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Volume II

Appendices

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Volume II

Appendices

A

Geotechnical Bore Logs

A. Geotechnical Bore Logs

DRILLING LOG OF WELL NO. MWEF-01

Page 1 of 1

Project/Location: Buffalo Brownfields / 858 East Ferry Street

Total Depth of Hole (feet BGS): 11.5

Boring Location: 858 East Ferry Street

Ground Elevation (feet above JCL-1): 98.19

Buffalo, New York

Inner casing elevation (feet above JCL-1): 100.68

Date Started/Finished: 10/13/97 - 10/13/97

Groundwater Depth (feet BGS):

Drilling Company: SJB Services, Inc.

During Drilling: 8.53

Driller/Geologist: Tony Jakubczak / Robert Meyers

After development: 6.08

ELEVATION	DEPTH	WELL COMPLETION DIAGRAM	GRAPHIC LOG	SOIL/ROCK DESCRIPTION	SAMPLE NUMBER SAMPLE INTERVAL	BLOW COUNT	RECOVERY (percent)	OVA (ppm) SAMPLE / HOLE	COMMENTS
gs elevation 98.19		Locking Cover Protective Casing Grout Bentonite seal Sand filter #0 0.010" slot PVC (sch. 40) screen Bentonite seal		ground surface (gs) FILL: Ash with trace brick fragments, silt and very fine sand; moist 2.8'-6.8': 60% silt with clay, 40% ash; moist-wet 6.8 CLAY: Medium brown silty clay, trace very fine sand; wet 8.0 CLAY: Red/brown silty clay, two very fine-fine sand seams (0.1' and 0.2' wide), trace gravel; slightly plastic; wet 10.0 TILL: Gray/brown sandy till, silt, some clay, trace gravel; moist 11.3 BEDROCK					
	1				1	1	55	0	Note: No existing elevation monumentation available at this site. All elevation measurements are referenced to the top of JCL-1 rebar/cap with an elevation of 100.00 ft.
	2				2	3			
	3				3	3	50	0	
	4				4	3			
	5				1	2	30	0	Collected sample for grain-size, Atterberg limits, and moisture content analysis. Auger refusal at 11.5' BGS. S.S. refusal at 11.3' BGS. END OF BOREHOLE AT 11.5'
	6				1	1			
	7				1	2	60	0	
	8				5	5			
	9				1	2	85	0	
	10				3	3			
	11				5	5			
	12				10	36	45	0	
	13				50/3	3			
	14								
	15								



DRILLING LOG OF WELL NO. MWEF-02

Page 1 of 2

Project/Location: <u>Buffalo Brownfields / 858 East Ferry Street</u>	Total Depth of Hole (feet BGS): <u>26</u>
Boring Location: <u>858 East Ferry Street</u>	Ground Elevation (feet above JCL-1): <u>98.74</u>
<u>Buffalo, New York</u>	Inner casing elevation (feet above JCL-1): <u>100.69</u>
Date Started/Finished: <u>10/9/97 - 10/10/97</u>	Groundwater Depth (feet BGS):
Drilling Company <u>SJB Services, Inc.</u>	During Drilling: <u>17.64</u>
Driller/Geologist: <u>Tony Jakubczak / Robert Meyers</u>	After development: <u>22.53</u>

ELEVATION	DEPTH	WELL COMPLETION DIAGRAM	GRAPHIC LOG	SOIL/ROCK DESCRIPTION	SAMPLE NUMBER SAMPLE INTERVAL	BLOW COUNT	RECOVERY (percent)	OVA (ppm) SAMPLE / HOLE	COMMENTS
gs elevation 98.74		Locking Cover Protective Casing Grout		ground surface (gs)					
	1			0.6 TOPSOIL: Medium brown topsoil, some fill material (glass, plastic); moist-wet	3				Note: No existing elevation monumentation available at this site. All elevation measurements are referenced to the top of JCL-1 rebar/cap with an elevation of 100.00 ft.
	2			CLAY: Red clay, trace gravel and silt; dense; moist	5		60	0	
	3			Poor recovery	5				
	4			Shelby Tube Sample	7				
	5				7		5	0	
	6			6.0 TILL: Red-brown till, silty clay, very fine to coarse sand and gravel; moderately cohesive; slightly plastic; moist	7				OVA reading (methane) from black ash seam.
	7				7				
	8				7				
	9			9.3 No recovery	9				
	10			10.0 TILL: Red/brown to gray silty clay till, little very fine to coarse sand and gravel; black ash seam 0.01' thick; moist					
	11			11.3 No recovery	2		50	0	Instant auger refusal at 13.1 BGS. Attempted S.S at 14'-16' - Final auger refusal at 14.3'
	12	Bentonite seal			2				
	13				2		50	0	
	14	Sand filter #0 (4 cups)		14.3 Concrete: Concrete formed on top	4				
	15				1				
					2		65	0.5	
					3				
					3				
					50/2				
							0	0	



DRILLING LOG OF WELL NO. MWEF-02

Page 2 of 2

Project/Location: Buffalo Brownfields / 858 East Ferry Street

Total Depth of Hole (feet BGS): 26

ELEVATION	DEPTH	WELL COMPLETION DIAGRAM	GRAPHIC LOG	SOIL/ROCK DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (percent)	OVA (ppm)	COMMENTS
		0.010" slot PVC (scr. 40) screen		15.8 of bedrock (poured; not a slab)						RQD (14.3'-18.4')=52%
	16			LIMESTONE: Fractured limestone.				88	0	
	17			Horizontal 45 fractures at 17.1', 17.35', and 17.65',						
	18			17.65-19.7': Highly fractured limestone.						
	19			Fairly tight horizontal fractures at 19.7', 19.88', 20.7', 21.35', 21.5',				100	0	Drilling rate: 8 minutes/ft
	20			and 21.9'. Fractures at 20.7', and 21.5' appear water bearing.						RQD (18.4'-19.4')=40%
	21							119	0	Unsteady drilling; 13 minutes/ft.
	22			Vugs at 22.5'.						RQD (19.4'-22')= 90%
	23			22.6'-23.8': Highly fractured.						Core segment portions from earlier runs entered core barrel.
	24			Other fractures at 24.2', 24.6', 24.7', and 25.3'.				100	0	Steady drilling, 7.5 minutes/ft
	25	Threaded end plug								RQD (22'-26')= 71%
	26		26.0							END OF BOREHOLE AT 26' BGS
	27									
	28									
	29									
	30									
	31									
	32									
	33									
	34									
	35									
	36									



DRILLING LOG OF WELL NO. MWEF-03

Page 1 of 2

Project/Location: Buffalo Brownfields / 858 East Ferry Street
 Boring Location: 858 East Ferry Street
Buffalo, New York
 Date Started/Finished: 10/8/97 - 10/10/97
 Drilling Company: SJB Services, Inc.
 Driller/Geologist: Tony Jakubczak / Robert Meyers

Total Depth of Hole (feet BGS): 28
 Ground Elevation (feet above JCL-1): 100.35
 Inner casing elevation (feet above JCL-1): 101.86
 Groundwater Depth (feet BGS):
 During Drilling: 23.45
 After development: 21.82

ELEVATION DEPTH	WELL COMPLETION DIAGRAM	GRAPHIC LOG	SOIL/ROCK DESCRIPTION	SAMPLE NUMBER SAMPLE INTERVAL	BLOW COUNT	RECOVERY (percent)	OVA (ppm) SAMPLE / HOLE	COMMENTS
gs elevation 100.35	Locking Cover Protective Casing		ground surface (gs)					
100	Grout		0.6' TOPSOIL: Medium brown topsoil and angular limestone fragments; moist-wet	6	4	80	0	Note: No existing elevation monumentation available at this site. All elevation measurements are referenced to the top of JCL-1 rebar/cap with an elevation of 100.00 ft.
1			0.6'-2' CLAY: Red clay, trace gravel and silt; dense; moist-wet	4	7			
2			2'-4' CLAY: Red clay, trace gravel and silt, some very fine sand, iron staining, fill material; dense; moist	9	10	40	0	
3			4.0' TILL: Gray-brown till, silt and very fine sand, some clay, 10% gravel; moist	6	7			
4				4	8	55	0	
5				4	5			
6			6'-8': Also trace of iron staining	6	6	80	0	
7			8.0' CLAY TILL: Clay till, trace subrounded to angular gravel, very fine to coarse sand and silt; highly cohesive; moderate to high plasticity; moist	3	3			
8				6	8	70	0	
9				8	8			
10				4	5	80	0	12'-12.8' Dry soil
11			12.0' TILL: Silt and very fine sand, some gravel, trace clay, cobbles; some clay at 14'-15.2'; dry-moist	5	12			
12				36	50/3	35	0	
13								
14	Bentonite			18				
15				40				



DRILLING LOG OF WELL NO. MWEF-03

Page 2 of 2

Project/Location: Buffalo Brownfields / 858 East Ferry Street

Total Depth of Hole (feet BGS): 28

ELEVATION	DEPTH	WELL COMPLETION DIAGRAM	GRAPHIC LOG	SOIL/ROCK DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (percent)	OVA (ppm)	COMMENTS	
				15.2 No recovery			50/2	50	0	S.S. Refusal at 15.2' BGS	
				15.8						S.S. Refusal at 15.8' BGS-	
	16	Sand filter #0 (4 cups) PVC (sch 40) 0.010" slot screen		BEDROCK Limestone with few small vugs.						Bedrock	
	17			Fractures (horizontal to 45 degrees) at: 16', 16.25', 16.65', 17.1', 17.5', 18', 18.55', 18.95', 19.07', 19.5', 19.85', 20', 20.35', 20.7', 20.75', 21.4', 21.53', 22.05', 22.5', 22.8', 23.05', 23.55', and 24.05'.						RQD (15.8'-24.2')= 69%	
	18										
	19										
	20								100	0	
	21										
	22										
	23										
	24										
	25					24.2'-28': One water bearing fracture at 25.2' (trace clay, secondary mineralization along with vugs up to 1" wide). Eight other fairly tight horizontal to 45 fractures spread out along cored interval (3.8').					
	26						100	0			
	27	Threaded end plug									
	28		28.0							END OF BOREHOLE AT 28' BGS	
	29										
	30										
	31										
	32										
	33										
	34										
	35										
	36										



DRILLING LOG OF WELL NO. MWEF-04

Page 1 of 2

Project/Location: Buffalo Brownfields / 858 East Ferry Street
 Boring Location: 858 East Ferry Street
Buffalo, New York
 Date Started/Finished: 10/8/97 - 10/8/97
 Drilling Company SJB Services, Inc.
 Driller/Geologist: Tony Jakubczak / Robert Meyers

Total Depth of Hole (feet BGS): 19.4
 Ground Elevation (feet above JCL-1): 102.77
 Inner casing elevation (feet above JCL-1): 104.77
 Groundwater Depth (feet BGS):
 During Drilling: 16
 After development: 4.99

ELEVATION	DEPTH	WELL COMPLETION DIAGRAM	GRAPHIC LOG	SOIL/ROCK DESCRIPTION	SAMPLE NUMBER SAMPLE INTERVAL	BLOW COUNT	RECOVERY (percent)	OVA (ppm) SAMPLE / HOLE	COMMENTS
gs elevation 102.77		Locking Cover Protective Casing Grout		ground surface (gs)					
	1		0.6	FILL: Medium brown, silt, trace sand, clay, and 30% debris (bones, gravel); moist	2	3	55	0	Note: No existing elevation monumentation available at this site. All elevation measurements are referenced to the top of JCL-1 rebar/cap with an elevation of 100.00 ft.
	2		2.0	CLAY: Red clay; dense; dry-moist	3	6			
	3			CLAY: Red clay, trace subrounded gravel, trace silt in thin seams (horizontal <1mm); dry-moist	8	9	65	0	
	4				10	13			
	5		4.8	CLAY: Light brown clay, trace silt, very fine to coarse sand, and gravel; cohesive; non plastic; moist-wet	4	6	90	0	10 ppm methane in hole
	6	Hydrated bentonite seal			8	9			
	7				9	10	100	0	
	8	Sand filter #0	8.0	TILL: Silt and very fine sand, trace fine to coarse sand, clay, and gravel, single cobble 0.25' thick at 9.3'; noncohesive; nonplastic; very dense; dry;	23	40	65	0	
	9				15	60			Difficult augering - S.S. refusal at 10.8'
	10	0.010" slot PVC (sch. 40) screen			50/3	37	30	0	
	11				50/3	25	35	0	
	12			14'-16': Vertical iron stained desiccation cracks; dry-moist	50/4	16			
	13					37			
	14			16'-16.4': Limestone cobble in split spoon shoe;					
	15								



DRILLING LOG OF WELL NO. MWEF-04

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Project/Location: Buffalo Brownfields / 858 East Ferry Street

Total Depth of Hole (feet BGS): 19.4

ELEVATION	DEPTH	WELL COMPLETION DIAGRAM	GRAPHIC LOG	SOIL/ROCK DESCRIPTION	SAMPLE NUMBER SAMPLE INTERVAL	BLOW COUNT	RECOVERY (percent)	OVA (ppm)	COMMENTS
	16				40	95	0		
	17				55				
	18			16.4	50/4				SS refusal at 16.4'
	19			No recovery water at 17'		15	0		
	20			18.0					
	21			Silt; Gray silt till, very fine sand, some clay, trace gravel; wet-moist	27				
	22			18.9	50/4	45	0		
	23								END OF BOREHOLE AT 19.4' BGS
	24								Auger refusal at 19.4' BGS. Attempted S.S. at 19.4-bounced on the bedrock- No Recovery
	25								
	26								
	27								
	28								
	29								
	30								
	31								
	32								
	33								
	34								
	35								
	36								



ecology and environment, inc.

BY6021

BY6021_WELL_BROWNFLD.GPJ 2-5-98

B

Chemical Data Usability Summary Forms



B. Chemical Data Usability Summary Forms

Ecology and Environment, Inc., (E & E)
Data Usability Summary Report (DUSR)

Prepared by: Lynn HESS / Marlene Davis Page 1 of 1

E & E Project #: BY 6000 Date: 11/12/97

Project or Site Name: Buffalo Brownfield - East Ferry

Laboratory Name: E&E ASC

Laboratory Report #: 9702.426 Report Date: 11/12/97

Date Sample(s) Taken: 10/06/97 Sample Matrix: 6 soil

Client Sample ID: TTEF-04-BSD100697, 06-ASD, 07-ASD, 08-ASD, 08-ASD, 09-ASD

Analytical Parameters: VOC (95-1), BNA (95-2), P/PCB (95-3), metals En (CLP-m)

The DUSR was prepared by reviewing and evaluating the analytical data per the guidelines from the Division of Hazardous Waste Remediation, Revision 11/95. The following checklist has been designed to ensure a thorough and complete review of the analytical results based on the requirements in these guidelines. The analytical results are considered valid and usable for the purposes of this project, with any exceptions addressed in the Data Deficiencies Comments section below.

Data Verification Parameters

CIRCLE ONE

1) Were statements made in the Analytical Data Case Narrative supported by the analytical data?	☒ Yes ☐ No ☐ NA
2) Were all chain of custody records present?	☒ Yes ☐ No ☐ NA
3) Were are chain of custody records completed?	☒ Yes ☐ No ☐ NA
4) Were the analysis run as per the method in the work plan?	☒ Yes ☐ No ☐ NA
5) Were the required holding times met for all matrices and analytical parameters?	☒ Yes ☐ No ☐ NA
6) Were samples correctly preserved?	☒ Yes ☐ No ☐ NA
7) Was Sample preservation documented?	☒ Yes ☐ No ☐ NA
8) Were performance checks within acceptance criteria?	Yes ☒ No ☐ NA
9) Were the initial and continuing calibrations performed at the required frequency?	☒ Yes ☐ No ☐ NA

Ecology and Environment, Inc., (E & E)
Data Usability Summary Report (DUSR)

Laboratory Report #: 9702, 426

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Data Verification Parameters

CIRCLE ONE

- 10) Were the initial and continuing calibrations within the acceptance criteria?
- 11) No qualification of data was required based on calibration criteria not being met?
- 12) Were method blanks free of contaminants?
- 13) Were field blanks free of contaminants?
- 14) Were system monitoring compounds within the acceptance limits?
- 15) Were matrix spike/matrix spike duplicates or matrix duplicate (MS/ MSD or D) analyzed at the correct frequency?
- 16) Did the MS/MSD or MS/D meet the percent recovery (%R) and relative percent difference (RPD) acceptance criteria?
- 17) Was the laboratory control sample (LCS) and when necessary, the LCS duplicate (LCSD), performed at the required frequency?
- 18) Did the LCS/LCSD's meet the %R and RPD acceptance criteria?
- 19) Did internal standards meet the acceptance criteria?
- 20) Did the results for any field duplicate samples meet expected precision requirements?
- 21) Were dilutions made appropriately?
- 22) No discrepancies were noted when the review of raw data (instrument printouts and chromatograms) was performed?
- 23) No quality control problems were noted in the review of the Field Sampling Notes?
- 24) No effect on data usability was required based on quality control problems in the field?

☒ Yes ☒ No ☐ NA
☒ Yes ☐ No ☐ NA
☐ Yes ☒ No ☐ NA
☐ Yes ☒ No ☐ NA
☒ Yes ☐ No ☐ NA
☒ Yes ☐ No ☒ NA
☒ Yes ☐ No ☐ NA
☒ Yes ☐ No ☐ NA
☒ Yes ☐ No ☐ NA
☒ Yes ☐ No ☐ NA
☒ Yes ☐ No ☒ NA
☒ Yes ☐ No ☐ NA
☒ Yes ☐ No ☒ NA
☒ Yes ☐ No ☐ NA

Ecology and Environment, Inc., (E & E)
Data Usability Summary Report (DUSR)

Laboratory Report #: 9702.426

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If NO to any of the above questions, give further explanation in the Comments section.

Comments: VOC
#12) VBLKS1 acetone 6Jug/kg "B" 06, 07, 08 ASD
VBLKS3 acetone 4Jug/kg "B" 08 ASD,
#13) VBLKH1 MeCl₂ @ 1Jug/L all smpls ND, no qual
BNA) #12) SBLKS1 BEHP @ 1400Jug/kg "B" 06, 08 ASD, 08 ASD, 09
#18) LCS %RT for 2,4-dinitrotoluene 130(24-96) +J all smpls
all ND, no qual
P/PCB #14) #10#11) sec attached +J smpls 04, 06, 08 ASD, 08 ASD, 09
P/PCB #14) sec attached

Metals Cu

#8) Serial Dilution %D ↑ for Sb E → J all smpls

#12) PB >IDL <CRDL

Sb -0.371 "u"

Ag -0.676 "u"

Zn -2.110 "u"

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

406

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.426 SAS No.:

SDG No.: 75136

Instrument ID: 7002B

Calibration date: 10/24/97 Time: 0743

Lab File ID: B5271

Init. Calib. Date(s): 10/22/97 10/22/97

Init. Calib. Times: 1101 1553

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.362	1.439		-5.7	
4-Chlorophenyl-phenylether	0.639	0.687	0.400	-7.5	25.0
Fluorene	1.219	1.307	0.900	-7.2	25.0
4-Nitroaniline	0.145	0.173		-19.3	
4,6-Dinitro-2-methylphenol	0.131	0.142		-8.4	
N-Nitrosodiphenylamine (1)	0.471	0.440		6.6	
4-Bromophenyl-phenylether	0.248	0.281	0.100	-13.3	25.0
Hexachlorobenzene	0.315	0.375	0.100	-19.0	25.0
Pentachlorophenol	0.188	0.187	0.050	0.5	25.0
Phenanthrene	1.086	1.146	0.700	-5.5	25.0
Anthracene	1.057	1.105	0.700	-4.5	25.0
Carbazole	0.459	0.483		-5.2	
Di-n-Butylphthalate	1.366	1.551		-13.5	
Fluoranthene	1.037	1.118	0.600	-7.8	25.0
Pyrene	1.748	2.306	0.600	-31.9	25.0
Butylbenzylphthalate	0.890	0.961		-8.0	
3,3'-Dichlorobenzidine	0.126	0.077		38.9	
Benzo(a)Anthracene	1.126	1.297	0.800	-15.2	25.0
Chrysene	1.008	1.158	0.700	-14.9	25.0
bis(2-Ethylhexyl)Phthalate	1.180	1.227		-4.0	
Di-n-Octyl Phthalate	2.582	2.740		-6.1	
Benzo(b)Fluoranthene	1.381	1.577	0.700	-14.2	25.0
Benzo(k)Fluoranthene	1.344	1.734	0.700	-29.0	25.0
Benzo(a)Pyrene	1.013	1.204	0.700	-18.8	25.0
Indeno(1,2,3-cd)Pyrene	0.928	1.037	0.500	-11.8	25.0
Dibenz(a,h)Anthracene	0.739	0.832	0.400	-12.6	25.0
Benzo(g,h,i)Perylene	0.773	0.888	0.500	-14.9	25.0
Nitrobenzene-d5	0.401	0.430	0.200	-7.2	25.0
2-Fluorobiphenyl	1.243	1.344	0.700	-8.1	25.0
Terphenyl-d14	1.259	1.715	0.500	-36.2	25.0
Phenol-d5	1.454	1.492	0.800	-2.6	25.0
2-Fluorophenol	1.160	1.242	0.600	-7.1	25.0
2,4,6-Tribromophenol	0.269	0.281		-4.5	
2-Chlorophenol-d4	1.197	1.258	0.800	-5.1	25.0
1,2-Dichlorobenzene-d4	0.850	0.883	0.400	-3.9	25.0

+5
04
06
07
08ASO
08ASD
09

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

1A

DEC
SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

b Name: E & E INC.

Contract:

04

Lab Code: EANDE

Case No.: 9702.426 SAS No.:

SDG No.: 75136

Matrix: (soil/water) SOIL

Lab Sample ID: 75136

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: D7011

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: not dec. 13

Date Analyzed: 10/11/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	11	U
74-83-9	-----Bromomethane	11	U
75-01-4	-----Vinyl Chloride	11	U
75-00-3	-----Chloroethane	11	U
75-09-2	-----Methylene Chloride	11	U
67-64-1	-----Acetone	2	J
75-15-0	-----Carbon Disulfide	11	U
75-35-4	-----1,1-Dichloroethene	11	U
75-34-3	-----1,1-Dichloroethane	11	U
540-59-0	-----1,2-Dichloroethene (total)	11	U
67-66-3	-----Chloroform	11	U
107-06-2	-----1,2-Dichloroethane	11	U
78-93-3	-----2-Butanone	11	U
71-55-6	-----1,1,1-Trichloroethane	11	U
56-23-5	-----Carbon Tetrachloride	11	U
75-27-4	-----Bromodichloromethane	11	U
78-87-5	-----1,2-Dichloropropane	11	U
10061-01-5	-----cis-1,3-Dichloropropene	11	U
79-01-6	-----Trichloroethene	11	U
124-48-1	-----Dibromochloromethane	11	U
79-00-5	-----1,1,2-Trichloroethane	11	U
71-43-2	-----Benzene	11	U
10061-02-6	-----trans-1,3-Dichloropropene	11	U
75-25-2	-----Bromoform	11	U
108-10-1	-----4-Methyl-2-Pentanone	11	U
591-78-6	-----2-Hexanone	11	U
127-18-4	-----Tetrachloroethene	11	U
79-34-5	-----1,1,2,2-Tetrachloroethane	11	U
108-88-3	-----Toluene	11	U
108-90-7	-----Chlorobenzene	11	U
100-41-4	-----Ethylbenzene	11	U
100-42-5	-----Styrene	11	U
1330-20-7	-----Xylene (total)	11	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

06

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.426 SAS No.:

SDG No.: 75136

Matrix: (soil/water) SOIL

Lab Sample ID: 75137

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: D6996

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: not dec. 12

Date Analyzed: 10/10/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	11	U
74-83-9	-----Bromomethane	11	U
75-01-4	-----Vinyl Chloride	11	U
75-00-3	-----Chloroethane	11	U
75-09-2	-----Methylene Chloride	11	U
67-64-1	-----Acetone	10	BJ
75-15-0	-----Carbon Disulfide	11	U
75-35-4	-----1,1-Dichloroethene	11	U
75-34-3	-----1,1-Dichloroethane	11	U
540-59-0	-----1,2-Dichloroethene (total)	11	U
67-66-3	-----Chloroform	11	U
107-06-2	-----1,2-Dichloroethane	11	U
78-93-3	-----2-Butanone	11	U
71-55-6	-----1,1,1-Trichloroethane	11	U
56-23-5	-----Carbon Tetrachloride	11	U
75-27-4	-----Bromodichloromethane	11	U
78-87-5	-----1,2-Dichloropropane	11	U
10061-01-5	-----cis-1,3-Dichloropropene	11	U
79-01-6	-----Trichloroethene	11	U
124-48-1	-----Dibromochloromethane	11	U
79-00-5	-----1,1,2-Trichloroethane	11	U
71-43-2	-----Benzene	11	U
10061-02-6	-----trans-1,3-Dichloropropene	11	U
75-25-2	-----Bromoform	11	U
108-10-1	-----4-Methyl-2-Pentanone	11	U
591-78-6	-----2-Hexanone	11	U
127-18-4	-----Tetrachloroethene	11	U
79-34-5	-----1,1,2,2-Tetrachloroethane	11	U
108-88-3	-----Toluene	11	U
108-90-7	-----Chlorobenzene	11	U
100-41-4	-----Ethylbenzene	11	U
100-42-5	-----Styrene	11	U
1330-20-7	-----Xylene (total)	11	U

11 B

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

07

Lab Name: E & E INC. Contract:
 Lab Code: EANDE Case No.: 9702.426 SAS No.: SDG No.: 75136
 Matrix: (soil/water) SOIL Lab Sample ID: 75138
 Sample wt/vol: 5.0 (g/mL) G Lab File ID: D6997
 Level: (low/med) LOW Date Received: 10/06/97
 % Moisture: not dec. 28 Date Analyzed: 10/10/97
 GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3-----	Chloromethane	14	U
74-83-9-----	Bromomethane	14	U
75-01-4-----	Vinyl Chloride	14	U
75-00-3-----	Chloroethane	14	U
75-09-2-----	Methylene Chloride	14	U
67-64-1-----	Acetone	8	BJ
75-15-0-----	Carbon Disulfide	14	U
75-35-4-----	1,1-Dichloroethene	14	U
75-34-3-----	1,1-Dichloroethane	14	U
540-59-0-----	1,2-Dichloroethene (total)	14	U
67-66-3-----	Chloroform	14	U
107-06-2-----	1,2-Dichloroethane	14	U
78-93-3-----	2-Butanone	14	U
71-55-6-----	1,1,1-Trichloroethane	14	U
56-23-5-----	Carbon Tetrachloride	14	U
75-27-4-----	Bromodichloromethane	14	U
78-87-5-----	1,2-Dichloropropane	14	U
10061-01-5-----	cis-1,3-Dichloropropene	14	U
79-01-6-----	Trichloroethene	14	U
124-48-1-----	Dibromochloromethane	14	U
79-00-5-----	1,1,2-Trichloroethane	14	U
71-43-2-----	Benzene	14	U
10061-02-6-----	trans-1,3-Dichloropropene	14	U
75-25-2-----	Bromoform	14	U
108-10-1-----	4-Methyl-2-Pentanone	14	U
591-78-6-----	2-Hexanone	14	U
127-18-4-----	Tetrachloroethene	14	U
79-34-5-----	1,1,2,2-Tetrachloroethane	14	U
108-88-3-----	Toluene	14	U
108-90-7-----	Chlorobenzene	14	U
100-41-4-----	Ethylbenzene	14	U
100-42-5-----	Styrene	14	U
1330-20-7-----	Xylene (total)	14	U

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

08ASO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.426 SAS No.:

SDG No.: 75136

Matrix: (soil/water) SOIL

Lab Sample ID: 75139

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: D6998

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: not dec. 15

Date Analyzed: 10/10/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	12	U
74-83-9	-----Bromomethane	12	U
75-01-4	-----Vinyl Chloride	12	U
75-00-3	-----Chloroethane	12	U
75-09-2	-----Methylene Chloride	12	U
67-64-1	-----Acetone	7	BJ
75-15-0	-----Carbon Disulfide	12	U
75-35-4	-----1,1-Dichloroethene	12	U
75-34-3	-----1,1-Dichloroethane	12	U
540-59-0	-----1,2-Dichloroethene (total)	12	U
67-66-3	-----Chloroform	12	U
107-06-2	-----1,2-Dichloroethane	12	U
78-93-3	-----2-Butanone	12	U
71-55-6	-----1,1,1-Trichloroethane	12	U
56-23-5	-----Carbon Tetrachloride	12	U
75-27-4	-----Bromodichloromethane	12	U
78-87-5	-----1,2-Dichloropropane	12	U
10061-01-5	-----cis-1,3-Dichloropropene	12	U
79-01-6	-----Trichloroethene	12	U
124-48-1	-----Dibromochloromethane	12	U
79-00-5	-----1,1,2-Trichloroethane	12	U
71-43-2	-----Benzene	12	U
10061-02-6	-----trans-1,3-Dichloropropene	12	U
75-25-2	-----Bromoform	12	U
108-10-1	-----4-Methyl-2-Pentanone	12	U
591-78-6	-----2-Hexanone	12	U
127-18-4	-----Tetrachloroethene	12	U
79-34-5	-----1,1,2,2-Tetrachloroethane	12	U
108-88-3	-----Toluene	12	U
108-90-7	-----Chlorobenzene	12	U
100-41-4	-----Ethylbenzene	12	U
100-42-5	-----Styrene	12	U
1330-20-7	-----Xylene (total)	12	U

12B

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

08ASD

o Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.426 SAS No.:

SDG No.: 75136

Matrix: (soil/water) SOIL

Lab Sample ID: 75140

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: F2057

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: not dec. 15

Date Analyzed: 10/13/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3-----	Chloromethane	12	U
74-83-9-----	Bromomethane	12	U
75-01-4-----	Vinyl Chloride	12	U
75-00-3-----	Chloroethane	12	U
75-09-2-----	Methylene Chloride	12	U
67-64-1-----	Acetone	5	BJ
75-15-0-----	Carbon Disulfide	12	U
75-35-4-----	1,1-Dichloroethene	12	U
75-34-3-----	1,1-Dichloroethane	12	U
540-59-0-----	1,2-Dichloroethene (total)	12	U
67-66-3-----	Chloroform	12	U
107-06-2-----	1,2-Dichloroethane	12	U
78-93-3-----	2-Butanone	12	U
71-55-6-----	1,1,1-Trichloroethane	12	U
56-23-5-----	Carbon Tetrachloride	12	U
75-27-4-----	Bromodichloromethane	12	U
78-87-5-----	1,2-Dichloropropane	12	U
10061-01-5-----	cis-1,3-Dichloropropene	12	U
79-01-6-----	Trichloroethene	12	U
124-48-1-----	Dibromochloromethane	12	U
79-00-5-----	1,1,2-Trichloroethane	12	U
71-43-2-----	Benzene	12	U
10061-02-6-----	trans-1,3-Dichloropropene	12	U
75-25-2-----	Bromoform	12	U
108-10-1-----	4-Methyl-2-Pentanone	12	U
591-78-6-----	2-Hexanone	12	U
127-18-4-----	Tetrachloroethene	12	U
79-34-5-----	1,1,2,2-Tetrachloroethane	12	U
108-88-3-----	Toluene	12	U
108-90-7-----	Chlorobenzene	12	U
100-41-4-----	Ethylbenzene	12	U
100-42-5-----	Styrene	12	U
1330-20-7-----	Xylene (total)	12	U

12B

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

09

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.426 SAS No.:

SDG No.: 75136

Matrix: (soil/water) SOIL

Lab Sample ID: 75141

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: F2058

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: not dec. 21

Date Analyzed: 10/13/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3-----	Chloromethane	13	U
74-83-9-----	Bromomethane	13	U
75-01-4-----	Vinyl Chloride	13	U
75-00-3-----	Chloroethane	13	U
75-09-2-----	Methylene Chloride	13	U
67-64-1-----	Acetone	13	U
75-15-0-----	Carbon Disulfide	13	U
75-35-4-----	1,1-Dichloroethene	13	U
75-34-3-----	1,1-Dichloroethane	13	U
540-59-0-----	1,2-Dichloroethene (total)	13	U
67-66-3-----	Chloroform	13	U
107-06-2-----	1,2-Dichloroethane	13	U
78-93-3-----	2-Butanone	13	U
71-55-6-----	1,1,1-Trichloroethane	13	U
56-23-5-----	Carbon Tetrachloride	13	U
75-27-4-----	Bromodichloromethane	13	U
78-87-5-----	1,2-Dichloropropane	13	U
10061-01-5-----	cis-1,3-Dichloropropene	13	U
79-01-6-----	Trichloroethene	13	U
124-48-1-----	Dibromochloromethane	13	U
79-00-5-----	1,1,2-Trichloroethane	13	U
71-43-2-----	Benzene	13	U
10061-02-6-----	trans-1,3-Dichloropropene	13	U
75-25-2-----	Bromoform	13	U
108-10-1-----	4-Methyl-2-Pentanone	13	U
591-78-6-----	2-Hexanone	13	U
127-18-4-----	Tetrachloroethene	13	U
79-34-5-----	1,1,2,2-Tetrachloroethane	13	U
108-88-3-----	Toluene	13	U
108-90-7-----	Chlorobenzene	13	U
100-41-4-----	Ethylbenzene	13	U
100-42-5-----	Styrene	13	U
1330-20-7-----	Xylene (total)	13	U

FORM I VOA

10/95

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

04

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.426 SAS No.:

SDG No.: 75136

Matrix: (soil/water) SOIL

Lab Sample ID: 75136

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: B5274

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 13 decanted: (Y/N) N

Date Extracted: 10/09/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/24/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.1

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

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	380	U
111-44-4-----	bis(2-Chloroethyl) Ether	380	U
95-57-8-----	2-Chlorophenol	380	U
541-73-1-----	1,3-Dichlorobenzene	380	U
106-46-7-----	1,4-Dichlorobenzene	380	U
95-50-1-----	1,2-Dichlorobenzene	380	U
95-48-7-----	2-Methylphenol	380	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5-----	4-Methylphenol	380	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	380	U
67-72-1-----	Hexachloroethane	380	U
98-95-3-----	Nitrobenzene	380	U
78-59-1-----	Isophorone	380	U
88-75-5-----	2-Nitrophenol	380	U
105-67-9-----	2,4-Dimethylphenol	380	U
111-91-1-----	bis(2-Chloroethoxy) Methane	380	U
120-83-2-----	2,4-Dichlorophenol	380	U
120-82-1-----	1,2,4-Trichlorobenzene	380	U
91-20-3-----	Naphthalene	380	U
106-47-8-----	4-Chloroaniline	380	U
87-68-3-----	Hexachlorobutadiene	380	U
59-50-7-----	4-Chloro-3-Methylphenol	380	U
91-57-6-----	2-Methylnaphthalene	380	U
77-47-4-----	Hexachlorocyclopentadiene	380	U
88-06-2-----	2,4,6-Trichlorophenol	380	U
95-95-4-----	2,4,5-Trichlorophenol	920	U
91-58-7-----	2-Chloronaphthalene	380	U
88-74-4-----	2-Nitroaniline	920	U
131-11-3-----	Dimethylphthalate	380	U
208-96-8-----	Acenaphthylene	380	U
606-20-2-----	2,6-Dinitrotoluene	380	U
99-09-2-----	3-Nitroaniline	920	U
83-32-9-----	Acenaphthene	380	U
51-28-5-----	2,4-Dinitrophenol	920	U
100-02-7-----	4-Nitrophenol	920	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

04

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.426 SAS No.:

SDG No.: 75136

Matrix: (soil/water) SOIL

Lab Sample ID: 75136

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: B5274

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 13 decanted: (Y/N) N

Date Extracted: 10/09/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/24/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 8.1

CONCENTRATION UNITS:

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

Q

CAS NO.

COMPOUND

132-64-9-----	Dibenzofuran	380	U
121-14-2-----	2,4-Dinitrotoluene	380	U
84-66-2-----	Diethylphthalate	380	U
7005-72-3-----	4-Chlorophenyl-phenylether	380	U
86-73-7-----	Fluorene	380	U
100-01-6-----	4-Nitroaniline	920	U
534-52-1-----	4,6-Dinitro-2-methylphenol	920	U
86-30-6-----	N-Nitrosodiphenylamine (1)	380	U
101-55-3-----	4-Bromophenyl-phenylether	380	U
118-74-1-----	Hexachlorobenzene	380	U
87-86-5-----	Pentachlorophenol	920	U
85-01-8-----	Phenanthrene	140	J
120-12-7-----	Anthracene	380	U
86-74-8-----	Carbazole	380	U
84-74-2-----	Di-n-Butylphthalate	380	U
206-44-0-----	Fluoranthene	240	J
129-00-0-----	Pyrene	240	J
85-68-7-----	Butylbenzylphthalate	380	U
91-94-1-----	3,3'-Dichlorobenzidine	380	U
56-55-3-----	Benzo(a)Anthracene	130	J
218-01-9-----	Chrysene	150	J
117-81-7-----	bis(2-Ethylhexyl)Phthalate	380	U
117-84-0-----	Di-n-Octyl Phthalate	380	U
205-99-2-----	Benzo(b)Fluoranthene	120	J
207-08-9-----	Benzo(k)Fluoranthene	79	J
50-32-8-----	Benzo(a)Pyrene	99	J
193-39-5-----	Indeno(1,2,3-cd)Pyrene	70	J
53-70-3-----	Dibenz(a,h)Anthracene	380	U
191-24-2-----	Benzo(g,h,i)Perylene	72	J

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

04

Client Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.426 SAS No.:

SDG No.: 75136

Matrix: (soil/water) SOIL

Lab Sample ID: 75136

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: B5274

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 13 decanted: (Y/N) N

Date Extracted: 10/09/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/24/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 8.1

Number TICs found: 6

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.	Unknown oxygenated hydrocarb	14.09	77	J
2.	Unknown	25.24	110	BJ
3.	Unknown PAH	26.70	91	J
4.	Unknown PAH	34.41	140	J
5.	Unknown PAH	37.29	200	J
6.	Unknown	45.62	85	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

06

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.426 SAS No.:

SDG No.: 75136

Matrix: (soil/water) SOIL

Lab Sample ID: 75137

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: B5275

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 10/09/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/24/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 8.0

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

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	370	U
111-44-4-----	bis(2-Chloroethyl)Ether	370	U
95-57-8-----	2-Chlorophenol	370	U
541-73-1-----	1,3-Dichlorobenzene	370	U
106-46-7-----	1,4-Dichlorobenzene	370	U
95-50-1-----	1,2-Dichlorobenzene	370	U
95-48-7-----	2-Methylphenol	370	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	370	U
106-44-5-----	4-Methylphenol	370	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	370	U
67-72-1-----	Hexachloroethane	370	U
98-95-3-----	Nitrobenzene	370	U
78-59-1-----	Isophorone	370	U
88-75-5-----	2-Nitrophenol	370	U
105-67-9-----	2,4-Dimethylphenol	370	U
111-91-1-----	bis(2-Chloroethoxy)Methane	370	U
120-83-2-----	2,4-Dichlorophenol	370	U
120-82-1-----	1,2,4-Trichlorobenzene	370	U
91-20-3-----	Naphthalene	370	U
106-47-8-----	4-Chloroaniline	370	U
87-68-3-----	Hexachlorobutadiene	370	U
59-50-7-----	4-Chloro-3-Methylphenol	370	U
91-57-6-----	2-Methylnaphthalene	370	U
77-47-4-----	Hexachlorocyclopentadiene	370	U
88-06-2-----	2,4,6-Trichlorophenol	370	U
95-95-4-----	2,4,5-Trichlorophenol	910	U
91-58-7-----	2-Chloronaphthalene	370	U
88-74-4-----	2-Nitroaniline	910	U
131-11-3-----	Dimethylphthalate	370	U
208-96-8-----	Acenaphthylene	370	U
606-20-2-----	2,6-Dinitrotoluene	370	U
99-09-2-----	3-Nitroaniline	910	U
83-32-9-----	Acenaphthene	370	U
51-28-5-----	2,4-Dinitrophenol	910	U
100-02-7-----	4-Nitrophenol	910	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

06

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.426 SAS No.:

SDG No.: 75136

Matrix: (soil/water) SOIL

Lab Sample ID: 75137

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: B5275

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 10/09/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/24/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0

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

CAS NO. COMPOUND Q

132-64-9-----	Dibenzofuran	370	U
121-14-2-----	2,4-Dinitrotoluene	370	U
84-66-2-----	Diethylphthalate	370	U
7005-72-3-----	4-Chlorophenyl-phenylether	370	U
86-73-7-----	Fluorene	370	U
100-01-6-----	4-Nitroaniline	910	U
534-52-1-----	4,6-Dinitro-2-methylphenol	910	U
86-30-6-----	N-Nitrosodiphenylamine (1)	370	U
101-55-3-----	4-Bromophenyl-phenylether	370	U
118-74-1-----	Hexachlorobenzene	370	U
87-86-5-----	Pentachlorophenol	910	U
85-01-8-----	Phenanthrene	430	
120-12-7-----	Anthracene	93	J
86-74-8-----	Carbazole	370	U
84-74-2-----	Di-n-Butylphthalate	370	U
206-44-0-----	Fluoranthene	1000	
129-00-0-----	Pyrene	1100	
85-68-7-----	Butylbenzylphthalate	45	J
91-94-1-----	3,3'-Dichlorobenzidine	370	U
56-55-3-----	Benzo (a) Anthracene	560	
218-01-9-----	Chrysene	620	
117-81-7-----	bis(2-Ethylhexyl) Phthalate	44	BJ
117-84-0-----	Di-n-Octyl Phthalate	370	U
205-99-2-----	Benzo (b) Fluoranthene	420	
207-08-9-----	Benzo (k) Fluoranthene	350	J
50-32-8-----	Benzo (a) Pyrene	410	
193-39-5-----	Indeno (1,2,3-cd) Pyrene	300	J
53-70-3-----	Dibenz (a,h) Anthracene	170	J
191-24-2-----	Benzo (g,h,i) Perylene	290	J

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

06

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.426 SAS No.:

SDG No.: 75136

Matrix: (soil/water) SOIL

Lab Sample ID: 75137

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: B5275

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 10/09/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/24/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 8.0

Number TICs found: 6

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	25.26	210	BJ
2.	Unknown PAH	26.34	110	J
3.	Unknown PAH	26.42	130	J
4.	Unknown PAH	26.70	570	J
5.	Unknown PAH	27.31	460	J
6.	Unknown PAH	28.15	230	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

07

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.426 SAS No.:

SDG No.: 75136

Matrix: (soil/water) SOIL

Lab Sample ID: 75138

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: B5276

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 28 decanted: (Y/N) N

Date Extracted: 10/09/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/24/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

108-95-2-----	Phenol	460	U
111-44-4-----	bis(2-Chloroethyl) Ether	460	U
95-57-8-----	2-Chlorophenol	460	U
541-73-1-----	1,3-Dichlorobenzene	460	U
106-46-7-----	1,4-Dichlorobenzene	460	U
95-50-1-----	1,2-Dichlorobenzene	460	U
95-48-7-----	2-Methylphenol	460	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	460	U
106-44-5-----	4-Methylphenol	460	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	460	U
67-72-1-----	Hexachloroethane	460	U
98-95-3-----	Nitrobenzene	460	U
78-59-1-----	Isophorone	460	U
88-75-5-----	2-Nitrophenol	460	U
105-67-9-----	2,4-Dimethylphenol	460	U
111-91-1-----	bis(2-Chloroethoxy)Methane	460	U
120-83-2-----	2,4-Dichlorophenol	460	U
120-82-1-----	1,2,4-Trichlorobenzene	460	U
91-20-3-----	Naphthalene	460	U
106-47-8-----	4-Chloroaniline	460	U
87-68-3-----	Hexachlorobutadiene	460	U
59-50-7-----	4-Chloro-3-Methylphenol	460	U
91-57-6-----	2-Methylnaphthalene	460	U
77-47-4-----	Hexachlorocyclopentadiene	460	U
88-06-2-----	2,4,6-Trichlorophenol	460	U
95-95-4-----	2,4,5-Trichlorophenol	1100	U
91-58-7-----	2-Chloronaphthalene	460	U
88-74-4-----	2-Nitroaniline	1100	U
131-11-3-----	Dimethylphthalate	460	U
208-96-8-----	Acenaphthylene	460	U
606-20-2-----	2,6-Dinitrotoluene	460	U
99-09-2-----	3-Nitroaniline	1100	U
83-32-9-----	Acenaphthene	460	U
51-28-5-----	2,4-Dinitrophenol	1100	U
100-02-7-----	4-Nitrophenol	1100	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

07

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.426 SAS No.:

SDG No.: 75136

Matrix: (soil/water) SOIL

Lab Sample ID: 75138

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: B5276

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 28 decanted: (Y/N) N

Date Extracted: 10/09/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/24/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

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

CAS NO.

