Benzo(g,h,i)perylene**	~~3,400 E~~ 3300 D

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	68.2%	d5-Phenol	74.2%
2-Fluorobiphenyl	77.2%	2-Fluorophenol	74.3%
d14-p-Terphenyl	95.1%	2,4,6-Tribromophenol	90.4%
d4-1,2-Dichlorobenzene	65.6%	d4-2-Chlorophenol	71.1%

FORM-1

JMB 1148
1/27/98

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 97424910 WR-SD-SD017-0000A

Lab Sample ID: U175J
LIMS ID: 97-19483
Matrix: Sediment

QC Report No: U175-REGL, LLC
Project: 1001-006

Date Sampled: 10/15/97
Date Received: 10/16/97

Data Release Authorized: MS
Reported: 11/26/97

Date Analyzed: 11/17/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	90-12-0	Naphthalene,_1-methyl-___	12.11	SVOA	680 JN
2.	--	Naphthalene,_Dimethyl_Iso	13.16	SVOA	770 JN
3.	--	Naphthalene,_Dimethyl_Iso	13.33	SVOA	1,100 JN
4.	--	Naphthalene,_Dimethyl_Iso	13.55	SVOA	1,100 JN
5.	--	Naphthalene,_Trimethyl_Is	14.49	SVOA	460 JN
6.	--	Naphthalene,_Trimethyl_Is	14.70	SVOA	590 JN
7.	--	Naphthalene,_Trimethyl_Is	14.84	SVOA	680 JN
8.	--	Unknown_____	16.32	SVOA	430 JN
9.	132-65-0	Dibenzothiophene_____	16.76	SVOA	1,000 JN
10.	--	Unknown_C15.H12_PNA_____	18.00	SVOA	660 JN
11.	--	Unknown_C15.H12_PNA_____	18.05	SVOA	680 JN
12.	--	Unknown_Aromatic_____	18.23	SVOA	1,600 JN
13.	--	Unknown_____	18.44	SVOA	660 JN
14.	--	Unknown_C16.H12_PNA_____	18.60	SVOA	700 JN
15.	--	Unknown_____	18.68	SVOA	580 JN
16.	--	Unknown_C16.H14_PNA_____	19.14	SVOA	600 JN
17.	--	Unknown_C18.H18_PNA_____	20.59	SVOA	3,000 JN
18.	--	Unknown_PNA_____	21.91	SVOA	600 JN
19.	--	Unknown_C20.H12_PNA_____	24.82	SVOA	560 JN
20.	--	Unknown_C22.H12_PNA_____	27.38	SVOA	420 JN

FORM-1-B

JMB 1/27/98 1176

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: U175J
LIMS ID: 97-19483
Matrix: Sediment
Data Release Authorized: BND
Reported: 11/26/97

Sample No: 97424910
DILUTION

QC Report No: U175-REGL, LLC
Project: 1001-006

Date Sampled: 10/15/97
Date Received: 10/16/97

Date extracted: 10/27/97
Date analyzed: 11/21/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 28.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:10
Percent Moisture: 42.7%
pH: 7.9

CAS Number	Analyte	ug/kg
108-95-2	Phenol	350 U
111-44-4	Bis-(2-Chloroethyl) Ether	690 U
95-57-8	2-Chlorophenol	350 U
541-73-1	1,3-Dichlorobenzene	350 U
106-46-7	1,4-Dichlorobenzene	350 U
100-51-6	Benzyl Alcohol	350 U
95-50-1	1,2-Dichlorobenzene	350 U
95-48-7	2-Methylphenol	350 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	350 U
106-44-5	4-Methylphenol	350 U
621-64-7	N-Nitroso-Di-N-Propylamine	690 U
67-72-1	Hexachloroethane	350 U
98-95-3	Nitrobenzene	350 U
78-59-1	Isophorone	350 U
88-75-5	2-Nitrophenol	1,700 U
105-67-9	2,4-Dimethylphenol	350 U
65-85-0	Benzoic Acid	3,500 U
111-91-1	bis(2-Chloroethoxy) Methane	350 U
120-83-2	2,4-Dichlorophenol	1,000 U
120-82-1	1,2,4-Trichlorobenzene	350 U
91-20-3	**Naphthalene**	**1,200**
106-47-8	4-Chloroaniline	1,000 U
87-68-3	Hexachlorobutadiene	350 U
59-50-7	4-Chloro-3-methylphenol	690 U
91-57-6	**2-Methylnaphthalene**	**510**
77-47-4	Hexachlorocyclopentadiene	1,700 U
88-06-2	2,4,6-Trichlorophenol	1,700 U
95-95-4	2,4,5-Trichlorophenol	1,700 U
91-58-7	2-Chloronaphthalene	350 U
88-74-4	2-Nitroaniline	1,700 U
131-11-3	Dimethylphthalate	350 U
208-96-8	Acenaphthylene	350 U
99-09-2	3-Nitroaniline	2,100 U
83-32-9	**Acenaphthene**	**2,400**
51-28-5	2,4-Dinitrophenol	3,500 U J
100-02-7	4-Nitrophenol	1,700 U
132-64-9	Dibenzofuran	350 U
606-20-2	2,6-Dinitrotoluene	1,700 U