COMPOUND

Q

132-64-9-----	Dibenzofuran	460	U
121-14-2-----	2,4-Dinitrotoluene	460	U
84-66-2-----	Diethylphthalate	460	U
7005-72-3-----	4-Chlorophenyl-phenylether	460	U
86-73-7-----	Fluorene	460	U
100-01-6-----	4-Nitroaniline	1100	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1100	U
86-30-6-----	N-Nitrosodiphenylamine (1)	460	U
101-55-3-----	4-Bromophenyl-phenylether	460	U
118-74-1-----	Hexachlorobenzene	460	U
87-86-5-----	Pentachlorophenol	1100	U
85-01-8-----	Phenanthrene	460	U
120-12-7-----	Anthracene	460	U
86-74-8-----	Carbazole	460	U
84-74-2-----	Di-n-Butylphthalate	460	U
206-44-0-----	Fluoranthene	460	U
129-00-0-----	Pyrene	460	U
85-68-7-----	Butylbenzylphthalate	460	U
91-94-1-----	3,3'-Dichlorobenzidine	460	U
56-55-3-----	Benzo(a)Anthracene	460	U
218-01-9-----	Chrysene	460	U
117-81-7-----	bis(2-Ethylhexyl)Phthalate	460	U
117-84-0-----	Di-n-Octyl Phthalate	460	U
205-99-2-----	Benzo(b)Fluoranthene	460	U
207-08-9-----	Benzo(k)Fluoranthene	460	U
50-32-8-----	Benzo(a)Pyrene	460	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	460	U
53-70-3-----	Dibenz(a,h)Anthracene	460	U
191-24-2-----	Benzo(g,h,i)Perylene	460	U

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

08ASO

Co Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.426 SAS No.:

SDG No.: 75136

Matrix: (soil/water) SOIL

Lab Sample ID: 75139

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: B5277

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 15 decanted: (Y/N) N

Date Extracted: 10/09/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/24/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

108-95-2-----	Phenol	390	U
111-44-4-----	bis(2-Chloroethyl)Ether	390	U
95-57-8-----	2-Chlorophenol	390	U
541-73-1-----	1,3-Dichlorobenzene	390	U
106-46-7-----	1,4-Dichlorobenzene	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	390	U
67-72-1-----	Hexachloroethane	390	U
98-95-3-----	Nitrobenzene	390	U
78-59-1-----	Isophorone	390	U
88-75-5-----	2-Nitrophenol	390	U
105-67-9-----	2,4-Dimethylphenol	390	U
111-91-1-----	bis(2-Chloroethoxy)Methane	390	U
120-83-2-----	2,4-Dichlorophenol	390	U
120-82-1-----	1,2,4-Trichlorobenzene	390	U
91-20-3-----	Naphthalene	390	U
106-47-8-----	4-Chloroaniline	390	U
87-68-3-----	Hexachlorobutadiene	390	U
59-50-7-----	4-Chloro-3-Methylphenol	390	U
91-57-6-----	2-Methylnaphthalene	390	U
77-47-4-----	Hexachlorocyclopentadiene	390	U
88-06-2-----	2,4,6-Trichlorophenol	390	U
95-95-4-----	2,4,5-Trichlorophenol	940	U
91-58-7-----	2-Chloronaphthalene	390	U
88-74-4-----	2-Nitroaniline	940	U
131-11-3-----	Dimethylphthalate	390	U
208-96-8-----	Acenaphthylene	390	U
606-20-2-----	2,6-Dinitrotoluene	390	U
99-09-2-----	3-Nitroaniline	940	U
83-32-9-----	Acenaphthene	390	U
51-28-5-----	2,4-Dinitrophenol	940	U
100-02-7-----	4-Nitrophenol	940	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

08ASO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.426 SAS No.:

SDG No.: 75136

Matrix: (soil/water) SOIL

Lab Sample ID: 75139

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: B5277

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 15 decanted: (Y/N) N

Date Extracted: 10/09/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/24/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9

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

CAS NO.

COMPOUND

Q

132-64-9-----	Dibenzofuran	390	U
121-14-2-----	2,4-Dinitrotoluene	390	U
84-66-2-----	Diethylphthalate	390	U
7005-72-3-----	4-Chlorophenyl-phenylether	390	U
86-73-7-----	Fluorene	390	U
100-01-6-----	4-Nitroaniline	940	U
534-52-1-----	4,6-Dinitro-2-methylphenol	940	U
86-30-6-----	N-Nitrosodiphenylamine (1)	390	U
101-55-3-----	4-Bromophenyl-phenylether	390	U
118-74-1-----	Hexachlorobenzene	390	U
87-86-5-----	Pentachlorophenol	940	U
85-01-8-----	Phenanthrene	120	J
120-12-7-----	Anthracene	390	U
86-74-8-----	Carbazole	390	U
84-74-2-----	Di-n-Butylphthalate	390	U
206-44-0-----	Fluoranthene	170	J
129-00-0-----	Pyrene	190	J
85-68-7-----	Butylbenzylphthalate	390	U
91-94-1-----	3,3'-Dichlorobenzidine	390	U
56-55-3-----	Benzo (a) Anthracene	100	J
218-01-9-----	Chrysene	130	J
117-81-7-----	bis(2-Ethylhexyl) Phthalate	90	BJ
117-84-0-----	Di-n-Octyl Phthalate	390	U
205-99-2-----	Benzo (b) Fluoranthene	76	J
207-08-9-----	Benzo (k) Fluoranthene	92	J
50-32-8-----	Benzo (a) Pyrene	390	U
193-39-5-----	Indeno (1,2,3-cd) Pyrene	63	J
53-70-3-----	Dibenz (a,h) Anthracene	390	U
191-24-2-----	Benzo (g,h,i) Perylene	69	J

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

08ASO

Company Name: E & E INC.

Contract:

Lab Code: EAND E

Case No.: 9702.426 SAS No.:

SDG No.: 75136

Matrix: (soil/water) SOIL

Lab Sample ID: 75139

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: B5277

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 15 decanted: (Y/N) N

Date Extracted: 10/09/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/24/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.9

Number TICs found: 6

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 544-63-8	Tetradecanoic acid	24.04	140	JN
2.	Unknown	25.26	230	BJ
3.	Unknown carboxylic acid	25.44	120	J
4.	Unknown oxygenated hydrocarb	26.54	190	J
5. 57-10-3	Hexadecanoic acid	26.80	550	JN
6.	Unknown oxygenated hydrocarb	36.23	490	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

08ASD

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.426 SAS No.:

SDG No.: 75136

Matrix: (soil/water) SOIL

Lab Sample ID: 75140

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: B5278

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 15 decanted: (Y/N) N

Date Extracted: 10/09/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/24/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.7

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

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	390	U
111-44-4-----	bis(2-Chloroethyl) Ether	390	U
95-57-8-----	2-Chlorophenol	390	U
541-73-1-----	1,3-Dichlorobenzene	390	U
106-46-7-----	1,4-Dichlorobenzene	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	390	U
67-72-1-----	Hexachloroethane	390	U
98-95-3-----	Nitrobenzene	390	U
78-59-1-----	Isophorone	390	U
88-75-5-----	2-Nitrophenol	390	U
105-67-9-----	2,4-Dimethylphenol	390	U
111-91-1-----	bis(2-Chloroethoxy) Methane	390	U
120-83-2-----	2,4-Dichlorophenol	390	U
120-82-1-----	1,2,4-Trichlorobenzene	390	U
91-20-3-----	Naphthalene	390	U
106-47-8-----	4-Chloroaniline	390	U
87-68-3-----	Hexachlorobutadiene	390	U
59-50-7-----	4-Chloro-3-Methylphenol	390	U
91-57-6-----	2-Methylnaphthalene	390	U
77-47-4-----	Hexachlorocyclopentadiene	390	U
88-06-2-----	2,4,6-Trichlorophenol	390	U
95-95-4-----	2,4,5-Trichlorophenol	940	U
91-58-7-----	2-Chloronaphthalene	390	U
88-74-4-----	2-Nitroaniline	940	U
131-11-3-----	Dimethylphthalate	390	U
208-96-8-----	Acenaphthylene	390	U
606-20-2-----	2,6-Dinitrotoluene	390	U
99-09-2-----	3-Nitroaniline	940	U
83-32-9-----	Acenaphthene	390	U
51-28-5-----	2,4-Dinitrophenol	940	U
100-02-7-----	4-Nitrophenol	940	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

08ASD

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.426 SAS No.:

SDG No.: 75136

Matrix: (soil/water) SOIL

Lab Sample ID: 75140

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: B5278

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 15 decanted: (Y/N) N

Date Extracted: 10/09/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/24/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

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

CAS NO.

COMPOUND

Q

132-64-9-----	Dibenzofuran		390	U
121-14-2-----	2,4-Dinitrotoluene		390	U
84-66-2-----	Diethylphthalate		390	U
7005-72-3-----	4-Chlorophenyl-phenylether		390	U
86-73-7-----	Fluorene		390	U
100-01-6-----	4-Nitroaniline		940	U
534-52-1-----	4,6-Dinitro-2-methylphenol		940	U
86-30-6-----	N-Nitrosodiphenylamine (1)		390	U
101-55-3-----	4-Bromophenyl-phenylether		390	U
118-74-1-----	Hexachlorobenzene		390	U
87-86-5-----	Pentachlorophenol		940	U
85-01-8-----	Phenanthrene	20.2	98	J
120-12-7-----	Anthracene		390	U
86-74-8-----	Carbazole		390	U
84-74-2-----	Di-n-Butylphthalate		390	U
206-44-0-----	Fluoranthene	6.1	160	J
129-00-0-----	Pyrene	0.0	190	J
85-68-7-----	Butylbenzylphthalate		390	U
91-94-1-----	3,3'-Dichlorobenzidine		390	U
56-55-3-----	Benzo (a) Anthracene	0.0	100	J
218-01-9-----	Chrysene	0.0	130	J
117-81-7-----	bis(2-Ethylhexyl)Phthalate		48	BJ
117-84-0-----	Di-n-Octyl Phthalate		390	U
205-99-2-----	Benzo (b) Fluoranthene	22.3	95	J
207-08-9-----	Benzo (k) Fluoranthene	16.5	78	J
50-32-8-----	Benzo (a) Pyrene	NC	75	J
193-39-5-----	Indeno (1,2,3-cd) Pyrene	1.6	62	J
53-70-3-----	Dibenz (a,h) Anthracene		390	U
191-24-2-----	Benzo (g,h,i) Perylene	9.1	63	J

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

08ASD

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.426 SAS No.:

SDG No.: 75136

Matrix: (soil/water) SOIL

Lab Sample ID: 75140

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: B5278

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 15 decanted: (Y/N) N

Date Extracted: 10/09/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/24/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.7

Number TICs found: 4

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.	Unknown	25.25	270	BJ
2.	Unknown PAH	26.43	100	J
3.	Unknown PAH	26.76	180	J
4.	Unknown oxygenated hydrocarb	36.23	150	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

09

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.426 SAS No.:

SDG No.: 75136

Matrix: (soil/water) SOIL

Lab Sample ID: 75141

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: B5279

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 21 decanted: (Y/N) N

Date Extracted: 10/09/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/24/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.8

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

108-95-2-----	Phenol	420	U
111-44-4-----	bis(2-Chloroethyl)Ether	420	U
95-57-8-----	2-Chlorophenol	420	U
541-73-1-----	1,3-Dichlorobenzene	420	U
106-46-7-----	1,4-Dichlorobenzene	420	U
95-50-1-----	1,2-Dichlorobenzene	420	U
95-48-7-----	2-Methylphenol	420	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	420	U
106-44-5-----	4-Methylphenol	420	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	420	U
67-72-1-----	Hexachloroethane	420	U
98-95-3-----	Nitrobenzene	420	U
78-59-1-----	Isophorone	420	U
88-75-5-----	2-Nitrophenol	420	U
105-67-9-----	2,4-Dimethylphenol	420	U
111-91-1-----	bis(2-Chloroethoxy)Methane	420	U
120-83-2-----	2,4-Dichlorophenol	420	U
120-82-1-----	1,2,4-Trichlorobenzene	420	U
91-20-3-----	Naphthalene	420	U
106-47-8-----	4-Chloroaniline	420	U
87-68-3-----	Hexachlorobutadiene	420	U
59-50-7-----	4-Chloro-3-Methylphenol	420	U
91-57-6-----	2-Methylnaphthalene	420	U
77-47-4-----	Hexachlorocyclopentadiene	420	U
88-06-2-----	2,4,6-Trichlorophenol	420	U
95-95-4-----	2,4,5-Trichlorophenol	1000	U
91-58-7-----	2-Chloronaphthalene	420	U
88-74-4-----	2-Nitroaniline	1000	U
131-11-3-----	Dimethylphthalate	420	U
208-96-8-----	Acenaphthylene	420	U
606-20-2-----	2,6-Dinitrotoluene	420	U
99-09-2-----	3-Nitroaniline	1000	U
83-32-9-----	Acenaphthene	420	U
51-28-5-----	2,4-Dinitrophenol	1000	U
100-02-7-----	4-Nitrophenol	1000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

09

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.426 SAS No.:

SDG No.: 75136

Matrix: (soil/water) SOIL

Lab Sample ID: 75141

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: B5279

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 21 decanted: (Y/N) N

Date Extracted: 10/09/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/24/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

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

CAS NO.

COMPOUND

Q

132-64-9-----	Dibenzofuran	420	U
121-14-2-----	2,4-Dinitrotoluene	420	U
84-66-2-----	Diethylphthalate	420	U
7005-72-3-----	4-Chlorophenyl-phenylether	420	U
86-73-7-----	Fluorene	420	U
100-01-6-----	4-Nitroaniline	1000	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1000	U
86-30-6-----	N-Nitrosodiphenylamine (1)	420	U
101-55-3-----	4-Bromophenyl-phenylether	420	U
118-74-1-----	Hexachlorobenzene	420	U
87-86-5-----	Pentachlorophenol	1000	U
85-01-8-----	Phenanthrene	270	J
120-12-7-----	Anthracene	420	U
86-74-8-----	Carbazole	50	J
84-74-2-----	Di-n-Butylphthalate	52	J
206-44-0-----	Fluoranthene	440	
129-00-0-----	Pyrene	430	
85-68-7-----	Butylbenzylphthalate	420	U
91-94-1-----	3,3'-Dichlorobenzidine	420	U
56-55-3-----	Benzo(a)Anthracene	250	J
218-01-9-----	Chrysene	310	J
117-81-7-----	bis(2-Ethylhexyl)Phthalate	910	B
117-84-0-----	Di-n-Octyl Phthalate	420	U
205-99-2-----	Benzo(b)Fluoranthene	240	J
207-08-9-----	Benzo(k)Fluoranthene	190	J
50-32-8-----	Benzo(a)Pyrene	200	J
193-39-5-----	Indeno(1,2,3-cd)Pyrene	160	J
53-70-3-----	Dibenz(a,h)Anthracene	86	J
191-24-2-----	Benzo(g,h,i)Perylene	150	J

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

09

b Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.426 SAS No.:

SDG No.: 75136

Matrix: (soil/water) SOIL

Lab Sample ID: 75141

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: B5279

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 21 decanted: (Y/N) N

Date Extracted: 10/09/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/24/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.8

Number TICs found: 7

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 544-63-8	Tetradecanoic acid	24.05	210	JN
2.	Unknown	25.27	140	BJ
3.	Hexadecenoic acid isomer	26.55	190	J
4.	Unknown PAH	26.70	200	J
5.	Unknown PAH	27.34	200	J
6.	Unknown oxygenated hydrocarb	29.00	280	J
7.	Unknown oxygenated hydrocarb	36.23	550	J

2F
SOIL PESTICIDE SURROGATE RECOVERY

586

Lab Na & E INC. Contract:
Lab Co ANDE Case No.: 9702.426 SAS No.: SDG No.: 75136
GC Col): RTX-5 ID: 0.53 (mm) GC Column(2): RTX-35 ID: 0.53 (mm)

DEC SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
=====	=====	=====	=====	=====	=====	=====	=====
PBLKS1	123	116	132	127			0
04	555*	124	128	136			1
06	69	32	35	50			0
07	94	101	94	97			0
08	115	125	130	127			0
08D	75	68	85	83			0
09	136	122	150	123			0
MSBS1	109	108	119	116			0

QC LIMITS

TCX = Tetrachloro-m-xylene (30-150)
DCB = Decachlorobiphenyl (30-150)

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

*no qual
necessary*

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

04

b Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.426

SAS No.:

SDG No.: 75136

Matrix: (soil/water) SOIL

Lab Sample ID: 75136

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 13 decanted: (Y/N) N

Date Received: 10/06/97

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/09/97

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/01/97

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y

pH: 8.1

Sulfur Cleanup: (Y/N) Y

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

319-84-6-----	alpha-BHC	2.0	U
319-85-7-----	beta-BHC	2.0	U
319-86-8-----	delta-BHC	2.0	U
58-89-9-----	gamma-BHC (Lindane)	2.0	U
76-44-8-----	Heptachlor	2.0	U
309-00-2-----	Aldrin	2.9	✓
1024-57-3-----	Heptachlor epoxide	2.0	U
959-98-8-----	Endosulfan I	2.0	U
60-57-1-----	Dieldrin	3.8	U
72-55-9-----	4,4'-DDE	3.8	U
72-20-8-----	Endrin	3.8	U
33213-65-9-----	Endosulfan II	3.8	U
72-54-8-----	4,4'-DDD	3.8	U
1031-07-8-----	Endosulfan sulfate	3.8	U
50-29-3-----	4,4'-DDT	3.8	U
72-43-5-----	Methoxychlor	20	U
53494-70-5-----	Endrin ketone	5.0	✓
7421-93-4-----	Endrin aldehyde	3.8	U
5103-71-9-----	alpha-Chlordane	2.0	U
5103-74-2-----	gamma-Chlordane	2.0	U
8001-35-2-----	Toxaphene	200	U
12674-11-2-----	Aroclor-1016	38	U
11104-28-2-----	Aroclor-1221	77	U
11141-16-5-----	Aroclor-1232	38	U
53469-21-9-----	Aroclor-1242	38	U
12672-29-6-----	Aroclor-1248	38	U
11097-69-1-----	Aroclor-1254	38	U
11096-82-5-----	Aroclor-1260	38	U

4

4

FORM I PEST

10/95

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

06

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.426

SAS No.:

SDG No.: 75136

Matrix: (soil/water) SOIL

Lab Sample ID: 75137

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 12 decanted: (Y/N) N

Date Received: 10/06/97

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/09/97

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/01/97

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y

pH: 8.0

Sulfur Cleanup: (Y/N) Y

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

319-84-6-----	alpha-BHC	1.9	U
319-85-7-----	beta-BHC	1.9	U
319-86-8-----	delta-BHC	1.9	U
58-89-9-----	gamma-BHC (Lindane)	1.9	U
76-44-8-----	Heptachlor	1.9	U
309-00-2-----	Aldrin	1.9	U
1024-57-3-----	Heptachlor epoxide	1.9	U
959-98-8-----	Endosulfan I	1.9	U
60-57-1-----	Dieldrin	3.7	U
72-55-9-----	4,4'-DDE	3.7	U
72-20-8-----	Endrin	3.7	U
33213-65-9-----	Endosulfan II	3.7	U
72-54-8-----	4,4'-DDD	3.7	U
1031-07-8-----	Endosulfan sulfate	3.7	U
50-29-3-----	4,4'-DDT	3.7	U
72-43-5-----	Methoxychlor	19	U
53494-70-5-----	Endrin ketone	3.7	U
7421-93-4-----	Endrin aldehyde	3.7	U
5103-71-9-----	alpha-Chlordane	1.9	U
5103-74-2-----	gamma-Chlordane	1.9	U
8001-35-2-----	Toxaphene	190	U
12674-11-2-----	Aroclor-1016	37	U
11104-28-2-----	Aroclor-1221	76	U
11141-16-5-----	Aroclor-1232	37	U
53469-21-9-----	Aroclor-1242	37	U
12672-29-6-----	Aroclor-1248	37	U
11097-69-1-----	Aroclor-1254	37	U
11096-82-5-----	Aroclor-1260	37	U

FORM I PEST

10/95

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

07

b Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.426

SAS No.:

SDG No.: 75136

Matrix: (soil/water) SOIL

Lab Sample ID: 75138

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 28 decanted: (Y/N) N

Date Received: 10/06/97

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/09/97

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/01/97

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.4

Sulfur Cleanup: (Y/N) Y

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

319-84-6-----	alpha-BHC	2.4	U
319-85-7-----	beta-BHC	2.4	U
319-86-8-----	delta-BHC	2.4	U
58-89-9-----	gamma-BHC (Lindane)	2.4	U
76-44-8-----	Heptachlor	2.4	U
309-00-2-----	Aldrin	2.4	U
1024-57-3-----	Heptachlor epoxide	2.4	U
959-98-8-----	Endosulfan I	2.4	U
60-57-1-----	Dieldrin	4.6	U
72-55-9-----	4,4'-DDE	4.6	U
72-20-8-----	Endrin	4.6	U
33213-65-9-----	Endosulfan II	4.6	U
72-54-8-----	4,4'-DDD	4.6	U
1031-07-8-----	Endosulfan sulfate	4.6	U
50-29-3-----	4,4'-DDT	4.6	U
72-43-5-----	Methoxychlor	24	U
53494-70-5-----	Endrin ketone	4.6	U
7421-93-4-----	Endrin aldehyde	4.6	U
5103-71-9-----	alpha-Chlordane	2.4	U
5103-74-2-----	gamma-Chlordane	2.4	U
8001-35-2-----	Toxaphene	240	U
12674-11-2-----	Aroclor-1016	46	U
11104-28-2-----	Aroclor-1221	93	U
11141-16-5-----	Aroclor-1232	46	U
53469-21-9-----	Aroclor-1242	46	U
12672-29-6-----	Aroclor-1248	46	U
11097-69-1-----	Aroclor-1254	46	U
11096-82-5-----	Aroclor-1260	46	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

08

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.426

SAS No.:

SDG No.: 75136

Matrix: (soil/water) SOIL

Lab Sample ID: 75139

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 15 decanted: (Y/N) N

Date Received: 10/06/97

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/09/97

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/01/97

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y

pH: 7.9

Sulfur Cleanup: (Y/N) Y

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

319-84-6-----	alpha-BHC	2.0	U
319-85-7-----	beta-BHC	2.0	U
319-86-8-----	delta-BHC	2.0	U
58-89-9-----	gamma-BHC (Lindane)	2.0	U
76-44-8-----	Heptachlor	2.0	U
309-00-2-----	Aldrin	2.6	U
1024-57-3-----	Heptachlor epoxide	4.0	U
959-98-8-----	Endosulfan I	2.0	U
60-57-1-----	Dieldrin	3.9	U
72-55-9-----	4,4'-DDE	3.9	U
72-20-8-----	Endrin	3.9	U
33213-65-9-----	Endosulfan II	3.9	U
72-54-8-----	4,4'-DDD	3.9	U
1031-07-8-----	Endosulfan sulfate	3.9	U
50-29-3-----	4,4'-DDT	3.9	U
72-43-5-----	Methoxychlor	20	U
53494-70-5-----	Endrin ketone	3.9	U
7421-93-4-----	Endrin aldehyde	3.9	U
5103-71-9-----	alpha-Chlordane	2.0	U
5103-74-2-----	gamma-Chlordane	2.0	U
8001-35-2-----	Toxaphene	200	U
12674-11-2-----	Aroclor-1016	39	U
11104-28-2-----	Aroclor-1221	79	U
11141-16-5-----	Aroclor-1232	39	U
53469-21-9-----	Aroclor-1242	39	U
12672-29-6-----	Aroclor-1248	39	U
11097-69-1-----	Aroclor-1254	39	U
11096-82-5-----	Aroclor-1260	39	U

FORM I PEST

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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

08D

b Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.426

SAS No.:

SDG No.: 75136

Matrix: (soil/water) SOIL

Lab Sample ID: 75140

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 15 decanted: (Y/N) N

Date Received: 10/06/97

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/09/97

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/03/97

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.7

Sulfur Cleanup: (Y/N) Y

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

		RPD	
319-84-6-----	alpha-BHC	2.0	U
319-85-7-----	beta-BHC	2.0	U
319-86-8-----	delta-BHC	2.0	U
58-89-9-----	gamma-BHC (Lindane)	2.0	U
76-44-8-----	Heptachlor	2.0	U
309-00-2-----	Aldrin	2.2	U
1024-57-3-----	Heptachlor epoxide	3.3	U
959-98-8-----	Endosulfan I	2.0	U
60-57-1-----	Dieldrin	3.9	U
72-55-9-----	4,4'-DDE	3.9	U
72-20-8-----	Endrin	3.9	U
33213-65-9-----	Endosulfan II	3.9	U
72-54-8-----	4,4'-DDD	3.9	U
1031-07-8-----	Endosulfan sulfate	3.9	U
50-29-3-----	4,4'-DDT	3.9	U
72-43-5-----	Methoxychlor	20	U
53494-70-5-----	Endrin ketone	3.9	U
7421-93-4-----	Endrin aldehyde	3.9	U
5103-71-9-----	alpha-Chlordane	2.0	U
5103-74-2-----	gamma-Chlordane	2.0	U
8001-35-2-----	Toxaphene	200	U
12674-11-2-----	Aroclor-1016	39	U
11104-28-2-----	Aroclor-1221	79	U
11141-16-5-----	Aroclor-1232	39	U
53469-21-9-----	Aroclor-1242	39	U
12672-29-6-----	Aroclor-1248	39	U
11097-69-1-----	Aroclor-1254	39	U
11096-82-5-----	Aroclor-1260	39	U

FORM I PEST

10/95

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

09

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.426

SAS No.:

SDG No.: 75136

Matrix: (soil/water) SOIL

Lab Sample ID: 75141

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 21 decanted: (Y/N) N

Date Received: 10/06/97

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/09/97

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/03/97

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y

pH: 7.8

Sulfur Cleanup: (Y/N) Y

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

319-84-6-----	alpha-BHC	2.2	U
319-85-7-----	beta-BHC	2.2	U
319-86-8-----	delta-BHC	2.2	U
58-89-9-----	gamma-BHC (Lindane)	2.2	U
76-44-8-----	Heptachlor	2.2	U
309-00-2-----	Aldrin	5.4	U
1024-57-3-----	Heptachlor epoxide	14	
959-98-8-----	Endosulfan I	2.2	U
60-57-1-----	Dieldrin	4.2	U
72-55-9-----	4,4'-DDE	15	
72-20-8-----	Endrin	4.2	U
33213-65-9-----	Endosulfan II	4.2	U
72-54-8-----	4,4'-DDD	4.2	U
1031-07-8-----	Endosulfan sulfate	4.2	U
50-29-3-----	4,4'-DDT	10	
72-43-5-----	Methoxychlor	22	U
53494-70-5-----	Endrin ketone	4.2	U
7421-93-4-----	Endrin aldehyde	4.2	U
5103-71-9-----	alpha-Chlordane	2.2	U
5103-74-2-----	gamma-Chlordane	2.2	U
8001-35-2-----	Toxaphene	220	U
12674-11-2-----	Aroclor-1016	42	U
11104-28-2-----	Aroclor-1221	85	U
11141-16-5-----	Aroclor-1232	42	U
53469-21-9-----	Aroclor-1242	42	U
12672-29-6-----	Aroclor-1248	42	U
11097-69-1-----	Aroclor-1254	42	U
11096-82-5-----	Aroclor-1260	42	U

FORM I PEST

10/95

1
INORGANIC ANALYSES DATA SHEET

04BSO

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

[illegible]

Comments:

CLIENT SAMPLE ID : TTEF-04-BS0100697

1

INORGANIC ANALYSES DATA SHEET

06ASO

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____
Lab Code: EANDE Case No.: 9702.426 SAS No.: _____ SDG No.: 75136
Matrix (soil/water): SOIL Lab Sample ID: 75137
Level (low/med): LOW Date Received: 10/06/97
% Solids: 87.5

[illegible]

Color Before: _____ Clarity Before: _____ Texture: M _____
Color After: Y _____ Clarity After: C _____ Artifacts: _____

CLIENT SAMPLE ID : TTEF-06-ASO100697

1
INORGANIC ANALYSES DATA SHEET

07ASO

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

[illegible]

Color Before: _____ Clarity Before: _____ Texture: H _____
Color After: Y _____ Clarity After: C _____ Artifacts: YES _____

Comments:

CLIENT SAMPLE ID : TTEF-07-ASO100697

1
INORGANIC ANALYSES DATA SHEET

08ASO

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____
Lab Code: EANDE Case No.: 9702.426 SAS No.: _____ SDG No.: 75136
Matrix (soil/water): SOIL Lab Sample ID: 75139
Level (low/med): LOW Date Received: 10/06/97
% Solids: 85.3

[illegible]

Color Before: _____ Clarity Before: _____ Texture: SD _____
Color After: Y _____ Clarity After: C _____ Artifacts: _____

Comments:

CLIENT SAMPLE ID : TTEF-08-ASO100697

1

INORGANIC ANALYSES DATA SHEET

08ASD

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

Color Before: _____ Clarity Before: _____ Texture: CY/SD _____
Color After: Y _____ Clarity After: C _____ Artifacts: _____

CLIENT SAMPLE ID : TTEF-08-ASD100697

1

INORGANIC ANALYSES DATA SHEET

09ASO

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____
Lab Code: EANDE Case No.: 9702.426 SAS No.: _____ SDG No.: 75136
Matrix (soil/water): SOIL Lab Sample ID: 75141
Level (low/med): LOW Date Received: 10/06/97
% Solids: 79.1

[illegible]

Color Before: _____ Clarity Before: _____ Texture: M _____
Color After: Y _____ Clarity After: C _____ Artifacts: YES _____

CLIENT SAMPLE ID : TTEF-09-ASO100697

10/95

**Ecology and Environment, Inc., (E & E)
Data Usability Summary Report (DUSR)**

Prepared by: Liz Gutierrez Page 1

E & E Project #: _____ Date: 12/13/92

Project or Site Name: Brownfield, East Ferry 84-6000 Buffalo 3

Laboratory Name: _____

Laboratory Report #: 9702.014 Report Date: 11/12/92

Date Sample(s) Taken: 10/3/92 Sample Matrix: Soil

Client Sample ID: TTEF 01A30, 02A30, 03A30, 10A30, 11A30, 12A30, 13A30
10S0, 11S0 → 14A0, 15A0

Analytical Parameters: VOC, SVOC, P/Pers, Metals, CN

The DUSR was prepared by reviewing and evaluating the analytical data per the guidelines from the Division of Hazardous Waste Remediation, Revision 11/95. The following checklist has been designed to ensure a thorough and complete review of the analytical results based on the requirements in these guidelines. The analytical results are considered valid and usable for the purposes of this project, with any exceptions addressed in the Data Deficiencies Comments section below.

Data Verification Parameters

- 1) Were statements made in the Analytical Data Case Narrative supported by the analytical data?
- 2) Were all chain of custody records present?
missing cooler receipt form
- 3) Were are chain of custody records completed?
except above
- 4) Were the analysis run as per the method in the work plan?
- 5) Were the required holding times met for all matrices and analytical parameters?
except 75025 RE SUC 17d post HT
- 6) Were samples correctly preserved?
- 7) Was Sample preservation documented?
- 8) Were performance checks within acceptance criteria?
- 9) Were the initial and continuing calibrations performed at the required frequency?

CIRCLE ONE

Yes No NA

Yes No NA

Yes No NA

Yes No NA

☒ Yes ☐ No ☐ NA

Yes No NA

Yes No NA

Yes No NA

☒ Yes ☐ No ☐ NA

Ecology and Environment, Inc., (E & E)
Data Usability Summary Report (DUSR)

Laboratory Report #: 9202.414

Page 2 of 3

Data Verification Parameters

CIRCLE ONE

10) Were the initial and continuing calibrations within the acceptance criteria?	Yes ☒ No ☐ NA ☐
11) No qualification of data was required based on calibration criteria not being met?	Yes ☒ No ☐ NA ☐
12) Were method blanks free of contaminants?	Yes ☒ No ☐ NA ☐
13) Were field blanks free of contaminants?	Yes ☐ No ☐ NA ☒
14) Were system monitoring compounds within the acceptance limits?	Yes ☒ No ☐ NA ☐
15) Were matrix spike/matrix spike duplicates or matrix duplicate (MS/ MSD or D) analyzed at the correct frequency?	☒ Yes ☐ No ☐ NA
16) Did the MS/MSD or MS/D meet the percent recovery (%R) and relative percent difference (RPD) acceptance criteria?	Yes ☒ No ☐ NA ☐
17) Was the laboratory control sample (LCS) and when necessary, the LCS duplicate (LCSD), performed at the required frequency?	☒ Yes ☐ No ☐ NA
18) Did the LCS/LCSD's meet the %R and RPD acceptance criteria?	☒ Yes ☐ No ☐ NA
19) Did internal standards meet the acceptance criteria?	Yes ☒ No ☐ NA ☐
20) Did the results for any field duplicate samples meet expected precision requirements?	Yes ☐ No ☒ NA ☐
21) Were dilutions made appropriately?	☒ Yes ☐ No ☐ NA
22) No discrepancies were noted when the review of raw data (instrument printouts and chromatograms) was performed?	☒ Yes ☐ No ☐ NA
23) No quality control problems were noted in the review of the Field Sampling Notes?	☒ Yes ☐ No ☐ NA
24) No effect on data usability was required based on quality control problems in the field?	☒ Yes ☐ No ☐ NA

Ecology and Environment, Inc., (E & E)
Data Usability Summary Report (DUSR)

Laboratory Report #: 9702-414

Page 3 of 3

If NO to any of the above questions, give further explanation in the Comments section.

Comments: P/PCB - SSEF-10-S0100397 DDD qualified J due to bracketing containing 7257-D, SSEF-14-S0100397 aldren, DDT qualified J due to matrix %R exceedance (low) and 7257-D between GC columns. Samples exhibit heavy matrix and needed dilutions, surrogates are affected by matrix & no qualification was made based on surrogate outliers VOCs Four samples exhibited IS suppression of 2/3 due to matrix - confirmed by re-analysis. Results associated with these ISs were qualified J/UT. Acetone was qualified in samples as IS due to blank contamination & also flagged J due to initial calibration %RSD exceedance (see attached). SVOC Four samples exhibited IS suppression of 5/6 - reanalyses confirmed this was due to matrix interferences. 1350 reextraction was rejected (17 days past HT) qualified associated compounds J/UT. Continuing calibrations out of control (see attached) - qualified positive results only as J. SOLKSI had BIS(24H) phthalate contamination - qualified B < 10X blank value. metals the following elements were qualified J/UT due to QC exceedance Pb (ms), Cu, Mg, Se (dup), and Sb (metal QC).

Arsenic qualified B in some samples due to blank cont.

CN The CCBs that were greater than (CRDL) was not applicable to the analysis of the samples in this job - all bracketing CCBs for this job were < CRDL for CN

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Lab File ID: D6823

BFB Injection Date: 10/04/97

Instrument ID: 7001D

BFB Injection Time: 0952

GC Column: DB-624

ID: 0.530 (mm)

Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	26.4
75	30.0 - 60.0% of mass 95	56.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.8 (1.3)1
174	50.0 - 120.0% of mass 95	67.0
175	5.0 - 9.0% of mass 174	5.4 (8.1)1
176	95.0 - 101.0% of mass 174	63.8 (95.2)1
177	5.0 - 9.0% of mass 176	4.0 (6.3)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	DEC SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	D6824	10/04/97	1014
02	VBLKS1	VBLKS1	D6825	10/04/97	1100
03	VMSBS1	VMSBS1	D6826	10/04/97	1135
04	01	75015	D6835	10/04/97	1702
05	03	75016	D6836	10/04/97	1737
06	05	75017	D6837	10/04/97	1812
07	10AS	75018	D6838	10/04/97	1846
08	11DSO1	75019	D6839	10/04/97	1921
09	11DSD1	75020	D6840	10/04/97	1956
10	12CS	75021	D6841	10/04/97	2030

Initial
acetone

Cont
chloroform

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Lab File ID: D6864

BFB Injection Date: 10/06/97

Instrument ID: 7001D

BFB Injection Time: 0933

GC Column: DB-624

ID: 0.530 (mm)

Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	26.8
75	30.0 - 60.0% of mass 95	59.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.7 (1.2)1
174	50.0 - 120.0% of mass 95	55.4
175	5.0 - 9.0% of mass 174	4.3 (7.7)1
176	95.0 - 101.0% of mass 174	55.3 (99.8)1
177	5.0 - 9.0% of mass 176	4.1 (7.4)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	DEC SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	D6866	10/06/97	1033
02	VBLKS2	VBLKS2	D6867	10/06/97	1108
03	10SO	75022	D6872	10/06/97	1438
04	11SO	75023	D6873	10/06/97	1513
05	12SO	75024	D6874	10/06/97	1548
06	13SO	75025	D6875	10/06/97	1622
07	14	75026	D6876	10/06/97	1657
08	14MS	75026MS	D6877	10/06/97	1748
09	14MSD	75026MSD	D6878	10/06/97	1823

*initial
octane*

*cont
chloroform*

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Lab File ID: D6879

BFB Injection Date: 10/06/97

Instrument ID: 7001D

BFB Injection Time: 1918

GC Column: DB-624

ID: 0.530 (mm)

Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	25.4
75	30.0 - 60.0% of mass 95	56.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	66.4
175	5.0 - 9.0% of mass 174	5.3 (7.9)1
176	95.0 - 101.0% of mass 174	65.4 (98.5)1
177	5.0 - 9.0% of mass 176	4.2 (6.5)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	DEC SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	D6880	10/06/97	1939
02	VBLKS3	VBLKS3	D6881	10/06/97	2025
03	03RE	75016RE	D6887	10/07/97	0011
04	05RE	75017RE	D6888	10/07/97	0046
05	10ASRE	75018RE	D6889	10/07/97	0121
06	11DSO1RE	75019RE	D6890	10/07/97	0155

*In initial
one time*

*Cont
Chloroform
Bromomethane
V. chloroform
one time*

9702.414 VOC

HT OK

Surv all OK

MS/MSD OK

MSB OK

Tune OK

IS suppression;

03	IS 2 + 3	RE	IS 1, 3	establishes matrix
05	IS 2+3	RE	IS 3	interference
10AS	IS 2+3	RE	1, 2, 3	J/us
11DS01	IS 2	RE	1, 2, 3	

TB-5 clean

Holding Blank clean

VBULK1 clean

VBULK1 acetone 8 ug/kg

VBULK2 acetone 10 ug/kg

VBULK3 acetone 9 ug/kg

01	05	11DS01
03	10AS	11DS01
11SO	12SO	14
10SO	13SO	
03RE	10ASRE	
05RE	11DS01RE	

Samples qualified B due to Blank cont -
those below CQL brought to CQL and flagged.

Initial 230? ~~chloroform~~

9/29 9601C OK

cont. OK

J ⊗ only

7001D acetone 46?

cont chloromethane 10/24 1014

10/6 1033 chloromethane

10/6 1939 chloromethane
bromomethane
vinyl chloride
acetone

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Lab File ID: E1109

DFTPP Injection Date: 10/24/97

Instrument ID: 7002E

DFTPP Injection Time: 0746

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	59.8
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	67.2
70	Less than 2.0% of mass 69	0.3 (0.4)1
127	40.0 - 60.0% of mass 198	46.5
197	Less than 1.0% of mass 198	0.2
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	19.9
365	Greater than 1.00% of mass 198	2.06
441	Present, but less than mass 443	8.6
442	40.0 - 110.0% of mass 198	58.9
443	17.0 - 23.0% of mass 442	11.4 (19.3)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	DEC SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	SSTD050	E1110	10/24/97	0808
02	10ASRE	75018RE	E1114	10/24/97	1359
03	10SODL	75022DL	E1115	10/24/97	1453
04	11SODL	75023DL	E1116	10/24/97	1547
05	13SO	75025	E1117	10/24/97	1641
06	13SOMSD	75025MSD	E1118	10/24/97	1735

initiated on

cont

*n.m. 1050 d. n. pro/g. lamine
pyrene
butyl benzyl phthalate
33 d. n. w. is. g. d. n.
bis (2.2.2) ethyl
Dimethyl phthalate
methyl Fluoranthene*

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Lab File ID: E1095

DFTPP Injection Date: 10/23/97

Instrument ID: 7002E

DFTPP Injection Time: 1150

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	53.7
68	Less than 2.0% of mass 69	0.5 (0.8)1
69	Mass 69 relative abundance	64.9
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	43.4
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	19.5
365	Greater than 1.00% of mass 198	1.93
441	Present, but less than mass 443	9.5
442	40.0 - 110.0% of mass 198	63.1
443	17.0 - 23.0% of mass 442	12.7 (20.1)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	DEC SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	SSTD050	E1096	10/23/97	1212
02	05	75017	E1097	10/23/97	1314
03	10AS	75018	E1098	10/23/97	1408
04	11DSO	75019	E1099	10/23/97	1502
05	11DSD	75020	E1100	10/23/97	1556
06	12CS	75021	E1101	10/23/97	1650
07	10SO	75022	E1102	10/23/97	1744
08	11SO	75023	E1103	10/23/97	1837
09	12SO	75024	E1104	10/23/97	1931
10	13SOMS	75025MS	E1105	10/23/97	2025
11	14	75026	E1106	10/23/97	2119
12	01	75015	E1107	10/23/97	2213

initial ok

*cont
analysis done properly
33 backwash*

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Lab File ID: E1079

DFTPP Injection Date: 10/22/97

Instrument ID: 7002E

DFTPP Injection Time: 2002

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	58.3
68	Less than 2.0% of mass 69	0.4 (0.5)1
69	Mass 69 relative abundance	67.1
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	45.6
197	Less than 1.0% of mass 198	0.1
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.4
275	10.0 - 30.0% of mass 198	18.3
365	Greater than 1.00% of mass 198	1.73
441	Present, but less than mass 443	7.6
442	40.0 - 110.0% of mass 198	52.2
443	17.0 - 23.0% of mass 442	9.7 (18.6)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	DEC SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	SSTD050	E1080	10/22/97	2023
02	03	75016	E1091	10/23/97	0638

init
ok

cont
nitro 50 depropylamine
injection
butyl benzyl phosphate
33 dechlorobenzene -63.1
as E101 phosphate
dimethyl phosphate

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Lab File ID: E0929

DFTPP Injection Date: 10/14/97

Instrument ID: 7002E

DFTPP Injection Time: 0955

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	57.3
68	Less than 2.0% of mass 69	0.4 (0.7)1
69	Mass 69 relative abundance	61.0
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	42.7
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	19.1
365	Greater than 1.00% of mass 198	1.68
441	Present, but less than mass 443	8.4
442	40.0 - 110.0% of mass 198	57.4
443	17.0 - 23.0% of mass 442	11.0 (19.2)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	DEC SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	SSTD050	E0930	10/14/97	1049
02	SBLKS1	SBLKS1	E0931	10/14/97	1220
03	SMSBS1	SMSBS1	E0932	10/14/97	1314

Initial
3-methoxyaniline

cont
phenol
2-chlorophenol
4-methoxyaniline
Butylphenyl ether
3,3-dichlorobenzene
hex (200) phenol
Dimethyl ether

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Lab File ID: B5348

DFTPP Injection Date: 10/31/97

Instrument ID: 7002B

DFTPP Injection Time: 0754

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	47.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	55.9
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	43.4
197	Less than 1.0% of mass 198	0.3
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	24.2
365	Greater than 1.00% of mass 198	2.21
441	Present, but less than mass 443	12.8
442	40.0 - 110.0% of mass 198	83.2
443	17.0 - 23.0% of mass 442	16.5 (19.8)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	DEC SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	SSTD050	B5349	10/31/97	0816
02	SBLKS2	SBLKS2	B5351	10/31/97	1048
03	13SORE	75025RE	B5353	10/31/97	1235

in. had ok

Cont

*C46
C56*

*n octadec 2-phenylamine
hexachlorobenzene
carbazole
butyl/benzyl phenylate
bis(2,2,4,4-tetramethyl-5-phenyl-1,3-dioxane)*

SVOC 9702.414

Surv IBN high in 1250/1350 no action
MS/MSD 1350 24 Dinitrotoluene slightly high ^{ms/SD} UCL 897,
124 TCBS slightly high in MS

MSB OK

DETPP OK

IS/RT

10AS Low IS 5/6 RE Low 6 Met substantiated
10SD Low IS 5/6 DL Low 5/6
11SD Low IS 5/6 DL Low 5/6
13SD Low IS 5/6 RE OK out of H# 17 days

5BLKSI Bis(2EH) Phthalate 37 ug/kg

9702.414

12 samples (13 VOCs)

9:30am - 11am
Sampled 10/3/97

COC present - no cooler receipt form

75025 RE SVOC re-ext 17 days post HT

PIPCB

ext 10/7/97

narrative states surr elevated due to matrix

MS/SD many false positives due to matrix

SSE F14-50100392

low Aldrin

high EPD

18/307.R 50? PPD

MSB OK

low DDT

lowms OKSD

high EPD

16/R 55%
PPi

0/0 D in cont (PEM 1ND) out of 25 D

kept epox only

Samples w/ pos. hts:

10501

11DSO

11DSO

13501 (all 4 surr high) DES, 14501 (394 high DES)

Res check OK, PEM S PEMBY alpha -303, 10/30/973 deg. OK

initial calib all < 20% MSD except delta on B side 227

Continuings

INDA MB4

A+B side

0/31

0749

DDO (methoxychlor)

> 25%

INDB MB4

A+B side

10/31

0832

E sulfate

> 25%

INDA MB4 10/31 0749 DDD fine

MBU clean

no qualifiers based on surr - those that are out
are due to matrix or dilution

Ⓟ results of for PDD/methoxychlor result at Ⓟ
due to bracketing, cont calib.

10501 DDD J

14501 aldrin J due to low ms/msD + > 25% D
on scal

DDT J due to low rec in ms.

metals / CN 9702.414

CN HT OK

icu/ccv all 90-107.2

CRDL std. not evaluated

LCS 1 OK

Vanadium LCS 12470

Sbuc

Sbuc (1404)

Sb 1.96

Sb 2.03

As 6.435

As 5.385

Ca 1.815

Ca 1.785

Tl 5.155

Pb 1.77

Zn 10.17

Tl 7.82

ICP uninterpreted ok

MS

Pb 132.67

J ⊕ only post ok

Dup

CN

Mg

Se

Serial

DL

Sb

CN no samples in bracketed CCBs greater than CRDL

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414

SAS No.:

SDG No.: 75015

GC Column(1): RTX-5

ID: 0.53(mm)

GC Column(2): RTX-35

ID: 0.53(mm)

	DEC SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
	=====	=====	=====	=====	=====	=====	=====	=====
01	PBLKS2	110	114	132	132			0
02	PBLKS1	83	86	98	100			0
03	01	492*	112	132	170*			2
04	03	98	189*	173*	239*			3
05	05	480*	116	126	116			1
06	10AS0	16*	18*	112	102			2
07	10S01	64	76	131	442*			1
08	11DS0	84	88	102	115			0
09	11DSD	90	90	100	120			0
10	11S01	40	43	75	82			0
11	12CS0	86	87	99	105			0
12	12S01	83	87	98	108			0
13	13S01	212*	221*	225*	298*			4
14	14S01	702*	142	278*	292*			3
15	MSBS1	84	84	100	98			0
16	14S01MS	168*	60	101	126			1
17	14S01MSD	402*	14*	100	108			2

QC LIMITS

TCX = Tetrachloro-m-xylene (30-150)

DCB = Decachlorobiphenyl (30-150)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

3F
SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414

SAS No.:

SDG No.: 75015

Matrix Spike - DEC Sample No.: 14S01

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
=====	=====	=====	=====	=====	=====
gamma-BHC (Lindane)_____	20.100	0	11.2	56	46-127
Heptachlor_____	20.100	0	15.4	77	35-130
Aldrin_____	20.100	10.7	14.3	18 *	34-132
Dieldrin_____	40.100	0	21.9	55	31-134
Endrin_____	40.100	0	34.3	86	42-139
4,4'-DDT_____	40.100	36.5	43.1	16 *	23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS	
=====	=====	=====	=====	=====	RPD	REC.
gamma-BHC (Lindane)_____	20.100	12.6	63	12	50	46-127
Heptachlor_____	20.100	14.4	72	7	31	35-130
Aldrin_____	20.100	16.8	30 *	50 *	43	34-132
Dieldrin_____	40.100	24.3	61	10	38	31-134
Endrin_____	40.100	39.2	98	13	45	42-139
4,4'-DDT_____	40.100	47.6	28	55 *	50	23-134

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

* Values outside of QC limits

RPD: 2 out of 6 outside limits

Spike Recovery: 3 out of 12 outside limits

COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

01

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75015

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: D6835

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: not dec. 14

Date Analyzed: 10/04/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	12	U
74-83-9	-----Bromomethane	12	U
75-01-4	-----Vinyl Chloride	12	U
75-00-3	-----Chloroethane	12	U
75-09-2	-----Methylene Chloride	12	U
67-64-1	-----Acetone	18	BJ
75-15-0	-----Carbon Disulfide	12	U
75-35-4	-----1,1-Dichloroethene	12	U
75-34-3	-----1,1-Dichloroethane	12	U
540-59-0	-----1,2-Dichloroethene (total)	12	U
67-66-3	-----Chloroform	12	U
107-06-2	-----1,2-Dichloroethane	12	U
78-93-3	-----2-Butanone	12	U
71-55-6	-----1,1,1-Trichloroethane	12	U
56-23-5	-----Carbon Tetrachloride	12	U
75-27-4	-----Bromodichloromethane	12	U
78-87-5	-----1,2-Dichloropropane	12	U
10061-01-5	-----cis-1,3-Dichloropropene	12	U
79-01-6	-----Trichloroethene	12	U
124-48-1	-----Dibromochloromethane	12	U
79-00-5	-----1,1,2-Trichloroethane	12	U
71-43-2	-----Benzene	12	U
10061-02-6	-----trans-1,3-Dichloropropene	12	U
75-25-2	-----Bromoform	12	U
108-10-1	-----4-Methyl-2-Pentanone	12	U
591-78-6	-----2-Hexanone	12	U
127-18-4	-----Tetrachloroethene	12	U
79-34-5	-----1,1,2,2-Tetrachloroethane	12	U
108-88-3	-----Toluene	1	J
108-90-7	-----Chlorobenzene	12	U
100-41-4	-----Ethylbenzene	12	U
100-42-5	-----Styrene	12	U
1330-20-7	-----Xylene (total)	12	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

01

Client Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75015

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: D6835

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: not dec. 14

Date Analyzed: 10/04/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. 138-86-3	Limonene	23.49	11	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

03

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75016

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: D6836

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: not dec. 25

Date Analyzed: 10/04/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3	-----Chloromethane	13	U
74-83-9	-----Bromomethane	13	U
75-01-4	-----Vinyl Chloride	13	U
75-00-3	-----Chloroethane	13	U
75-09-2	-----Methylene Chloride	13	U
67-64-1	-----Acetone	23	BY
75-15-0	-----Carbon Disulfide	13	U
75-35-4	-----1,1-Dichloroethene	13	U
75-34-3	-----1,1-Dichloroethane	13	U
540-59-0	-----1,2-Dichloroethene (total)	13	U
67-66-3	-----Chloroform	13	U
107-06-2	-----1,2-Dichloroethane	13	U
78-93-3	-----2-Butanone	13	U
71-55-6	-----1,1,1-Trichloroethane	13	U
56-23-5	-----Carbon Tetrachloride	13	U
75-27-4	-----Bromodichloromethane	13	U
78-87-5	-----1,2-Dichloropropane	13	U
10061-01-5	-----cis-1,3-Dichloropropene	13	U
79-01-6	-----Trichloroethene	13	U
124-48-1	-----Dibromochloromethane	13	U
79-00-5	-----1,1,2-Trichloroethane	13	U
71-43-2	-----Benzene	13	U
10061-02-6	-----trans-1,3-Dichloropropene	13	U
75-25-2	-----Bromoform	13	U
108-10-1	-----4-Methyl-2-Pentanone	13	U
591-78-6	-----2-Hexanone	13	U
127-18-4	-----Tetrachloroethene	13	U
79-34-5	-----1,1,2,2-Tetrachloroethane	13	U
108-88-3	-----Toluene	13	U
108-90-7	-----Chlorobenzene	13	U
100-41-4	-----Ethylbenzene	13	U
100-42-5	-----Styrene	13	U
1330-20-7	-----Xylene (total)	13	U

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

03

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75016

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: D6836

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: not dec. 25

Date Analyzed: 10/04/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. 64-17-5	Ethanol	3.25	8	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

03RE

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75016RE

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: D6887

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: not dec. 25

Date Analyzed: 10/07/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	3	U
67-64-1	Acetone	16	U
75-15-0	Carbon Disulfide	13	U
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-Dichloroethene (total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-Dichloroethane	13	U
78-93-3	2-Butanone	13	U
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-Dichloropropane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-Trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
108-88-3	Toluene	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
1330-20-7	Xylene (total)	13	U



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

05

b Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75017

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: D6837

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: not dec. 22

Date Analyzed: 10/04/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3-----	Chloromethane	13	U
74-83-9-----	Bromomethane	13	UU
75-01-4-----	Vinyl Chloride	13	UUU
75-00-3-----	Chloroethane	13	UUUU
75-09-2-----	Methylene Chloride	13	UUUU
67-64-1-----	Acetone	25	BT
75-15-0-----	Carbon Disulfide	13	UU
75-35-4-----	1,1-Dichloroethene	13	UU
75-34-3-----	1,1-Dichloroethane	13	UUUU
540-59-0-----	1,2-Dichloroethene (total)	13	UUUU
67-66-3-----	Chloroform	13	UUUU
107-06-2-----	1,2-Dichloroethane	13	UUUU
78-93-3-----	2-Butanone	13	UUUU
71-55-6-----	1,1,1-Trichloroethane	13	UUUU
56-23-5-----	Carbon Tetrachloride	13	UUUU
75-27-4-----	Bromodichloromethane	13	UUUU
78-87-5-----	1,2-Dichloropropane	13	UUUU
10061-01-5-----	cis-1,3-Dichloropropene	13	UUUU
79-01-6-----	Trichloroethene	13	UUUU
124-48-1-----	Dibromochloromethane	13	UUUU
79-00-5-----	1,1,2-Trichloroethane	13	UUUU
71-43-2-----	Benzene	13	UUUU
10061-02-6-----	trans-1,3-Dichloropropene	13	UUUU
75-25-2-----	Bromoform	13	UUUU
108-10-1-----	4-Methyl-2-Pentanone	13	UUUU
591-78-6-----	2-Hexanone	13	UUUU
127-18-4-----	Tetrachloroethene	13	UUUU
79-34-5-----	1,1,2,2-Tetrachloroethane	13	UUUU
108-88-3-----	Toluene	13	UUUU
108-90-7-----	Chlorobenzene	13	UUUU
100-41-4-----	Ethylbenzene	13	UUUU
100-42-5-----	Styrene	13	UUUU
1330-20-7-----	Xylene (total)	13	UUUU

DEC SAMPLE NO.

05RE

Contract:

SDG No.: 75015

Lab Sample ID: 75017RE

Lab File ID: D6888

Date Received: 10/03/97

Date Analyzed: 10/07/97

Dilution Factor: 1.0

Soil Aliquot Volume: (uL)

Q

74-87-3	Chloromethane	13
74-83-9	Bromomethane	13
75-01-4	Vinyl Chloride	13
75-00-3	Chloroethane	13
75-09-2	Methylene Chloride	2
67-64-1	Acetone	48
75-15-0	Carbon Disulfide	13
75-35-4	1,1-Dichloroethene	13
75-34-3	1,1-Dichloroethane	13
540-59-0	1,2-Dichloroethene (total)	13
67-66-3	Chloroform	13
107-06-2	1,2-Dichloroethane	13
78-93-3	2-Butanone	13
71-55-6	1,1,1-Trichloroethane	13
56-23-5	Carbon Tetrachloride	13
75-27-4	Bromodichloromethane	13
78-87-5	1,2-Dichloropropane	13
10061-01-5	cis-1,3-Dichloropropene	13
79-01-6	Trichloroethene	13
124-48-1	Dibromochloromethane	13
79-00-5	1,1,2-Trichloroethane	13
71-43-2	Benzene	13
10061-02-6	trans-1,3-Dichloropropene	13
75-25-2	Bromoform	13
108-10-1	4-Methyl-2-Pentanone	13
591-78-6	2-Hexanone	13
127-18-4	Tetrachloroethene	13
79-34-5	1,1,2,2-Tetrachloroethane	13
108-88-3	Toluene	13
108-90-7	Chlorobenzene	13
100-41-4	Ethylbenzene	13
100-42-5	Styrene	13
1330-20-7	Xylene (total)	13

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

10AS

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75018

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: D6838

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: not dec. 24

Date Analyzed: 10/04/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3-----	Chloromethane	13	U
74-83-9-----	Bromomethane	13	U
75-01-4-----	Vinyl Chloride	13	U
75-00-3-----	Chloroethane	13	U
75-09-2-----	Methylene Chloride	13	U
67-64-1-----	Acetone	21	BT
75-15-0-----	Carbon Disulfide	13	U
75-35-4-----	1,1-Dichloroethene	13	U
75-34-3-----	1,1-Dichloroethane	13	U
540-59-0-----	1,2-Dichloroethene (total)	13	U
67-66-3-----	Chloroform	13	U
107-06-2-----	1,2-Dichloroethane	13	U
78-93-3-----	2-Butanone	13	U
71-55-6-----	1,1,1-Trichloroethane	13	U
56-23-5-----	Carbon Tetrachloride	13	U
75-27-4-----	Bromodichloromethane	13	U
78-87-5-----	1,2-Dichloropropane	13	U
10061-01-5-----	cis-1,3-Dichloropropene	13	U
79-01-6-----	Trichloroethene	13	U
124-48-1-----	Dibromochloromethane	13	U
79-00-5-----	1,1,2-Trichloroethane	13	U
71-43-2-----	Benzene	13	U
10061-02-6-----	trans-1,3-Dichloropropene	13	U
75-25-2-----	Bromoform	13	U
108-10-1-----	4-Methyl-2-Pentanone	13	U
591-78-6-----	2-Hexanone	13	U
127-18-4-----	Tetrachloroethene	13	U
79-34-5-----	1,1,2,2-Tetrachloroethane	13	U
108-88-3-----	Toluene	13	U
108-90-7-----	Chlorobenzene	13	U
100-41-4-----	Ethylbenzene	13	U
100-42-5-----	Styrene	13	U
1330-20-7-----	Xylene (total)	13	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

10ASRE

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75018RE

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: D6889

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: not dec. 24

Date Analyzed: 10/07/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	13	U
74-83-9	-----Bromomethane	13	U
75-01-4	-----Vinyl Chloride	13	U
75-00-3	-----Chloroethane	13	U
75-09-2	-----Methylene Chloride	2	J
67-64-1	-----Acetone	13	J
75-15-0	-----Carbon Disulfide	13	U
75-35-4	-----1,1-Dichloroethene	13	U
75-34-3	-----1,1-Dichloroethane	13	U
540-59-0	-----1,2-Dichloroethene (total)	13	U
67-66-3	-----Chloroform	13	U
107-06-2	-----1,2-Dichloroethane	13	U
78-93-3	-----2-Butanone	13	U
71-55-6	-----1,1,1-Trichloroethane	13	U
56-23-5	-----Carbon Tetrachloride	13	U
75-27-4	-----Bromodichloromethane	13	U
78-87-5	-----1,2-Dichloropropane	13	U
10061-01-5	-----cis-1,3-Dichloropropene	13	U
79-01-6	-----Trichloroethene	13	U
124-48-1	-----Dibromochloromethane	13	U
79-00-5	-----1,1,2-Trichloroethane	13	U
71-43-2	-----Benzene	13	U
10061-02-6	-----trans-1,3-Dichloropropene	13	U
75-25-2	-----Bromoform	13	U
108-10-1	-----4-Methyl-2-Pentanone	13	U
591-78-6	-----2-Hexanone	13	U
127-18-4	-----Tetrachloroethene	13	U
79-34-5	-----1,1,2,2-Tetrachloroethane	13	U
108-88-3	-----Toluene	13	U
108-90-7	-----Chlorobenzene	13	U
100-41-4	-----Ethylbenzene	13	U
100-42-5	-----Styrene	13	U
1330-20-7	-----Xylene (total)	13	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

11DS01

Lab Name: E & E INC. Contract:
 Lab Code: EANDE Case No.: 9702.414 SAS No.: SDG No.: 75015
 Matrix: (soil/water) SOIL Lab Sample ID: 75019
 Sample wt/vol: 5.0 (g/mL) G Lab File ID: D6839
 Level: (low/med) LOW Date Received: 10/03/97
 % Moisture: not dec. 37 Date Analyzed: 10/04/97
 GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	16	U
74-83-9	-----Bromomethane	16	U
75-01-4	-----Vinyl Chloride	16	U
75-00-3	-----Chloroethane	16	U
75-09-2	-----Methylene Chloride	16	U
67-64-1	-----Acetone	16	B
75-15-0	-----Carbon Disulfide	16	U
75-35-4	-----1,1-Dichloroethene	16	U
75-34-3	-----1,1-Dichloroethane	16	U
540-59-0	-----1,2-Dichloroethene (total)	16	U
67-66-3	-----Chloroform	16	U
107-06-2	-----1,2-Dichloroethane	16	U
78-93-3	-----2-Butanone	16	U
71-55-6	-----1,1,1-Trichloroethane	16	U
56-23-5	-----Carbon Tetrachloride	16	U
75-27-4	-----Bromodichloromethane	16	U
78-87-5	-----1,2-Dichloropropane	16	U
10061-01-5	-----cis-1,3-Dichloropropene	16	U
79-01-6	-----Trichloroethene	16	U
124-48-1	-----Dibromochloromethane	16	U
79-00-5	-----1,1,2-Trichloroethane	16	U
71-43-2	-----Benzene	16	U
10061-02-6	-----trans-1,3-Dichloropropene	16	U
75-25-2	-----Bromoform	16	U
108-10-1	-----4-Methyl-2-Pentanone	16	U
591-78-6	-----2-Hexanone	16	U
127-18-4	-----Tetrachloroethene	16	U
79-34-5	-----1,1,2,2-Tetrachloroethane	16	U
108-88-3	-----Toluene	4	J
108-90-7	-----Chlorobenzene	16	U
100-41-4	-----Ethylbenzene	16	U
100-42-5	-----Styrene	16	U
1330-20-7	-----Xylene (total)	16	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

Lab Name: E & E INC.

Contract:

11DS01RE

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75019RE

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: D6890

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: not dec. 37

Date Analyzed: 10/07/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3	Chloromethane	16	U
74-83-9	Bromomethane	16	U
75-01-4	Vinyl Chloride	16	U
75-00-3	Chloroethane	16	U
75-09-2	Methylene Chloride	16	U
67-64-1	Acetone	16	U
75-15-0	Carbon Disulfide	16	U
75-35-4	1,1-Dichloroethene	16	U
75-34-3	1,1-Dichloroethane	16	U
540-59-0	1,2-Dichloroethene (total)	16	U
67-66-3	Chloroform	16	U
107-06-2	1,2-Dichloroethane	16	U
78-93-3	2-Butanone	16	U
71-55-6	1,1,1-Trichloroethane	16	U
56-23-5	Carbon Tetrachloride	16	U
75-27-4	Bromodichloromethane	16	U
78-87-5	1,2-Dichloropropane	16	U
10061-01-5	cis-1,3-Dichloropropene	16	U
79-01-6	Trichloroethene	16	U
124-48-1	Dibromochloromethane	16	U
79-00-5	1,1,2-Trichloroethane	16	U
71-43-2	Benzene	16	U
10061-02-6	trans-1,3-Dichloropropene	16	U
75-25-2	Bromoform	16	U
108-10-1	4-Methyl-2-Pentanone	16	U
591-78-6	2-Hexanone	16	U
127-18-4	Tetrachloroethene	16	U
79-34-5	1,1,2,2-Tetrachloroethane	16	U
108-88-3	Toluene	3	J
108-90-7	Chlorobenzene	16	U
100-41-4	Ethylbenzene	16	U
100-42-5	Styrene	16	U
1330-20-7	Xylene (total)	16	U

set \$ 5



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

11DSD1

b Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75020

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: D6840

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: not dec. 36

Date Analyzed: 10/04/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3-----	Chloromethane	16	U
74-83-9-----	Bromomethane	16	U
75-01-4-----	Vinyl Chloride	16	U
75-00-3-----	Chloroethane	16	U
75-09-2-----	Methylene Chloride	3	J
67-64-1-----	Acetone	52	B
75-15-0-----	Carbon Disulfide	16	U
75-35-4-----	1,1-Dichloroethene	16	U
75-34-3-----	1,1-Dichloroethane	16	U
540-59-0-----	1,2-Dichloroethene (total)	16	U
67-66-3-----	Chloroform	16	U
107-06-2-----	1,2-Dichloroethane	16	U
78-93-3-----	2-Butanone	16	U
71-55-6-----	1,1,1-Trichloroethane	16	U
56-23-5-----	Carbon Tetrachloride	16	U
75-27-4-----	Bromodichloromethane	16	U
78-87-5-----	1,2-Dichloropropane	16	U
10061-01-5-----	cis-1,3-Dichloropropene	16	U
79-01-6-----	Trichloroethene	16	U
124-48-1-----	Dibromochloromethane	16	U
79-00-5-----	1,1,2-Trichloroethane	16	U
71-43-2-----	Benzene	16	U
10061-02-6-----	trans-1,3-Dichloropropene	16	U
75-25-2-----	Bromoform	16	U
108-10-1-----	4-Methyl-2-Pentanone	16	U
591-78-6-----	2-Hexanone	16	U
127-18-4-----	Tetrachloroethene	16	U
79-34-5-----	1,1,2,2-Tetrachloroethane	16	U
108-88-3-----	Toluene	5	J
108-90-7-----	Chlorobenzene	16	U
100-41-4-----	Ethylbenzene	16	U
100-42-5-----	Styrene	16	U
1330-20-7-----	Xylene (total)	16	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

11DSD1

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75020

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: D6840

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: not dec. 36

Date Analyzed: 10/04/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 138-86-3	Limonene	23.47	9	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

12CS

Lab Name: E & E INC. Contract: _____

Lab Code: EANDE Case No.: 9702.414 SAS No.: _____ SDG No.: 75015

Matrix: (soil/water) SOIL Lab Sample ID: 75021

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D6841

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: not dec. 27 Date Analyzed: 10/04/97

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	14	U
74-83-9	-----Bromomethane	14	U
75-01-4	-----Vinyl Chloride	14	U
75-00-3	-----Chloroethane	14	U
75-09-2	-----Methylene Chloride	14	U
67-64-1	-----Acetone	39	~~B~~
75-15-0	-----Carbon Disulfide	14	U
75-35-4	-----1,1-Dichloroethene	14	U
75-34-3	-----1,1-Dichloroethane	14	U
540-59-0	-----1,2-Dichloroethene (total)	14	U
67-66-3	-----Chloroform	14	U
107-06-2	-----1,2-Dichloroethane	14	U
78-93-3	-----2-Butanone	10	J
71-55-6	-----1,1,1-Trichloroethane	14	U
56-23-5	-----Carbon Tetrachloride	14	U
75-27-4	-----Bromodichloromethane	14	U
78-87-5	-----1,2-Dichloropropane	14	U
10061-01-5	-----cis-1,3-Dichloropropene	14	U
79-01-6	-----Trichloroethene	14	U
124-48-1	-----Dibromochloromethane	14	U
79-00-5	-----1,1,2-Trichloroethane	14	U
71-43-2	-----Benzene	14	U
10061-02-6	-----trans-1,3-Dichloropropene	14	U
75-25-2	-----Bromoform	14	U
108-10-1	-----4-Methyl-2-Pentanone	14	U
591-78-6	-----2-Hexanone	14	U
127-18-4	-----Tetrachloroethene	14	U
79-34-5	-----1,1,2,2-Tetrachloroethane	14	U
108-88-3	-----Toluene	14	U
108-90-7	-----Chlorobenzene	14	U
100-41-4	-----Ethylbenzene	14	U
100-42-5	-----Styrene	14	U
1330-20-7	-----Xylene (total)	14	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

13AW

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) WATER

Lab Sample ID: 75027

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: C7300

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: not dec.

Date Analyzed: 10/09/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	10	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	10	U
124-48-1-----	Dibromochloromethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-88-3-----	Toluene	10	U
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylene (total)	10	U

1E
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

01

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75015

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1107

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 14 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/23/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

108-95-2-----	Phenol	380	U
111-44-4-----	bis(2-Chloroethyl)Ether	380	U
95-57-8-----	2-Chlorophenol	380	U
541-73-1-----	1,3-Dichlorobenzene	380	U
106-46-7-----	1,4-Dichlorobenzene	380	U
95-50-1-----	1,2-Dichlorobenzene	380	U
95-48-7-----	2-Methylphenol	380	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5-----	4-Methylphenol	380	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	380	U
67-72-1-----	Hexachloroethane	380	U
98-95-3-----	Nitrobenzene	380	U
78-59-1-----	Isophorone	380	U
88-75-5-----	2-Nitrophenol	380	U
105-67-9-----	2,4-Dimethylphenol	380	U
111-91-1-----	bis(2-Chloroethoxy)Methane	380	U
120-83-2-----	2,4-Dichlorophenol	380	U
120-82-1-----	1,2,4-Trichlorobenzene	380	U
91-20-3-----	Naphthalene	380	U
106-47-8-----	4-Chloroaniline	380	U
87-68-3-----	Hexachlorobutadiene	380	U
59-50-7-----	4-Chloro-3-Methylphenol	380	U
91-57-6-----	2-Methylnaphthalene	380	U
77-47-4-----	Hexachlorocyclopentadiene	380	U
88-06-2-----	2,4,6-Trichlorophenol	380	U
95-95-4-----	2,4,5-Trichlorophenol	930	U
91-58-7-----	2-Chloronaphthalene	380	U
88-74-4-----	2-Nitroaniline	930	U
131-11-3-----	Dimethylphthalate	380	U
208-96-8-----	Acenaphthylene	380	U
606-20-2-----	2,6-Dinitrotoluene	380	U
99-09-2-----	3-Nitroaniline	930	U
83-32-9-----	Acenaphthene	380	U
51-28-5-----	2,4-Dinitrophenol	930	U
100-02-7-----	4-Nitrophenol	930	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

01

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75015

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1107

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 14 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/23/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.7

CONCENTRATION UNITS:

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

Q

CAS NO.

COMPOUND

132-64-9-----	Dibenzofuran	57	J
121-14-2-----	2,4-Dinitrotoluene	380	U
84-66-2-----	Diethylphthalate	380	U
7005-72-3-----	4-Chlorophenyl-phenylether	380	U
86-73-7-----	Fluorene	68	J
100-01-6-----	4-Nitroaniline	930	U
534-52-1-----	4,6-Dinitro-2-methylphenol	930	U
86-30-6-----	N-Nitrosodiphenylamine (1)	380	U
101-55-3-----	4-Bromophenyl-phenylether	380	U
118-74-1-----	Hexachlorobenzene	380	U
87-86-5-----	Pentachlorophenol	930	U
85-01-8-----	Phenanthrene	1100	
120-12-7-----	Anthracene	220	J
86-74-8-----	Carbazole	120	J
84-74-2-----	Di-n-Butylphthalate	380	U
206-44-0-----	Fluoranthene	1400	
129-00-0-----	Pyrene	2100	
85-68-7-----	Butylbenzylphthalate	380	U
91-94-1-----	3,3'-Dichlorobenzidine	380	U
56-55-3-----	Benzo(a)Anthracene	880	
218-01-9-----	Chrysene	970	
117-81-7-----	bis(2-Ethylhexyl)Phthalate	91	BJ
117-84-0-----	Di-n-Octyl Phthalate	380	U
205-99-2-----	Benzo(b)Fluoranthene	1400	
207-08-9-----	Benzo(k)Fluoranthene	380	U
50-32-8-----	Benzo(a)Pyrene	780	
193-39-5-----	Indeno(1,2,3-cd)Pyrene	470	
53-70-3-----	Dibenz(a,h)Anthracene	250	J
191-24-2-----	Benzo(g,h,i)Perylene	450	

380 B

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

01

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75015

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1107

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 14 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/23/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.7

Number TICs found: 15

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.	Unknown	9.35	97	J
2.	Unknown	25.10	130	J
3.	Unknown PAH	26.59	130	J
4.	Unknown aromatic	28.95	88	J
5.	Unknown PAH	29.93	96	J
6.	Unknown PAH	30.26	170	J
7.	Unknown PAH	30.61	260	J
8.	Unknown oxygenated hydrocarb	31.62	420	BJ
9.	Benzonaphthothiophene isomer	32.24	110	J
10.	Unknown PAH	32.34	270	J
11.	Unknown PAH	34.29	430	J
12.	Unknown oxygenated hydrocarb	35.98	220	J
13.	Unknown PAH	37.13	180	J
14.	Unknown oxygenated PAH	38.18	280	J
15.	Unknown	43.57	340	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

03

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75016

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1091

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 25 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/23/97

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

108-95-2-----	Phenol	440	U
111-44-4-----	bis(2-Chloroethyl)Ether	440	U
95-57-8-----	2-Chlorophenol	440	U
541-73-1-----	1,3-Dichlorobenzene	440	U
106-46-7-----	1,4-Dichlorobenzene	440	U
95-50-1-----	1,2-Dichlorobenzene	440	U
95-48-7-----	2-Methylphenol	440	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	440	U
106-44-5-----	4-Methylphenol	440	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	440	U
67-72-1-----	Hexachloroethane	440	U
98-95-3-----	Nitrobenzene	440	U
78-59-1-----	Isophorone	440	U
88-75-5-----	2-Nitrophenol	440	U
105-67-9-----	2,4-Dimethylphenol	440	U
111-91-1-----	bis(2-Chloroethoxy)Methane	440	U
120-83-2-----	2,4-Dichlorophenol	440	U
120-82-1-----	1,2,4-Trichlorobenzene	440	U
91-20-3-----	Naphthalene	440	U
106-47-8-----	4-Chloroaniline	440	U
87-68-3-----	Hexachlorobutadiene	440	U
59-50-7-----	4-Chloro-3-Methylphenol	440	U
91-57-6-----	2-Methylnaphthalene	440	U
77-47-4-----	Hexachlorocyclopentadiene	440	U
88-06-2-----	2,4,6-Trichlorophenol	440	U
95-95-4-----	2,4,5-Trichlorophenol	1100	U
91-58-7-----	2-Chloronaphthalene	440	U
88-74-4-----	2-Nitroaniline	1100	U
131-11-3-----	Dimethylphthalate	440	U
208-96-8-----	Acenaphthylene	440	U
606-20-2-----	2,6-Dinitrotoluene	440	U
99-09-2-----	3-Nitroaniline	1100	U
83-32-9-----	Acenaphthene	440	U
51-28-5-----	2,4-Dinitrophenol	1100	U
100-02-7-----	4-Nitrophenol	1100	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

03

Client Name: E & E INC.

Contract:

Lab Code: EAND E

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75016

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1091

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 25 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/23/97

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

132-64-9-----	Dibenzofuran	440	U
121-14-2-----	2,4-Dinitrotoluene	440	U
84-66-2-----	Diethylphthalate	440	U
7005-72-3-----	4-Chlorophenyl-phenylether	440	U
86-73-7-----	Fluorene	440	U
100-01-6-----	4-Nitroaniline	1100	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1100	U
86-30-6-----	N-Nitrosodiphenylamine (1)	440	U
101-55-3-----	4-Bromophenyl-phenylether	440	U
118-74-1-----	Hexachlorobenzene	440	U
87-86-5-----	Pentachlorophenol	1100	U
85-01-8-----	Phenanthrene	84	J
120-12-7-----	Anthracene	440	U
86-74-8-----	Carbazole	440	U
84-74-2-----	Di-n-Butylphthalate	440	U
206-44-0-----	Fluoranthene	110	J
129-00-0-----	Pyrene	120	J
85-68-7-----	Butylbenzylphthalate	440	U
91-94-1-----	3,3'-Dichlorobenzidine	440	U
56-55-3-----	Benzo(a)Anthracene	57	J
218-01-9-----	Chrysene	67	J
117-81-7-----	bis(2-Ethylhexyl)Phthalate	440	U
117-84-0-----	Di-n-Octyl Phthalate	440	U
205-99-2-----	Benzo(b)Fluoranthene	48	J
207-08-9-----	Benzo(k)Fluoranthene	48	J
50-32-8-----	Benzo(a)Pyrene	440	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	440	U
53-70-3-----	Dibenz(a,h)Anthracene	440	U
191-24-2-----	Benzo(g,h,i)Perylene	440	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

03

Lab Name: E & E INC.