FORM-1

1200

JMB 1/27/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 2 of 2

Sample No: 97424910
DILUTION

Lab Sample ID: U175J
LIMS ID: 97-19483
Matrix: Sediment
Data Release Authorized: ENB
Reported: 11/26/97

QC Report No: U175-REGL, LLC
Project: 1001-006
Date Sampled: 10/15/97
Date Received: 10/16/97

Date extracted: 10/27/97
Date analyzed: 11/21/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 28.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1:10
Percent Moisture: 42.7%
pH: 7.9

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	1,700 U
84-66-2	Diethylphthalate	350 U
7005-72-3	4-Chlorophenyl-phenylether	350 U
86-73-7	**Fluorene**	**1,200**
100-01-6	4-Nitroaniline	1,700 U
534-52-1	4,6-Dinitro-2-Methylphenol	3,500 U
86-30-6	N-Nitrosodiphenylamine	350 U
101-55-3	4-Bromophenyl-phenylether	350 U
118-74-1	Hexachlorobenzene	350 U
87-86-5	Pentachlorophenol	1,700 U
85-01-8	**Phenanthrene**	**16,000**
86-74-8	Carbazole	350 U
120-12-7	**Anthracene**	**1,500**
84-74-2	Di-n-Butylphthalate	350 U
206-44-0	**Fluoranthene**	**11,000**
129-00-0	**Pyrene**	**15,000**
85-68-7	Butylbenzylphthalate	350 U
91-94-1	3,3'-Dichlorobenzidine	1,700 U
56-55-3	**Benzo(a)anthracene**	**2,400**
117-81-7	bis(2-Ethylhexyl)phthalate	350 U
218-01-9	**Chrysene**	**3,300**
117-84-0	Di-n-Octyl phthalate	350 U
205-99-2	**Benzo(b)fluoranthene**	**1,800**
207-08-9	**Benzo(k)fluoranthene**	**2,400**
50-32-8	**Benzo(a)pyrene**	**3,500**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**2,300**
53-70-3	**Dibenz(a,h)anthracene**	**480**
191-24-2	**Benzo(g,h,i)perylene**	**3,300**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	59.6%	d5-Phenol	61.3%
2-Fluorobiphenyl	60.4%	2-Fluorophenol	64.8%
d14-p-Terphenyl	68.4%	2,4,6-Tribromophenol	71.5%
d4-1,2-Dichlorobenzene	54.4%	d4-2-Chlorophenol	58.4%

FORM-1

1201

JMB 1-22-98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 97424910
DILUTION

Lab Sample ID: U175J
LIMS ID: 97-19483
Matrix: Sediment

QC Report No: U175-REGL, LLC
Project: 1001-006
Date Sampled: 10/15/97
Date Received: 10/16/97

Data Release Authorized: ANB
Reported: 11/26/97

Date Analyzed: 11/21/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	---	Unknown_Hydrocarbon	12.36	SVOA	820 JN
2.	90-12-0	Naphthalene,_1-methyl-	13.10	SVOA	860 JN
3.	---	Unknown_Hydrocarbon	13.57	SVOA	1,100 JN
4.	---	Naphthalene,_Dimethyl_Iso	14.14	SVOA	1,000 JN
5.	---	Naphthalene,_Dimethyl_Iso	14.32	SVOA	1,800 JN
6.	---	Unknown_Hydrocarbon	14.49	SVOA	1,000 JN
7.	---	Unknown_Aromatic	15.43	SVOA	1,000 JN
8.	---	Naphthalene,_Trimethyl_Is	15.66	SVOA	870 JN
9.	---	Naphthalene,_Trimethyl_Is	15.87	SVOA	1,100 JN
10.	---	Unknown_Hydrocarbon	16.35	SVOA	1,600 JN
11.	132-65-0	Dibenzothiophene	17.75	SVOA	1,400 JN
12.	---	Unknown_PNA	18.62	SVOA	770 JN
13.	---	Unknown_C15.H12_PNA	19.04	SVOA	840 JN
14.	---	Unknown_Aromatic	19.23	SVOA	1,500 JN
15.	---	Unknown	19.45	SVOA	830 JN
16.	---	Unknown	20.19	SVOA	870 JN
17.	---	Unknown_PNA	21.51	SVOA	6,400 JN
18.	---	Unknown_PNA	22.89	SVOA	2,400 JN
19.	---	Unknown_C20.H12_PNA	25.79	SVOA	1,900 JN
20.	---	Unknown	28.94	SVOA	1,600 JN