Contract:

Lab Code: EAND E

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75016

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1091

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 25 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/23/97

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.1

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown carboxylic acid	13.00	240	J
2.	Unknown	25.11	120	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

05

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75017

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1097

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 22 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/23/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 11.3

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

108-95-2-----	Phenol	420	U
111-44-4-----	bis(2-Chloroethyl) Ether	420	U
95-57-8-----	2-Chlorophenol	420	U
541-73-1-----	1,3-Dichlorobenzene	420	U
106-46-7-----	1,4-Dichlorobenzene	420	U
95-50-1-----	1,2-Dichlorobenzene	420	U
95-48-7-----	2-Methylphenol	420	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	420	U
106-44-5-----	4-Methylphenol	420	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	420	U
67-72-1-----	Hexachloroethane	420	U
98-95-3-----	Nitrobenzene	420	U
78-59-1-----	Isophorone	420	U
88-75-5-----	2-Nitrophenol	420	U
105-67-9-----	2,4-Dimethylphenol	420	U
111-91-1-----	bis(2-Chloroethoxy) Methane	420	U
120-83-2-----	2,4-Dichlorophenol	420	U
120-82-1-----	1,2,4-Trichlorobenzene	420	U
91-20-3-----	Naphthalene	45	J
106-47-8-----	4-Chloroaniline	420	U
87-68-3-----	Hexachlorobutadiene	420	U
59-50-7-----	4-Chloro-3-Methylphenol	420	U
91-57-6-----	2-Methylnaphthalene	420	U
77-47-4-----	Hexachlorocyclopentadiene	420	U
88-06-2-----	2,4,6-Trichlorophenol	420	U
95-95-4-----	2,4,5-Trichlorophenol	1000	U
91-58-7-----	2-Chloronaphthalene	420	U
88-74-4-----	2-Nitroaniline	1000	U
131-11-3-----	Dimethylphthalate	420	U
208-96-8-----	Acenaphthylene	420	U
606-20-2-----	2,6-Dinitrotoluene	420	U
99-09-2-----	3-Nitroaniline	1000	U
83-32-9-----	Acenaphthene	91	J
51-28-5-----	2,4-Dinitrophenol	1000	U
100-02-7-----	4-Nitrophenol	1000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

05

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75017

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1097

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 22 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/23/97

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 11.3

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

Q

CAS NO.	COMPOUND		
132-64-9	Dibenzofuran	76	J
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
86-73-7	Fluorene	100	J
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	1200	
120-12-7	Anthracene	210	J
86-74-8	Carbazole	120	J
84-74-2	Di-n-Butylphthalate	420	U
206-44-0	Fluoranthene	1600	
129-00-0	Pyrene	1700	
85-68-7	Butylbenzylphthalate	57	J
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)Anthracene	1000	
218-01-9	Chrysene	960	
117-81-7	bis(2-Ethylhexyl)Phthalate	110	BJ
117-84-0	Di-n-Octyl Phthalate	420	U
205-99-2	Benzo(b)Fluoranthene	870	
207-08-9	Benzo(k)Fluoranthene	580	
50-32-8	Benzo(a)Pyrene	730	
193-39-5	Indeno(1,2,3-cd)Pyrene	480	
53-70-3	Dibenz(a,h)Anthracene	240	J
191-24-2	Benzo(g,h,i)Perylene	470	

420B

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

05

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75017

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1097

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 22 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/23/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 11.3

Number TICs found: 13

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown terpene	9.39	140	J
2.	Unknown	9.98	150	J
3.	Unknown	22.10	120	J
4.	Unknown	25.09	150	J
5.	Unknown PAH	26.54	120	J
6.	Unknown PAH	27.15	110	J
7.	Unknown oxygenated hydrocarb	28.32	160	J
8.	Benzonaphthofuran isomer	29.53	120	J
9.	Unknown PAH	30.24	130	J
10.	Unknown PAH	30.54	210	J
11.	Unknown	33.49	120	J
12.	Unknown PAH	34.22	380	J
13.	Unknown oxygenated hydrocarb	35.95	460	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

10AS

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75018

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1098

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 24 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/23/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.5

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

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	430	U
111-44-4-----	bis(2-Chloroethyl) Ether	430	U
95-57-8-----	2-Chlorophenol	430	U
541-73-1-----	1,3-Dichlorobenzene	430	U
106-46-7-----	1,4-Dichlorobenzene	430	U
95-50-1-----	1,2-Dichlorobenzene	430	U
95-48-7-----	2-Methylphenol	430	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	430	U
106-44-5-----	4-Methylphenol	430	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	430	U
67-72-1-----	Hexachloroethane	430	U
98-95-3-----	Nitrobenzene	430	U
78-59-1-----	Isophorone	430	U
88-75-5-----	2-Nitrophenol	430	U
105-67-9-----	2,4-Dimethylphenol	430	U
111-91-1-----	bis(2-Chloroethoxy)Methane	430	U
120-83-2-----	2,4-Dichlorophenol	430	U
120-82-1-----	1,2,4-Trichlorobenzene	430	U
91-20-3-----	Naphthalene	430	U
106-47-8-----	4-Chloroaniline	430	U
87-68-3-----	Hexachlorobutadiene	430	U
59-50-7-----	4-Chloro-3-Methylphenol	430	U
91-57-6-----	2-Methylnaphthalene	430	U
77-47-4-----	Hexachlorocyclopentadiene	430	U
88-06-2-----	2,4,6-Trichlorophenol	430	U
95-95-4-----	2,4,5-Trichlorophenol	1100	U
91-58-7-----	2-Chloronaphthalene	430	U
88-74-4-----	2-Nitroaniline	1100	U
131-11-3-----	Dimethylphthalate	430	U
208-96-8-----	Acenaphthylene	430	U
606-20-2-----	2,6-Dinitrotoluene	430	U
99-09-2-----	3-Nitroaniline	1100	U
83-32-9-----	Acenaphthene	68	J
51-28-5-----	2,4-Dinitrophenol	1100	U
100-02-7-----	4-Nitrophenol	1100	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

10AS

b Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75018

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1098

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 24 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/23/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

132-64-9-----	Dibenzofuran	430	U
121-14-2-----	2,4-Dinitrotoluene	430	UU
84-66-2-----	Diethylphthalate	430	UU
7005-72-3-----	4-Chlorophenyl-phenylether	430	UU
86-73-7-----	Fluorene	71	J
100-01-6-----	4-Nitroaniline	1100	UU
534-52-1-----	4,6-Dinitro-2-methylphenol	1100	UU
86-30-6-----	N-Nitrosodiphenylamine (1)	430	UU
101-55-3-----	4-Bromophenyl-phenylether	430	UU
118-74-1-----	Hexachlorobenzene	430	UU
87-86-5-----	Pentachlorophenol	1100	U
85-01-8-----	Phenanthrene	900	
120-12-7-----	Anthracene	170	J
86-74-8-----	Carbazole	93	J
84-74-2-----	Di-n-Butylphthalate	430	U
206-44-0-----	Fluoranthene	1400	
129-00-0-----	Pyrene	2000	
85-68-7-----	Butylbenzylphthalate	580	
91-94-1-----	3,3'-Dichlorobenzidine	430	
56-55-3-----	Benzo(a)Anthracene	980	
218-01-9-----	Chrysene	920	
117-81-7-----	bis(2-Ethylhexyl) Phthalate	280	BJ
117-84-0-----	Di-n-Octyl Phthalate	430	
205-99-2-----	Benzo(b) Fluoranthene	1300	
207-08-9-----	Benzo(k) Fluoranthene	430	
50-32-8-----	Benzo(a) Pyrene	720	
193-39-5-----	Indeno(1,2,3-cd) Pyrene	450	
53-70-3-----	Dibenz(a,h) Anthracene	220	
191-24-2-----	Benzo(g,h,i) Perylene	450	

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

10AS

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75018

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1098

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 24 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/23/97

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.5

Number TICs found: 9

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown oxygenated hydrocarb	9.99	260	J
2.	Methylbenzoquinone isomer	10.48	480	J
3.	Unknown carboxylic acid	26.49	120	J
4. 57-10-3	Hexadecanoic acid	26.59	260	JN
5.	Unknown PAH	27.15	99	J
6.	Unknown hydrocarbon	29.28	240	J
7.	Unknown PAH	30.25	140	J
8.	Unknown	30.71	110	J
9.	Unknown PAH	34.26	390	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

10ASRE

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75018RE

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1114

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 24 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/24/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

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

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	430	U
111-44-4-----	bis(2-Chloroethyl)Ether	430	U
95-57-8-----	2-Chlorophenol	430	U
541-73-1-----	1,3-Dichlorobenzene	430	U
106-46-7-----	1,4-Dichlorobenzene	430	U
95-50-1-----	1,2-Dichlorobenzene	430	U
95-48-7-----	2-Methylphenol	430	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	430	U
106-44-5-----	4-Methylphenol	430	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	430	U
67-72-1-----	Hexachloroethane	430	U
98-95-3-----	Nitrobenzene	430	U
78-59-1-----	Isophorone	430	U
88-75-5-----	2-Nitrophenol	430	U
105-67-9-----	2,4-Dimethylphenol	430	U
111-91-1-----	bis(2-Chloroethoxy)Methane	430	U
120-83-2-----	2,4-Dichlorophenol	430	U
120-82-1-----	1,2,4-Trichlorobenzene	430	U
91-20-3-----	Naphthalene	430	U
106-47-8-----	4-Chloroaniline	430	U
87-68-3-----	Hexachlorobutadiene	430	U
59-50-7-----	4-Chloro-3-Methylphenol	430	U
91-57-6-----	2-Methylnaphthalene	430	U
77-47-4-----	Hexachlorocyclopentadiene	430	U
88-06-2-----	2,4,6-Trichlorophenol	430	U
95-95-4-----	2,4,5-Trichlorophenol	1100	U
91-58-7-----	2-Chloronaphthalene	430	U
88-74-4-----	2-Nitroaniline	1100	U
131-11-3-----	Dimethylphthalate	430	U
208-96-8-----	Acenaphthylene	430	U
606-20-2-----	2,6-Dinitrotoluene	430	U
99-09-2-----	3-Nitroaniline	1100	U
83-32-9-----	Acenaphthene	74	J
51-28-5-----	2,4-Dinitrophenol	1100	U
100-02-7-----	4-Nitrophenol	1100	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

10ASRE

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75018RE

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1114

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 24 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/24/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

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

CAS NO.

COMPOUND

Q

132-64-9-----	Dibenzofuran	45	J
121-14-2-----	2,4-Dinitrotoluene	430	U
84-66-2-----	Diethylphthalate	430	U
7005-72-3-----	4-Chlorophenyl-phenylether	430	U
86-73-7-----	Fluorene	86	J
100-01-6-----	4-Nitroaniline	1100	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1100	U
86-30-6-----	N-Nitrosodiphenylamine (1)	430	U
101-55-3-----	4-Bromophenyl-phenylether	430	U
118-74-1-----	Hexachlorobenzene	430	U
87-86-5-----	Pentachlorophenol	1100	U
85-01-8-----	Phenanthrene	880	
120-12-7-----	Anthracene	170	J
86-74-8-----	Carbazole	100	J
84-74-2-----	Di-n-Butylphthalate	430	U
206-44-0-----	Fluoranthene	1200	
129-00-0-----	Pyrene	1800	
85-68-7-----	Butylbenzylphthalate	480	
91-94-1-----	3,3'-Dichlorobenzidine	430	U
56-55-3-----	Benzo(a)Anthracene	760	
218-01-9-----	Chrysene	770	
117-81-7-----	bis(2-Ethylhexyl)Phthalate	230	BU
117-84-0-----	Di-n-Octyl Phthalate	430	
205-99-2-----	Benzo(b)Fluoranthene	580	
207-08-9-----	Benzo(k)Fluoranthene	610	
50-32-8-----	Benzo(a)Pyrene	600	
193-39-5-----	Indeno(1,2,3-cd)Pyrene	400	
53-70-3-----	Dibenz(a,h)Anthracene	160	
191-24-2-----	Benzo(g,h,i)Perylene	450	

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

10ASRE

o Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75018RE

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1114

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 24 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/24/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.5

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

Number TICs found: 15

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.	Unknown	9.22	190	J
2.	Methylbenzoquinone isomer	10.38	450	J
3.	Unknown hydrocarbon	20.79	97	J
4.	Unknown oxygenated hydrocarb	24.76	93	BJ
5.	Unknown oxygenated hydrocarb	25.48	150	BJ
6.	Unknown PAH	26.39	200	J
7. 57-10-3	Hexadecanoic acid	26.49	93	JN
8.	Unknown hydrocarbon	26.77	89	J
9.	Unknown PAH	27.00	110	J
10.	Unknown PAH	27.87	130	J
11.	Unknown oxygenated hydrocarb	29.15	280	J
12.	Unknown PAH	29.76	150	J
13.	Unknown PAH	30.10	160	J
14.	Unknown	30.56	140	J
15.	Unknown oxygenated hydrocarb	32.03	780	BJ

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

11DSO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75019

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1099

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 37 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/23/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

108-95-2-----	Phenol	520	U
111-44-4-----	bis(2-Chloroethyl) Ether	520	U
95-57-8-----	2-Chlorophenol	520	U
541-73-1-----	1,3-Dichlorobenzene	520	U
106-46-7-----	1,4-Dichlorobenzene	520	U
95-50-1-----	1,2-Dichlorobenzene	520	U
95-48-7-----	2-Methylphenol	520	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	520	U
106-44-5-----	4-Methylphenol	520	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	520	U
67-72-1-----	Hexachloroethane	520	U
98-95-3-----	Nitrobenzene	520	U
78-59-1-----	Isophorone	520	U
88-75-5-----	2-Nitrophenol	520	U
105-67-9-----	2,4-Dimethylphenol	520	U
111-91-1-----	bis(2-Chloroethoxy) Methane	520	U
120-83-2-----	2,4-Dichlorophenol	520	U
120-82-1-----	1,2,4-Trichlorobenzene	520	U
91-20-3-----	Naphthalene	520	U
106-47-8-----	4-Chloroaniline	520	U
87-68-3-----	Hexachlorobutadiene	520	U
59-50-7-----	4-Chloro-3-Methylphenol	520	U
91-57-6-----	2-Methylnaphthalene	520	U
77-47-4-----	Hexachlorocyclopentadiene	520	U
88-06-2-----	2,4,6-Trichlorophenol	520	U
95-95-4-----	2,4,5-Trichlorophenol	1300	U
91-58-7-----	2-Chloronaphthalene	520	U
88-74-4-----	2-Nitroaniline	1300	U
131-11-3-----	Dimethylphthalate	520	U
208-96-8-----	Acenaphthylene	520	U
606-20-2-----	2,6-Dinitrotoluene	520	U
99-09-2-----	3-Nitroaniline	1300	U
83-32-9-----	Acenaphthene	520	U
51-28-5-----	2,4-Dinitrophenol	1300	U
100-02-7-----	4-Nitrophenol	1300	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

11DSO

Company Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75019

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1099

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 37 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/23/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

132-64-9-----	Dibenzofuran	520	U
121-14-2-----	2,4-Dinitrotoluene	520	U
84-66-2-----	Diethylphthalate	520	U
7005-72-3-----	4-Chlorophenyl-phenylether	520	U
86-73-7-----	Fluorene	520	U
100-01-6-----	4-Nitroaniline	1300	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1300	U
86-30-6-----	N-Nitrosodiphenylamine (1)	520	U
101-55-3-----	4-Bromophenyl-phenylether	520	U
118-74-1-----	Hexachlorobenzene	520	U
87-86-5-----	Pentachlorophenol	1300	U
85-01-8-----	Phenanthrene	140	J
120-12-7-----	Anthracene	520	U
86-74-8-----	Carbazole	520	U
84-74-2-----	Di-n-Butylphthalate	520	U
206-44-0-----	Fluoranthene	250	J
129-00-0-----	Pyrene	320	J
85-68-7-----	Butylbenzylphthalate	520	U
91-94-1-----	3,3'-Dichlorobenzidine	520	U
56-55-3-----	Benzo(a)Anthracene	170	J
218-01-9-----	Chrysene	180	J
117-81-7-----	bis(2-Ethylhexyl)Phthalate	520	U
117-84-0-----	Di-n-Octyl Phthalate	520	U
205-99-2-----	Benzo(b)Fluoranthene	170	J
207-08-9-----	Benzo(k)Fluoranthene	130	J
50-32-8-----	Benzo(a)Pyrene	140	J
193-39-5-----	Indeno(1,2,3-cd)Pyrene	100	J
53-70-3-----	Dibenz(a,h)Anthracene	520	U
191-24-2-----	Benzo(g,h,i)Perylene	100	J

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

11DSO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75019

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1099

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 37 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/23/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.3

Number TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Butylbenzene isomer	10.67	230	J
2.	Unknown	25.08	190	J
3. 57-10-3	Hexadecanoic acid	26.59	250	JN
4.	Unknown hydrocarbon	27.28	240	J
5.	Unknown alkyl aromatic	28.70	110	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

11DSD

b Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75020

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1100

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 36 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/23/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

108-95-2-----	Phenol	520	U
111-44-4-----	bis(2-Chloroethyl)Ether	520	U
95-57-8-----	2-Chlorophenol	520	U
541-73-1-----	1,3-Dichlorobenzene	520	U
106-46-7-----	1,4-Dichlorobenzene	520	U
95-50-1-----	1,2-Dichlorobenzene	520	U
95-48-7-----	2-Methylphenol	520	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	520	U
106-44-5-----	4-Methylphenol	520	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	520	U
67-72-1-----	Hexachloroethane	520	U
98-95-3-----	Nitrobenzene	520	U
78-59-1-----	Isophorone	520	U
88-75-5-----	2-Nitrophenol	520	U
105-67-9-----	2,4-Dimethylphenol	520	U
111-91-1-----	bis(2-Chloroethoxy)Methane	520	U
120-83-2-----	2,4-Dichlorophenol	520	U
120-82-1-----	1,2,4-Trichlorobenzene	520	U
91-20-3-----	Naphthalene	520	U
106-47-8-----	4-Chloroaniline	520	U
87-68-3-----	Hexachlorobutadiene	520	U
59-50-7-----	4-Chloro-3-Methylphenol	520	U
91-57-6-----	2-Methylnaphthalene	520	U
77-47-4-----	Hexachlorocyclopentadiene	520	U
88-06-2-----	2,4,6-Trichlorophenol	520	U
95-95-4-----	2,4,5-Trichlorophenol	1200	U
91-58-7-----	2-Chloronaphthalene	520	U
88-74-4-----	2-Nitroaniline	1200	U
131-11-3-----	Dimethylphthalate	520	U
208-96-8-----	Acenaphthylene	520	U
606-20-2-----	2,6-Dinitrotoluene	520	U
99-09-2-----	3-Nitroaniline	1200	U
83-32-9-----	Acenaphthene	520	U
51-28-5-----	2,4-Dinitrophenol	1200	U
100-02-7-----	4-Nitrophenol	1200	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

11DSD

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75020

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1100

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 36 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/23/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

132-64-9-----	Dibenzofuran	520	U
121-14-2-----	2,4-Dinitrotoluene	520	U
84-66-2-----	Diethylphthalate	520	U
7005-72-3-----	4-Chlorophenyl-phenylether	520	U
86-73-7-----	Fluorene	520	U
100-01-6-----	4-Nitroaniline	1200	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1200	U
86-30-6-----	N-Nitrosodiphenylamine (1)	520	U
101-55-3-----	4-Bromophenyl-phenylether	520	U
118-74-1-----	Hexachlorobenzene	520	U
87-86-5-----	Pentachlorophenol	1200	U
85-01-8-----	Phenanthrene	190	J
120-12-7-----	Anthracene	520	U
86-74-8-----	Carbazole	520	U
84-74-2-----	Di-n-Butylphthalate	520	U
206-44-0-----	Fluoranthene	250	J
129-00-0-----	Pyrene	380	J
85-68-7-----	Butylbenzylphthalate	520	U
91-94-1-----	3,3'-Dichlorobenzidine	520	U
56-55-3-----	Benzo (a) Anthracene	160	J
218-01-9-----	Chrysene	180	J
117-81-7-----	bis(2-Ethylhexyl) Phthalate	520	U
117-84-0-----	Di-n-Octyl Phthalate	520	U
205-99-2-----	Benzo (b) Fluoranthene	150	J
207-08-9-----	Benzo (k) Fluoranthene	130	J
50-32-8-----	Benzo (a) Pyrene	140	J
193-39-5-----	Indeno (1,2,3-cd) Pyrene	97	J
53-70-3-----	Dibenz (a,h) Anthracene	520	U
191-24-2-----	Benzo (g,h,i) Perylene	110	J

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

11DSD

Lab Name: E & E INC.

Contract:

Lab Code: EAND E

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75020

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1100

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 36 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/23/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 6.9

Number TICs found: 9

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.	Unknown	9.33	120	J
2.	Butylbenzene isomer	10.67	190	J
3.	Unknown terpene	10.76	140	J
4.	Unknown oxygenated hydrocarb	24.96	120	BJ
5.	Unknown	25.09	210	J
6. 57-10-3	Hexadecanoic acid	26.58	210	JN
7.	Unknown hydrocarbon	27.28	210	J
8.	Unknown PAH	30.19	140	J
9.	Unknown oxygenated hydrocarb	34.24	540	BJ

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

12CS

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75021

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1101

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/23/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.2

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

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	450	U
111-44-4-----	bis(2-Chloroethyl) Ether	450	U
95-57-8-----	2-Chlorophenol	450	U
541-73-1-----	1,3-Dichlorobenzene	450	U
106-46-7-----	1,4-Dichlorobenzene	450	U
95-50-1-----	1,2-Dichlorobenzene	450	U
95-48-7-----	2-Methylphenol	450	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	450	U
106-44-5-----	4-Methylphenol	450	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	450	U
67-72-1-----	Hexachloroethane	450	U
98-95-3-----	Nitrobenzene	450	U
78-59-1-----	Isophorone	450	U
88-75-5-----	2-Nitrophenol	450	U
105-67-9-----	2,4-Dimethylphenol	450	U
111-91-1-----	bis(2-Chloroethoxy) Methane	450	U
120-83-2-----	2,4-Dichlorophenol	450	U
120-82-1-----	1,2,4-Trichlorobenzene	450	U
91-20-3-----	Naphthalene	450	U
106-47-8-----	4-Chloroaniline	450	U
87-68-3-----	Hexachlorobutadiene	450	U
59-50-7-----	4-Chloro-3-Methylphenol	450	U
91-57-6-----	2-Methylnaphthalene	450	U
77-47-4-----	Hexachlorocyclopentadiene	450	U
88-06-2-----	2,4,6-Trichlorophenol	450	U
95-95-4-----	2,4,5-Trichlorophenol	1100	U
91-58-7-----	2-Chloronaphthalene	450	U
88-74-4-----	2-Nitroaniline	1100	U
131-11-3-----	Dimethylphthalate	450	U
208-96-8-----	Acenaphthylene	450	U
606-20-2-----	2,6-Dinitrotoluene	450	U
99-09-2-----	3-Nitroaniline	1100	U
83-32-9-----	Acenaphthene	61	J
51-28-5-----	2,4-Dinitrophenol	1100	U
100-02-7-----	4-Nitrophenol	1100	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

12CS

Lab Name: E & E INC. Contract: _____

Lab Code: EANDE Case No.: 9702.414 SAS No.: _____ SDG No.: 75015

Matrix: (soil/water) SOIL Lab Sample ID: 75021

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E1101

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: 27 decanted: (Y/N) N Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/23/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2

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

CAS NO.	COMPOUND		
132-64-9	Dibenzofuran	48	J
121-14-2	2,4-Dinitrotoluene	450	U
84-66-2	Diethylphthalate	450	U
7005-72-3	4-Chlorophenyl-phenylether	450	U
86-73-7	Fluorene	82	J
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-Nitrosodiphenylamine (1)	450	U
101-55-3	4-Bromophenyl-phenylether	450	U
118-74-1	Hexachlorobenzene	450	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	460	
120-12-7	Anthracene	79	J
86-74-8	Carbazole	60	J
84-74-2	Di-n-Butylphthalate	52	J
206-44-0	Fluoranthene	310	J
129-00-0	Pyrene	460	
85-68-7	Butylbenzylphthalate	450	U
91-94-1	3,3'-Dichlorobenzidine	450	U
56-55-3	Benzo(a)Anthracene	180	J
218-01-9	Chrysene	170	J
117-81-7	bis(2-Ethylhexyl)Phthalate	180	J
117-84-0	Di-n-Octyl Phthalate	450	U
205-99-2	Benzo(b)Fluoranthene	160	J
207-08-9	Benzo(k)Fluoranthene	85	J
50-32-8	Benzo(a)Pyrene	130	J
193-39-5	Indeno(1,2,3-cd)Pyrene	73	J
53-70-3	Dibenz(a,h)Anthracene	450	U
191-24-2	Benzo(g,h,i)Perylene	75	J

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

12CS

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75021

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1101

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/23/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.2

Number TICs found: 16

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Butylbenzene isomer	10.67	230	J
2.	Unknown	20.79	130	J
3.	2,4,6-Tribromophenol acetate	23.79	95	J
4.	Unknown oxygenated hydrocarb	24.97	94	BJ
5.	Unknown oxygenated hydrocarb	25.73	540	BJ
6. 544-63-8	Tetradecanoic acid	26.61	190	JN
7. 10544-50-0	Sulfur, mol. (S8)	27.32	3200	JN
8.	Unknown PAH	30.21	160	J
9.	Unknown oxygenated hydrocarb	30.75	210	BJ
10.	Unknown oxygenated hydrocarb	31.55	1300	BJ
11.	Unknown oxygenated hydrocarb	32.23	1000	BJ
12.	Unknown oxygenated hydrocarb	34.19	1300	BJ
13.	Unknown oxygenated hydrocarb	34.83	320	BJ
14.	Unknown oxygenated hydrocarb	35.96	150	J
15.	Unknown oxygenated hydrocarb	36.78	1600	BJ
16.	Unknown oxygenated hydrocarb	38.15	200	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

01

b Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414

SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75015

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 14 decanted: (Y/N) N

Date Received: 10/03/97

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/06/97

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 10/31/97

Injection Volume: 2.00 (uL)

Dilution Factor: 5.00

GPC Cleanup: (Y/N) Y

pH: 7.7

Sulfur Cleanup: (Y/N) Y

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

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	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	99	U
53494-70-5-----	Endrin ketone	19	U
7421-93-4-----	Endrin aldehyde	19	U
5103-71-9-----	alpha-Chlordane	9.9	U
5103-74-2-----	gamma-Chlordane	9.9	U
8001-35-2-----	Toxaphene	990	U
12674-11-2-----	Aroclor-1016	190	U
11104-28-2-----	Aroclor-1221	390	U
11141-16-5-----	Aroclor-1232	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

FORM I PEST

10/95

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

03

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414

SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75016

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 25 decanted: (Y/N) N

Date Received: 10/03/97

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/06/97

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 10/31/97

Injection Volume: 2.00 (uL)

Dilution Factor: 5.00

GPC Cleanup: (Y/N) Y

pH: 7.1

Sulfur Cleanup: (Y/N) Y

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

319-84-6-----	alpha-BHC	11	U
319-85-7-----	beta-BHC	11	U
319-86-8-----	delta-BHC	11	U
58-89-9-----	gamma-BHC (Lindane)	11	U
76-44-8-----	Heptachlor	11	U
309-00-2-----	Aldrin	11	U
1024-57-3-----	Heptachlor epoxide	11	U
959-98-8-----	Endosulfan I	11	U
60-57-1-----	Dieldrin	22	U
72-55-9-----	4,4'-DDE	22	U
72-20-8-----	Endrin	22	U
33213-65-9-----	Endosulfan II	22	U
72-54-8-----	4,4'-DDD	22	U
1031-07-8-----	Endosulfan sulfate	22	U
50-29-3-----	4,4'-DDT	22	U
72-43-5-----	Methoxychlor	110	U
53494-70-5-----	Endrin ketone	22	U
7421-93-4-----	Endrin aldehyde	22	U
5103-71-9-----	alpha-Chlordane	11	U
5103-74-2-----	gamma-Chlordane	11	U
8001-35-2-----	Toxaphene	1100	U
12674-11-2-----	Aroclor-1016	220	U
11104-28-2-----	Aroclor-1221	450	U
11141-16-5-----	Aroclor-1232	220	U
53469-21-9-----	Aroclor-1242	220	U
12672-29-6-----	Aroclor-1248	220	U
11097-69-1-----	Aroclor-1254	220	U
11096-82-5-----	Aroclor-1260	220	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

05

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414

SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75017

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 22 decanted: (Y/N) N

Date Received: 10/03/97

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/06/97

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 10/31/97

Injection Volume: 2.00 (uL)

Dilution Factor: 2.00

GPC Cleanup: (Y/N) Y

pH: 11.3

Sulfur Cleanup: (Y/N) Y

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

319-84-6-----	alpha-BHC	4.4	U
319-85-7-----	beta-BHC	4.4	U
319-86-8-----	delta-BHC	4.4	U
58-89-9-----	gamma-BHC (Lindane)	4.4	U
76-44-8-----	Heptachlor	4.4	U
309-00-2-----	Aldrin	4.4	U
1024-57-3-----	Heptachlor epoxide	4.4	U
959-98-8-----	Endosulfan I	4.4	U
60-57-1-----	Dieldrin	8.5	U
72-55-9-----	4,4'-DDE	8.5	U
72-20-8-----	Endrin	8.5	U
33213-65-9-----	Endosulfan II	8.5	U
72-54-8-----	4,4'-DDD	8.5	U
1031-07-8-----	Endosulfan sulfate	8.5	U
50-29-3-----	4,4'-DDT	8.5	U
72-43-5-----	Methoxychlor	44	U
53494-70-5-----	Endrin ketone	8.5	U
7421-93-4-----	Endrin aldehyde	8.5	U
5103-71-9-----	alpha-Chlordane	4.4	U
5103-74-2-----	gamma-Chlordane	4.4	U
8001-35-2-----	Toxaphene	440	U
12674-11-2-----	Aroclor-1016	85	U
11104-28-2-----	Aroclor-1221	170	U
11141-16-5-----	Aroclor-1232	85	U
53469-21-9-----	Aroclor-1242	85	U
12672-29-6-----	Aroclor-1248	85	U
11097-69-1-----	Aroclor-1254	85	U
11096-82-5-----	Aroclor-1260	85	U

FORM I PEST

10/95

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

10AS0

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414

SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75018

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 24 decanted: (Y/N) N

Date Received: 10/03/97

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/07/97

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 10/31/97

Injection Volume: 2.00 (uL)

Dilution Factor: 5.00

GPC Cleanup: (Y/N) Y

pH: 7.5

Sulfur Cleanup: (Y/N) Y

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

319-84-6-----	alpha-BHC	11	U
319-85-7-----	beta-BHC	11	U
319-86-8-----	delta-BHC	11	U
58-89-9-----	gamma-BHC (Lindane)	11	U
76-44-8-----	Heptachlor	11	U
309-00-2-----	Aldrin	11	U
1024-57-3-----	Heptachlor epoxide	24	P
959-98-8-----	Endosulfan I	11	U
60-57-1-----	Dieldrin	22	U
72-55-9-----	4,4'-DDE	22	U
72-20-8-----	Endrin	22	U
33213-65-9-----	Endosulfan II	22	U
72-54-8-----	4,4'-DDD	22	U
1031-07-8-----	Endosulfan sulfate	22	U
50-29-3-----	4,4'-DDT	22	U
72-43-5-----	Methoxychlor	110	U
53494-70-5-----	Endrin ketone	22	U
7421-93-4-----	Endrin aldehyde	22	U
5103-71-9-----	alpha-Chlordane	11	U
5103-74-2-----	gamma-Chlordane	11	U
8001-35-2-----	Toxaphene	1100	U
12674-11-2-----	Aroclor-1016	220	U
11104-28-2-----	Aroclor-1221	440	U
11141-16-5-----	Aroclor-1232	220	U
53469-21-9-----	Aroclor-1242	220	U
12672-29-6-----	Aroclor-1248	220	U
11097-69-1-----	Aroclor-1254	220	U
11096-82-5-----	Aroclor-1260	220	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

11DS0

Lab Name: E & E INC. Contract:
 Lab Code: EANDE Case No.: 9702.414 SAS No.: SDG No.: 75015
 Matrix: (soil/water) SOIL Lab Sample ID: 75019
 Sample wt/vol: 30.0 (g/mL) G Lab File ID:
 % Moisture: 37 decanted: (Y/N) N Date Received: 10/03/97
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/07/97
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/31/97
 Injection Volume: 2.00 (uL) Dilution Factor: 1.00
 GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) Y

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

319-84-6-----	alpha-BHC	2.7	U
319-85-7-----	beta-BHC	2.7	U
319-86-8-----	delta-BHC	2.7	U
58-89-9-----	gamma-BHC (Lindane)	2.7	U
76-44-8-----	Heptachlor	2.7	U
309-00-2-----	Aldrin	2.7	U
1024-57-3-----	Heptachlor epoxide	7.2	
959-98-8-----	Endosulfan I	2.7	U
60-57-1-----	Dieldrin	5.2	U
72-55-9-----	4,4'-DDE	5.2	U
72-20-8-----	Endrin	5.2	U
33213-65-9-----	Endosulfan II	5.2	U
72-54-8-----	4,4'-DDD	5.2	U
1031-07-8-----	Endosulfan sulfate	5.2	U
50-29-3-----	4,4'-DDT	5.2	U
72-43-5-----	Methoxychlor	27	U
53494-70-5-----	Endrin ketone	5.2	U
7421-93-4-----	Endrin aldehyde	5.2	U
5103-71-9-----	alpha-Chlordane	2.7	U
5103-74-2-----	gamma-Chlordane	2.7	U
8001-35-2-----	Toxaphene	270	U
12674-11-2-----	Aroclor-1016	52	U
11104-28-2-----	Aroclor-1221	110	U
11141-16-5-----	Aroclor-1232	52	U
53469-21-9-----	Aroclor-1242	52	U
12672-29-6-----	Aroclor-1248	52	U
11097-69-1-----	Aroclor-1254	52	U
11096-82-5-----	Aroclor-1260	52	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

11DSD

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414

SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75020

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 36 decanted: (Y/N) N

Date Received: 10/03/97

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/07/97

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 10/31/97

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y

pH: 6.9

Sulfur Cleanup: (Y/N) Y

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

319-84-6-----	alpha-BHC	2.7	U
319-85-7-----	beta-BHC	2.7	U
319-86-8-----	delta-BHC	2.7	U
58-89-9-----	gamma-BHC (Lindane)	2.7	U
76-44-8-----	Heptachlor	2.7	U
309-00-2-----	Aldrin	2.7	U
1024-57-3-----	Heptachlor epoxide	4.6	
959-98-8-----	Endosulfan I	2.7	U
60-57-1-----	Dieldrin	5.2	U
72-55-9-----	4,4'-DDE	5.2	U
72-20-8-----	Endrin	5.2	U
33213-65-9-----	Endosulfan II	5.2	U
72-54-8-----	4,4'-DDD	5.2	U
1031-07-8-----	Endosulfan sulfate	5.2	U
50-29-3-----	4,4'-DDT	5.2	U
72-43-5-----	Methoxychlor	27	U
53494-70-5-----	Endrin ketone	5.2	U
7421-93-4-----	Endrin aldehyde	5.2	U
5103-71-9-----	alpha-Chlordane	2.7	U
5103-74-2-----	gamma-Chlordane	2.7	U
8001-35-2-----	Toxaphene	270	U
12674-11-2-----	Aroclor-1016	52	U
11104-28-2-----	Aroclor-1221	100	U
11141-16-5-----	Aroclor-1232	52	U
53469-21-9-----	Aroclor-1242	52	U
12672-29-6-----	Aroclor-1248	52	U
11097-69-1-----	Aroclor-1254	52	U
11096-82-5-----	Aroclor-1260	52	U

ID
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

12CS0

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414

SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75021

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 27 decanted: (Y/N) N

Date Received: 10/03/97

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/07/97

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 10/31/97

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y

pH: 7.2

Sulfur Cleanup: (Y/N) Y

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

319-84-6-----alpha-BHC	2.3	U
319-85-7-----beta-BHC	2.3	U
319-86-8-----delta-BHC	2.3	U
58-89-9-----gamma-BHC (Lindane)	2.3	U
76-44-8-----Heptachlor	2.3	U
309-00-2-----Aldrin	2.3	U
1024-57-3-----Heptachlor epoxide	2.3	U
959-98-8-----Endosulfan I	2.3	U
60-57-1-----Dieldrin	4.5	U
72-55-9-----4,4'-DDE	4.5	U
72-20-8-----Endrin	4.5	U
33213-65-9-----Endosulfan II	4.5	U
72-54-8-----4,4'-DDD	4.5	U
1031-07-8-----Endosulfan sulfate	4.5	U
50-29-3-----4,4'-DDT	4.5	U
72-43-5-----Methoxychlor	23	U
53494-70-5-----Endrin ketone	4.5	U
7421-93-4-----Endrin aldehyde	4.5	U
5103-71-9-----alpha-Chlordane	2.3	U
5103-74-2-----gamma-Chlordane	2.3	U
8001-35-2-----Toxaphene	230	U
12674-11-2-----Aroclor-1016	45	U
11104-28-2-----Aroclor-1221	92	U
11141-16-5-----Aroclor-1232	45	U
53469-21-9-----Aroclor-1242	45	U
12672-29-6-----Aroclor-1248	45	U
11097-69-1-----Aroclor-1254	45	U
11096-82-5-----Aroclor-1260	45	U

1

INORGANIC ANALYSES DATA SHEET

01ASO

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

[illegible]

Color Before: _____ Clarity Before: _____ Texture: CY _____
Color After: Y _____ Clarity After: C _____ Artifacts: YES _____

Comments:

CLIENT SAMPLE ID : TTEF-01-ASO100397

1
INORGANIC ANALYSES DATA SHEET

03ASO

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

[illegible]

Comments:

CLIENT SAMPLE ID : TTEF-03-AS0100397

FORM I - IN

10/95

1
INORGANIC ANALYSES DATA SHEET

05ASO

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____
Lab Code: EANDE Case No.: 9702.414 SAS No.: _____ SDG No.: 75015
Matrix (soil/water): SOIL Lab Sample ID: 75017
Level (low/med): LOW Date Received: 10/03/97
% Solids: 78.5

[illegible]

Color Before: _____ Clarity Before: _____ Texture: M _____
Color After: Y Clarity After: C Artifacts: YES

CLIENT SAMPLE ID : TTEF-05-AS0100397

1
INORGANIC ANALYSES DATA SHEET

10ASO

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

B-109

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1

INORGANIC ANALYSES DATA SHEET

10ASO

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____
Lab Code: EANDE Case No.: 9702.414 SAS No.: _____ SDG No.: 75015
Matrix (soil/water): SOIL Lab Sample ID: 75018
Level (low/med): LOW Date Received: 10/03/97
% Solids: 76.5

[illegible]

Color Before:
Color After: Y

Clarity Before: _____
Clarity After: C

Texture: G _____
Artifacts:

Comments:

CLIENT SAMPLE ID : TTEF-10-ASO100397

1
INORGANIC ANALYSES DATA SHEET

11DSO

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____
Lab Code: EANDE Case No.: 9702.414 SAS No.: _____ SDG No.: 75015
Matrix (soil/water): SOIL Lab Sample ID: 75019
Level (low/med): LOW Date Received: 10/03/97
% Solids: 63.3

[illegible]

Color Before: _____ Clarity Before: _____ Texture: H _____
Color After: Y _____ Clarity After: C _____ Artifacts: YES _____

CLIENT SAMPLE ID : TTEF-11-DSO100397

INORGANIC ANALYSES DATA SHEET

11DSD

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

[illegible]

Comments:

CLIENT SAMPLE ID : TTEF-11-DSD100397

1
INORGANIC ANALYSES DATA SHEET

12CSO

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____
Lab Code: EANDE Case No.: 9702.414 SAS No.: _____ SDG No.: 75015
Matrix (soil/water): SOIL Lab Sample ID: 75021
Level (low/med): LOW Date Received: 10/03/97
% Solids: 73.0

[illegible]

Color Before: _____ Clarity Before: _____ Texture: CY _____
Color After: Y Clarity After: C Artifacts: YES _____

CLIENT SAMPLE ID : TTEF-12-CS0100397

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

10SO

Lab Name: E & E INC. Contract: SDG No.: 75015

Lab Code: EANDE Case No.: 9702.414 SAS No.: Lab Sample ID: 75022

Matrix: (soil/water) SOIL Lab File ID: D6872

Sample wt/vol: 5.0 (g/mL) G Date Received: 10/03/97

Level: (low/med) LOW Date Analyzed: 10/06/97

% Moisture: not dec. 27 Dilution Factor: 1.0

GC Column: DB-624 ID: 0.530 (mm) Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	14	U
74-83-9	Bromomethane	14	U
75-01-4	Vinyl Chloride	14	U
75-00-3	Chloroethane	14	U
75-09-2	Methylene Chloride	14	U
67-64-1	Acetone	14	U
75-15-0	Carbon Disulfide	14	U
75-35-4	1,1-Dichloroethene	14	U
75-34-3	1,1-Dichloroethane	14	U
540-59-0	1,2-Dichloroethene (total)	14	U
67-66-3	Chloroform	14	U
107-06-2	1,2-Dichloroethane	14	U
78-93-3	2-Butanone	14	U
71-55-6	1,1,1-Trichloroethane	14	U
56-23-5	Carbon Tetrachloride	14	U
75-27-4	Bromodichloromethane	14	U
78-87-5	1,2-Dichloropropane	14	U
10061-01-5	cis-1,3-Dichloropropene	14	U
79-01-6	Trichloroethene	14	U
124-48-1	Dibromochloromethane	14	U
79-00-5	1,1,2-Trichloroethane	14	U
71-43-2	Benzene	14	U
10061-02-6	trans-1,3-Dichloropropene	14	U
75-25-2	Bromoform	14	U
108-10-1	4-Methyl-2-Pentanone	14	U
591-78-6	2-Hexanone	14	U
127-18-4	Tetrachloroethene	14	U
79-34-5	1,1,2,2-Tetrachloroethane	14	U
108-88-3	Toluene	14	U
108-90-7	Chlorobenzene	14	U
100-41-4	Ethylbenzene	14	U
100-42-5	Styrene	14	U
1330-20-7	Xylene (total)	14	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

11SO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75023

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: D6873

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: not dec. 46

Date Analyzed: 10/06/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3-----	Chloromethane	19	U
74-83-9-----	Bromomethane	19	U
75-01-4-----	Vinyl Chloride	19	U
75-00-3-----	Chloroethane	19	U
75-09-2-----	Methylene Chloride	19	U
67-64-1-----	Acetone	19	U
75-15-0-----	Carbon Disulfide	19	U
75-35-4-----	1,1-Dichloroethene	19	U
75-34-3-----	1,1-Dichloroethane	19	U
540-59-0-----	1,2-Dichloroethene (total)	19	U
67-66-3-----	Chloroform	19	U
107-06-2-----	1,2-Dichloroethane	19	U
78-93-3-----	2-Butanone	19	U
71-55-6-----	1,1,1-Trichloroethane	19	U
56-23-5-----	Carbon Tetrachloride	19	U
75-27-4-----	Bromodichloromethane	19	U
78-87-5-----	1,2-Dichloropropane	19	U
10061-01-5-----	cis-1,3-Dichloropropene	19	U
79-01-6-----	Trichloroethene	19	U
124-48-1-----	Dibromochloromethane	19	U
79-00-5-----	1,1,2-Trichloroethane	19	U
71-43-2-----	Benzene	19	U
10061-02-6-----	trans-1,3-Dichloropropene	19	U
75-25-2-----	Bromoform	19	U
108-10-1-----	4-Methyl-2-Pentanone	19	U
591-78-6-----	2-Hexanone	19	U
127-18-4-----	Tetrachloroethene	19	U
79-34-5-----	1,1,2,2-Tetrachloroethane	19	U
108-88-3-----	Toluene	19	U
108-90-7-----	Chlorobenzene	19	U
100-41-4-----	Ethylbenzene	19	U
100-42-5-----	Styrene	19	U
1330-20-7-----	Xylene (total)	19	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

12SO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75024

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: D6874

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: not dec. 32

Date Analyzed: 10/06/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3-----	Chloromethane	15	U
74-83-9-----	Bromomethane	15	U
75-01-4-----	Vinyl Chloride	15	U
75-00-3-----	Chloroethane	15	U
75-09-2-----	Methylene Chloride	15	U
67-64-1-----	Acetone	15	U
75-15-0-----	Carbon Disulfide	15	U
75-35-4-----	1,1-Dichloroethene	15	U
75-34-3-----	1,1-Dichloroethane	15	U
540-59-0-----	1,2-Dichloroethene (total)	15	U
67-66-3-----	Chloroform	15	U
107-06-2-----	1,2-Dichloroethane	15	U
78-93-3-----	2-Butanone	15	U
71-55-6-----	1,1,1-Trichloroethane	15	U
56-23-5-----	Carbon Tetrachloride	15	U
75-27-4-----	Bromodichloromethane	15	U
78-87-5-----	1,2-Dichloropropane	15	U
10061-01-5-----	cis-1,3-Dichloropropene	15	U
79-01-6-----	Trichloroethene	15	U
124-48-1-----	Dibromochloromethane	15	U
79-00-5-----	1,1,2-Trichloroethane	15	U
71-43-2-----	Benzene	15	U
10061-02-6-----	trans-1,3-Dichloropropene	15	U
75-25-2-----	Bromoform	15	U
108-10-1-----	4-Methyl-2-Pentanone	15	U
591-78-6-----	2-Hexanone	15	U
127-18-4-----	Tetrachloroethene	15	U
79-34-5-----	1,1,2,2-Tetrachloroethane	15	U
108-88-3-----	Toluene	15	U
108-90-7-----	Chlorobenzene	15	U
100-41-4-----	Ethylbenzene	15	U
100-42-5-----	Styrene	15	U
1330-20-7-----	Xylene (total)	15	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

13SO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75025

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: D6875

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: not dec. 24

Date Analyzed: 10/06/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	13	U
67-64-1	Acetone	13	U
75-15-0	Carbon Disulfide	13	U
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-Dichloroethene (total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-Dichloroethane	13	U
78-93-3	2-Butanone	13	U
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-Dichloropropane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-Trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
108-88-3	Toluene	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
1330-20-7	Xylene (total)	13	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

14

b Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75026

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: D6876

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: not dec. 17

Date Analyzed: 10/06/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3-----	Chloromethane	12	U
74-83-9-----	Bromomethane	12	U
75-01-4-----	Vinyl Chloride	12	U
75-00-3-----	Chloroethane	12	U
75-09-2-----	Methylene Chloride	12	U
67-64-1-----	Acetone	15	B
75-15-0-----	Carbon Disulfide	12	U
75-35-4-----	1,1-Dichloroethene	12	U
75-34-3-----	1,1-Dichloroethane	12	U
540-59-0-----	1,2-Dichloroethene (total)	12	U
67-66-3-----	Chloroform	12	U
107-06-2-----	1,2-Dichloroethane	12	U
78-93-3-----	2-Butanone	12	U
71-55-6-----	1,1,1-Trichloroethane	12	U
56-23-5-----	Carbon Tetrachloride	12	U
75-27-4-----	Bromodichloromethane	12	U
78-87-5-----	1,2-Dichloropropane	12	U
10061-01-5-----	cis-1,3-Dichloropropene	12	U
79-01-6-----	Trichloroethene	12	U
124-48-1-----	Dibromochloromethane	12	U
79-00-5-----	1,1,2-Trichloroethane	12	U
71-43-2-----	Benzene	12	U
10061-02-6-----	trans-1,3-Dichloropropene	12	U
75-25-2-----	Bromoform	12	U
108-10-1-----	4-Methyl-2-Pentanone	12	U
591-78-6-----	2-Hexanone	12	U
127-18-4-----	Tetrachloroethene	12	U
79-34-5-----	1,1,2,2-Tetrachloroethane	12	U
108-88-3-----	Toluene	12	U
108-90-7-----	Chlorobenzene	12	U
100-41-4-----	Ethylbenzene	12	U
100-42-5-----	Styrene	12	U
1330-20-7-----	Xylene (total)	12	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

10SO

Lab Name: E & E INC.