FORM-1-B

JMB 1/27/98 1224

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 1 of 2
Lab Sample ID: U175L
LIMS ID: 97-19485
Matrix: Sediment
Data Release Authorized: AWB
Reported: 11/26/97

Sample No: 97424912 WR-SD-SD035-0000A

QC Report No: U175-REGL, LLC
Project: 1001-006

Date Sampled: 10/15/97
Date Received: 10/16/97

Date extracted: 10/27/97
Date analyzed: 11/17/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 15.6 g-dry-wt
Final Extract Volume: 2.0 mL
Dilution Factor: 1:1
Percent Moisture: 48.6%
pH: 7.7

CAS Number	Analyte	ug/kg
108-95-2	Phenol	130 U
111-44-4	Bis-(2-Chloroethyl) Ether	260 U
95-57-8	2-Chlorophenol	130 U
541-73-1	1,3-Dichlorobenzene	130 U
106-46-7	1,4-Dichlorobenzene	130 U
100-51-6	Benzyl Alcohol	130 U J
95-50-1	1,2-Dichlorobenzene	130 U
95-48-7	2-Methylphenol	130 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	130 U
106-44-5	**4-Methylphenol**	**160**
621-64-7	N-Nitroso-Di-N-Propylamine	260 U
67-72-1	Hexachloroethane	130 U
98-95-3	Nitrobenzene	130 U
78-59-1	Isophorone	130 U
88-75-5	2-Nitrophenol	640 U
105-67-9	2,4-Dimethylphenol	130 U
65-85-0	Benzoic Acid	1,300 U
111-91-1	bis(2-Chloroethoxy) Methane	130 U
120-83-2	2,4-Dichlorophenol	390 U
120-82-1	1,2,4-Trichlorobenzene	130 U
91-20-3	**Naphthalene**	**1,900**
106-47-8	4-Chloroaniline	390 U
87-68-3	Hexachlorobutadiene	130 U
59-50-7	4-Chloro-3-methylphenol	260 U
91-57-6	**2-Methylnaphthalene**	**860**
77-47-4	Hexachlorocyclopentadiene	640 U J
88-06-2	2,4,6-Trichlorophenol	640 U
95-95-4	2,4,5-Trichlorophenol	640 U
91-58-7	2-Chloronaphthalene	130 U
88-74-4	2-Nitroaniline	640 U
131-11-3	Dimethylphthalate	130 U
208-96-8	**Acenaphthylene**	**490**
99-09-2	3-Nitroaniline	770 U J
83-32-9	**Acenaphthene**	**5,400**
51-28-5	2,4-Dinitrophenol	1,300 U J
100-02-7	4-Nitrophenol	640 U
132-64-9	**Dibenzofuran**	**470**
606-20-2	2,6-Dinitrotoluene	640 U

FORM-1

JMB 1248
1/27/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: U175L
LIMS ID: 97-19485
Matrix: Sediment
Data Release Authorized: DNA
Reported: 11/26/97

Sample No: 97424912
WR-SD-SD035-0000A
QC Report No: U175-REGL, LLC
Project: 1001-006
Date Sampled: 10/15/97
Date Received: 10/16/97

Date extracted: 10/27/97
Date analyzed: 11/17/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 15.6 g-dry-wt
Final Extract Volume: 2.0 mL
Dilution Factor: 1:1
Percent Moisture: 48.6%
pH: 7.7

CAS Number	Analyte	ug/kg
121-14-2	2,4-Dinitrotoluene	640 U
84-66-2	Diethylphthalate	130 U
7005-72-3	4-Chlorophenyl-phenylether	130 U
86-73-7	**Fluorene**	**4,600**
100-01-6	4-Nitroaniline	640 U J
534-52-1	4,6-Dinitro-2-Methylphenol	1,300 U J
86-30-6	N-Nitrosodiphenylamine	130 U J
101-55-3	4-Bromophenyl-phenylether	130 U
118-74-1	Hexachlorobenzene	130 U
87-86-5	Pentachlorophenol	640 ~~U J~~ R
85-01-8	**Phenanthrene**	~~30,000 E~~ 42000 D JMB
86-74-8	**Carbazole**	280 J
120-12-7	**Anthracene**	**7,800**
84-74-2	Di-n-Butylphthalate	130 U
206-44-0	**Fluoranthene**	~~28,000 E~~ 34000 D
129-00-0	**Pyrene**	~~33,000 E~~ 48000 D
85-68-7	Butylbenzylphthalate	130 U
91-94-1	3,3'-Dichlorobenzidine	640 U
56-55-3	**Benzo(a)anthracene**	**9,900**
117-81-7	bis(2-Ethylhexyl)phthalate	130 U
218-01-9	**Chrysene**	~~12,000 E~~ 11000 D
117-84-0	Di-n-Octyl phthalate	130 U
205-99-2	**Benzo(b)fluoranthene**	~~12,000 E~~ 7600 D
207-08-9	**Benzo(k)fluoranthene**	**5,400**
50-32-8	**Benzo(a)pyrene**	~~14,000 E~~ 13000 D
193-39-5	**Indeno(1,2,3-cd)pyrene**	**8,700**
53-70-3	**Dibenz(a,h)anthracene**	**2,100**
191-24-2	**Benzo(g,h,i)perylene**	~~12,000 E~~ 13000 D