Contract:

Lab Code: EAND E

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75022

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1102

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/23/97

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

108-95-2-----	Phenol	450	U
111-44-4-----	bis(2-Chloroethyl)Ether	450	U
95-57-8-----	2-Chlorophenol	450	U
541-73-1-----	1,3-Dichlorobenzene	450	U
106-46-7-----	1,4-Dichlorobenzene	450	U
95-50-1-----	1,2-Dichlorobenzene	450	U
95-48-7-----	2-Methylphenol	450	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	450	U
106-44-5-----	4-Methylphenol	450	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	450	U
67-72-1-----	Hexachloroethane	450	U
98-95-3-----	Nitrobenzene	450	U
78-59-1-----	Isophorone	450	U
88-75-5-----	2-Nitrophenol	450	U
105-67-9-----	2,4-Dimethylphenol	450	U
111-91-1-----	bis(2-Chloroethoxy)Methane	450	U
120-83-2-----	2,4-Dichlorophenol	450	U
120-82-1-----	1,2,4-Trichlorobenzene	450	U
91-20-3-----	Naphthalene	1200	U
106-47-8-----	4-Chloroaniline	450	U
87-68-3-----	Hexachlorobutadiene	450	U
59-50-7-----	4-Chloro-3-Methylphenol	450	U
91-57-6-----	2-Methylnaphthalene	470	U
77-47-4-----	Hexachlorocyclopentadiene	450	U
88-06-2-----	2,4,6-Trichlorophenol	450	U
95-95-4-----	2,4,5-Trichlorophenol	1100	U
91-58-7-----	2-Chloronaphthalene	450	U
88-74-4-----	2-Nitroaniline	1100	U
131-11-3-----	Dimethylphthalate	450	U
208-96-8-----	Acenaphthylene	69	J
606-20-2-----	2,6-Dinitrotoluene	450	U
99-09-2-----	3-Nitroaniline	1100	U
83-32-9-----	Acenaphthene	1200	U
51-28-5-----	2,4-Dinitrophenol	1100	U
100-02-7-----	4-Nitrophenol	1100	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

10SO

b Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75022

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1102

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/23/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

CONCENTRATION UNITS:

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

Q

CAS NO.

COMPOUND

132-64-9-----Dibenzofuran

970

121-14-2-----2,4-Dinitrotoluene

450

84-66-2-----Diethylphthalate

450

7005-72-3-----4-Chlorophenyl-phenylether

450

86-73-7-----Fluorene

1300

100-01-6-----4-Nitroaniline

1100

534-52-1-----4,6-Dinitro-2-methylphenol

1100

86-30-6-----N-Nitrosodiphenylamine (1)

450

101-55-3-----4-Bromophenyl-phenylether

450

118-74-1-----Hexachlorobenzene

450

87-86-5-----Pentachlorophenol

1100

85-01-8-----Phenanthrene

10000

120-12-7-----Anthracene

1800

86-74-8-----Carbazole

1300

84-74-2-----Di-n-Butylphthalate

240

206-44-0-----Fluoranthene

8700

129-00-0-----Pyrene

15000

85-68-7-----Butylbenzylphthalate

180

91-94-1-----3,3'-Dichlorobenzidine

450

56-55-3-----Benzo(a)Anthracene

6800

218-01-9-----Chrysene

6100

117-81-7-----bis(2-Ethylhexyl)Phthalate

15000

117-84-0-----Di-n-Octyl Phthalate

450

205-99-2-----Benzo(b)Fluoranthene

8100

207-08-9-----Benzo(k)Fluoranthene

450

50-32-8-----Benzo(a)Pyrene

4100

193-39-5-----Indeno(1,2,3-cd)Pyrene

2800

53-70-3-----Dibenz(a,h)Anthracene

1300

191-24-2-----Benzo(g,h,i)Perylene

2700

U

U

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J

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

10SO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75022

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1102

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/23/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.1

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.	Trimethylbenzene isomer	9.30	200	J
2.	Trimethylbenzene isomer	10.65	200	J
3.	Methylindan isomer	13.59	97	J
4. 90-12-0	Naphthalene, 1-methyl-	16.88	230	JN
5.	Dimethylnaphthalene isomer	18.58	190	J
6.	Dimethylnaphthalene isomer	18.84	480	J
7.	Dimethylnaphthalene isomer	19.21	230	J
8.	Trimethylnaphthalene isomer	20.99	200	J
9.	Trimethylnaphthalene isomer	21.27	170	J
10.	Unknown PAH	21.93	260	J
11.	Methyldibenzofuran isomer	22.19	340	J
12.	Methyldibenzofuran isomer	22.42	470	J
13.	Unknown PAH	23.40	310	J
14.	Unknown PAH	23.52	290	J
15.	Unknown PAH	23.90	430	J
16.	Unknown oxygenated PAH	24.06	340	J
17.	Unknown alkyl aromatic	24.18	290	J
18. 132-65-0	Dibenzothiophene	24.28	410	JN
19.	Unknown PAH	25.67	580	J
20.	Unknown PAH	26.24	610	J
21.	Unknown PAH	26.34	810	J
22.	Unknown PAH	26.45	330	J
23.	Unknown PAH	26.60	2100	J
24.	Unknown PAH	27.20	410	J
25.	Unknown oxygenated PAH	27.33	760	J
26.	Unknown PAH	27.68	140	J
27.	Unknown PAH	27.80	230	J
28.	Unknown PAH	28.06	350	J
29.	Unknown PAH	30.30	830	J
30.	Unknown PAH	30.62	1800	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

10SODL

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75022DL

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1115

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/24/97

Injection Volume: 2.0 (uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.1

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

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	2300	U
111-44-4-----	bis(2-Chloroethyl) Ether	2300	U
95-57-8-----	2-Chlorophenol	2300	U
541-73-1-----	1,3-Dichlorobenzene	2300	U
106-46-7-----	1,4-Dichlorobenzene	2300	U
95-50-1-----	1,2-Dichlorobenzene	2300	U
95-48-7-----	2-Methylphenol	2300	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	2300	U
106-44-5-----	4-Methylphenol	2300	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	2300	U
67-72-1-----	Hexachloroethane	2300	U
98-95-3-----	Nitrobenzene	2300	U
78-59-1-----	Isophorone	2300	U
88-75-5-----	2-Nitrophenol	2300	U
105-67-9-----	2,4-Dimethylphenol	2300	U
111-91-1-----	bis(2-Chloroethoxy) Methane	2300	U
120-83-2-----	2,4-Dichlorophenol	2300	U
120-82-1-----	1,2,4-Trichlorobenzene	2300	U
91-20-3-----	Naphthalene	1200	J
106-47-8-----	4-Chloroaniline	2300	U
87-68-3-----	Hexachlorobutadiene	2300	U
59-50-7-----	4-Chloro-3-Methylphenol	2300	U
91-57-6-----	2-Methylnaphthalene	420	J
77-47-4-----	Hexachlorocyclopentadiene	2300	U
88-06-2-----	2,4,6-Trichlorophenol	2300	U
95-95-4-----	2,4,5-Trichlorophenol	5500	U
91-58-7-----	2-Chloronaphthalene	2300	U
88-74-4-----	2-Nitroaniline	5500	U
131-11-3-----	Dimethylphthalate	2300	U
208-96-8-----	Acenaphthylene	2300	U
606-20-2-----	2,6-Dinitrotoluene	2300	U
99-09-2-----	3-Nitroaniline	5500	U
83-32-9-----	Acenaphthene	1300	J
51-28-5-----	2,4-Dinitrophenol	5500	U
100-02-7-----	4-Nitrophenol	5500	U

R

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

10SODL

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75022DL

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1115

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/24/97

Injection Volume: 2.0 (uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.1

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

CAS NO.

COMPOUND

Q

132-64-9-----	Dibenzofuran	950	J
121-14-2-----	2,4-Dinitrotoluene	2300	U
84-66-2-----	Diethylphthalate	2300	U
7005-72-3-----	4-Chlorophenyl-phenylether	2300	U
86-73-7-----	Fluorene	1500	J
100-01-6-----	4-Nitroaniline	5500	U
534-52-1-----	4,6-Dinitro-2-methylphenol	5500	U
86-30-6-----	N-Nitrosodiphenylamine (1)	2300	U
101-55-3-----	4-Bromophenyl-phenylether	2300	U
118-74-1-----	Hexachlorobenzene	2300	U
87-86-5-----	Pentachlorophenol	5500	U
85-01-8-----	Phenanthrene	10000	
120-12-7-----	Anthracene	1700	J
86-74-8-----	Carbazole	1100	J
84-74-2-----	Di-n-Butylphthalate	2300	U
206-44-0-----	Fluoranthene	7800	
129-00-0-----	Pyrene	12000	
85-68-7-----	Butylbenzylphthalate	2300	U
91-94-1-----	3,3'-Dichlorobenzidine	2300	U
56-55-3-----	Benzo(a)Anthracene	4700	
218-01-9-----	Chrysene	5100	
117-81-7-----	bis(2-Ethylhexyl)Phthalate	13000	B
117-84-0-----	Di-n-Octyl Phthalate	2300	U
205-99-2-----	Benzo(b)Fluoranthene	3700	
207-08-9-----	Benzo(k)Fluoranthene	3900	
50-32-8-----	Benzo(a)Pyrene	3600	
193-39-5-----	Indeno(1,2,3-cd)Pyrene	2300	
53-70-3-----	Dibenz(a,h)Anthracene	1100	J
191-24-2-----	Benzo(g,h,i)Perylene	2600	

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

10SODL

b Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75022DL

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1115

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/24/97

Injection Volume: 2.0(uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.1

Number TICs found: 14

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Dimethylnaphthalene isomer	18.69	610	J
2.	Methyldibenzofuran isomer	22.04	490	J
3.	Unknown PAH	23.71	570	J
4. 132-65-0	Dibenzothiophene	24.09	630	JN
5.	Unknown PAH	26.06	940	J
6.	Unknown PAH	26.14	1100	J
7.	Unknown PAH	26.40	2000	J
8.	Unknown PAH	27.02	650	J
9.	Unknown oxygenated PAH	27.13	950	J
10.	Unknown PAH	27.86	980	J
11.	Unknown oxygenated PAH	28.11	1000	J
12.	Unknown alkyl aromatic	28.77	690	J
13.	Unknown PAH	30.10	1100	J
14.	Unknown alkyl aromatic	33.48	2000	J

R

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

11SO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75023

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1103

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 46 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/23/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6

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

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	610	U
111-44-4-----	bis(2-Chloroethyl) Ether	610	U
95-57-8-----	2-Chlorophenol	610	U
541-73-1-----	1,3-Dichlorobenzene	610	U
106-46-7-----	1,4-Dichlorobenzene	610	U
95-50-1-----	1,2-Dichlorobenzene	610	U
95-48-7-----	2-Methylphenol	610	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	610	U
106-44-5-----	4-Methylphenol	610	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	610	U
67-72-1-----	Hexachloroethane	610	U
98-95-3-----	Nitrobenzene	610	U
78-59-1-----	Isophorone	610	U
88-75-5-----	2-Nitrophenol	610	U
105-67-9-----	2,4-Dimethylphenol	610	U
111-91-1-----	bis(2-Chloroethoxy)Methane	610	U
120-83-2-----	2,4-Dichlorophenol	610	U
120-82-1-----	1,2,4-Trichlorobenzene	610	U
91-20-3-----	Naphthalene	690	
106-47-8-----	4-Chloroaniline	610	U
87-68-3-----	Hexachlorobutadiene	610	U
59-50-7-----	4-Chloro-3-Methylphenol	610	U
91-57-6-----	2-Methylnaphthalene	120	J
77-47-4-----	Hexachlorocyclopentadiene	610	U
88-06-2-----	2,4,6-Trichlorophenol	610	U
95-95-4-----	2,4,5-Trichlorophenol	1500	U
91-58-7-----	2-Chloronaphthalene	610	U
88-74-4-----	2-Nitroaniline	1500	U
131-11-3-----	Dimethylphthalate	610	U
208-96-8-----	Acenaphthylene	610	U
606-20-2-----	2,6-Dinitrotoluene	610	U
99-09-2-----	3-Nitroaniline	1500	U
83-32-9-----	Acenaphthene	350	J
51-28-5-----	2,4-Dinitrophenol	1500	U
100-02-7-----	4-Nitrophenol	1500	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

11SO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75023

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1103

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 46 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/23/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6

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

CAS NO.

COMPOUND

Q

132-64-9-----	Dibenzofuran	360	J
121-14-2-----	2,4-Dinitrotoluene	610	U
84-66-2-----	Diethylphthalate	610	U
7005-72-3-----	4-Chlorophenyl-phenylether	610	U
86-73-7-----	Fluorene	420	J
100-01-6-----	4-Nitroaniline	1500	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1500	U
86-30-6-----	N-Nitrosodiphenylamine (1)	610	U
101-55-3-----	4-Bromophenyl-phenylether	610	U
118-74-1-----	Hexachlorobenzene	610	U
87-86-5-----	Pentachlorophenol	1500	U
85-01-8-----	Phenanthrene	5600	E J
120-12-7-----	Anthracene	600	J
86-74-8-----	Carbazole	680	
84-74-2-----	Di-n-Butylphthalate	200	J
206-44-0-----	Fluoranthene	6500	E
129-00-0-----	Pyrene	9900	E J
85-68-7-----	Butylbenzylphthalate	220	J
91-94-1-----	3,3'-Dichlorobenzidine	610	U
56-55-3-----	Benzo(a)Anthracene	4000	
218-01-9-----	Chrysene	4400	
117-81-7-----	bis(2-Ethylhexyl)Phthalate	530	~~BJ~~
117-84-0-----	Di-n-Octyl Phthalate	610	U
205-99-2-----	Benzo(b)Fluoranthene	4400	
207-08-9-----	Benzo(k)Fluoranthene	2600	
50-32-8-----	Benzo(a)Pyrene	3100	
193-39-5-----	Indeno(1,2,3-cd)Pyrene	2200	
53-70-3-----	Dibenz(a,h)Anthracene	890	
191-24-2-----	Benzo(g,h,i)Perylene	2000	

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

11SO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75023

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1103

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 46 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/23/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Trimethylbenzene isomer	9.28	200	J
2.	Methylbenzoquinone isomer	10.50	200	J
3.	Butylbenzene isomer	12.90	200	J
4.	Unknown hydrocarbon	14.21	720	J
5.	Dimethylnaphthalene isomer	18.85	260	J
6.	Methyldibenzofuran isomer	22.19	350	J
7.	Hydroxymethoxybenzaldehyde i	22.37	910	J
8.	Trimethoxylbenzene isomer	22.87	30	J
9.	Unknown PAH	23.41	29	J
10.	Unknown hydrocarbon	23.65	210	J
11.	Unknown PAH	23.89	55	J
12.	Unknown oxygenated PAH	24.06	78	J
13. 132-65-0	Dibenzothiophene	24.26	120	JN
14.	Unknown carboxylic ester	25.05	1200	J
15.	Unknown PAH	25.66	76	J
16.	Unknown hydrocarbon	25.98	77	J
17.	Unknown PAH	26.23	89	J
18.	Unknown PAH	26.34	260	J
19. 57-10-3	Hexadecanoic acid	26.64	300	JN
20.	Unknown PAH	27.19	180	J
21.	Unknown hydrocarbon	27.29	470	J
22.	Unknown carboxylic ester	27.64	380	J
23.	Unknown PAH	28.05	72	J
24.	Benzonaphthofuran isomer	29.41	160	J
25.	Benzonaphthofuran isomer	29.59	140	J
26.	Unknown carboxylic ester	29.99	880	J
27.	Unknown PAH	30.29	710	J
28.	Unknown oxygenated hydrocarb	35.98	410	J
29.	Unknown oxygenated hydrocarb	38.18	620	J
30.	Unknown oxygenated hydrocarb	43.73	5000	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

11SODL

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75023DL

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1116

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 46 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/24/97

Injection Volume: 2.0(uL)

Dilution Factor: 4.0

GPC Cleanup: (Y/N) Y pH: 6.6

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

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	2400	U
111-44-4-----	bis(2-Chloroethyl) Ether	2400	U
95-57-8-----	2-Chlorophenol	2400	U
541-73-1-----	1,3-Dichlorobenzene	2400	U
106-46-7-----	1,4-Dichlorobenzene	2400	U
95-50-1-----	1,2-Dichlorobenzene	2400	U
95-48-7-----	2-Methylphenol	2400	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	2400	U
106-44-5-----	4-Methylphenol	2400	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	2400	U
67-72-1-----	Hexachloroethane	2400	U
98-95-3-----	Nitrobenzene	2400	U
78-59-1-----	Isophorone	2400	U
88-75-5-----	2-Nitrophenol	2400	U
105-67-9-----	2,4-Dimethylphenol	2400	U
111-91-1-----	bis(2-Chloroethoxy)Methane	2400	U
120-83-2-----	2,4-Dichlorophenol	2400	U
120-82-1-----	1,2,4-Trichlorobenzene	2400	U
91-20-3-----	Naphthalene	720	J
106-47-8-----	4-Chloroaniline	2400	U
87-68-3-----	Hexachlorobutadiene	2400	U
59-50-7-----	4-Chloro-3-Methylphenol	2400	U
91-57-6-----	2-Methylnaphthalene	2400	U
77-47-4-----	Hexachlorocyclopentadiene	2400	U
88-06-2-----	2,4,6-Trichlorophenol	2400	U
95-95-4-----	2,4,5-Trichlorophenol	5900	U
91-58-7-----	2-Chloronaphthalene	2400	U
88-74-4-----	2-Nitroaniline	5900	U
131-11-3-----	Dimethylphthalate	2400	U
208-96-8-----	Acenaphthylene	2400	U
606-20-2-----	2,6-Dinitrotoluene	2400	U
99-09-2-----	3-Nitroaniline	5900	U
83-32-9-----	Acenaphthene	400	J
51-28-5-----	2,4-Dinitrophenol	5900	U
100-02-7-----	4-Nitrophenol	5900	U

R

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

11SODL

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75023DL

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1116

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 46 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/24/97

Injection Volume: 2.0 (uL)

Dilution Factor: 4.0

GPC Cleanup: (Y/N) Y pH: 6.6

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

CAS NO.

COMPOUND

Q

132-64-9-----	Dibenzofuran	400	J	11/11/97 ↓
121-14-2-----	2,4-Dinitrotoluene	2400	U	
84-66-2-----	Diethylphthalate	2400	U	
7005-72-3-----	4-Chlorophenyl-phenylether	2400	U	
86-73-7-----	Fluorene	530	J	
100-01-6-----	4-Nitroaniline	5900	U	
534-52-1-----	4,6-Dinitro-2-methylphenol	5900	U	
86-30-6-----	N-Nitrosodiphenylamine (1)	2400	U	
101-55-3-----	4-Bromophenyl-phenylether	2400	U	
118-74-1-----	Hexachlorobenzene	2400	U	
87-86-5-----	Pentachlorophenol	5900	U	
85-01-8-----	Phenanthrene	6500		
120-12-7-----	Anthracene	590	J	
86-74-8-----	Carbazole	740	J	
84-74-2-----	Di-n-Butylphthalate	2400	U	
206-44-0-----	Fluoranthene	7200		
129-00-0-----	Pyrene	11000		
85-68-7-----	Butylbenzylphthalate	2400	U	
91-94-1-----	3,3'-Dichlorobenzidine	2400	U	
56-55-3-----	Benzo(a)Anthracene	3200		
218-01-9-----	Chrysene	4200		
117-81-7-----	bis(2-Ethylhexyl)Phthalate	460	~~BJ~~	
117-84-0-----	Di-n-Octyl Phthalate	2400	U	
205-99-2-----	Benzo(b)Fluoranthene	3800		
207-08-9-----	Benzo(k)Fluoranthene	3200		
50-32-8-----	Benzo(a)Pyrene	3100		
193-39-5-----	Indeno(1,2,3-cd)Pyrene	2100	J	
53-70-3-----	Dibenz(a,h)Anthracene	670	J	
191-24-2-----	Benzo(g,h,i)Perylene	1900	J	

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

11SODL

Lab Name: E & E INC.

Contract:

Lab Code: EANDL

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75023DL

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1116

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 46 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/24/97

Injection Volume: 2.0 (uL)

Dilution Factor: 4.0

GPC Cleanup: (Y/N) Y pH: 6.6

Number TICs found: 18

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Methoxymethylbenzoquinone iso	14.06	680	J
2.	Hydroxymethoxybenzaldehyde i	22.18	4400	J
3.	Unknown hydrocarbon	23.48	1100	J
4. 132-65-0	Dibenzothiophene	24.09	700	JN
5.	Unknown carboxylic ester	24.88	7100	J
6.	Unknown PAH	26.05	530	J
7.	Unknown	26.18	1600	J
8.	Unknown PAH	26.41	1300	J
9.	Unknown PAH	27.02	910	J
10.	Unknown hydrocarbon	27.10	2900	J
11.	Unknown carboxylic ester	27.47	2300	J
12.	Unknown carboxylic ester	29.81	680	J
13.	Unknown PAH	30.10	720	J
14.	Unknown oxygenated hydrocarb	31.45	1300	J
15.	Unknown PAH	34.09	1400	J
16.	Unknown oxygenated hydrocarb	35.79	1500	J
17.	Unknown oxygenated hydrocarb	37.92	3200	J
18.	Unknown oxygenated hydrocarb	40.71	800	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

12SO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75024

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1104

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 32 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/23/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6

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

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	490	U
111-44-4-----	bis(2-Chloroethyl) Ether	490	U
95-57-8-----	2-Chlorophenol	490	U
541-73-1-----	1,3-Dichlorobenzene	490	U
106-46-7-----	1,4-Dichlorobenzene	490	U
95-50-1-----	1,2-Dichlorobenzene	490	U
95-48-7-----	2-Methylphenol	490	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	490	U
106-44-5-----	4-Methylphenol	490	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	490	U
67-72-1-----	Hexachloroethane	490	U
98-95-3-----	Nitrobenzene	490	U
78-59-1-----	Isophorone	490	U
88-75-5-----	2-Nitrophenol	490	U
105-67-9-----	2,4-Dimethylphenol	490	U
111-91-1-----	bis(2-Chloroethoxy)Methane	490	U
120-83-2-----	2,4-Dichlorophenol	490	U
120-82-1-----	1,2,4-Trichlorobenzene	490	U
91-20-3-----	Naphthalene	490	U
106-47-8-----	4-Chloroaniline	490	U
87-68-3-----	Hexachlorobutadiene	490	U
59-50-7-----	4-Chloro-3-Methylphenol	490	U
91-57-6-----	2-Methylnaphthalene	490	U
77-47-4-----	Hexachlorocyclopentadiene	490	U
88-06-2-----	2,4,6-Trichlorophenol	490	U
95-95-4-----	2,4,5-Trichlorophenol	1200	U
91-58-7-----	2-Chloronaphthalene	490	U
88-74-4-----	2-Nitroaniline	1200	U
131-11-3-----	Dimethylphthalate	490	U
208-96-8-----	Acenaphthylene	490	U
606-20-2-----	2,6-Dinitrotoluene	490	U
99-09-2-----	3-Nitroaniline	1200	U
83-32-9-----	Acenaphthene	490	U
51-28-5-----	2,4-Dinitrophenol	1200	U
100-02-7-----	4-Nitrophenol	1200	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

12SO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75024

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1104

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 32 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/23/97

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.6

CONCENTRATION UNITS:

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

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
132-64-9-----	Dibenzofuran	490	U
121-14-2-----	2,4-Dinitrotoluene	490	U
84-66-2-----	Diethylphthalate	490	U
7005-72-3-----	4-Chlorophenyl-phenylether	490	U
86-73-7-----	Fluorene	490	U
100-01-6-----	4-Nitroaniline	1200	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1200	U
86-30-6-----	N-Nitrosodiphenylamine (1)	490	U
101-55-3-----	4-Bromophenyl-phenylether	490	U
118-74-1-----	Hexachlorobenzene	490	U
87-86-5-----	Pentachlorophenol	1200	U
85-01-8-----	Phenanthrene	350	J
120-12-7-----	Anthracene	65	J
86-74-8-----	Carbazole	54	J
84-74-2-----	Di-n-Butylphthalate	110	J
206-44-0-----	Fluoranthene	530	
129-00-0-----	Pyrene	730	
85-68-7-----	Butylbenzylphthalate	490	U
91-94-1-----	3,3'-Dichlorobenzidine	490	U
56-55-3-----	Benzo(a)Anthracene	340	J
218-01-9-----	Chrysene	380	J
117-81-7-----	bis(2-Ethylhexyl)Phthalate	100	BS
117-84-0-----	Di-n-Octyl Phthalate	490	U
205-99-2-----	Benzo(b)Fluoranthene	560	
207-08-9-----	Benzo(k)Fluoranthene	490	U
50-32-8-----	Benzo(a)Pyrene	320	J
193-39-5-----	Indeno(1,2,3-cd)Pyrene	210	J
53-70-3-----	Dibenz(a,h)Anthracene	130	J
191-24-2-----	Benzo(g,h,i)Perylene	270	J

490B

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

12SO

Lab Name: E & E INC.

Contract:

Lab Code: EAND E

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75024

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1104

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 32 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/23/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.6

Number TICs found: 15

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.	Unknown	9.35	150	J
2.	Unknown oxygenated hydrocarb	24.90	120	BJ
3.	Unknown	25.10	160	J
4.	Unknown hydrocarbon	25.73	280	J
5. 57-10-3	Hexadecanoic acid	26.61	150	JN
6.	Unknown oxygenated hydrocarb	31.54	1000	BJ
7.	Unknown oxygenated hydrocarb	32.14	1500	BJ
8.	Unknown oxygenated hydrocarb	33.85	2200	J
9.	Unknown oxygenated hydrocarb	34.27	820	BJ
10.	Unknown oxygenated hydrocarb	34.82	620	J
11.	Unknown oxygenated hydrocarb	35.98	1100	J
12.	Unknown oxygenated hydrocarb	36.78	6400	BJ
13.	Unknown oxygenated hydrocarb	38.18	980	J
14.	Unknown hydrocarbon	41.05	1700	J
15.	Unknown	42.64	4500	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

13S0

Lab Name: E & E INC. Contract: _____

Lab Code: EANDE Case No.: 9702.414 SAS No.: _____ SDG No.: 75015

Matrix: (soil/water) SOIL Lab Sample ID: 75025

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E1117

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: 24 decanted: (Y/N) N Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/24/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	430	U
111-44-4	bis(2-Chloroethyl) Ether	430	U
95-57-8	2-Chlorophenol	430	U
541-73-1	1,3-Dichlorobenzene	430	U
106-46-7	1,4-Dichlorobenzene	430	U
95-50-1	1,2-Dichlorobenzene	430	U
95-48-7	2-Methylphenol	430	U
108-60-1	2,2'-oxybis(1-Chloropropane)	430	U
106-44-5	4-Methylphenol	430	U
621-64-7	N-Nitroso-Di-n-Propylamine	430	U
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
111-91-1	bis(2-Chloroethoxy)Methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
120-82-1	1,2,4-Trichlorobenzene	430	U
91-20-3	Naphthalene	57	J
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
59-50-7	4-Chloro-3-Methylphenol	430	U
91-57-6	2-Methylnaphthalene	53	J
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	1100	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	430	U
208-96-8	Acenaphthylene	430	U
606-20-2	2,6-Dinitrotoluene	430	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	110	J
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

13SO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75025

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1117

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 24 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/24/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6

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

CAS NO.

COMPOUND

Q

132-64-9-----	Dibenzofuran	78	J
121-14-2-----	2,4-Dinitrotoluene	430	U
84-66-2-----	Diethylphthalate	430	U
7005-72-3-----	4-Chlorophenyl-phenylether	430	U
86-73-7-----	Fluorene	150	J
100-01-6-----	4-Nitroaniline	1100	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1100	U
86-30-6-----	N-Nitrosodiphenylamine (1)	430	U
101-55-3-----	4-Bromophenyl-phenylether	430	U
118-74-1-----	Hexachlorobenzene	430	U
87-86-5-----	Pentachlorophenol	1100	U
85-01-8-----	Phenanthrene	1300	
120-12-7-----	Anthracene	430	U
86-74-8-----	Carbazole	110	J
84-74-2-----	Di-n-Butylphthalate	1100	
206-44-0-----	Fluoranthene	1000	
129-00-0-----	Pyrene	2200	
85-68-7-----	Butylbenzylphthalate	450	
91-94-1-----	3,3'-Dichlorobenzidine	430	U
56-55-3-----	Benzo(a)Anthracene	1200	
218-01-9-----	Chrysene	430	U
117-81-7-----	bis(2-Ethylhexyl)Phthalate	86000	~~BE~~
117-84-0-----	Di-n-Octyl Phthalate	430	U
205-99-2-----	Benzo(b)Fluoranthene	580	
207-08-9-----	Benzo(k)Fluoranthene	440	
50-32-8-----	Benzo(a)Pyrene	550	
193-39-5-----	Indeno(1,2,3-cd)Pyrene	390	J
53-70-3-----	Dibenz(a,h)Anthracene	200	J
191-24-2-----	Benzo(g,h,i)Perylene	410	J

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

13SO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75025

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1117

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 24 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/24/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 6.6

Number TICs found: 28

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown oxygenated hydrocarb	12.38	250	J
2.	Unknown hydrocarbon	14.50	350	J
3.	Unknown oxygenated hydrocarb	14.82	310	J
4.	Unknown oxygenated hydrocarb	15.05	270	J
5.	Unknown oxygenated hydrocarb	15.34	110	J
6.	Trimethylnaphthalene isomer	18.71	94	J
7.	Trimethylnaphthalene isomer	20.85	89	J
8.	Nonylphenol isomer	23.36	310	J
9.	Unknown alkyl phenol	23.84	210	J
10.	Unknown	26.22	180	J
11.	Unknown phosphate	31.94	180	J
12.	Unknown	34.07	1500	J
13.	Unknown	34.27	1600	J
14.	Unknown	34.47	770	J
15.	Unknown phosphate	34.67	1800	J
16.	Unknown phosphate	34.92	2100	J
17.	Unknown phosphate	35.21	6500	J
18.	Unknown phosphate	35.41	3700	J
19.	Unknown phthalate	35.64	1700	J
20.	Unknown phthalate	35.76	1500	J
21.	Unknown phthalate	35.87	2000	J
22.	Unknown phthalate	35.97	1700	J
23.	Unknown phthalate	36.11	1900	J
24.	Unknown phthalate	36.36	1300	J
25.	Unknown phthalate	36.49	540	J
26.	Unknown phthalate	36.63	880	J
27.	Unknown PAH	37.01	360	J
28.	Unknown oxygenated hydrocarb	37.94	290	J

FORM I SV-TIC

10/95

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

13SORE

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75025RE

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: B5353

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 24 decanted: (Y/N) N

Date Extracted: 10/27/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/31/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6

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

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	430	U
111-44-4-----	bis(2-Chloroethyl) Ether	430	U
95-57-8-----	2-Chlorophenol	430	U
541-73-1-----	1,3-Dichlorobenzene	430	U
106-46-7-----	1,4-Dichlorobenzene	430	U
95-50-1-----	1,2-Dichlorobenzene	430	U
95-48-7-----	2-Methylphenol	430	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	430	U
106-44-5-----	4-Methylphenol	430	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	430	U
67-72-1-----	Hexachloroethane	430	U
98-95-3-----	Nitrobenzene	430	U
78-59-1-----	Isophorone	430	U
88-75-5-----	2-Nitrophenol	430	U
105-67-9-----	2,4-Dimethylphenol	430	U
111-91-1-----	bis(2-Chloroethoxy) Methane	430	U
120-83-2-----	2,4-Dichlorophenol	430	U
120-82-1-----	1,2,4-Trichlorobenzene	430	U
91-20-3-----	Naphthalene	430	U
106-47-8-----	4-Chloroaniline	430	U
87-68-3-----	Hexachlorobutadiene	430	U
59-50-7-----	4-Chloro-3-Methylphenol	430	U
91-57-6-----	2-Methylnaphthalene	430	U
77-47-4-----	Hexachlorocyclopentadiene	430	U
88-06-2-----	2,4,6-Trichlorophenol	430	U
95-95-4-----	2,4,5-Trichlorophenol	1100	U
91-58-7-----	2-Chloronaphthalene	430	U
88-74-4-----	2-Nitroaniline	1100	U
131-11-3-----	Dimethylphthalate	430	U
208-96-8-----	Acenaphthylene	430	U
606-20-2-----	2,6-Dinitrotoluene	430	U
99-09-2-----	3-Nitroaniline	1100	U
83-32-9-----	Acenaphthene	52	J
51-28-5-----	2,4-Dinitrophenol	1100	U
100-02-7-----	4-Nitrophenol	1100	U

R



1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

13SORE

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75025RE

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: B5353

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 24 decanted: (Y/N) N

Date Extracted: 10/27/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/31/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6

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

CAS NO.

COMPOUND

Q

132-64-9-----	Dibenzofuran	430	U
121-14-2-----	2,4-Dinitrotoluene	430	U
84-66-2-----	Diethylphthalate	430	U
7005-72-3-----	4-Chlorophenyl-phenylether	430	U
86-73-7-----	Fluorene	59	J
100-01-6-----	4-Nitroaniline	1100	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1100	U
86-30-6-----	N-Nitrosodiphenylamine (1)	430	U
101-55-3-----	4-Bromophenyl-phenylether	430	U
118-74-1-----	Hexachlorobenzene	430	U
87-86-5-----	Pentachlorophenol	1100	U
85-01-8-----	Phenanthrene	670	
120-12-7-----	Anthracene	120	J
86-74-8-----	Carbazole	90	J
84-74-2-----	Di-n-Butylphthalate	57	J
206-44-0-----	Fluoranthene	1000	
129-00-0-----	Pyrene	1000	
85-68-7-----	Butylbenzylphthalate	430	U
91-94-1-----	3,3'-Dichlorobenzidine	430	U
56-55-3-----	Benzo(a) Anthracene	660	
218-01-9-----	Chrysene	620	
117-81-7-----	bis(2-Ethylhexyl) Phthalate	190	J
117-84-0-----	Di-n-Octyl Phthalate	430	U
205-99-2-----	Benzo(b) Fluoranthene	780	
207-08-9-----	Benzo(k) Fluoranthene	350	J
50-32-8-----	Benzo(a) Pyrene	510	
193-39-5-----	Indeno(1,2,3-cd) Pyrene	410	J
53-70-3-----	Dibenz(a,h) Anthracene	230	J
191-24-2-----	Benzo(g,h,i) Perylene	470	

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

13SORE

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75025RE

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: B5353

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 24 decanted: (Y/N) N

Date Extracted: 10/27/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/31/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 6.6

Number TICs found: 8

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown alkyl aromatic	23.66	110	J
2.	Unknown PAH	26.00	140	J
3.	Unknown PAH	26.28	130	J
4. 57-10-3	Hexadecanoic acid	26.40	250	JN
5.	Unknown oxygenated hydrocarb	32.55	270	J
6.	Unknown hydrocarbon	34.56	2200	J
7.	Unknown oxygenated hydrocarb	35.79	470	J
8.	Unknown oxygenated hydrocarb	37.95	240	J

R
1
V

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

14

Co Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75026

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1106

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 17 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/23/97

Injection Volume: 2.0 (uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 8.2

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

108-95-2-----	Phenol	800	U
111-44-4-----	bis(2-Chloroethyl) Ether	800	U
95-57-8-----	2-Chlorophenol	800	U
541-73-1-----	1,3-Dichlorobenzene	800	U
106-46-7-----	1,4-Dichlorobenzene	800	U
95-50-1-----	1,2-Dichlorobenzene	800	U
95-48-7-----	2-Methylphenol	800	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	800	U
106-44-5-----	4-Methylphenol	800	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	800	U
67-72-1-----	Hexachloroethane	800	U
98-95-3-----	Nitrobenzene	800	U
78-59-1-----	Isophorone	800	U
88-75-5-----	2-Nitrophenol	800	U
105-67-9-----	2,4-Dimethylphenol	800	U
111-91-1-----	bis(2-Chloroethoxy) Methane	800	U
120-83-2-----	2,4-Dichlorophenol	800	U
120-82-1-----	1,2,4-Trichlorobenzene	800	U
91-20-3-----	Naphthalene	92	J
106-47-8-----	4-Chloroaniline	800	U
87-68-3-----	Hexachlorobutadiene	800	U
59-50-7-----	4-Chloro-3-Methylphenol	800	U
91-57-6-----	2-Methylnaphthalene	800	U
77-47-4-----	Hexachlorocyclopentadiene	800	U
88-06-2-----	2,4,6-Trichlorophenol	800	U
95-95-4-----	2,4,5-Trichlorophenol	1900	U
91-58-7-----	2-Chloronaphthalene	800	U
88-74-4-----	2-Nitroaniline	1900	U
131-11-3-----	Dimethylphthalate	800	U
208-96-8-----	Acenaphthylene	800	U
606-20-2-----	2,6-Dinitrotoluene	800	U
99-09-2-----	3-Nitroaniline	1900	U
83-32-9-----	Acenaphthene	180	J
51-28-5-----	2,4-Dinitrophenol	1900	U
100-02-7-----	4-Nitrophenol	1900	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

14

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75026

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1106

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 17 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/23/97

Injection Volume: 2.0(uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 8.2

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

CAS NO.