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	61.4%	d5-Phenol	68.3%
2-Fluorobiphenyl	72.8%	2-Fluorophenol	71.4%
d14-p-Terphenyl	87.8%	2,4,6-Tribromophenol	87.0%
d4-1,2-Dichlorobenzene	60.8%	d4-2-Chlorophenol	68.0%

FORM-1

00701

JMB 1/27/98

1249

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 97424912
WR-SD-SD035-0000A

Lab Sample ID: U175L
LIMS ID: 97-19485
Matrix: Sediment

QC Report No: U175-REGL, LLC
Project: 1001-006

Date Sampled: 10/15/97
Date Received: 10/16/97

Data Release Authorized: MR
Reported: 11/26/97

Date Analyzed: 11/17/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	90-12-0	Naphthalene, 1-methyl-	12.11	SVOA	1,700 JN
2.	--	Naphthalene, Dimethyl Iso	13.15	SVOA	1,900 JN
3.	--	Naphthalene, Dimethyl Iso	13.32	SVOA	3,000 JN
4.	--	Naphthalene, Trimethyl Is	14.84	SVOA	1,600 JN
5.	132-65-0	Dibenzothiophene	16.74	SVOA	2,500 JN
6.	--	Unknown C16.H12 PNA	17.61	SVOA	2,400 JN
7.	--	Unknown C15.H12 PNA	17.97	SVOA	2,100 JN
8.	--	Unknown C15.H12 PNA	18.04	SVOA	2,400 JN
9.	--	Unknown Aromatic	18.21	SVOA	5,400 JN
10.	--	Unknown C16.H12 PNA	18.58	SVOA	2,600 JN
11.	--	Unknown C16.H14 PNA	19.12	SVOA	1,800 JN
12.	--	Unknown C16.H10 PNA	19.59	SVOA	4,200 JN
13.	--	Unknown Aromatic	20.52	SVOA	13,000 JN
14.	--	Unknown C17.H12 PNA	20.67	SVOA	4,100 JN
15.	--	Unknown PNA	21.88	SVOA	6,600 JN
16.	--	Unknown PNA	22.51	SVOA	3,400 JN
17.	--	Unknown	23.37	SVOA	5,200 JN
18.	--	Unknown C20.H12 PNA	24.49	SVOA	3,600 JN
19.	--	Unknown C20.H12 PNA	24.79	SVOA	7,200 JN
20.	--	Unknown C22.H12 PNA	27.39	SVOA	4,400 JN

FORM-1-B

JMB 1/27/98 1276

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 1 of 2

Sample No: 97424912
DILUTION

Lab Sample ID: U175L
LIMS ID: 97-19485
Matrix: Sediment
Data Release Authorized: AVP
Reported: 11/26/97

QC Report No: U175-REGL, LLC
Project: 1001-006

Date Sampled: 10/15/97
Date Received: 10/16/97

Date extracted: 10/27/97
Date analyzed: 11/21/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 15.6 g-dry-wt
Final Extract Volume: 2.0 mL
Dilution Factor: 1:10
Percent Moisture: 48.6%
pH: 7.7