COMPOUND

Q

132-64-9-----	Dibenzofuran	140	J
121-14-2-----	2,4-Dinitrotoluene	800	U
84-66-2-----	Diethylphthalate	800	U
7005-72-3-----	4-Chlorophenyl-phenylether	800	U
86-73-7-----	Fluorene	220	J
100-01-6-----	4-Nitroaniline	1900	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1900	U
86-30-6-----	N-Nitrosodiphenylamine (1)	800	U
101-55-3-----	4-Bromophenyl-phenylether	800	U
118-74-1-----	Hexachlorobenzene	800	U
87-86-5-----	Pentachlorophenol	1900	U
85-01-8-----	Phenanthrene	2400	
120-12-7-----	Anthracene	720	J
86-74-8-----	Carbazole	240	J
84-74-2-----	Di-n-Butylphthalate	90	J
206-44-0-----	Fluoranthene	3700	
129-00-0-----	Pyrene	5500	
85-68-7-----	Butylbenzylphthalate	600	J
91-94-1-----	3,3'-Dichlorobenzidine	800	U
56-55-3-----	Benzo(a)Anthracene	2400	
218-01-9-----	Chrysene	2500	
117-81-7-----	bis(2-Ethylhexyl) Phthalate	1800	~~B~~
117-84-0-----	Di-n-Octyl Phthalate	800	U
205-99-2-----	Benzo(b) Fluoranthene	3500	
207-08-9-----	Benzo(k) Fluoranthene	800	U
50-32-8-----	Benzo(a) Pyrene	2100	
193-39-5-----	Indeno(1,2,3-cd) Pyrene	1200	
53-70-3-----	Dibenz(a,h) Anthracene	640	J
191-24-2-----	Benzo(g,h,i) Perylene	1200	

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

14

b Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414 SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75026

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1106

Level: (low/med) LOW

Date Received: 10/03/97

% Moisture: 17 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/23/97

Injection Volume: 2.0 (uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y

pH: 8.2

Number TICs found: 12

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown terpene	9.39	250	J
2.	Unknown PAH	26.58	320	J
3.	Unknown oxygenated PAH	28.29	180	J
4.	Unknown oxygenated PAH	28.96	230	J
5.	Unknown PAH	29.94	240	J
6.	Unknown PAH	30.29	440	J
7.	Unknown PAH	30.60	660	J
8.	Unknown PAH	32.33	520	J
9.	Unknown alkyl aromatic	33.66	280	J
10.	Unknown PAH	34.30	310	J
11.	Unknown hydrocarbon	35.95	270	J
12.	Unknown PAH	37.14	230	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

10S01

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414

SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75022

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 27 decanted: (Y/N) N

Date Received: 10/03/97

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/07/97

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 10/31/97

Injection Volume: 2.00 (uL)

Dilution Factor: 5.00

GPC Cleanup: (Y/N) Y pH: 7.1

Sulfur Cleanup: (Y/N) Y

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

319-84-6	alpha-BHC	12	U
319-85-7	beta-BHC	12	U
319-86-8	delta-BHC	12	U
58-89-9	gamma-BHC (Lindane)	12	U
76-44-8	Heptachlor	12	U
309-00-2	Aldrin	12	U
1024-57-3	Heptachlor epoxide	12	U
959-98-8	Endosulfan I	12	U
60-57-1	Dieldrin	23	U
72-55-9	4,4'-DDE	350	
72-20-8	Endrin	23	U
33213-65-9	Endosulfan II	23	U
72-54-8	4,4'-DDD	29	J
1031-07-8	Endosulfan sulfate	23	U
50-29-3	4,4'-DDT	340	
72-43-5	Methoxychlor	120	U
53494-70-5	Endrin ketone	96	P
7421-93-4	Endrin aldehyde	23	U
5103-71-9	alpha-Chlordane	12	U
5103-74-2	gamma-Chlordane	12	U
8001-35-2	Toxaphene	1200	U
12674-11-2	Aroclor-1016	230	U
11104-28-2	Aroclor-1221	460	U
11141-16-5	Aroclor-1232	230	U
53469-21-9	Aroclor-1242	230	U
12672-29-6	Aroclor-1248	230	U
11097-69-1	Aroclor-1254	230	U
11096-82-5	Aroclor-1260	230	U

FORM I PEST

10/95

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

11S01

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414

SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75023

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 46 decanted: (Y/N) N

Date Received: 10/03/97

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/07/97

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 10/31/97

Injection Volume: 2.00 (uL)

Dilution Factor: 5.00

GPC Cleanup: (Y/N) Y

pH: 6.6

Sulfur Cleanup: (Y/N) Y

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

CAS NO.

COMPOUND

Q

319-84-6-----	alpha-BHC	16	U
319-85-7-----	beta-BHC	16	U
319-86-8-----	delta-BHC	16	U
58-89-9-----	gamma-BHC (Lindane)	16	U
76-44-8-----	Heptachlor	16	U
309-00-2-----	Aldrin	16	U
1024-57-3-----	Heptachlor epoxide	16	U
959-98-8-----	Endosulfan I	16	U
60-57-1-----	Dieldrin	31	U
72-55-9-----	4,4'-DDE	31	U
72-20-8-----	Endrin	31	U
33213-65-9-----	Endosulfan II	31	U
72-54-8-----	4,4'-DDD	31	U
1031-07-8-----	Endosulfan sulfate	31	U
50-29-3-----	4,4'-DDT	31	U
72-43-5-----	Methoxychlor	160	U
53494-70-5-----	Endrin ketone	31	U
7421-93-4-----	Endrin aldehyde	31	U
5103-71-9-----	alpha-Chlordane	16	U
5103-74-2-----	gamma-Chlordane	16	U
8001-35-2-----	Toxaphene	1600	U
12674-11-2-----	Aroclor-1016	310	U
11104-28-2-----	Aroclor-1221	620	U
11141-16-5-----	Aroclor-1232	310	U
53469-21-9-----	Aroclor-1242	310	U
12672-29-6-----	Aroclor-1248	310	U
11097-69-1-----	Aroclor-1254	310	U
11096-82-5-----	Aroclor-1260	310	U

FORM I PEST

10/95

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

12S01

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414

SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75024

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 32 decanted: (Y/N) N

Date Received: 10/03/97

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/07/97

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 10/31/97

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y

pH: 7.5

Sulfur Cleanup: (Y/N) Y

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

319-84-6-----alpha-BHC	2.5	U
319-85-7-----beta-BHC	2.5	U
319-86-8-----delta-BHC	2.5	U
58-89-9-----gamma-BHC (Lindane)	2.5	U
76-44-8-----Heptachlor	2.5	U
309-00-2-----Aldrin	2.5	U
1024-57-3-----Heptachlor epoxide	2.5	U
959-98-8-----Endosulfan I	2.5	U
60-57-1-----Dieldrin	4.9	U
72-55-9-----4,4'-DDE	4.9	U
72-20-8-----Endrin	4.9	U
33213-65-9-----Endosulfan II	4.9	U
72-54-8-----4,4'-DDD	4.9	U
1031-07-8-----Endosulfan sulfate	4.9	U
50-29-3-----4,4'-DDT	4.9	U
72-43-5-----Methoxychlor	25	U
53494-70-5-----Endrin ketone	4.9	U
7421-93-4-----Endrin aldehyde	4.9	U
5103-71-9-----alpha-Chlordane	2.5	U
5103-74-2-----gamma-Chlordane	2.5	U
8001-35-2-----Toxaphene	250	U
12674-11-2-----Aroclor-1016	49	U
11104-28-2-----Aroclor-1221	99	U
11141-16-5-----Aroclor-1232	49	U
53469-21-9-----Aroclor-1242	49	U
12672-29-6-----Aroclor-1248	49	U
11097-69-1-----Aroclor-1254	49	U
11096-82-5-----Aroclor-1260	49	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

13S01

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414

SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75025

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 24 decanted: (Y/N) N

Date Received: 10/03/97

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/07/97

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 10/31/97

Injection Volume: 2.00 (uL)

Dilution Factor: 5.00

GPC Cleanup: (Y/N) Y

pH: 6.6

Sulfur Cleanup: (Y/N) Y

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

319-84-6-----	alpha-BHC	11	U
319-85-7-----	beta-BHC	11	U
319-86-8-----	delta-BHC	11	U
58-89-9-----	gamma-BHC (Lindane)	11	U
76-44-8-----	Heptachlor	11	U
309-00-2-----	Aldrin	11	U
1024-57-3-----	Heptachlor epoxide	36	
959-98-8-----	Endosulfan I	11	U
60-57-1-----	Dieldrin	26	
72-55-9-----	4,4'-DDE	22	U
72-20-8-----	Endrin	22	U
33213-65-9-----	Endosulfan II	22	U
72-54-8-----	4,4'-DDD	22	U
1031-07-8-----	Endosulfan sulfate	22	U
50-29-3-----	4,4'-DDT	22	U
72-43-5-----	Methoxychlor	110	U
53494-70-5-----	Endrin ketone	22	U
7421-93-4-----	Endrin aldehyde	22	U
5103-71-9-----	alpha-Chlordane	11	U
5103-74-2-----	gamma-Chlordane	11	U
8001-35-2-----	Toxaphene	1100	U
12674-11-2-----	Aroclor-1016	220	U
11104-28-2-----	Aroclor-1221	440	U
11141-16-5-----	Aroclor-1232	220	U
53469-21-9-----	Aroclor-1242	220	U
12672-29-6-----	Aroclor-1248	220	U
11097-69-1-----	Aroclor-1254	220	U
11096-82-5-----	Aroclor-1260	220	U

FORM I PEST

10/95

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

14S01

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.414

SAS No.:

SDG No.: 75015

Matrix: (soil/water) SOIL

Lab Sample ID: 75026

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 17 decanted: (Y/N) N

Date Received: 10/03/97

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/07/97

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 10/31/97

Injection Volume: 2.00 (uL)

Dilution Factor: 5.00

GPC Cleanup: (Y/N) Y

pH: 8.3

Sulfur Cleanup: (Y/N) Y

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

319-84-6-----	alpha-BHC	10	U
319-85-7-----	beta-BHC	10	U
319-86-8-----	delta-BHC	10	U
58-89-9-----	gamma-BHC (Lindane)	10	U
76-44-8-----	Heptachlor	10	U
309-00-2-----	Aldrin	11	P
1024-57-3-----	Heptachlor epoxide	120	
959-98-8-----	Endosulfan I	10	U
60-57-1-----	Dieldrin	20	U
72-55-9-----	4,4'-DDE	41	P
72-20-8-----	Endrin	20	U
33213-65-9-----	Endosulfan II	20	U
72-54-8-----	4,4'-DDD	20	U
1031-07-8-----	Endosulfan sulfate	20	U
50-29-3-----	4,4'-DDT	37	
72-43-5-----	Methoxychlor	100	U
53494-70-5-----	Endrin ketone	28	P
7421-93-4-----	Endrin aldehyde	20	U
5103-71-9-----	alpha-Chlordane	10	U
5103-74-2-----	gamma-Chlordane	10	U
8001-35-2-----	Toxaphene	1000	U
12674-11-2-----	Aroclor-1016	200	U
11104-28-2-----	Aroclor-1221	400	U
11141-16-5-----	Aroclor-1232	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

FORM I PEST

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1

INORGANIC ANALYSES DATA SHEET

10501

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

[illegible]

Comments:

CLIENT SAMPLE ID : TTEF-10-SO100397

1

INORGANIC ANALYSES DATA SHEET

11SO1

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____
Lab Code: EANDE Case No.: 9702.414 SAS No.: _____ SDG No.: 75015
Matrix (soil/water): SOIL Lab Sample ID: 75023
Level (low/med): LOW Date Received: 10/03/97
% Solids: 53.6

[illegible]

Color Before: _____ Clarity Before: _____ Texture: H _____
Color After: Y _____ Clarity After: C _____ Artifacts: YES _____

CLIENT SAMPLE ID : SSEF-11-SO100397

1

INORGANIC ANALYSES DATA SHEET

12S01

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

[illegible]

Comments:

CLIENT SAMPLE ID : SSEF-12-SO100397

NYSDEC SAMPLE NO.

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

[illegible]

Color Before: _____ Clarity Before: _____ Texture: M _____
Color After: Y _____ Clarity After: C _____ Artifacts: _____

Comments:

CLIENT SAMPLE ID : SSEF-13-SO100397

1

INORGANIC ANALYSES DATA SHEET

14SO1

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____
Lab Code: EANDE Case No.: 9702.414 SAS No.: _____ SDG No.: 75015
Matrix (soil/water): SOIL Lab Sample ID: 75026
Level (low/med): LOW Date Received: 10/03/97
% Solids: 82.6

[illegible]

Color Before: _____ Clarity Before: _____ Texture: M _____
Color After: Y _____ Clarity After: C _____ Artifacts: _____

CLIENT SAMPLE ID : SSEF-14-SO100397

Ecology and Environment, Inc., (E & E)
Data Usability Summary Report (DUSR)

Prepared by: Liz Gutierrez Page

E & E Project #: Brownfield East Ferry Date: 11/13/97

Project or Site Name: ↓

Laboratory Name: E+E

Laboratory Report #: 9702.613 Report Date: 11/13/97

Date Sample(s) Taken: 10/24/97 Sample Matrix: Water

Client Sample ID: EF-MW03

Analytical Parameters: metals only

The DUSR was prepared by reviewing and evaluating the analytical data per the guidelines from the Division of Hazardous Waste Remediation. Revision 11/95. The following checklist has been designed to ensure a thorough and complete review of the analytical results based on the requirements in these guidelines. The analytical results are considered valid and usable for the purposes of this project, with any exceptions addressed in the Data Deficiencies Comments section below.

Data Verification Parameters

CIRCLE ONE

1) Were statements made in the Analytical Data Case Narrative supported by the analytical data?

Yes No NA

2) Were all chain of custody records present?
no cooler receipt form

Yes No NA

3) Were are chain of custody records completed?

Yes No NA

4) Were the analysis run as per the method in the work plan?

Yes No NA

5) Were the required holding times met for all matrices and analytical parameters?

Yes No NA

6) Were samples correctly preserved?

Yes No NA

7) Was Sample preservation documented?

Yes No NA

8) Were performance checks within acceptance criteria?

Yes No NA

9) Were the initial and continuing calibrations performed at the required frequency?

Yes No NA

Ecology and Environment, Inc., (E & E)
Data Usability Summary Report (DUSR)

Laboratory Report #: 9202.613

Page 2 of 3

Data Verification Parameters

CIRCLE ONE

10) Were the initial and continuing calibrations within the acceptance criteria?

Yes No NA

11) No qualification of data was required based on calibration criteria not being met?

Yes No NA

12) Were method blanks free of contaminants?

Yes No NA

13) Were field blanks free of contaminants?

Yes No NA

14) Were system monitoring compounds within the acceptance limits?

Yes No NA

15) Were matrix spike matrix spike duplicates or matrix duplicate (MS/ MSD or D) analyzed at the correct frequency?

Yes No NA

16) Did the MS/MSD or MS/D meet the percent recovery (%R) and relative percent difference (RPD) acceptance criteria?

Yes No NA

17) Was the laboratory control sample (LCS) and when necessary, the LCS duplicate (LCSD), performed at the required frequency?

Yes No NA

18) Did the LCS/LCSD's meet the %R and RPD acceptance criteria?

Yes No NA

19) Did internal standards meet the acceptance criteria?

Yes No NA

20) Did the results for any field duplicate samples meet expected precision requirements?

Yes No NA

21) Were dilutions made appropriately?

Yes No NA

22) No discrepancies were noted when the review of raw data (instrument printouts and chromatograms) was performed?

Yes No NA

23) No quality control problems were noted in the review of the Field Sampling Notes?

Yes No NA

24) No effect on data usability was required based on quality control problems in the field?

Yes No NA

Ecology and Environment, Inc., (E & E)
Data Usability Summary Report (DUSR)

Laboratory Report #: 9202.613 Page 3 of 3

If NO to any of the above questions, give further explanation in the Comments section.

Comments: CRD std not addressed Spike + dup
done only for mercury - all other SC OK
cd in samples was qualified as due to
blank contamination

ICV/CCV ok

CDL not addressed

Blank

Cd 0.99 ml-

Cu 867

Fe 109.65

Pb 9.595

K 1680.5

ICP method check 80-120? ok

{ spike for Hg only?

{ def. Hg only?

WCS 80-120? ok

ICP serial ok

1
INORGANIC ANALYSES DATA SHEET

3RKWO

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract:
Lab Code: EANDE Case No.: 9702.613 SAS No.: SDG No.: 76640
Matrix (soil/water): WATER Lab Sample ID: 76640
Level (low/med): LOW Date Received: 10/24/97
% Solids: 0.0

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

[illegible]

Color Before: CL _____ Clarity Before: C _____ Texture: _____
Color After: CL _____ Clarity After: C _____ Artifacts: _____

Comments :

CLIENT SAMPLE ID : MWEF-03RK-WO102397

FORM I - IN

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1
INORGANIC ANALYSES DATA SHEET

3RKWO

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

[illegible]

Texture: _____
Artifacts: _____

CLIENT SAMPLE ID : MWEF-03RK-WO102397

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1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

3RKWOF

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____
Lab Code: EANDE Case No.: 9702.613 SAS No.: _____ SDG No.: 76640
Matrix (soil/water): WATER Lab Sample ID: 76641
Level (low/med): LOW Date Received: 10/24/97
% Solids: 0.0

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

[illegible]

Color Before: CL _____ Clarity Before: C _____ Texture: _____
Color After: CL _____ Clarity After: C _____ Artifacts: _____

Comments:

CLIENT SAMPLE ID : MWEF-03RK-WO102397-F

THE SUFFIX "F" REPRESENTS THE FILTERED ANALYSIS

FORM I - IN

10/95

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INORGANIC ANALYSES DATA SHEET

3RKWOF

Lab Name: ECOLOGY AND ENVIRONMENT Contract: _____
Lab Code: EANDE Case No.: 9702.613 SAS No.: _____ SDG No.: 76640
Matrix (soil/water): WATER Lab Sample ID: 76641
Level (low/med): LOW Date Received: 10/24/97
% Solids: 0.0

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

[illegible]

Color Before: CL ~~_____~~ Clarity Before: C _____ Texture: ~~_____~~
Color After: CL ~~_____~~ Clarity After: C _____ Artifacts: ~~_____~~

Comments:

CLIENT SAMPLE ID : MWEF-03RK-WO102397-F
THE SUFFIX "F" REPRESENTS THE FILTERED ANALYSIS

FORM I - IN

10/95

Ecology and Environment, Inc., (E & E)
Data Usability Summary Report (DUSR)

Prepared by: Lynn HESS Page 1 of 20
 E & E Project #: BVL000 Date: 11/12/97
 Project or Site Name: Brainfields ; East Ferry
 Laboratory Name: E & E ASC
 Laboratory Report #: 9702-396 Report Date: 11/11/97
 Date Sample(s) Taken: 10/02/97 Sample Matrix: 10 soils
 Client Sample ID: SSEF-CI-SC100297, 02, 03, 04, 05, 06, 06-SD, 07
08309
 Analytical Parameters: VOC(95-1), BNA(95-2), P/PCB(95-3) Metal Cu (CUP-11)

The DUSR was prepared by reviewing and evaluating the analytical data per the guidelines from the Division of Hazardous Waste Remediation, Revision 11/95. The following checklist has been designed to ensure a thorough and complete review of the analytical results based on the requirements in these guidelines. The analytical results are considered valid and usable for the purposes of this project, with any exceptions addressed in the Data Deficiencies Comments section below.

Data Verification Parameters

- 1) Were statements made in the Analytical Data Case Narrative supported by the analytical data?
- 2) Were all chain of custody records present?
- 3) Were are chain of custody records completed?
- 4) Were the analysis run as per the method in the work plan?
- 5) Were the required holding times met for all matrices and analytical parameters?
- 6) Were samples correctly preserved?
- 7) Was Sample preservation documented?
- 8) Were performance checks within acceptance criteria?
- 9) Were the initial and continuing calibrations performed at the required frequency?

CIRCLE ONE

☒ Yes ☐ No ☐ NA
☒ Yes ☐ No ☐ NA
☒ Yes ☐ No ☐ NA
☒ Yes ☐ No ☐ NA
☒ Yes ☐ No ☐ NA
☒ Yes ☐ No ☐ NA
☒ Yes ☐ No ☐ NA
☒ Yes ☐ No ☐ NA
☒ Yes ☐ No ☐ NA

Ecology and Environment, Inc., (E & E)
Data Usability Summary Report (DUSR)

Laboratory Report #: 9702.396

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Data Verification Parameters

CIRCLE ONE

10) Were the initial and continuing calibrations within the acceptance criteria?	Yes ☒ No ☐ NA
11) No qualification of data was required based on calibration criteria not being met?	Yes ☒ No ☐ NA
12) Were method blanks free of contaminants?	Yes ☒ No ☐ NA
13) Were field blanks free of contaminants?	Yes ☒ No ☐ NA
14) Were system monitoring compounds within the acceptance limits?	Yes ☒ No ☐ NA
15) Were matrix spike/matrix spike duplicates or matrix duplicate (MS/ MSD or D) analyzed at the correct frequency?	☒ Yes No NA
16) Did the MS/MSD or MS/D meet the percent recovery (%R) and relative percent difference (RPD) acceptance criteria?	☒ Yes No NA
17) Was the laboratory control sample (LCS) and when necessary, the LCS duplicate (LCSD), performed at the required frequency?	☒ Yes No NA
18) Did the LCS/LCSD's meet the %R and RPD acceptance criteria?	☒ Yes No NA
19) Did internal standards meet the acceptance criteria?	Yes ☒ No ☐ NA
20) Did the results for any field duplicate samples meet expected precision requirements?	Yes ☒ No ☐ NA
21) Were dilutions made appropriately?	☒ Yes No NA
22) No discrepancies were noted when the review of raw data (instrument printouts and chromatograms) was performed?	☒ Yes No NA
23) No quality control problems were noted in the review of the Field Sampling Notes?	Yes No ☒ NA
24) No effect on data usability was required based on quality control problems in the field?	☒ Yes No NA

9702.396

30/20

OC

- #12) VBLKS1 acetone @ 4J $\mu\text{g/L}$ "B" 01, 02, 04, 06, 09
VBLKS2 " 3J " "B" 03RE, 05, 06SD, 07RE
1 2-butanone 5J 1 "B"
#13) VBLKH1 acetone @ 10 $\mu\text{g/L}$, no qual necessary ^{all NE} "B"
#19) see attached

BNA

- #10) see attached
#19) see attached
#20) +J for compd with PPD $\uparrow$ than 2x lab limit of 35 (or 70)

P/PCB

1 see attached

- #10) "
#11) "
#14) "

Metals & Cu

- #8) Serial Dilution Cd result E $\rightarrow$ J
#12) PB Sb 0.154
TIDL ^{LCRDE} Ag -1.177
TI -1.065

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

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Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Lab File ID (Standard): F1853

Date Analyzed: 10/03/97

Instrument ID: 7001F

Time Analyzed: 1834

GC Column: DB-624

ID: 0.530 (mm)

Heated Purge: (Y/N) Y

		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
=====		=====	=====	=====	=====	=====	=====
12 HOUR STD		97713	10.05	425906	12.69	339385	19.45
UPPER LIMIT		195426	10.55	851812	13.19	678770	19.95
LOWER LIMIT		48856	9.55	212953	12.19	169692	18.95
=====		=====	=====	=====	=====	=====	=====
DEC SAMPLE NO.							
=====		=====	=====	=====	=====	=====	=====
01	01	70021	10.05	289188	12.67	218378	19.43
02	02	61769	10.04	248339	12.68	186054	19.44
03	03	45315 *	10.05	171891 *	12.67	109297 *	19.43
04	04	66124	10.05	267661	12.67	199144	19.43
05	06SO	64634	10.04	266593	12.67	194495	19.43
06	07	54632	10.05	209018 *	12.67	149434 *	19.44
07	09	71256	10.05	299822	12.67	229314	19.44
08	VMSBS1	94092	10.06	400671	12.68	318361	19.44
09	09MS	63328	10.05	267866	12.68	201623	19.44
10	09MSD	63010	10.04	271178	12.67	201491	19.44
11	VBLKS1	92029	10.03	401320	12.67	327700	19.45

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = + 100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT.
RT LOWER LIMIT = -0.50 minutes of internal standard RT.

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: E & E INC.

Contract:

50/20

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Lab File ID (Standard): F1886

Date Analyzed: 10/05/97

Instrument ID: 7001F

Time Analyzed: 0910

GC Column: DB-624

ID: 0.530 (mm)

Heated Purge: (Y/N) Y

	IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	84783	10.02	334074	12.64	256669	19.41
UPPER LIMIT	169566	10.52	668148	13.14	513338	19.91
LOWER LIMIT	42392	9.52	167037	12.14	128334	18.91
=====	=====	=====	=====	=====	=====	=====
DEC SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
→ 01 03RE	44780	9.98	125909 *	12.61	98933 *	19.38
02 05	47352	10.00	202185	12.61	142870	19.38
03 06SD	51014	9.99	213115	12.61	161339	19.37
<i>used</i> 04 07RE	41087 *	9.99	167402	12.60	121002 *	19.36
05 08	60336	9.98	234364	12.60	172681	19.36
06 VBLKS2	84451	10.00	348866	12.63	280438	19.40

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = + 100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT.
RT LOWER LIMIT = -0.50 minutes of internal standard RT.

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Instrument ID: 7002E

Calibration date: 10/21/97 Time: 0052

Lab File ID: E1042

Init. Calib. Date(s): 10/15/97 10/15/97

Init. Calib. Times: 0845 1314

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.432	1.364		4.7	
4-Chlorophenyl-phenylether	0.648	0.613	0.400	5.4	25.0
Fluorene	1.291	1.051	0.900	18.6	25.0
4-Nitroaniline	0.410	0.202		50.7	
4,6-Dinitro-2-methylphenol	0.162	0.147		9.3	
N-Nitrosodiphenylamine (1)	0.520	0.446		14.2	
4-Bromophenyl-phenylether	0.224	0.237	0.100	-5.8	25.0
Hexachlorobenzene	0.287	0.293	0.100	-2.1	25.0
Pentachlorophenol	0.150	0.152	0.050	-1.3	25.0
Phenanthrene	1.097	1.040	0.700	5.2	25.0
Anthracene	1.117	1.032	0.700	7.6	25.0
Carbazole	0.967	0.553		42.8	
Di-n-Butylphthalate	1.474	1.439		2.4	
Fluoranthene	1.156	0.932	0.600	19.4	25.0
Pyrene	1.362	1.867	0.600	-37.1	25.0
Butylbenzylphthalate	0.730	0.962		-31.8	
3,3'-Dichlorobenzidine	0.371	0.107		71.2	
Benzo(a)Anthracene	1.085	1.109	0.800	-2.2	25.0
Chrysene	1.052	1.045	0.700	0.7	25.0
bis(2-Ethylhexyl)Phthalate	1.029	1.241		-20.6	
Di-n-Octyl Phthalate	2.059	2.938		-42.7	
Benzo(b)Fluoranthene	1.217	1.320	0.700	-8.5	25.0
Benzo(k)Fluoranthene	1.358	1.464	0.700	-7.8	25.0
Benzo(a)Pyrene	1.063	1.096	0.700	-3.1	25.0
Indeno(1,2,3-cd)Pyrene	1.114	1.038	0.500	6.8	25.0
Dibenz(a,h)Anthracene	0.912	0.838	0.400	8.1	25.0
Benzo(g,h,i)Perylene	0.950	0.862	0.500	9.3	25.0
Nitrobenzene-d5	0.386	0.418	0.200	-8.3	25.0
2-Fluorobiphenyl	1.260	1.232	0.700	2.2	25.0
Terphenyl-d14	0.954	1.316	0.500	-38.0	25.0
Phenol-d5	1.522	1.483	0.800	2.6	25.0
2-Fluorophenol	1.233	1.181	0.600	4.2	25.0
2,4,6-Tribromophenol	0.228	0.215		5.7	
2-Chlorophenol-d4	1.199	1.140	0.800	4.9	25.0
1,2-Dichlorobenzene-d4	0.843	0.872	0.400	-3.4	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

no equal
all B & S
from the DL
run
852

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: E & E INC.

Contract:

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Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Instrument ID: 7002E

Calibration date: 10/21/97 Time: 1217

Lab File ID: E1054

Init. Calib. Date(s): 10/15/97 10/15/97

Init. Calib. Times: 0845 1314

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.432	1.323		7.6	
4-Chlorophenyl-phenylether	0.648	0.616	0.400	4.9	25.0
Fluorene	1.291	1.212	0.900	6.1	25.0
4-Nitroaniline	0.410	0.275		32.9	
4,6-Dinitro-2-methylphenol	0.162	0.136		16.0	
N-Nitrosodiphenylamine (1)	0.520	0.453		12.9	
4-Bromophenyl-phenylether	0.224	0.212	0.100	5.4	25.0
Hexachlorobenzene	0.287	0.272	0.100	5.2	25.0
Pentachlorophenol	0.150	0.129	0.050	14.0	25.0
Phenanthrene	1.097	1.023	0.700	6.7	25.0
Anthracene	1.117	1.055	0.700	5.6	25.0
Carbazole	0.967	0.876		9.4	
Di-n-Butylphthalate	1.474	1.338		9.2	
Fluoranthene	1.156	1.067	0.600	7.7	25.0
Pyrene	1.362	1.620	0.600	-18.9	25.0
Butylbenzylphthalate	0.730	0.816		-11.8	
3,3'-Dichlorobenzidine	0.371	0.126		66.0	
Benzo(a)Anthracene	1.085	1.140	0.800	-5.1	25.0
Chrysene	1.052	1.068	0.700	-1.5	25.0
bis(2-Ethylhexyl)Phthalate	1.029	1.069		-3.9	
Di-n-Octyl Phthalate	2.059	2.819		-36.9	
Benzo(b)Fluoranthene	1.217	1.327	0.700	-9.0	25.0
Benzo(k)Fluoranthene	1.358	1.631	0.700	-20.1	25.0
Benzo(a)Pyrene	1.063	1.065	0.700	-0.2	25.0
Indeno(1,2,3-cd)Pyrene	1.114	0.795	0.500	28.6	25.0
Dibenz(a,h)Anthracene	0.912	0.634	0.400	30.5	25.0
Benzo(g,h,i)Perylene	0.950	0.649	0.500	31.7	25.0
Nitrobenzene-d5	0.386	0.406	0.200	-5.2	25.0
2-Fluorobiphenyl	1.260	1.185	0.700	6.0	25.0
Terphenyl-d14	0.954	1.101	0.500	-15.4	25.0
Phenol-d5	1.522	1.484	0.800	2.5	25.0
2-Fluorophenol	1.233	1.182	0.600	4.1	25.0
2,4,6-Tribromophenol	0.228	0.211		7.5	
2-Chlorophenol-d4	1.199	1.186	0.800	1.1	25.0
1,2-Dichlorobenzene-d4	0.843	0.872	0.400	-3.4	25.0

04
05
06SD
07
08
09
01DL
02DL
03DL

✓

-45
+5

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

858

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Lab File ID (Standard): E1042

Date Analyzed: 10/21/97

Instrument ID: 7002E

Time Analyzed: 0052

8 of 20

	IS4 (PHN)		IS5 (CRY)		IS6 (PRY)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	439831	24.78	213020	33.19	130944	37.65
UPPER LIMIT	879662	25.28	426040	33.69	261888	38.15
LOWER LIMIT	219916	24.28	106510	32.69	65472	37.15
=====	=====	=====	=====	=====	=====	=====
DEC SAMPLE						
NO.						
=====	=====	=====	=====	=====	=====	=====
01 01	380538	24.76	120470	33.20	55745 *	37.67
02 02	310946	24.78	88754 *	33.23	40060 *	37.69
03 03	321754	24.77	87033 *	33.22	42803 *	37.71
04 SBLKS1	353907	24.75	178874	33.18	103687	37.64

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

*re-run as DL
use combo*

AREA UPPER LIMIT = + 100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = +0.50 minutes of internal standard RT.

RT LOWER LIMIT = -0.50 minutes of internal standard RT.

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

* Values outside of QC limits.

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

9 of 20

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396

SAS No.:

SDG No.: 74875

GC Column: RTX-35

ID: 0.53(mm)

Init. Calib. Date(s): 10/19/97 10/19/97

DEC Sample No. (PIBLK): PIBLK01

Date Analyzed : 10/19/97

Lab Sample ID (PIBLK): PIBLK01

Time Analyzed : 1036

DEC Sample No. (PEM): PEM01

Date Analyzed : 10/19/97

Lab Sample ID (PEM): PEM01

Time Analyzed : 1204

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	10.86	10.82	10.92	0.014	0.020	-30.0
beta-BHC	12.59	12.54	12.64	0.021	0.020	5.0
gamma-BHC (Lindane)	12.27	12.22	12.32	0.015	0.020	-25.0
Endrin	20.44	20.38	20.52	0.110	0.100	10.0
4,4'-DDT	22.05	21.98	22.12	0.201	0.200	0.5
Methoxychlor	24.86	24.80	24.94	0.511	0.500	2.2

↓

4,4'-DDT % breakdown (1): 12.9

Endrin % breakdown (1): 5.7

Combined % breakdown (1): 18.6

none

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

10/20

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396

SAS No.:

SDG No.: 74875

GC Column: RTX-5

ID: 0.53(mm)

Init. Calib. Date(s): 10/31/97 11/01/97

DEC Sample No. (PIBLK): PIBLK5

Date Analyzed : 11/03/97

Lab Sample ID (PIBLK): PIBLK5

Time Analyzed : 1431

DEC Sample No. (PEM): PEMC4

Date Analyzed : 11/03/97

Lab Sample ID (PEM): PEMC4

Time Analyzed : 1514

PEM COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
alpha-BHC	12.30	12.25	12.35	0.019	0.020	-5.0
beta-BHC	13.23	13.18	13.28	0.024	0.020	20.0
gamma-BHC (Lindane)	13.50	13.45	13.55	0.019	0.020	-5.0
Endrin	21.98	21.91	22.05	0.104	0.100	4.0
4,4'-DDT	23.74	23.68	23.82	0.161	0.200	-19.5
Methoxychlor	25.67	25.61	25.75	0.350	0.500	-30.0

↑

4,4'-DDT % breakdown (1): 15.2

Endrin % breakdown (1): 8.0

Combined % breakdown (1): 23.2

none

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

11 of 20

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396

SAS No.:

SDG No.: 74875

GC Column: RTX-35

ID: 0.53 (mm)

Init. Calib. Date(s): 10/31/97 11/01/97

DEC Sample No. (PIBLK): PIBLK5

Date Analyzed : 11/03/97

Lab Sample ID (PIBLK): PIBLK5

Time Analyzed : 1431

DEC Sample No. (PEM): PEMC4

Date Analyzed : 11/03/97

Lab Sample ID (PEM): PEMC4

Time Analyzed : 1514

PEM COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
alpha-BHC	10.86	10.81	10.91	0.015	0.020	-25.0
beta-BHC	12.59	12.54	12.64	0.019	0.020	-5.0
gamma-BHC (Lindane)	12.27	12.22	12.32	0.016	0.020	-20.0
Endrin	20.44	20.37	20.51	0.090	0.100	-10.0
4,4'-DDT	22.05	21.98	22.12	0.148	0.200	-26.0
Methoxychlor	24.86	24.80	24.94	0.362	0.500	-27.6

↓
↓

4,4'-DDT % breakdown (1): 14.3

Endrin % breakdown (1): 5.3

Combined % breakdown (1): 19.6

none

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

180/720

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396

SAS No.:

SDG No.: 74875

GC Column: RTX-5

ID: 0.53(mm)

Init. Calib. Date(s): 10/31/97 11/01/97

DEC Sample No. (PIBLK): PIBLK7

Date Analyzed : 11/04/97

Lab Sample ID (PIBLK): PIBLK7

Time Analyzed : 1124

DEC Sample No. (PEM): PEMC5

Date Analyzed : 11/04/97

Lab Sample ID (PEM): PEMC5

Time Analyzed : 1208

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	12.29	12.25	12.35	0.019	0.020	-5.0
beta-BHC	13.22	13.18	13.28	0.025	0.020	25.0
gamma-BHC (Lindane)	13.49	13.45	13.55	0.020	0.020	0.0
Endrin	21.97	21.91	22.05	0.105	0.100	5.0
4,4'-DDT	23.73	23.68	23.82	0.168	0.200	-16.0
Methoxychlor	25.67	25.61	25.75	0.360	0.500	-28.0

↑

4,4'-DDT % breakdown (1): 14.0

Endrin % breakdown (1): 8.4

Combined % breakdown (1): 22.4

+J

01DL 01
02DL 02
03DL 03
04DL 04
05DL 05 +J

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

13 of 20

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396

SAS No.:

SDG No.: 74875

GC Column: RTX-35

ID: 0.53(mm)

Init. Calib. Date(s): 10/31/97 11/01/97

DEC Sample No. (PIBLK): PIBLK7

Date Analyzed : 11/04/97

Lab Sample ID (PIBLK): PIBLK7

Time Analyzed : 1124

DEC Sample No. (PEM): PEMC5

Date Analyzed : 11/04/97

Lab Sample ID (PEM): PEMC5

Time Analyzed : 1208

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	10.86	10.81	10.91	0.015	0.020	-25.0
beta-BHC	12.58	12.54	12.64	0.019	0.020	-5.0
gamma-BHC (Lindane)	12.27	12.22	12.32	0.016	0.020	-20.0
Endrin	20.44	20.37	20.51	0.090	0.100	-10.0
4,4'-DDT	22.05	21.98	22.12	0.153	0.200	-23.5
Methoxychlor	24.86	24.80	24.94	0.362	0.500	-27.6

4,4'-DDT % breakdown (1): 13.0

Endrin % breakdown (1): 6.1

Combined % breakdown (1): 19.1

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

14 of 20

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396

SAS No.:

SDG No.: 74875

GC Column: RTX-5

ID: 0.53 (mm)

Init. Calib. Date(s): 10/31/97 11/01/97

DEC Sample No. (PIBLK): PIBLK9

Date Analyzed : 11/05/97

Lab Sample ID (PIBLK): PIBLK9

Time Analyzed : 0229

DEC Sample No. (PEM): PEMC6

Date Analyzed : 11/05/97

Lab Sample ID (PEM): PEMC6

Time Analyzed : 0318

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
alpha-BHC	12.29	12.25	12.35	0.018	0.020	-10.0
beta-BHC	13.22	13.18	13.28	0.022	0.020	10.0
gamma-BHC (Lindane)	13.49	13.45	13.55	0.018	0.020	-10.0
Endrin	21.97	21.91	22.05	0.109	0.100	9.0
4,4'-DDT	23.73	23.68	23.82	0.145	0.200	-27.5
Methoxychlor	25.66	25.61	25.75	0.380	0.500	-24.0

if DDE or DDD - DDT → R

-UJ, +J

4,4'-DDT % breakdown (1): 24.8

Endrin % breakdown (1): 6.8

Combined % breakdown (1): 31.6

01DL 01
02DL 02
03DL 03
04DL 04
05DL 05

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

15 of 20

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396

SAS No.:

SDG No.: 74875

GC Column: RTX-35

ID: 0.53 (mm)

Init. Calib. Date(s): 10/31/97 11/01/97

DEC Sample No. (PIBLK): PIBLK9

Date Analyzed : 11/05/97

Lab Sample ID (PIBLK): PIBLK9

Time Analyzed : 0229

DEC Sample No. (PEM): PEMC6

Date Analyzed : 11/05/97

Lab Sample ID (PEM): PEMC6

Time Analyzed : 0318

PEM COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
alpha-BHC	10.86	10.81	10.91	0.016	0.020	-20.0
beta-BHC	12.59	12.54	12.64	0.020	0.020	0.0
gamma-BHC (Lindane)	12.27	12.22	12.32	0.017	0.020	-15.0
Endrin	20.43	20.37	20.51	0.103	0.100	3.0
4,4'-DDT	22.04	21.98	22.12	0.136	0.200	-32.0
Methoxychlor	24.86	24.80	24.94	0.368	0.500	-26.4

4,4'-DDT % breakdown (1): 25.5

Endrin % breakdown (1): 5.7

Combined % breakdown (1): 31.2

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

160620

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396

SAS No.:

SDG No.: 74875

GC Column: RTX-5

ID: 0.53(mm)