CAS Number	Analyte	ug/kg
108-95-2	Phenol	1,300 U
111-44-4	Bis-(2-Chloroethyl) Ether	2,600 U
95-57-8	2-Chlorophenol	1,300 U
541-73-1	1,3-Dichlorobenzene	1,300 U
106-46-7	1,4-Dichlorobenzene	1,300 U
100-51-6	Benzyl Alcohol	1,300 U
95-50-1	1,2-Dichlorobenzene	1,300 U
95-48-7	2-Methylphenol	1,300 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1,300 U
106-44-5	4-Methylphenol	1,300 U
621-64-7	N-Nitroso-Di-N-Propylamine	2,600 U
67-72-1	Hexachloroethane	1,300 U
98-95-3	Nitrobenzene	1,300 U
78-59-1	Isophorone	1,300 U
88-75-5	2-Nitrophenol	6,400 U
105-67-9	2,4-Dimethylphenol	1,300 U
65-85-0	Benzoic Acid	13,000 U
111-91-1	bis(2-Chloroethoxy) Methane	1,300 U
120-83-2	2,4-Dichlorophenol	3,900 U
120-82-1	1,2,4-Trichlorobenzene	1,300 U
91-20-3	**Naphthalene**	**1,400**
106-47-8	4-Chloroaniline	3,900 U
87-68-3	Hexachlorobutadiene	1,300 U
59-50-7	4-Chloro-3-methylphenol	2,600 U
91-57-6	2-Methylnaphthalene	1,300 U
77-47-4	Hexachlorocyclopentadiene	6,400 U
88-06-2	2,4,6-Trichlorophenol	6,400 U
95-95-4	2,4,5-Trichlorophenol	6,400 U
91-58-7	2-Chloronaphthalene	1,300 U
88-74-4	2-Nitroaniline	6,400 U
131-11-3	Dimethylphthalate	1,300 U
208-96-8	Acenaphthylene	1,300 U
99-09-2	3-Nitroaniline	7,700 U
83-32-9	**Acenaphthene**	**4,200**
51-28-5	2,4-Dinitrophenol	13,000 U J
100-02-7	4-Nitrophenol	6,400 U
132-64-9	Dibenzofuran	1,300 U
606-20-2	2,6-Dinitrotoluene	6,400 U

FORM-1

1300

JMB 1/27/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by GC/MS
Page 2 of 2
Lab Sample ID: U175L
LIMS ID: 97-19485
Matrix: Sediment
Data Release Authorized: DMB
Reported: 11/26/97

Sample No: 97424912
DILUTION

QC Report No: U175-REGL, LLC
Project: 1001-006

Date Sampled: 10/15/97
Date Received: 10/16/97

Date extracted: 10/27/97
Date analyzed: 11/21/97
Instrument: nt1
GPC Cleanup: YES

Sample Amount: 15.6 g-dry-wt
Final Extract Volume: 2.0 mL
Dilution Factor: 1:10
Percent Moisture: 48.6%
pH: 7.7

CAS Number	Analyte	ug/Kg
121-14-2	2,4-Dinitrotoluene	6,400 U
84-66-2	Diethylphthalate	1,300 U
7005-72-3	4-Chlorophenyl-phenylether	1,300 U
86-73-7	**Fluorene**	**3,000**
100-01-6	4-Nitroaniline	6,400 U
534-52-1	4,6-Dinitro-2-Methylphenol	13,000 U
86-30-6	N-Nitrosodiphenylamine	1,300 U
101-55-3	4-Bromophenyl-phenylether	1,300 U
118-74-1	Hexachlorobenzene	1,300 U
87-86-5	Pentachlorophenol	6,400 U
85-01-8	**Phenanthrene**	**42,000**
86-74-8	Carbazole	1,300 U
120-12-7	**Anthracene**	**6,400**
84-74-2	Di-n-Butylphthalate	1,300 U
206-44-0	**Fluoranthene**	**34,000**
129-00-0	**Pyrene**	**48,000**
85-68-7	Butylbenzylphthalate	1,300 U
91-94-1	3,3'-Dichlorobenzidine	6,400 U
56-55-3	**Benzo(a)anthracene**	**8,400**
117-81-7	bis(2-Ethylhexyl)phthalate	1,300 U
218-01-9	**Chrysene**	**11,000**
117-84-0	Di-n-Octyl phthalate	1,300 U
205-99-2	**Benzo(b)fluoranthene**	**7,600**
207-08-9	**Benzo(k)fluoranthene**	**6,800**
50-32-8	**Benzo(a)pyrene**	**13,000**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**8,500**
53-70-3	**Dibenz(a,h)anthracene**	**1,700**
191-24-2	**Benzo(g,h,i)perylene**	**13,000**

Semivolatiles Surrogate Recovery

d5-Nitrobenzene	56.4%	d5-Phenol	62.4%
2-Fluorobiphenyl	59.2%	2-Fluorophenol	61.1%
d14-p-Terphenyl	65.6%	2,4,6-Tribromophenol	62.1%
d4-1,2-Dichlorobenzene	51.6%	d4-2-Chlorophenol	57.1%

FORM-1

JMB 1301
1/27/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tentatively Identified Compounds

Sample No: 97424912
DILUTION

Lab Sample ID: U175L
LIMS ID: 97-19485
Matrix: Sediment

QC Report No: U175-REGL, LLC
Project: 1001-006
Date Sampled: 10/15/97
Date Received: 10/16/97