Init. Calib. Date(s): 10/19/97 10/19/97

DEC Sample No. (PIBLK): PIBLK05

Date Analyzed : 10/21/97

Lab Sample ID (PIBLK): PIBLK05

Time Analyzed : 0450

DEC Sample No. (INDA): INDAM03

Date Analyzed : 10/21/97

Lab Sample ID (INDA): INDAM03

Time Analyzed : 0533

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	12.30	12.26	12.36	0.0462	0.0400	15.5
gamma-BHC (Lindane)	13.49	13.46	13.56	0.0460	0.0400	15.0
Heptachlor	16.14	16.10	16.20	0.0438	0.0400	9.5
Endosulfan I	20.22	20.16	20.30	0.0407	0.0400	1.8
Dieldrin	21.16	21.10	21.24	0.0814	0.0800	1.8
Endrin	21.97	21.92	22.06	0.0850	0.0800	6.2
4,4'-DDD	22.40	22.34	22.48	0.0974	0.0800	21.8
4,4'-DDT	23.74	23.68	23.82	0.0807	0.0800	0.9
Methoxychlor	25.67	25.61	25.75	0.422	0.400	5.5
Tetrachloro-m-xylene	10.86	10.82	10.92	0.0402	0.0400	0.5
Decachlorobiphenyl	33.31	33.24	33.44	0.0834	0.0800	4.2

DEC Sample No. (INDB): INDBM03

Date Analyzed : 10/21/97

Lab Sample ID (INDB): INDBM03

Time Analyzed : 0616

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	13.23	13.18	13.28	0.0406	0.0400	1.5
delta-BHC	14.31	14.27	14.37	0.0727	0.0400	81.8
Aldrin	17.45	17.40	17.50	0.0398	0.0400	-0.5
Heptachlor epoxide	18.88	18.82	18.96	0.0395	0.0400	-1.2
4,4'-DDE	20.89	20.83	20.97	0.0807	0.0800	0.9
Endosulfan II	22.28	22.22	22.36	0.0919	0.0800	14.9
Endosulfan sulfate	23.77	23.71	23.85	0.177	0.0800	121.2
Endrin ketone	25.49	25.43	25.57	0.191	0.0800	138.8
Endrin aldehyde	22.93	22.87	23.01	0.0852	0.0800	6.5
alpha-Chlordane	20.28	20.22	20.36	0.0398	0.0400	-0.5
gamma-Chlordane	19.73	19.67	19.81	0.0401	0.0400	0.2
Tetrachloro-m-xylene	10.86	10.82	10.92	0.0426	0.0400	6.5
Decachlorobiphenyl	33.31	33.24	33.44	0.0843	0.0800	5.4

↑
↑
↑

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11

none

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

170200

Lab Name: E & E INC. Contract: _____
 Lab Code: EANDE Case No.: 9702.396 SAS No.: _____ SDG No.: 74875
 GC Column: RTX-35 ID: 0.53(mm) Init. Calib. Date(s): 10/19/97 10/19/97
 DEC Sample No. (PIBLK): PIBLK05 Date Analyzed : 10/21/97
 Lab Sample ID (PIBLK): PIBLK05 Time Analyzed : 0450
 DEC Sample No. (INDA): INDAM03 Date Analyzed : 10/21/97
 Lab Sample ID (INDA): INDAM03 Time Analyzed : 0533

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
alpha-BHC	10.85	10.82	10.92	0.0480	0.0400	20.0
gamma-BHC (Lindane)	12.26	12.22	12.32	0.0474	0.0400	18.5
Heptachlor	13.68	13.65	13.75	0.0453	0.0400	13.2
Endosulfan I	18.17	18.12	18.26	0.0416	0.0400	4.0
Dieldrin	19.24	19.18	19.32	0.0826	0.0800	3.2
Endrin	20.43	20.38	20.52	0.0849	0.0800	6.1
4,4'-DDD	20.95	20.90	21.04	0.0963	0.0800	20.4
4,4'-DDT	22.04	21.98	22.12	0.0753	0.0800	-5.9
Methoxychlor	24.85	24.80	24.94	0.412	0.400	3.0
Tetrachloro-m-xylene	8.47	8.43	8.53	0.0405	0.0400	1.2
Decachlorobiphenyl	29.94	29.86	30.06	0.0827	0.0800	3.4

DEC Sample No. (INDB): INDBM03 Date Analyzed : 10/21/97
 Lab Sample ID (INDB): INDBM03 Time Analyzed : 0616

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
beta-BHC	12.58	12.54	12.64	0.0416	0.0400	4.0
delta-BHC	13.87	13.83	13.93	0.0791	0.0400	97.8
Aldrin	14.88	14.84	14.94	0.0406	0.0400	1.5
Heptachlor epoxide	16.88	16.82	16.96	0.0405	0.0400	1.2
4,4'-DDE	19.01	18.95	19.09	0.0812	0.0800	1.5
Endosulfan II	21.10	21.04	21.18	0.0928	0.0800	16.0
Endosulfan sulfate	22.74	22.68	22.82	0.228	0.0800	185.0
Endrin ketone	25.14	25.08	25.22	0.202	0.0800	152.5
Endrin aldehyde	22.17	22.11	22.25	0.0854	0.0800	6.8
alpha-Chlordane	18.13	18.07	18.21	0.0407	0.0400	1.8
gamma-Chlordane	17.58	17.52	17.66	0.0408	0.0400	2.0
Tetrachloro-m-xylene	8.48	8.43	8.53	0.0430	0.0400	7.5
Decachlorobiphenyl	29.95	29.86	30.06	0.0834	0.0800	4.2

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

18 of 2

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396

SAS No.:

SDG No.: 74875

GC Column: RTX-5

ID: 0.53(mm)

Init. Calib. Date(s): 10/23/97 10/23/97

DEC Sample No. (PIBLK): PIBLKA4

Date Analyzed : 10/24/97

Lab Sample ID (PIBLK): PIBLKA4

Time Analyzed : 2153

DEC Sample No. (INDA): INDAMA2

Date Analyzed : 10/24/97

Lab Sample ID (INDA): INDAMA2

Time Analyzed : 2236

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
alpha-BHC	12.29	12.25	12.35	0.0401	0.0400	0.2
gamma-BHC (Lindane)	13.49	13.44	13.54	0.0401	0.0400	0.2
Heptachlor	16.14	16.09	16.19	0.0391	0.0400	-2.2
Endosulfan I	20.22	20.15	20.29	0.0390	0.0400	-2.5
Dieldrin	21.16	21.09	21.23	0.0780	0.0800	-2.5
Endrin	21.98	21.91	22.05	0.0807	0.0800	0.9
4,4'-DDD	22.40	22.33	22.47	0.0829	0.0800	3.6
4,4'-DDT	23.74	23.67	23.81	0.0782	0.0800	-2.2
Methoxychlor	25.67	25.60	25.74	0.402	0.400	0.5
Tetrachloro-m-xylene	10.86	10.81	10.91	0.0381	0.0400	-4.8
Decachlorobiphenyl	33.31	33.22	33.42	0.0814	0.0800	1.8

DEC Sample No. (INDB): INDBMA2

Date Analyzed : 10/24/97

Lab Sample ID (INDB): INDBMA2

Time Analyzed : 2319

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
beta-BHC	13.22	13.17	13.27	0.0391	0.0400	-2.2
delta-BHC	14.31	14.26	14.36	0.0400	0.0400	0.0
Aldrin	17.44	17.40	17.50	0.0381	0.0400	-4.8
Heptachlor epoxide	18.88	18.81	18.95	0.0379	0.0400	-5.2
4,4'-DDE	20.89	20.82	20.96	0.0784	0.0800	-2.0
Endosulfan II	22.28	22.21	22.35	0.0838	0.0800	4.8
Endosulfan sulfate	23.77	23.70	23.84	0.0993	0.0800	24.1
Endrin ketone	25.50	25.43	25.57	0.106	0.0800	32.5
Endrin aldehyde	22.94	22.87	23.01	0.0795	0.0800	-0.6
alpha-Chlordane	20.28	20.21	20.35	0.0384	0.0400	-4.0
gamma-Chlordane	19.73	19.66	19.80	0.0384	0.0400	-4.0
Tetrachloro-m-xylene	10.86	10.81	10.91	0.0406	0.0400	1.5
Decachlorobiphenyl	33.32	33.22	33.42	0.0823	0.0800	2.9

+J

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10/95

06, 06D, 07, 08, 09

1111

*all ND
no qual*

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

19 of 20

Lab Name: E & E INC. Contract: _____

Lab Code: EANDE Case No.: 9702.396 SAS No.: _____ SDG No.: 74875

GC Column: RTX-35 ID: 0.53 (mm) Init. Calib. Date(s): 10/23/97 10/23/97

DEC Sample No. (PIBLK): PIBLKA4 Date Analyzed : 10/24/97

Lab Sample ID (PIBLK): PIBLKA4 Time Analyzed : 2153

DEC Sample No. (INDA): INDAMA2 Date Analyzed : 10/24/97

Lab Sample ID (INDA): INDAMA2 Time Analyzed : 2236

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
alpha-BHC	10.85	10.80	10.90	0.0427	0.0400	6.8
gamma-BHC (Lindane)	12.26	12.22	12.32	0.0424	0.0400	6.0
Heptachlor	13.68	13.64	13.74	0.0412	0.0400	3.0
Endosulfan I	18.17	18.11	18.25	0.0409	0.0400	2.2
Dieldrin	19.24	19.17	19.31	0.0814	0.0800	1.8
Endrin	20.43	20.37	20.51	0.0832	0.0800	4.0
4,4'-DDD	20.95	20.89	21.03	0.0848	0.0800	6.0
4,4'-DDT	22.04	21.98	22.12	0.0813	0.0800	1.6
Methoxychlor	24.86	24.79	24.93	0.407	0.400	1.8
Tetrachloro-m-xylene	8.47	8.42	8.52	0.0406	0.0400	1.5
Decachlorobiphenyl	29.95	29.86	30.06	0.0857	0.0800	7.1

DEC Sample No. (INDB): INDBMA2 Date Analyzed : 10/24/97

Lab Sample ID (INDB): INDBMA2 Time Analyzed : 2319

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
beta-BHC	12.58	12.53	12.63	0.0413	0.0400	3.2
delta-BHC	13.87	13.82	13.92	0.0428	0.0400	7.0
Aldrin	14.88	14.83	14.93	0.0408	0.0400	2.0
Heptachlor epoxide	16.88	16.81	16.95	0.0399	0.0400	-0.2
4,4'-DDE	19.01	18.94	19.08	0.0818	0.0800	2.2
Endosulfan II	21.10	21.03	21.17	0.0847	0.0800	5.9
Endosulfan sulfate	22.74	22.68	22.82	0.0854	0.0800	6.8
Endrin ketone	25.14	25.07	25.21	0.108	0.0800	35.0
Endrin aldehyde	22.17	22.10	22.24	0.0832	0.0800	4.0
alpha-Chlordane	18.14	18.07	18.21	0.0403	0.0400	0.8
gamma-Chlordane	17.58	17.51	17.65	0.0402	0.0400	0.5
Tetrachloro-m-xylene	8.47	8.42	8.52	0.0424	0.0400	6.0
Decachlorobiphenyl	29.95	29.86	30.06	0.0870	0.0800	8.8

2F
SOIL PESTICIDE SURROGATE RECOVERY

20 of 21

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396

SAS No.:

SDG No.: 74875

GC Column(1): RTX-5

ID: 0.53 (mm)

GC Column(2): RTX-35

ID: 0.53 (mm)

	DEC SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLKS1	47	52	127	131			0
02	PBLKS2	120	132	137	143			0
03	01	99	107	385*	410*	no equal		2
04	01DL	109	103	390*	402*	no equal		2
05	02	110	104	0*	538*	no equal		2
06	02DL	0D	0D	0D	0D			0
07	03	3550*	0*	0*	1465*	+J, -US not Cor PCB		2
08	03DL	3350*	0D	0D	715*			2
09	04	138	139	154*	149	no equal		1
10	04DL	148	114	151*	190*	no equal		2
11	05	788*	122	285*	232*	no equal		3
12	05DL	898*	132	278*	258*	no equal		3
13	06	342*	142	147	188*	no equal		2
14	06D	190*	166*	169*	188*	no equal		4
15	07	42	41	64	79	no equal		0
16	08	472*	140	144	166*			2
17	09	48	110	61	89			0
18	MSBS1	61	64	83	85			0

QC LIMITS

TCX = Tetrachloro-m-xylene

(30-150)

DCB = Decachlorobiphenyl

(30-150)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

01

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74875

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: F1859

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: not dec. 20

Date Analyzed: 10/03/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12	U
67-64-1	Acetone	7	BJ
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

12B

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

01

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74875

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: F1859

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: not dec. 20

Date Analyzed: 10/03/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. 64-17-5	Ethanol	4.71	24	JN
2.	Unknown hydrocarbon	13.90	8	J
3.	Unknown	23.52	9	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

02

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74876

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: F1860

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: not dec. 15

Date Analyzed: 10/03/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3-----	Chloromethane	12	U
74-83-9-----	Bromomethane	12	U
75-01-4-----	Vinyl Chloride	12	U
75-00-3-----	Chloroethane	12	U
75-09-2-----	Methylene Chloride	12	U
67-64-1-----	Acetone	4	BJ
75-15-0-----	Carbon Disulfide	12	U
75-35-4-----	1,1-Dichloroethene	12	U
75-34-3-----	1,1-Dichloroethane	12	U
540-59-0-----	1,2-Dichloroethene (total)	12	U
67-66-3-----	Chloroform	12	U
107-06-2-----	1,2-Dichloroethane	12	U
78-93-3-----	2-Butanone	12	U
71-55-6-----	1,1,1-Trichloroethane	12	U
56-23-5-----	Carbon Tetrachloride	12	U
75-27-4-----	Bromodichloromethane	12	U
78-87-5-----	1,2-Dichloropropane	12	U
10061-01-5-----	cis-1,3-Dichloropropene	12	U
79-01-6-----	Trichloroethene	12	U
124-48-1-----	Dibromochloromethane	12	U
79-00-5-----	1,1,2-Trichloroethane	12	U
71-43-2-----	Benzene	12	U
10061-02-6-----	trans-1,3-Dichloropropene	12	U
75-25-2-----	Bromoform	12	U
108-10-1-----	4-Methyl-2-Pentanone	12	U
591-78-6-----	2-Hexanone	12	U
127-18-4-----	Tetrachloroethene	12	U
79-34-5-----	1,1,2,2-Tetrachloroethane	12	U
108-88-3-----	Toluene	12	U
108-90-7-----	Chlorobenzene	12	U
100-41-4-----	Ethylbenzene	12	U
100-42-5-----	Styrene	12	U
1330-20-7-----	Xylene (total)	12	U

12 B

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

03

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74877

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: F1861

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: not dec. 40

Date Analyzed: 10/03/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3	-----Chloromethane	17	U
74-83-9	-----Bromomethane	17	U
75-01-4	-----Vinyl Chloride	17	U
75-00-3	-----Chloroethane	17	U
75-09-2	-----Methylene Chloride	17	U
67-64-1	-----Acetone	17	U
75-15-0	-----Carbon Disulfide	17	U
75-35-4	-----1,1-Dichloroethene	17	U
75-34-3	-----1,1-Dichloroethane	17	U
540-59-0	-----1,2-Dichloroethene (total)	17	U
67-66-3	-----Chloroform	17	U
107-06-2	-----1,2-Dichloroethane	17	U
78-93-3	-----2-Butanone	17	U
71-55-6	-----1,1,1-Trichloroethane	17	U
56-23-5	-----Carbon Tetrachloride	17	U
75-27-4	-----Bromodichloromethane	17	U
78-87-5	-----1,2-Dichloropropane	17	U
10061-01-5	-----cis-1,3-Dichloropropene	17	U
79-01-6	-----Trichloroethene	17	U
124-48-1	-----Dibromochloromethane	17	U
79-00-5	-----1,1,2-Trichloroethane	17	U
71-43-2	-----Benzene	17	U
10061-02-6	-----trans-1,3-Dichloropropene	17	U
75-25-2	-----Bromoform	17	U
108-10-1	-----4-Methyl-2-Pentanone	17	U
591-78-6	-----2-Hexanone	17	U
127-18-4	-----Tetrachloroethene	17	U
79-34-5	-----1,1,2,2-Tetrachloroethane	17	U
108-88-3	-----Toluene	17	U
108-90-7	-----Chlorobenzene	17	U
100-41-4	-----Ethylbenzene	17	U
100-42-5	-----Styrene	17	U
1330-20-7	-----Xylene (total)	17	U

R

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

03RE

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74877RE

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: F1889

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: not dec. 40

Date Analyzed: 10/05/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3-----	Chloromethane	17	U
74-83-9-----	Bromomethane	17	U
75-01-4-----	Vinyl Chloride	17	U
75-00-3-----	Chloroethane	17	U
75-09-2-----	Methylene Chloride	17	U
67-64-1-----	Acetone	9	BJ
75-15-0-----	Carbon Disulfide	17	U
75-35-4-----	1,1-Dichloroethene	17	U
75-34-3-----	1,1-Dichloroethane	17	U
540-59-0-----	1,2-Dichloroethene (total)	17	U
67-66-3-----	Chloroform	17	U
107-06-2-----	1,2-Dichloroethane	17	U
78-93-3-----	2-Butanone	17	U
71-55-6-----	1,1,1-Trichloroethane	17	U
56-23-5-----	Carbon Tetrachloride	17	U
75-27-4-----	Bromodichloromethane	17	U
78-87-5-----	1,2-Dichloropropane	17	U
10061-01-5-----	cis-1,3-Dichloropropene	17	U
79-01-6-----	Trichloroethene	17	U
124-48-1-----	Dibromochloromethane	17	U
79-00-5-----	1,1,2-Trichloroethane	17	U
71-43-2-----	Benzene	17	U
10061-02-6-----	trans-1,3-Dichloropropene	17	U
75-25-2-----	Bromoform	17	U
108-10-1-----	4-Methyl-2-Pentanone	17	U
591-78-6-----	2-Hexanone	17	U
127-18-4-----	Tetrachloroethene	17	U
79-34-5-----	1,1,2,2-Tetrachloroethane	17	U
108-88-3-----	Toluene	17	U
108-90-7-----	Chlorobenzene	17	U
100-41-4-----	Ethylbenzene	17	U
100-42-5-----	Styrene	17	U
1330-20-7-----	Xylene (total)	17	U

17B

all have U except

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

03RE

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74877RE

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: F1889

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: not dec. 40

Date Analyzed: 10/05/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Piene isomer	21.98	9	J
2.	Unknown	24.31	15	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

04

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74878

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: F1862

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: not dec. 26

Date Analyzed: 10/04/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3-----	Chloromethane	14	U
74-83-9-----	Bromomethane	14	U
75-01-4-----	Vinyl Chloride	14	U
75-00-3-----	Chloroethane	14	U
75-09-2-----	Methylene Chloride	14	U
67-64-1-----	Acetone	6	BJ
75-15-0-----	Carbon Disulfide	14	U
75-35-4-----	1,1-Dichloroethene	14	U
75-34-3-----	1,1-Dichloroethane	14	U
540-59-0-----	1,2-Dichloroethene (total)	14	U
67-66-3-----	Chloroform	14	U
107-06-2-----	1,2-Dichloroethane	14	U
78-93-3-----	2-Butanone	14	U
71-55-6-----	1,1,1-Trichloroethane	14	U
56-23-5-----	Carbon Tetrachloride	14	U
75-27-4-----	Bromodichloromethane	14	U
78-87-5-----	1,2-Dichloropropane	14	U
10061-01-5-----	cis-1,3-Dichloropropene	14	U
79-01-6-----	Trichloroethene	14	U
124-48-1-----	Dibromochloromethane	14	U
79-00-5-----	1,1,2-Trichloroethane	14	U
71-43-2-----	Benzene	14	U
10061-02-6-----	trans-1,3-Dichloropropene	14	U
75-25-2-----	Bromoform	14	U
108-10-1-----	4-Methyl-2-Pentanone	14	U
591-78-6-----	2-Hexanone	14	U
127-18-4-----	Tetrachloroethene	14	U
79-34-5-----	1,1,2,2-Tetrachloroethane	14	U
108-88-3-----	Toluene	14	U
108-90-7-----	Chlorobenzene	14	U
100-41-4-----	Ethylbenzene	14	U
100-42-5-----	Styrene	14	U
1330-20-7-----	Xylene (total)	14	U

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FORM I VOA

10/95

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

05

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74879

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: F1890

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: not dec. 18

Date Analyzed: 10/05/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12	U
67-64-1	Acetone	4	BJ
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

12B

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

06SO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74880

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: F1864

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: not dec. 24

Date Analyzed: 10/04/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3-----	Chloromethane	13	U
74-83-9-----	Bromomethane	13	U
75-01-4-----	Vinyl Chloride	13	U
75-00-3-----	Chloroethane	13	U
75-09-2-----	Methylene Chloride	13	U
67-64-1-----	Acetone	5	BJ
75-15-0-----	Carbon Disulfide	13	U
75-35-4-----	1,1-Dichloroethene	13	U
75-34-3-----	1,1-Dichloroethane	13	U
540-59-0-----	1,2-Dichloroethene (total)	13	U
67-66-3-----	Chloroform	13	U
107-06-2-----	1,2-Dichloroethane	13	U
78-93-3-----	2-Butanone	13	U
71-55-6-----	1,1,1-Trichloroethane	13	U
56-23-5-----	Carbon Tetrachloride	13	U
75-27-4-----	Bromodichloromethane	13	U
78-87-5-----	1,2-Dichloropropene	13	U
10061-01-5-----	cis-1,3-Dichloropropene	13	U
79-01-6-----	Trichloroethene	13	U
124-48-1-----	Dibromochloromethane	13	U
79-00-5-----	1,1,2-Trichloroethane	13	U
71-43-2-----	Benzene	13	U
10061-02-6-----	trans-1,3-Dichloropropene	13	U
75-25-2-----	Bromoform	13	U
108-10-1-----	4-Methyl-2-Pentanone	13	U
591-78-6-----	2-Hexanone	13	U
127-18-4-----	Tetrachloroethene	13	U
79-34-5-----	1,1,2,2-Tetrachloroethane	13	U
108-88-3-----	Toluene	13	U
108-90-7-----	Chlorobenzene	13	U
100-41-4-----	Ethylbenzene	13	U
100-42-5-----	Styrene	13	U
1330-20-7-----	Xylene (total)	13	U

13B

86

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

06SD

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74881

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: F1891

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: not dec. 24

Date Analyzed: 10/05/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3	-----Chloromethane	13	U
74-83-9	-----Bromomethane	13	U
75-01-4	-----Vinyl Chloride	13	U
75-00-3	-----Chloroethane	13	U
75-09-2	-----Methylene Chloride	13	U
67-64-1	-----Acetone	5	B
75-15-0	-----Carbon Disulfide	13	U
75-35-4	-----1,1-Dichloroethene	13	U
75-34-3	-----1,1-Dichloroethane	13	U
540-59-0	-----1,2-Dichloroethene (total)	13	U
67-66-3	-----Chloroform	13	U
107-06-2	-----1,2-Dichloroethane	13	U
78-93-3	-----2-Butanone	13	U
71-55-6	-----1,1,1-Trichloroethane	13	U
56-23-5	-----Carbon Tetrachloride	13	U
75-27-4	-----Bromodichloromethane	13	U
78-87-5	-----1,2-Dichloropropane	13	U
10061-01-5	-----cis-1,3-Dichloropropene	13	U
79-01-6	-----Trichloroethene	13	U
124-48-1	-----Dibromochloromethane	13	U
79-00-5	-----1,1,2-Trichloroethane	13	U
71-43-2	-----Benzene	13	U
10061-02-6	-----trans-1,3-Dichloropropene	13	U
75-25-2	-----Bromoform	13	U
108-10-1	-----4-Methyl-2-Pentanone	13	U
591-78-6	-----2-Hexanone	13	U
127-18-4	-----Tetrachloroethene	13	U
79-34-5	-----1,1,2,2-Tetrachloroethane	13	U
108-88-3	-----Toluene	13	U
108-90-7	-----Chlorobenzene	13	U
100-41-4	-----Ethylbenzene	13	U
100-42-5	-----Styrene	13	U
1330-20-7	-----Xylene (total)	13	U

13B

30

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

07

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74882

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: F1866

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: not dec. 23

Date Analyzed: 10/04/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3-----	Chloromethane	13	U
74-83-9-----	Bromomethane	13	U
75-01-4-----	Vinyl Chloride	13	U
75-00-3-----	Chloroethane	13	U
75-09-2-----	Methylene Chloride	13	U
67-64-1-----	Acetone	13	U
75-15-0-----	Carbon Disulfide	13	U
75-35-4-----	1,1-Dichloroethene	13	U
75-34-3-----	1,1-Dichloroethane	13	U
540-59-0-----	1,2-Dichloroethene (total)	3	J
67-66-3-----	Chloroform	13	U
107-06-2-----	1,2-Dichloroethane	13	U
78-93-3-----	2-Butanone	13	U
71-55-6-----	1,1,1-Trichloroethane	13	U
56-23-5-----	Carbon Tetrachloride	13	U
75-27-4-----	Bromodichloromethane	13	U
78-87-5-----	1,2-Dichloropropane	13	U
10061-01-5-----	cis-1,3-Dichloropropene	13	U
79-01-6-----	Trichloroethene	3	J
124-48-1-----	Dibromochloromethane	13	U
79-00-5-----	1,1,2-Trichloroethane	13	U
71-43-2-----	Benzene	13	U
10061-02-6-----	trans-1,3-Dichloropropene	13	U
75-25-2-----	Bromoform	13	U
108-10-1-----	4-Methyl-2-Pentanone	13	U
591-78-6-----	2-Hexanone	13	U
127-18-4-----	Tetrachloroethene	13	U
79-34-5-----	1,1,2,2-Tetrachloroethane	13	U
108-88-3-----	Toluene	13	U
108-90-7-----	Chlorobenzene	13	U
100-41-4-----	Ethylbenzene	13	U
100-42-5-----	Styrene	13	U
1330-20-7-----	Xylene (total)	13	U

all the
US
except

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

07RE

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74882RE

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: F1892

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: not dec. 23

Date Analyzed: 10/05/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	13	U
67-64-1	Acetone	8	BJ
75-15-0	Carbon Disulfide	13	U
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-Dichloroethene (total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-Dichloroethane	13	U
78-93-3	2-Butanone	13	U
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-Dichloropropane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-Trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
108-88-3	Toluene	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
1330-20-7	Xylene (total)	13	U

R
136

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

08

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74883

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: F1893

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: not dec. 27

Date Analyzed: 10/05/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3-----	Chloromethane	14	U
74-83-9-----	Bromomethane	14	U
75-01-4-----	Vinyl Chloride	14	U
75-00-3-----	Chloroethane	14	U
75-09-2-----	Methylene Chloride	14	U
67-64-1-----	Acetone	12	BJ
75-15-0-----	Carbon Disulfide	14	U
75-35-4-----	1,1-Dichloroethene	14	U
75-34-3-----	1,1-Dichloroethane	14	U
540-59-0-----	1,2-Dichloroethene (total)	14	U
67-66-3-----	Chloroform	14	U
107-06-2-----	1,2-Dichloroethane	14	U
78-93-3-----	2-Butanone	14	U
71-55-6-----	1,1,1-Trichloroethane	14	U
56-23-5-----	Carbon Tetrachloride	14	U
75-27-4-----	Bromodichloromethane	14	U
78-87-5-----	1,2-Dichloropropane	14	U
10061-01-5-----	cis-1,3-Dichloropropene	14	U
79-01-6-----	Trichloroethene	14	U
124-48-1-----	Dibromochloromethane	14	U
79-00-5-----	1,1,2-Trichloroethane	14	U
71-43-2-----	Benzene	14	U
10061-02-6-----	trans-1,3-Dichloropropene	14	U
75-25-2-----	Bromoform	14	U
108-10-1-----	4-Methyl-2-Pentanone	14	U
591-78-6-----	2-Hexanone	14	U
127-18-4-----	Tetrachloroethene	14	U
79-34-5-----	1,1,2,2-Tetrachloroethane	14	U
108-88-3-----	Toluene	14	U
108-90-7-----	Chlorobenzene	14	U
100-41-4-----	Ethylbenzene	14	U
100-42-5-----	Styrene	14	U
1330-20-7-----	Xylene (total)	14	U

14B

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

09

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74884

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: F1868

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: not dec. 21

Date Analyzed: 10/04/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3-----	Chloromethane	13	U
74-83-9-----	Bromomethane	13	U
75-01-4-----	Vinyl Chloride	13	U
75-00-3-----	Chloroethane	13	U
75-09-2-----	Methylene Chloride	13	U
67-64-1-----	Acetone	3	BJ
75-15-0-----	Carbon Disulfide	13	U
75-35-4-----	1,1-Dichloroethene	13	U
75-34-3-----	1,1-Dichloroethane	13	U
540-59-0-----	1,2-Dichloroethene (total)	13	U
67-66-3-----	Chloroform	13	U
107-06-2-----	1,2-Dichloroethane	13	U
78-93-3-----	2-Butanone	13	U
71-55-6-----	1,1,1-Trichloroethane	13	U
56-23-5-----	Carbon Tetrachloride	13	U
75-27-4-----	Bromodichloromethane	13	U
78-87-5-----	1,2-Dichloropropane	13	U
10061-01-5-----	cis-1,3-Dichloropropene	13	U
79-01-6-----	Trichloroethene	13	U
124-48-1-----	Dibromochloromethane	13	U
79-00-5-----	1,1,2-Trichloroethane	13	U
71-43-2-----	Benzene	13	U
10061-02-6-----	trans-1,3-Dichloropropene	13	U
75-25-2-----	Bromoform	13	U
108-10-1-----	4-Methyl-2-Pentanone	13	U
591-78-6-----	2-Hexanone	13	U
127-18-4-----	Tetrachloroethene	13	U
79-34-5-----	1,1,2,2-Tetrachloroethane	13	U
108-88-3-----	Toluene	13	U
108-90-7-----	Chlorobenzene	13	U
100-41-4-----	Ethylbenzene	13	U
100-42-5-----	Styrene	13	U
1330-20-7-----	Xylene (total)	13	U

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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

01

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74875

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1050

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: 20 decanted: (Y/N) N

Date Extracted: 10/06/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/21/97

Injection Volume: 2.0(uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y

pH: 7.6

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

108-95-2-----	Phenol	820	U
111-44-4-----	bis(2-Chloroethyl) Ether	820	U
95-57-8-----	2-Chlorophenol	820	U
541-73-1-----	1,3-Dichlorobenzene	820	U
106-46-7-----	1,4-Dichlorobenzene	820	U
95-50-1-----	1,2-Dichlorobenzene	820	U
95-48-7-----	2-Methylphenol	820	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	820	U
106-44-5-----	4-Methylphenol	820	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	820	U
67-72-1-----	Hexachloroethane	820	U
98-95-3-----	Nitrobenzene	820	U
78-59-1-----	Isophorone	820	U
88-75-5-----	2-Nitrophenol	820	U
105-67-9-----	2,4-Dimethylphenol	820	U
111-91-1-----	bis(2-Chloroethoxy) Methane	820	U
120-83-2-----	2,4-Dichlorophenol	820	U
120-82-1-----	1,2,4-Trichlorobenzene	820	U
91-20-3-----	Naphthalene	820	U
106-47-8-----	4-Chloroaniline	820	U
87-68-3-----	Hexachlorobutadiene	820	U
59-50-7-----	4-Chloro-3-Methylphenol	820	U
91-57-6-----	2-Methylnaphthalene	820	U
77-47-4-----	Hexachlorocyclopentadiene	820	U
88-06-2-----	2,4,6-Trichlorophenol	820	U
95-95-4-----	2,4,5-Trichlorophenol	2000	U
91-58-7-----	2-Chloronaphthalene	820	U
88-74-4-----	2-Nitroaniline	2000	U
131-11-3-----	Dimethylphthalate	820	U
208-96-8-----	Acenaphthylene	120	J
606-20-2-----	2,6-Dinitrotoluene	820	U
99-09-2-----	3-Nitroaniline	2000	U
83-32-9-----	Acenaphthene	86	J
51-28-5-----	2,4-Dinitrophenol	2000	U
100-02-7-----	4-Nitrophenol	2000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

01

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74875

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1050

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: 20 decanted: (Y/N) N

Date Extracted: 10/06/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/21/97

Injection Volume: 2.0 (uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.6

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

132-64-9-----	Dibenzofuran	820	U
121-14-2-----	2,4-Dinitrotoluene	820	U
84-66-2-----	Diethylphthalate	820	U
7005-72-3-----	4-Chlorophenyl-phenylether	820	U
86-73-7-----	Fluorene	110	J
100-01-6-----	4-Nitroaniline	2000	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2000	U
86-30-6-----	N-Nitrosodiphenylamine (1)	820	U
101-55-3-----	4-Bromophenyl-phenylether	820	U
118-74-1-----	Hexachlorobenzene	820	U
87-86-5-----	Pentachlorophenol	2000	U
85-01-8-----	Phenanthrene	1800	
120-12-7-----	Anthracene	520	J
86-74-8-----	Carbazole	110	J
84-74-2-----	Di-n-Butylphthalate	820	U
206-44-0-----	Fluoranthene	4800	
129-00-0-----	Pyrene	7700	E
85-68-7-----	Butylbenzylphthalate	820	U
91-94-1-----	3,3'-Dichlorobenzidine	820	U
56-55-3-----	Benzo(a)Anthracene	4900	
218-01-9-----	Chrysene	4500	
117-81-7-----	bis(2-Ethylhexyl)Phthalate	820	U
117-84-0-----	Di-n-Octyl Phthalate	820	U
205-99-2-----	Benzo(b)Fluoranthene	5100	
207-08-9-----	Benzo(k)Fluoranthene	3600	
50-32-8-----	Benzo(a)Pyrene	5100	
193-39-5-----	Indeno(1,2,3-cd)Pyrene	2700	
53-70-3-----	Dibenz(a,h)Anthracene	1000	
191-24-2-----	Benzo(g,h,i)Perylene	3100	

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

01

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74875

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1050

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: 20 decanted: (Y/N) N

Date Extracted: 10/06/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/21/97

Injection Volume: 2.0(uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y

pH: 7.6

Number TICs found: 24

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown PAH	24.05	220	J
2.	Unknown	25.27	200	JB
3.	Unknown PAH	25.82	360	J
4.	Unknown PAH	26.38	370	J
5.	Unknown PAH	26.48	410	J
6.	Unknown PAH	26.59	170	J
7.	Unknown PAH	26.74	900	J
8.	Unknown PAH	27.36	190	J
9.	Unknown PAH	27.95	190	J
10.	Unknown PAH	28.20	340	J
11.	Unknown aromatic	29.12	190	J
12.	Benzonaphthofuran isomer	29.55	190	J
13.	Unknown PAH	30.10	280	J
14.	Unknown PAH	30.43	860	J
15.	Unknown PAH	30.64	300	J
16.	Unknown PAH	30.76	370	J
17.	Unknown PAH	31.04	170	J
18.	Unknown PAH	31.79	220	J
19.	Unknown oxygenated PAH	32.07	98	J
20.	Unknown PAH	32.49	680	J
21.	Unknown PAH	33.52	220	J
22.	Unknown PAH	34.44	240	J
23.	Unknown hydrocarbon	36.12	680	JB
24.	Unknown PAH	37.30	1000	J

FORM I SV-TIC

10/95

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

01DL

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74875DL

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1063

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: 20 decanted: (Y/N) N

Date Extracted: 10/06/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/21/97

Injection Volume: 2.0 (uL)

Dilution Factor: 4.0

GPC Cleanup: (Y/N) Y pH: 7.6

CAS NO.

COMPOUND

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

Q

108-95-2-----	Phenol	1600	U
111-44-4-----	bis(2-Chloroethyl) Ether	1600	U
95-57-8-----	2-Chlorophenol	1600	U
541-73-1-----	1,3-Dichlorobenzene	1600	U
106-46-7-----	1,4-Dichlorobenzene	1600	U
95-50-1-----	1,2-Dichlorobenzene	1600	U
95-48-7-----	2-Methylphenol	1600	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	1600	U
106-44-5-----	4-Methylphenol	1600	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	1600	U
67-72-1-----	Hexachloroethane	1600	U
98-95-3-----	Nitrobenzene	1600	U
78-59-1-----	Isophorone	1600	U
88-75-5-----	2-Nitrophenol	1600	U
105-67-9-----	2,4-Dimethylphenol	1600	U
111-91-1-----	bis(2-Chloroethoxy) Methane	1600	U
120-83-2-----	2,4-Dichlorophenol	1600	U
120-82-1-----	1,2,4-Trichlorobenzene	1600	U
91-20-3-----	Naphthalene	1600	U
106-47-8-----	4-Chloroaniline	1600	U
87-68-3-----	Hexachlorobutadiene	1600	U
59-50-7-----	4-Chloro-3-Methylphenol	1600	U
91-57-6-----	2-Methylnaphthalene	1600	U
77-47-4-----	Hexachlorocyclopentadiene	1600	U
88-06-2-----	2,4,6-Trichlorophenol	1600	U
95-95-4-----	2,4,5-Trichlorophenol	4000	U
91-58-7-----	2-Chloronaphthalene	1600	U
88-74-4-----	2-Nitroaniline	4000	U
131-11-3-----	Dimethylphthalate	1600	U
208-96-8-----	Acenaphthylene	1600	U
606-20-2-----	2,6-Dinitrotoluene	1600	U
99-09-2-----	3-Nitroaniline	4000	U
83-32-9-----	Acenaphthene	1600	U
51-28-5-----	2,4-Dinitrophenol	4000	U
100-02-7-----	4-Nitrophenol	4000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

01DL

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74875DL

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1063

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: 20 decanted: (Y/N) N

Date Extracted: 10/06/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/21/97

Injection Volume: 2.0 (uL)

Dilution Factor: 4.0

GPC Cleanup: (Y/N) Y pH: 7.6

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

132-64-9-----	Dibenzofuran	1600	U
121-14-2-----	2,4-Dinitrotoluene	1600	UU
84-66-2-----	Diethylphthalate	1600	UU
7005-72-3-----	4-Chlorophenyl-phenylether	1600	UU
86-73-7-----	Fluorene	1600	UU
100-01-6-----	4-Nitroaniline	4000	UU
534-52-1-----	4,6-Dinitro-2-methylphenol	4000	UU
86-30-6-----	N-Nitrosodiphenylamine (1)	1600	UU
101-55-3-----	4-Bromophenyl-phenylether	1600	UU
118-74-1-----	Hexachlorobenzene	1600	UU
87-86-5-----	Pentachlorophenol	4000	U
85-01-8-----	Phenanthrene	1100	JD
120-12-7-----	Anthracene	360	JD
86-74-8-----	Carbazole	1600	U
84-74-2-----	Di-n-Butylphthalate	1600	UU
206-44-0-----	Fluoranthene	3300	D
129-00-0-----	Pyrene	5500	D
85-68-7-----	Butylbenzylphthalate	1600	UU
91-94-1-----	3,3'-Dichlorobenzidine	1600	UU
56-55-3-----	Benzo(a)Anthracene	2600	D
218-01-9-----	Chrysene	3000	D
117-81-7-----	bis(2-Ethylhexyl)Phthalate	1600	UU
117-84-0-----	Di-n-Octyl Phthalate	1600	U
205-99-2-----	Benzo(b)Fluoranthene	1500	JD
207-08-9-----	Benzo(k)Fluoranthene	1900	D
50-32-8-----	Benzo(a)Pyrene	2400	D
193-39-5-----	Indeno(1,2,3-cd)Pyrene	1600	JD
53-70-3-----	Dibenz(a,h)Anthracene	800	JD
191-24-2-----	Benzo(g,h,i)Perylene	1600	JD

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

01DL

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74875DL

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1063

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: 20 decanted: (Y/N) N

Date Extracted: 10/06/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/21/97

Injection Volume: 2.0(uL)

Dilution Factor: 4.0

GPC Cleanup: (Y/N) Y

pH: 7.6

Number TICs found: 11

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown PAH	26.49	380	J
2.	Unknown PAH	26.76	930	J
3.	Unknown PAH	28.21	340	J
4.	Unknown PAH	28.31	360	J
5.	Unknown PAH	30.46	670	J
6.	Unknown PAH	30.77	340	J
7.	Unknown PAH	31.78	400	J
8.	Unknown PAH	32.51	350	J
9.	Unknown PAH	34.46	400	J
10.	Unknown hydrocarbon	36.12	570	JB
11.	Unknown PAH	37.34	900	J

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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

02

b Name: E & E INC.

Contract:

b Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74876

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1051

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: 15 decanted: (Y/N) N

Date Extracted: 10/06/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/21/97

Injection Volume: 2.0 (uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 8.1

CAS NO.