Data Release Authorized: CWB
Reported: 11/26/97

Date Analyzed: 11/21/97

	CAS Number	Tentative Identification	RT	Fraction	ug/kg
1.	---	Unknown_Hydrocarbon	13.57	SVOA	3,200 J N
2.	---	Naphthalene,_Dimethyl_Iso	14.14	SVOA	2,800 J N
3.	---	Naphthalene,_Dimethyl_Iso	14.31	SVOA	5,300 J N
4.	---	Unknown_Hydrocarbon	14.49	SVOA	3,200 J N
5.	---	Naphthalene,_Trimethyl_Is	15.43	SVOA	2,800 J N
6.	---	Unknown_Hydrocarbon	16.35	SVOA	4,500 J N
7.	---	Unknown_Hydrocarbon	16.89	SVOA	4,700 J N
8.	132-65-0	Dibenzothiophene	17.76	SVOA	3,500 JN
9.	---	Unknown_Hydrocarbon	17.83	SVOA	3,200 J N
10.	---	Unknown_Aromatic	19.23	SVOA	4,600 J N
11.	---	Unknown_Aromatic	21.51	SVOA	5,500 J N
12.	---	Unknown_C20.H12_PNA	25.79	SVOA	2,700 J N
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					

FORM-1-B

JMB 1/27/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 97424900
WR-SD-SD001-0000A

Lab Sample ID: U175A
LIMS ID: 97-19474
Matrix: Sediment
Data Release Authorized:
Reported: 11/24/97

QC Report No: U175-REGL, LLC
Project: 1001-006

Date Sampled: 10/14/97
Date Received: 10/16/97

Date extracted: 10/27/97
Date analyzed: 11/17/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 51.9 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:1
Percent Moisture: 45.5%
pH: 7.5

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	0.96 U UJ
319-85-7	beta-BHC	0.96 U UJ
319-86-8	delta-BHC	0.96 U UJ
58-89-9	gamma-BHC (Lindane)	0.96 U UJ
76-44-8	Heptachlor	0.96 U UJ
309-00-2	Aldrin	0.96 U UJ
1024-57-3	Heptachlor Epoxide	0.96 U UJ
959-98-8	Endosulfan I	0.96 U UJ
60-57-1	Dieldrin	1.9 U UJ
72-55-9	**4,4'-DDE**	**9.4** J
72-20-8	Endrin	1.9 U UJ
33213-65-9	Endosulfan II	1.9 U UJ
72-54-8	**4,4'-DDD**	**36** J
1031-07-8	Endosulfan Sulfate	1.9 U UJ
50-29-3	**4,4'-DDT**	~~43 B~~ 62 D ~~B~~ J
72-43-5	Methoxychlor	9.6 U UJ
53494-70-5	Endrin Ketone	1.9 U UJ
7421-93-4	Endrin Aldehyde	1.9 U UJ
57-74-9	gamma Chlordane	0.96 U UJ
5103-71-9	alpha Chlordane	0.96 U UJ
8001-35-2	Toxaphene	96 U UJ
12674-11-2	Aroclor 1016	19 U UJ
53469-21-9	Aroclor 1242	19 U UJ
12672-29-6	Aroclor 1248	19 U UJ
11097-69-1	Aroclor 1254	19 U UJ
11096-82-5	Aroclor 1260	19 U UJ
11104-28-2	Aroclor 1221	39 U UJ
11141-16-5	Aroclor 1232	19 U UJ

JMB

Pesticide Surrogate Recovery

Decachlorobiphenyl	32.8%
Tetrachlorometaxylene	20.5%

FORM-1

JMB 1/27/98 027

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 97424900
DILUTION

Lab Sample ID: U175ADL
LIMS ID: 97-19474
Matrix: Sediment
Data Release Authorized:
Reported: 11/24/97

QC Report No: U175-REGL, LLC
Project: 1001-006

Date Sampled: 10/14/97
Date Received: 10/16/97

Date extracted: 10/27/97
Date analyzed: 11/20/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 51.9 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:10
Percent Moisture: 45.5%
pH: 7.5

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	9.6 U
319-85-7	beta-BHC	9.6 U
319-86-8	delta-BHC	9.6 U
58-89-9	gamma-BHC (Lindane)	9.6 U
76-44-8	Heptachlor	9.6 U
309-00-2	Aldrin	9.6 U
1024-57-3	Heptachlor Epoxide	9.6 U
959-98-8	Endosulfan I	9.6 U
60-57-1	Dieldrin	19 U
72-55-9	4,4'-DDE	19 U
72-20-8	Endrin	19 U
33213-65-9	Endosulfan II	19 U
72-54-8	**4,4'-DDD**	**48**
1031-07-8	Endosulfan Sulfate	19 U
50-29-3	**4,4'-DDT**	**62** J
72-43-5	Methoxychlor	96 U
53494-70-5	Endrin Ketone	19 U
7421-93-4	Endrin Aldehyde	19 U
57-74-9	gamma Chlordane	9.6 U
5103-71-9	alpha Chlordane	9.6 U
8001-35-2	Toxaphene	960 U
12674-11-2	Aroclor 1016	190 U
53469-21-9	Aroclor 1242	190 U
12672-29-6	Aroclor 1248	190 U
11097-69-1	Aroclor 1254	190 U
11096-82-5	Aroclor 1260	190 U
11104-28-2	Aroclor 1221	390 U
11141-16-5	Aroclor 1232	190 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	70.0%
Tetrachlorometaxylene	67.5%

FORM-1

MB 1/27/98

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 97424902

WR-SD- SD074- 0000A

Lab Sample ID: U175C
LIMS ID: 97-19476
Matrix: Sediment
Data Release Authorized:
Reported: 11/24/97

QC Report No: U175-REGL, LLC
Project: 1001-006

Date Sampled: 10/14/97
Date Received: 10/16/97

Date extracted: 10/27/97
Date analyzed: 11/17/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 51.0 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:1
Percent Moisture: 49.1%
pH: 7.5

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	0.98 U
319-85-7	beta-BHC	0.98 U
319-86-8	delta-BHC	0.98 U
58-89-9	gamma-BHC (Lindane)	0.98 U
76-44-8	Heptachlor	0.98 U
309-00-2	Aldrin	0.98 U
1024-57-3	Heptachlor Epoxide	0.98 U
959-98-8	Endosulfan I	0.98 U
60-57-1	Dieldrin	2.0 U
72-55-9	**4,4'-DDE**	**2.8**
72-20-8	Endrin	2.0 U
33213-65-9	Endosulfan II	2.0 U
72-54-8	**4,4'-DDD**	**4.8**
1031-07-8	Endosulfan Sulfate	2.0 U
50-29-3	**4,4'-DDT**	**15**
72-43-5	Methoxychlor	9.8 U
53494-70-5	Endrin Ketone	2.0 U
7421-93-4	Endrin Aldehyde	2.0 U
57-74-9	gamma Chlordane	0.98 U
5103-71-9	alpha Chlordane	0.98 U
8001-35-2	Toxaphene	98 U
12674-11-2	Aroclor 1016	20 U
53469-21-9	Aroclor 1242	20 U
12672-29-6	Aroclor 1248	20 U
11097-69-1	Aroclor 1254	20 U
11096-82-5	Aroclor 1260	20 U
11104-28-2	Aroclor 1221	39 U
11141-16-5	Aroclor 1232	20 U

Pesticide Surrogate Recovery

Decachlorobiphenyl	61.0%
Tetrachlorometaxylene	19.0%

FORM-1

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04:

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 97424904

WR-SD-SD041-0000A

Lab Sample ID: U175E
LIMS ID: 97-19478
Matrix: Sediment
Data Release Authorized:
Reported: 12/05/97

QC Report No: U175-REGL, LLC
Project: 1001-006

Date Sampled: 10/14/97
Date Received: 10/16/97

Date extracted: 10/27/97
Date analyzed: 11/17/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 51.8 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:1
Percent Moisture: 50.8%
pH: 7.2

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	0.96 U J
319-85-7	beta-BHC	0.96 U J
319-86-8	delta-BHC	0.96 U J
58-89-9	gamma-BHC (Lindane)	0.96 U J
76-44-8	Heptachlor	0.96 U J
309-00-2	Aldrin	0.96 U J
1024-57-3	Heptachlor Epoxide	0.96 U J
959-98-8	Endosulfan I	0.96 U J
60-57-1	Dieldrin	1.9 U J
72-55-9	4,4'-DDE	2.6 ~~U~~ UI J
72-20-8	Endrin	1.9 U J
33213-65-9	Endosulfan II	1.9 U J
72-54-8	**4,4'-DDD**	3.3 J
1031-07-8	Endosulfan Sulfate	1.9 U J
50-29-3	4,4'-DDT	3.1 ~~U~~ UI J
72-43-5	Methoxychlor	9.6 U J
53494-70-5	Endrin Ketone	3.9 ~~U~~ UI J
7421-93-4	Endrin Aldehyde	1.9 U J
57-74-9	gamma Chlordane	1.5 ~~U~~ UI J
5103-71-9	alpha Chlordane	0.96 U J
8001-35-2	Toxaphene	96 U J
12674-11-2	Aroclor 1016	19 U J
53469-21-9	Aroclor 1242	19 U J
12672-29-6	Aroclor 1248	19 U J
11097-69-1	**Aroclor 1254**	59 J
11096-82-5	**Aroclor 1260**	81 J
11104-28-2	Aroclor 1221	39 U J
11141-16-5	Aroclor 1232	19 U J

Pesticide Surrogate Recovery

Decachlorobiphenyl	35.5%
Tetrachlorometaxylene	21.5%

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 97424906
WR-SD-SD138-0000A

Lab Sample ID: U175G
LIMS ID: 97-19480
Matrix: Sediment
Data Release Authorized:
Reported: 11/24/97

QC Report No: U175-REGL, LLC
Project: 1001-006
Date Sampled: 10/14/97
Date Received: 10/16/97

Date extracted: 10/27/97
Date analyzed: 11/17/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 52.2 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:1
Percent Moisture: 47.9%
pH: 7.9

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	0.96 U J
319-85-7	beta-BHC	0.96 U J
319-86-8	delta-BHC	0.96 U J
58-89-9	gamma-BHC (Lindane)	0.96 U J
76-44-8	Heptachlor	0.96 U J
309-00-2	Aldrin	0.96 U J
1024-57-3	Heptachlor Epoxide	0.96 U J
959-98-8	Endosulfan I	0.96 U J
60-57-1	Dieldrin	1.9 U J
72-55-9	4,4'-DDE	1.9 U J
72-20-8	Endrin	1.9 U J
33213-65-9	Endosulfan II	1.9 U J
72-54-8	4,4'-DDD	1.9 U J
1031-07-8	Endosulfan Sulfate	1.9 U J
50-29-3	4,4'-DDT	2.7 ~~Y~~ UIJ
72-43-5	Methoxychlor	9.6 U J
53494-70-5	Endrin Ketone	7.3 ~~Y~~ UIJ
7421-93-4	Endrin Aldehyde	3.7 ~~Y~~ UIJ
57-74-9	gamma Chlordane	1.3 ~~Y~~ UIJ
5103-71-9	alpha Chlordane	0.96 U J
8001-35-2	Toxaphene	96 U J
12674-11-2	Aroclor 1016	19 U J
53469-21-9	Aroclor 1242	19 U J
12672-29-6	Aroclor 1248	19 U J
11097-69-1	**Aroclor 1254**	**40 J**
11096-82-5	**Aroclor 1260**	**120 J**
11104-28-2	Aroclor 1221	38 U J
11141-16-5	Aroclor 1232	19 U J

Pesticide Surrogate Recovery

Decachlorobiphenyl	28.0%
Tetrachlorometaxylene	21.0%

FORM-1

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD

Sample No: 97424912

WR-SD-SD035-0000A

Lab Sample ID: U175L
LIMS ID: 97-19485
Matrix: Sediment
Data Release Authorized:
Reported: 11/24/97

QC Report No: U175-REGL, LLC
Project: 1001-006
Date Sampled: 10/15/97
Date Received: 10/16/97

Date extracted: 10/27/97
Date analyzed: 11/17/97
GPC Cleanup: YES
Florisil: YES
Sulfur Cleanup: YES

Sample Amount: 51.5 g-dry-wt
Final Extract Volume: 10 mL
Dilution Factor: 1:1
Percent Moisture: 48.6%
pH: 7.7

CAS Number	Analyte	ug/kg
319-84-6	alpha-BHC	0.97 UJ
319-85-7	beta-BHC	0.97 UJ
319-86-8	delta-BHC	0.97 UJ
58-89-9	gamma-BHC (Lindane)	0.97 UJ
76-44-8	Heptachlor	0.97 UJ
309-00-2	Aldrin	0.97 UJ
1024-57-3	Heptachlor Epoxide	0.97 UJ
959-98-8	Endosulfan I	0.97 UJ
60-57-1	Dieldrin	1.9 UJ
72-55-9	4,4'-DDE	7.1 ~~U~~ UIJ
72-20-8	Endrin	1.9 UJ
33213-65-9	Endosulfan II	1.9 UJ
72-54-8	4,4'-DDD	23 J
1031-07-8	Endosulfan Sulfate	1.9 UJ
50-29-3	4,4'-DDT	18 J
72-43-5	Methoxychlor	23 ~~U~~ UIJ
53494-70-5	Endrin Ketone	1.9 UJ
7421-93-4	Endrin Aldehyde	1.9 UJ
57-74-9	gamma Chlordane	0.97 UJ
5103-71-9	alpha Chlordane	0.97 UJ
8001-35-2	Toxaphene	97 UJ
12674-11-2	Aroclor 1016	19 UJ
53469-21-9	Aroclor 1242	19 UJ
12672-29-6	Aroclor 1248	19 UJ
11097-69-1	Aroclor 1254	78 ~~U~~ UIJ
11096-82-5	Aroclor 1260	78 ~~U~~ UIJ
11104-28-2	Aroclor 1221	39 UJ
11141-16-5	Aroclor 1232	19 UJ

Pesticide Surrogate Recovery

Decachlorobiphenyl	50.0%
Tetrachlorometaxylene	18.5%

FORM-1

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