COMPOUND

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

Q

108-95-2-----	Phenol	780	U
111-44-4-----	bis(2-Chloroethyl) Ether	780	U
95-57-8-----	2-Chlorophenol	780	U
541-73-1-----	1,3-Dichlorobenzene	780	U
106-46-7-----	1,4-Dichlorobenzene	780	U
95-50-1-----	1,2-Dichlorobenzene	780	U
95-48-7-----	2-Methylphenol	780	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	780	U
106-44-5-----	4-Methylphenol	780	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	780	U
67-72-1-----	Hexachloroethane	780	U
98-95-3-----	Nitrobenzene	780	U
78-59-1-----	Isophorone	780	U
88-75-5-----	2-Nitrophenol	780	U
105-67-9-----	2,4-Dimethylphenol	780	U
111-91-1-----	bis(2-Chloroethoxy) Methane	780	U
120-83-2-----	2,4-Dichlorophenol	780	U
120-82-1-----	1,2,4-Trichlorobenzene	780	U
91-20-3-----	Naphthalene	120	J
106-47-8-----	4-Chloroaniline	780	U
87-68-3-----	Hexachlorobutadiene	780	U
59-50-7-----	4-Chloro-3-Methylphenol	780	U
91-57-6-----	2-Methylnaphthalene	150	J
77-47-4-----	Hexachlorocyclopentadiene	780	U
88-06-2-----	2,4,6-Trichlorophenol	780	U
95-95-4-----	2,4,5-Trichlorophenol	1900	U
91-58-7-----	2-Chloronaphthalene	780	U
88-74-4-----	2-Nitroaniline	1900	U
131-11-3-----	Dimethylphthalate	780	U
208-96-8-----	Acenaphthylene	170	J
606-20-2-----	2,6-Dinitrotoluene	780	U
99-09-2-----	3-Nitroaniline	1900	U
83-32-9-----	Acenaphthene	650	J
51-28-5-----	2,4-Dinitrophenol	1900	U
100-02-7-----	4-Nitrophenol	1900	U

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DEC SAMPLE NO.

Contract:

02

GPC Cleanup: (Y/N) Y pH: 8.1

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

Q

132-64-9-----	Dibenzofuran	510	J
121-14-2-----	2,4-Dinitrotoluene	780	U
84-66-2-----	Diethylphthalate	780	U
7005-72-3-----	4-Chlorophenyl-phenylether	780	U
86-73-7-----	Fluorene	1200	
100-01-6-----	4-Nitroaniline	1900	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1900	U
86-30-6-----	N-Nitrosodiphenylamine (1)	780	U
101-55-3-----	4-Bromophenyl-phenylether	780	U
118-74-1-----	Hexachlorobenzene	780	U
87-86-5-----	Pentachlorophenol	1900	U
85-01-8-----	Phenanthrene	7900	E
120-12-7-----	Anthracene	1400	
86-74-8-----	Carbazole	970	
84-74-2-----	Di-n-Butylphthalate	780	U
206-44-0-----	Fluoranthene	9100	E
129-00-0-----	Pyrene	13000	E
85-68-7-----	Butylbenzylphthalate	780	U
91-94-1-----	3,3'-Dichlorobenzidine	780	U
56-55-3-----	Benzo (a) Anthracene	7300	E
218-01-9-----	Chrysene	7500	E
117-81-7-----	bis(2-Ethylhexyl) Phthalate	780	U
117-84-0-----	Di-n-Octyl Phthalate	780	U
205-99-2-----	Benzo (b) Fluoranthene	10000	E
207-08-9-----	Benzo (k) Fluoranthene	4700	
50-32-8-----	Benzo (a) Pyrene	7800	E
193-39-5-----	Indeno (1,2,3-cd) Pyrene	4900	
53-70-3-----	Dibenz (a,h) Anthracene	2400	
191-24-2-----	Benzo (g,h,i) Perylene	5100	

(1) - Cannot be separated from Diphenylamine

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1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

02

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74876

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1051

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: 15 decanted: (Y/N) N

Date Extracted: 10/06/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/21/97

Injection Volume: 2.0 (uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y

pH: 8.1

Number TICs found: 28

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Dimethylnaphthalene isomer	19.02	530	J
2.	Dimethylnaphthalene isomer	19.37	280	J
3.	Trimethylnaphthalene isomer	21.19	300	J
4.	Trimethylnaphthalene isomer	21.43	240	J
5.	Unknown PAH	22.09	270	J
6.	Methyldibenzofuran isomer	22.37	450	J
7.	Methyldibenzofuran isomer	22.58	460	J
8.	Unknown PAH	23.57	280	J
9.	Unknown PAH	23.69	290	J
10.	Unknown PAH	24.05	700	J
11.	Unknown aromatic	24.35	260	J
12. 132-65-0	Dibenzothiophene	24.43	420	JN
13.	Unknown	25.28	270	JB
14.	Unknown PAH	25.83	610	J
15.	Unknown PAH	26.41	1000	J
16.	Unknown PAH	26.49	1200	J
17.	Unknown PAH	26.62	510	J
18.	Unknown PAH	26.77	1900	J
19.	Unknown PAH	27.37	620	J
20.	Unknown oxygenated PAH	27.49	600	J
21.	Unknown PAH	27.97	340	J
22.	Unknown PAH	28.22	790	J
23.	Unknown	28.92	390	J
24.	Unknown aromatic	29.13	290	J
25.	Benzonaphthofuran isomer	29.58	270	J
26.	Unknown PAH	30.12	450	J
27.	Unknown PAH	30.45	1100	J
28.	Unknown PAH	30.67	550	J

FORM I SV-TIC

10/334

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

02DL

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74876DL

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1064

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: 15 decanted: (Y/N) N

Date Extracted: 10/06/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/21/97

Injection Volume: 2.0 (uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 8.1

CAS NO.

COMPOUND

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

Q

108-95-2-----	Phenol	3900	U
111-44-4-----	bis(2-Chloroethyl) Ether	3900	U
95-57-8-----	2-Chlorophenol	3900	U
541-73-1-----	1,3-Dichlorobenzene	3900	U
106-46-7-----	1,4-Dichlorobenzene	3900	U
95-50-1-----	1,2-Dichlorobenzene	3900	U
95-48-7-----	2-Methylphenol	3900	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	3900	U
106-44-5-----	4-Methylphenol	3900	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	3900	U
67-72-1-----	Hexachloroethane	3900	U
98-95-3-----	Nitrobenzene	3900	U
78-59-1-----	Isophorone	3900	U
88-75-5-----	2-Nitrophenol	3900	U
105-67-9-----	2,4-Dimethylphenol	3900	U
111-91-1-----	bis(2-Chloroethoxy)Methane	3900	U
120-83-2-----	2,4-Dichlorophenol	3900	U
120-82-1-----	1,2,4-Trichlorobenzene	3900	U
91-20-3-----	Naphthalene	3900	U
106-47-8-----	4-Chloroaniline	3900	U
87-68-3-----	Hexachlorobutadiene	3900	U
59-50-7-----	4-Chloro-3-Methylphenol	3900	U
91-57-6-----	2-Methylnaphthalene	3900	U
77-47-4-----	Hexachlorocyclopentadiene	3900	U
88-06-2-----	2,4,6-Trichlorophenol	3900	U
95-95-4-----	2,4,5-Trichlorophenol	9400	U
91-58-7-----	2-Chloronaphthalene	3900	U
88-74-4-----	2-Nitroaniline	9400	U
131-11-3-----	Dimethylphthalate	3900	U
208-96-8-----	Acenaphthylene	3900	U
606-20-2-----	2,6-Dinitrotoluene	3900	U
99-09-2-----	3-Nitroaniline	9400	U
83-32-9-----	Acenaphthene	570	JD
51-28-5-----	2,4-Dinitrophenol	9400	U
100-02-7-----	4-Nitrophenol	9400	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

02DL

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74876DL

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1064

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: 15 decanted: (Y/N) N

Date Extracted: 10/06/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/21/97

Injection Volume: 2.0 (uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 8.1

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

132-64-9-----	Dibenzofuran	440	JD
121-14-2-----	2,4-Dinitrotoluene	3900	U
84-66-2-----	Diethylphthalate	3900	U
7005-72-3-----	4-Chlorophenyl-phenylether	3900	U
86-73-7-----	Fluorene	950	JD
100-01-6-----	4-Nitroaniline	9400	U
534-52-1-----	4,6-Dinitro-2-methylphenol	9400	U
86-30-6-----	N-Nitrosodiphenylamine (1)	3900	U
101-55-3-----	4-Bromophenyl-phenylether	3900	U
118-74-1-----	Hexachlorobenzene	3900	U
87-86-5-----	Pentachlorophenol	9400	U
85-01-8-----	Phenanthrene	9700	D
120-12-7-----	Anthracene	1800	JD
86-74-8-----	Carbazole	550	JD
84-74-2-----	Di-n-Butylphthalate	3900	U
206-44-0-----	Fluoranthene	10000	D
129-00-0-----	Pyrene	15000	D
85-68-7-----	Butylbenzylphthalate	3900	U
91-94-1-----	3,3'-Dichlorobenzidine	3900	U
56-55-3-----	Benzo(a)Anthracene	5900	D
218-01-9-----	Chrysene	7200	D
117-81-7-----	bis(2-Ethylhexyl)Phthalate	3900	U
117-84-0-----	Di-n-Octyl Phthalate	3900	U
205-99-2-----	Benzo(b)Fluoranthene	4500	D
207-08-9-----	Benzo(k)Fluoranthene	3700	JD
50-32-8-----	Benzo(a)Pyrene	5100	D
193-39-5-----	Indeno(1,2,3-cd)Pyrene	3700	JD
53-70-3-----	Dibenz(a,h)Anthracene	2200	JD
191-24-2-----	Benzo(g,h,i)Perylene	4400	D

(1) - Cannot be separated from Diphenylamine

334

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

02DL

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74876DL

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1064

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: 15 decanted: (Y/N) N

Date Extracted: 10/06/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/21/97

Injection Volume: 2.0(uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y

pH: 8.1

Number TICs found: 11

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown PAH	26.40	1200	J
2.	Unknown PAH	26.50	1900	J
3.	Unknown PAH	26.76	2800	J
4.	Unknown PAH	27.37	810	J
5.	Unknown PAH	28.21	860	J
6.	Unknown oxygenated PAH	28.47	840	J
7.	Unknown PAH	30.45	1200	J
8.	Unknown PAH	30.77	950	J
9.	Unknown PAH	31.79	1200	J
10.	Unknown PAH	32.52	980	J
11.	Unknown PAH	37.35	1400	J

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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

03

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74877

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1052

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: 40 decanted: (Y/N) N

Date Extracted: 10/06/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/21/97

Injection Volume: 2.0(uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.2

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

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	2700	U
111-44-4-----	bis(2-Chloroethyl) Ether	2700	U
95-57-8-----	2-Chlorophenol	2700	U
541-73-1-----	1,3-Dichlorobenzene	2700	U
106-46-7-----	1,4-Dichlorobenzene	2700	U
95-50-1-----	1,2-Dichlorobenzene	2700	U
95-48-7-----	2-Methylphenol	2700	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	2700	U
106-44-5-----	4-Methylphenol	2700	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	2700	U
67-72-1-----	Hexachloroethane	2700	U
98-95-3-----	Nitrobenzene	2700	U
78-59-1-----	Isophorone	2700	U
88-75-5-----	2-Nitrophenol	2700	U
105-67-9-----	2,4-Dimethylphenol	2700	U
111-91-1-----	bis(2-Chloroethoxy) Methane	2700	U
120-83-2-----	2,4-Dichlorophenol	2700	U
120-82-1-----	1,2,4-Trichlorobenzene	2700	U
91-20-3-----	Naphthalene	2700	U
106-47-8-----	4-Chloroaniline	2700	U
87-68-3-----	Hexachlorobutadiene	2700	U
59-50-7-----	4-Chloro-3-Methylphenol	2700	U
91-57-6-----	2-Methylnaphthalene	280	J
77-47-4-----	Hexachlorocyclopentadiene	2700	U
88-06-2-----	2,4,6-Trichlorophenol	2700	U
95-95-4-----	2,4,5-Trichlorophenol	6700	U
91-58-7-----	2-Chloronaphthalene	2700	U
88-74-4-----	2-Nitroaniline	6700	U
131-11-3-----	Dimethylphthalate	2700	U
208-96-8-----	Acenaphthylene	1600	J
606-20-2-----	2,6-Dinitrotoluene	2700	U
99-09-2-----	3-Nitroaniline	6700	U
83-32-9-----	Acenaphthene	430	J
51-28-5-----	2,4-Dinitrophenol	6700	U
100-02-7-----	4-Nitrophenol	6700	U

431

DEC SAMPLE NC.

Contract:

03

SDG No. : 74875

Lab Sample ID: 74877

Lab File ID: E1052

Date Received: 10/02/97

Date Extracted: 10/06/97

Date Analyzed: 10/21/97

Dilution Factor: 5.0

CONCENTRATION UNITS:

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

Q

4 2 4 4 7 0 4 4 4 4 4 4

(1) - Cannot be separated from Diphenylamine

432

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

03

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74877

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1052

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: 40 decanted: (Y/N) N

Date Extracted: 10/06/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/21/97

Injection Volume: 2.0(uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y

pH: 7.2

Number TICs found: 26

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 98-86-2	Acetophenone	11.89	590	JN
2. 65-85-0	Benzoic Acid	14.17	770	JN
3.	Dimethylnaphthalene isomer	19.01	720	J
4.	Dimethylnaphthalene isomer	21.14	600	J
5.	Methyldibenzofuran isomer	22.36	570	J
6.	Unknown	23.12	560	J
7.	Unknown PAH	23.56	680	J
8.	Unknown PAH	24.06	1600	J
9.	Unknown PAH	25.23	670	J
10.	Unknown PAH	25.83	1100	J
11.	Unknown PAH	26.40	2200	J
12.	Unknown PAH	26.49	2300	J
13.	Unknown PAH	26.60	1400	J
14.	Unknown PAH	26.75	5200	J
15.	Unknown PAH	27.36	1100	J
16.	Unknown PAH	27.96	790	J
17.	Unknown PAH	28.22	730	J
18.	Unknown PAH	28.96	1200	J
19.	Unknown PAH	30.12	910	J
20.	Unknown PAH	30.45	3200	J
21.	Unknown PAH	30.67	1300	J
22.	Unknown PAH	30.78	1300	J
23.	Unknown oxygenated PAH	32.11	830	J
24.	Benzonaphthothiophene isomer	32.41	640	J
25.	Unknown oxygenated hydrocarb	36.15	1200	J
26.	Unknown PAH	37.34	1900	J

433

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

03DL

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74877DL

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1065

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: 40 decanted: (Y/N) N

Date Extracted: 10/06/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/21/97

Injection Volume: 2.0 (uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y

pH: 7.2

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

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	5500	U
111-44-4-----	bis(2-Chloroethyl) Ether	5500	U
95-57-8-----	2-Chlorophenol	5500	U
541-73-1-----	1,3-Dichlorobenzene	5500	U
106-46-7-----	1,4-Dichlorobenzene	5500	U
95-50-1-----	1,2-Dichlorobenzene	5500	U
95-48-7-----	2-Methylphenol	5500	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	5500	U
106-44-5-----	4-Methylphenol	5500	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	5500	U
67-72-1-----	Hexachloroethane	5500	U
98-95-3-----	Nitrobenzene	5500	U
78-59-1-----	Isophorone	5500	U
88-75-5-----	2-Nitrophenol	5500	U
105-67-9-----	2,4-Dimethylphenol	5500	U
111-91-1-----	bis(2-Chloroethoxy) Methane	5500	U
120-83-2-----	2,4-Dichlorophenol	5500	U
120-82-1-----	1,2,4-Trichlorobenzene	5500	U
91-20-3-----	Naphthalene	5500	U
106-47-8-----	4-Chloroaniline	5500	U
87-68-3-----	Hexachlorobutadiene	5500	U
59-50-7-----	4-Chloro-3-Methylphenol	5500	U
91-57-6-----	2-Methylnaphthalene	5500	U
77-47-4-----	Hexachlorocyclopentadiene	5500	U
88-06-2-----	2,4,6-Trichlorophenol	5500	U
95-95-4-----	2,4,5-Trichlorophenol	13000	U
91-58-7-----	2-Chloronaphthalene	5500	U
88-74-4-----	2-Nitroaniline	13000	U
131-11-3-----	Dimethylphthalate	5500	U
208-96-8-----	Acenaphthylene	970	JD
606-20-2-----	2,6-Dinitrotoluene	5500	U
99-09-2-----	3-Nitroaniline	13000	U
83-32-9-----	Acenaphthene	5500	U
51-28-5-----	2,4-Dinitrophenol	13000	U
100-02-7-----	4-Nitrophenol	13000	U

R

4.2-

DEC SAMPLE NO.

03DL

Contract:

SDG No.: 74875

Lab Sample ID: 74877DL

Lab File ID: E1065

Date Received: 10/02/97

Date Extracted: 10/06/97

Date Analyzed: 10/21/97

Dilution Factor: 10.0

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

O

132-64-9-----Dibenzofuran	5500	U
121-14-2-----2,4-Dinitrotoluene	5500	U
84-66-2-----Diethylphthalate	5500	U
7005-72-3-----4-Chlorophenyl-phenylether	5500	U
86-73-7-----Fluorene	690	JD
100-01-6-----4-Nitroaniline	13000	U
534-52-1-----4,6-Dinitro-2-methylphenol	13000	U
86-30-6-----N-Nitrosodiphenylamine (1)	5500	U
101-55-3-----4-Bromophenyl-phenylether	5500	U
118-74-1-----Hexachlorobenzene	5500	U
87-86-5-----Pentachlorophenol	13000	U
85-01-8-----Phenanthrene	6800	D
120-12-7-----Anthracene	2000	JD
86-74-8-----Carbazole	5500	U
84-74-2-----Di-n-Butylphthalate	5500	U
206-44-0-----Fluoranthene	17000	D
129-00-0-----Pyrene	20000	D
85-68-7-----Butylbenzylphthalate	5500	U
91-94-1-----3,3'-Dichlorobenzidine	5500	U
56-55-3-----Benzo (a) Anthracene	12000	D
218-01-9-----Chrysene	11000	D
117-81-7-----bis(2-Ethylhexyl) Phthalate	5500	U
117-84-0-----Di-n-Octyl Phthalate	5500	U
205-99-2-----Benzo (b) Fluoranthene	17000	D
207-08-9-----Benzo (k) Fluoranthene	5500	U
50-32-8-----Benzo (a) Pyrene	9300	D
193-39-5-----Indeno (1,2,3-cd) Pyrene	6400	D
53-70-3-----Dibenz (a,h) Anthracene	3200	JD
191-24-2-----Benzo (g,h,i) Perylene	5800	D

(1) - Cannot be separated from Diphenylamine

R
J
J
R
R
J
R

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

03DL

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74877DL

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1065

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: 40 decanted: (Y/N) N

Date Extracted: 10/06/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/21/97

Injection Volume: 2.0(uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y

pH: 7.2

Number TICs found: 11

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown PAH	26.77	2800	J
2.	Unknown PAH	30.12	1200	J
3.	Unknown PAH	30.47	2300	J
4.	Unknown PAH	30.67	1100	J
5.	Unknown PAH	30.79	1200	J
6.	Unknown PAH	32.51	1500	J
7.	Unknown oxygenated hydrocarb	36.16	2000	J
8.	Unknown PAH	36.81	1500	J
9.	Unknown PAH	37.36	3600	J
10.	Unknown oxygenated hydrocarb	38.39	3500	J
11.	Unknown oxygenated hydrocarb	41.32	1900	J

R
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

04

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74878

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1056

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: 26 decanted: (Y/N) N

Date Extracted: 10/06/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/21/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6

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

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	450	U
111-44-4-----	bis(2-Chloroethyl) Ether	450	U
95-57-8-----	2-Chlorophenol	450	U
541-73-1-----	1,3-Dichlorobenzene	450	U
106-46-7-----	1,4-Dichlorobenzene	450	U
95-50-1-----	1,2-Dichlorobenzene	450	U
95-48-7-----	2-Methylphenol	450	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	450	U
106-44-5-----	4-Methylphenol	450	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	450	U
67-72-1-----	Hexachloroethane	450	U
98-95-3-----	Nitrobenzene	450	U
78-59-1-----	Isophorone	450	U
88-75-5-----	2-Nitrophenol	450	U
105-67-9-----	2,4-Dimethylphenol	450	U
111-91-1-----	bis(2-Chloroethoxy) Methane	450	U
120-83-2-----	2,4-Dichlorophenol	450	U
120-82-1-----	1,2,4-Trichlorobenzene	450	U
91-20-3-----	Naphthalene	450	U
106-47-8-----	4-Chloroaniline	450	U
87-68-3-----	Hexachlorobutadiene	450	U
59-50-7-----	4-Chloro-3-Methylphenol	450	U
91-57-6-----	2-Methylnaphthalene	450	U
77-47-4-----	Hexachlorocyclopentadiene	450	U
88-06-2-----	2,4,6-Trichlorophenol	450	U
95-95-4-----	2,4,5-Trichlorophenol	1100	U
91-58-7-----	2-Chloronaphthalene	450	U
88-74-4-----	2-Nitroaniline	1100	U
131-11-3-----	Dimethylphthalate	450	U
208-96-8-----	Acenaphthylene	450	U
606-20-2-----	2,6-Dinitrotoluene	450	U
99-09-2-----	3-Nitroaniline	1100	U
83-32-9-----	Acenaphthene	450	U
51-28-5-----	2,4-Dinitrophenol	1100	U
100-02-7-----	4-Nitrophenol	1100	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

04

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74878

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1056

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: 26 decanted: (Y/N) N

Date Extracted: 10/06/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/21/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

132-64-9-----	Dibenzofuran	450	U
121-14-2-----	2,4-Dinitrotoluene	450	U
84-66-2-----	Diethylphthalate	450	U
7005-72-3-----	4-Chlorophenyl-phenylether	450	U
86-73-7-----	Fluorene	450	U
100-01-6-----	4-Nitroaniline	1100	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1100	U
86-30-6-----	N-Nitrosodiphenylamine (1)	450	U
101-55-3-----	4-Bromophenyl-phenylether	450	U
118-74-1-----	Hexachlorobenzene	450	U
87-86-5-----	Pentachlorophenol	1100	U
85-01-8-----	Phenanthrene	410	J
120-12-7-----	Anthracene	66	J
86-74-8-----	Carbazole	49	J
84-74-2-----	Di-n-Butylphthalate	450	U
206-44-0-----	Fluoranthene	680	
129-00-0-----	Pyrene	700	
85-68-7-----	Butylbenzylphthalate	450	U
91-94-1-----	3,3'-Dichlorobenzidine	450	U
56-55-3-----	Benzo(a)Anthracene	360	J
218-01-9-----	Chrysene	420	J
117-81-7-----	bis(2-Ethylhexyl)Phthalate	120	J
117-84-0-----	Di-n-Octyl Phthalate	450	U
205-99-2-----	Benzo(b)Fluoranthene	380	J
207-08-9-----	Benzo(k)Fluoranthene	240	J
50-32-8-----	Benzo(a)Pyrene	330	J
193-39-5-----	Indeno(1,2,3-cd)Pyrene	270	J
53-70-3-----	Dibenz(a,h)Anthracene	92	J
191-24-2-----	Benzo(g,h,i)Perylene	280	J

444

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

04

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74878

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1056

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: 26 decanted: (Y/N) N

Date Extracted: 10/06/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/21/97

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.6

Number TICs found: 8

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Methylbenzoquinone isomer	10.65	110	J
2.	Unknown hydrocarbon	16.32	160	J
3.	Unknown	25.25	110	BJ
4. 57-10-3	Hexadecanoic acid	26.75	260	JN
5.	Unknown oxygenated hydrocarb	31.77	170	J
6.	Unknown hydrocarbon	36.12	650	BJ
7.	Unknown oxygenated hydrocarb	38.37	500	J
8.	Unknown oxygenated hydrocarb	41.30	230	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

05

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74879

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1057

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: 18 decanted: (Y/N) N

Date Extracted: 10/06/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/21/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6

CAS NO.

COMPOUND

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

Q

108-95-2-----	Phenol	400	U
111-44-4-----	bis(2-Chloroethyl)Ether	400	U
95-57-8-----	2-Chlorophenol	400	U
541-73-1-----	1,3-Dichlorobenzene	400	U
106-46-7-----	1,4-Dichlorobenzene	400	U
95-50-1-----	1,2-Dichlorobenzene	400	U
95-48-7-----	2-Methylphenol	400	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	400	U
106-44-5-----	4-Methylphenol	400	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	400	U
67-72-1-----	Hexachloroethane	400	U
98-95-3-----	Nitrobenzene	400	U
78-59-1-----	Isophorone	400	U
88-75-5-----	2-Nitrophenol	400	U
105-67-9-----	2,4-Dimethylphenol	400	U
111-91-1-----	bis(2-Chloroethoxy)Methane	400	U
120-83-2-----	2,4-Dichlorophenol	400	U
120-82-1-----	1,2,4-Trichlorobenzene	400	U
91-20-3-----	Naphthalene	400	U
106-47-8-----	4-Chloroaniline	400	U
87-68-3-----	Hexachlorobutadiene	400	U
59-50-7-----	4-Chloro-3-Methylphenol	400	U
91-57-6-----	2-Methylnaphthalene	400	U
77-47-4-----	Hexachlorocyclopentadiene	400	U
88-06-2-----	2,4,6-Trichlorophenol	400	U
95-95-4-----	2,4,5-Trichlorophenol	980	U
91-58-7-----	2-Chloronaphthalene	400	U
88-74-4-----	2-Nitroaniline	980	U
131-11-3-----	Dimethylphthalate	400	U
208-96-8-----	Acenaphthylene	400	U
606-20-2-----	2,6-Dinitrotoluene	400	U
99-09-2-----	3-Nitroaniline	980	U
83-32-9-----	Acenaphthene	400	U
51-28-5-----	2,4-Dinitrophenol	980	U
100-02-7-----	4-Nitrophenol	980	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

05

b Name: E & E INC.

Contract:

b Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74879

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1057

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: 18 decanted: (Y/N) N

Date Extracted: 10/06/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/21/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.6

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

132-64-9-----	Dibenzofuran	400	U
121-14-2-----	2,4-Dinitrotoluene	400	U
84-66-2-----	Diethylphthalate	400	U
7005-72-3-----	4-Chlorophenyl-phenylether	400	U
86-73-7-----	Fluorene	400	U
100-01-6-----	4-Nitroaniline	980	U
534-52-1-----	4,6-Dinitro-2-methylphenol	980	U
86-30-6-----	N-Nitrosodiphenylamine (1)	400	U
101-55-3-----	4-Bromophenyl-phenylether	400	U
118-74-1-----	Hexachlorobenzene	400	U
87-86-5-----	Pentachlorophenol	980	U
85-01-8-----	Phenanthrene	330	J
120-12-7-----	Anthracene	51	J
86-74-8-----	Carbazole	400	U
84-74-2-----	Di-n-Butylphthalate	150	J
206-44-0-----	Fluoranthene	690	
129-00-0-----	Pyrene	980	
85-68-7-----	Butylbenzylphthalate	57	J
91-94-1-----	3,3'-Dichlorobenzidine	400	U
56-55-3-----	Benzo(a)Anthracene	560	
218-01-9-----	Chrysene	640	
117-81-7-----	bis(2-Ethylhexyl)Phthalate	280	J
117-84-0-----	Di-n-Octyl Phthalate	400	U
205-99-2-----	Benzo(b)Fluoranthene	560	
207-08-9-----	Benzo(k)Fluoranthene	290	J
50-32-8-----	Benzo(a)Pyrene	490	
193-39-5-----	Indeno(1,2,3-cd)Pyrene	420	
53-70-3-----	Dibenz(a,h)Anthracene	230	J
191-24-2-----	Benzo(g,h,i)Perylene	510	

(1) - Cannot be separated from Diphenylamine

444

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1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

05

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74879

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1057

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: 18 decanted: (Y/N) N

Date Extracted: 10/06/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/21/97

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.6

Number TICs found: 8

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.	Unknown	14.14	100	J
2.	Unknown aromatic	21.77	160	J
3.	Unknown	25.26	84	JB
4.	Unknown hydrocarbon	25.52	92	J
5.	Unknown carboxylic acid	26.67	110	J
6. 57-10-3	Hexadecanoic acid	26.77	270	JN
7.	Unknown PAH	30.43	120	J
8.	Unknown oxygenated hydrocarb	36.14	1200	J

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

06SO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74880

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1076

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: 24 decanted: (Y/N) N

Date Extracted: 10/06/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/22/97

Injection Volume: 2.0 (uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.9

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

132-64-9-----	Dibenzofuran	870	U
121-14-2-----	2,4-Dinitrotoluene	870	U
84-66-2-----	Diethylphthalate	870	U
7005-72-3-----	4-Chlorophenyl-phenylether	870	U
86-73-7-----	Fluorene	870	U
100-01-6-----	4-Nitroaniline	2100	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2100	U
86-30-6-----	N-Nitrosodiphenylamine (1)	870	U
101-55-3-----	4-Bromophenyl-phenylether	870	U
118-74-1-----	Hexachlorobenzene	870	U
87-86-5-----	Pentachlorophenol	2100	U
85-01-8-----	Phenanthrene	1200	
120-12-7-----	Anthracene	210	J
86-74-8-----	Carbazole	260	J
84-74-2-----	Di-n-Butylphthalate	800	J
206-44-0-----	Fluoranthene	2200	
129-00-0-----	Pyrene	3000	
85-68-7-----	Butylbenzylphthalate	100	J
91-94-1-----	3,3'-Dichlorobenzidine	870	U
56-55-3-----	Benzo(a)Anthracene	1600	
218-01-9-----	Chrysene	1800	
117-81-7-----	bis(2-Ethylhexyl)Phthalate	830	J
117-84-0-----	Di-n-Octyl Phthalate	870	U
205-99-2-----	Benzo(b)Fluoranthene	1700	
207-08-9-----	Benzo(k)Fluoranthene	1300	
50-32-8-----	Benzo(a)Pyrene	1500	
193-39-5-----	Indeno(1,2,3-cd)Pyrene	920	
53-70-3-----	Dibenz(a,h)Anthracene	470	J
191-24-2-----	Benzo(g,h,i)Perylene	940	

(1) - Cannot be separated from Diphenylamine

640

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

06S0

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74880

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1076

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: 24 decanted: (Y/N) N

Date Extracted: 10/06/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/22/97

Injection Volume: 2.0 (uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.9

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

108-95-2-----	Phenol	870	U
111-44-4-----	bis(2-Chloroethyl) Ether	870	U
95-57-8-----	2-Chlorophenol	870	U
541-73-1-----	1,3-Dichlorobenzene	870	U
106-46-7-----	1,4-Dichlorobenzene	870	U
95-50-1-----	1,2-Dichlorobenzene	870	U
95-48-7-----	2-Methylphenol	870	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	870	U
106-44-5-----	4-Methylphenol	870	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	870	U
67-72-1-----	Hexachloroethane	870	U
98-95-3-----	Nitrobenzene	870	U
78-59-1-----	Isophorone	870	U
88-75-5-----	2-Nitrophenol	870	U
105-67-9-----	2,4-Dimethylphenol	870	U
111-91-1-----	bis(2-Chloroethoxy) Methane	870	U
120-83-2-----	2,4-Dichlorophenol	870	U
120-82-1-----	1,2,4-Trichlorobenzene	870	U
91-20-3-----	Naphthalene	870	U
106-47-8-----	4-Chloroaniline	870	U
87-68-3-----	Hexachlorobutadiene	870	U
59-50-7-----	4-Chloro-3-Methylphenol	870	U
91-57-6-----	2-Methylnaphthalene	870	U
77-47-4-----	Hexachlorocyclopentadiene	870	U
88-06-2-----	2,4,6-Trichlorophenol	870	U
95-95-4-----	2,4,5-Trichlorophenol	2100	U
91-58-7-----	2-Chloronaphthalene	870	U
88-74-4-----	2-Nitroaniline	2100	U
131-11-3-----	Dimethylphthalate	870	U
208-96-8-----	Acenaphthylene	870	U
606-20-2-----	2,6-Dinitrotoluene	870	U
99-09-2-----	3-Nitroaniline	2100	U
83-32-9-----	Acenaphthene	870	U
51-28-5-----	2,4-Dinitrophenol	2100	U
100-02-7-----	4-Nitrophenol	2100	U

539

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

06SO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74880

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1076

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: 24 decanted: (Y/N) N

Date Extracted: 10/06/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/22/97

Injection Volume: 2.0(uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y

pH: 7.9

Number TICs found: 8

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.	Tolylsulfonamide isomer	22.43	700	J
2.	Tolylsulfonamide isomer	23.08	1300	J
3.	Unknown PAH	26.43	200	J
4.	Unknown PAH	26.72	530	J
5.	Unknown PAH	30.41	310	J
6.	Unknown PAH	31.10	220	J
7.	Unknown PAH	32.47	330	J
8.	Unknown hydrocarbon	36.08	650	JB

641

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

06SD

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74881

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1058

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: 24 decanted: (Y/N) N

Date Extracted: 10/06/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/21/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9

CAS NO.

COMPOUND

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

Q

108-95-2-----	Phenol	430	U
111-44-4-----	bis(2-Chloroethyl) Ether	430	U
95-57-8-----	2-Chlorophenol	430	U
541-73-1-----	1,3-Dichlorobenzene	430	U
106-46-7-----	1,4-Dichlorobenzene	430	U
95-50-1-----	1,2-Dichlorobenzene	430	U
95-48-7-----	2-Methylphenol	430	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	430	U
106-44-5-----	4-Methylphenol	430	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	430	U
67-72-1-----	Hexachloroethane	430	U
98-95-3-----	Nitrobenzene	430	U
78-59-1-----	Isophorone	430	U
88-75-5-----	2-Nitrophenol	430	U
105-67-9-----	2,4-Dimethylphenol	430	U
111-91-1-----	bis(2-Chloroethoxy)Methane	430	U
120-83-2-----	2,4-Dichlorophenol	430	U
120-82-1-----	1,2,4-Trichlorobenzene	430	U
91-20-3-----	Naphthalene	430	U
106-47-8-----	4-Chloroaniline	430	U
87-68-3-----	Hexachlorobutadiene	430	U
59-50-7-----	4-Chloro-3-Methylphenol	430	U
91-57-6-----	2-Methylnaphthalene	430	U
77-47-4-----	Hexachlorocyclopentadiene	430	U
88-06-2-----	2,4,6-Trichlorophenol	430	U
95-95-4-----	2,4,5-Trichlorophenol	1100	U
91-58-7-----	2-Chloronaphthalene	430	U
88-74-4-----	2-Nitroaniline	1100	U
131-11-3-----	Dimethylphthalate	430	U
208-96-8-----	Acenaphthylene	430	U
606-20-2-----	2,6-Dinitrotoluene	430	U
99-09-2-----	3-Nitroaniline	1100	U
83-32-9-----	Acenaphthene	430	U
51-28-5-----	2,4-Dinitrophenol	1100	U
100-02-7-----	4-Nitrophenol	1100	U

DEC SAMPLE NO.

06SD

Contract :

SDG No. : 74875

Lab Sample ID: 74881

Lab File ID: E1058

Date Received: 10/02/97

Date Extracted: 10/06/97

Date Analyzed: 10/21/97

Dilution Factor: 1.0

CONCENTRATION UNITS:

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

Q

RPD

244444 44 444 4

(1) - Cannot be separated from Diphenylamine

538

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

06SD

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74881

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1058

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: 24 decanted: (Y/N) N

Date Extracted: 10/06/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/21/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.9

Number TICs found: 12

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown terpene	9.57	190	J
2.	Unknown oxygenated hydrocarb	10.16	210	J
3. 544-63-8	Tetradecanoic acid	24.05	95	JN
4. 1002-84-2	Pentadecanoic acid	24.94	93	JN
5.	Unknown	25.27	130	JB
6.	Unknown oxygenated hydrocarb	26.57	150	J
7.	Unknown carboxylic acid	26.68	190	J
8. 57-10-3	Hexadecanoic acid	26.80	370	JN
9.	Unknown PAH	28.21	130	J
10.	Unknown PAH	30.11	130	J
11.	Unknown PAH	30.44	190	J
12.	Unknown hydrocarbon	36.13	2400	JB

599

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

07

Job Name: E & E INC.

Contract:

Job Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74882

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1059

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: 23 decanted: (Y/N) N

Date Extracted: 10/06/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/21/97

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

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

CAS NO.

COMPOUND

Q

132-64-9-----	Dibenzofuran	430	U
121-14-2-----	2,4-Dinitrotoluene	430	U
84-66-2-----	Diethylphthalate	430	U
7005-72-3-----	4-Chlorophenyl-phenylether	430	U
86-73-7-----	Fluorene	51	J
100-01-6-----	4-Nitroaniline	1000	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1000	U
86-30-6-----	N-Nitrosodiphenylamine (1)	430	U
101-55-3-----	4-Bromophenyl-phenylether	430	U
118-74-1-----	Hexachlorobenzene	430	U
87-86-5-----	Pentachlorophenol	1000	U
85-01-8-----	Phenanthrene	580	
120-12-7-----	Anthracene	110	J
86-74-8-----	Carbazole	72	J
84-74-2-----	Di-n-Butylphthalate	64	J
206-44-0-----	Fluoranthene	1000	
129-00-0-----	Pyrene	1100	
85-68-7-----	Butylbenzylphthalate	430	U
91-94-1-----	3,3'-Dichlorobenzidine	430	U
56-55-3-----	Benzo(a)Anthracene	650	
218-01-9-----	Chrysene	690	
117-81-7-----	bis(2-Ethylhexyl)Phthalate	200	J
117-84-0-----	Di-n-Octyl Phthalate	430	U
205-99-2-----	Benzo(b)Fluoranthene	910	
207-08-9-----	Benzo(k)Fluoranthene	430	U
50-32-8-----	Benzo(a)Pyrene	490	
193-39-5-----	Indeno(1,2,3-cd)Pyrene	430	
53-70-3-----	Dibenz(a,h)Anthracene	250	J
191-24-2-----	Benzo(g,h,i)Perylene	490	

(1) - Cannot be separated from Diphenylamine

444

686

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

07

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74882

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1059

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: 23 decanted: (Y/N) N

Date Extracted: 10/06/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/21/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

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

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	430	U
111-44-4-----	bis(2-Chloroethyl)Ether	430	U
95-57-8-----	2-Chlorophenol	430	U
541-73-1-----	1,3-Dichlorobenzene	430	U
106-46-7-----	1,4-Dichlorobenzene	430	U
95-50-1-----	1,2-Dichlorobenzene	430	U
95-48-7-----	2-Methylphenol	430	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	430	U
106-44-5-----	4-Methylphenol	430	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	430	U
67-72-1-----	Hexachloroethane	430	U
98-95-3-----	Nitrobenzene	430	U
78-59-1-----	Isophorone	430	U
88-75-5-----	2-Nitrophenol	430	U
105-67-9-----	2,4-Dimethylphenol	430	U
111-91-1-----	bis(2-Chloroethoxy)Methane	430	U
120-83-2-----	2,4-Dichlorophenol	430	U
120-82-1-----	1,2,4-Trichlorobenzene	430	U
91-20-3-----	Naphthalene	430	U
106-47-8-----	4-Chloroaniline	430	U
87-68-3-----	Hexachlorobutadiene	430	U
59-50-7-----	4-Chloro-3-Methylphenol	430	U
91-57-6-----	2-Methylnaphthalene	430	U
77-47-4-----	Hexachlorocyclopentadiene	430	U
88-06-2-----	2,4,6-Trichlorophenol	430	U
95-95-4-----	2,4,5-Trichlorophenol	1000	U
91-58-7-----	2-Chloronaphthalene	430	U
88-74-4-----	2-Nitroaniline	1000	U
131-11-3-----	Dimethylphthalate	430	U
208-96-8-----	Acenaphthylene	430	U
606-20-2-----	2,6-Dinitrotoluene	430	U
99-09-2-----	3-Nitroaniline	1000	U
83-32-9-----	Acenaphthene	430	U
51-28-5-----	2,4-Dinitrophenol	1000	U
100-02-7-----	4-Nitrophenol	1000	U

685

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

07

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74882

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1059

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: 23 decanted: (Y/N) N

Date Extracted: 10/06/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/21/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

Number TICs found: 11

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	9.50	130	J
2.	Unknown oxygenated hydrocarb	25.07	110	J
3.	Unknown	25.28	120	JB
4.	Unknown oxygenated hydrocarb	25.89	260	J
5.	Unknown PAH	26.49	140	J
6. 57-10-3	Hexadecanoic acid	26.79	410	JN
7.	Unknown PAH	30.45	150	J
8.	Unknown oxygenated hydrocarb	31.71	700	J
9.	Unknown oxygenated hydrocarb	34.45	770	J
10.	Unknown hydrocarbon	36.13	1000	JB
11.	Unknown oxygenated hydrocarb	38.39	600	J

687

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

08

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74883

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1060

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 10/06/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/21/97

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

CAS NO.

COMPOUND

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

Q

108-95-2-----	Phenol	450	U
111-44-4-----	bis(2-Chloroethyl)Ether	450	U
95-57-8-----	2-Chlorophenol	450	U
541-73-1-----	1,3-Dichlorobenzene	450	U
106-46-7-----	1,4-Dichlorobenzene	450	U
95-50-1-----	1,2-Dichlorobenzene	450	U
95-48-7-----	2-Methylphenol	450	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	450	U
106-44-5-----	4-Methylphenol	450	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	450	U
67-72-1-----	Hexachloroethane	450	U
98-95-3-----	Nitrobenzene	450	U
78-59-1-----	Isophorone	450	U
88-75-5-----	2-Nitrophenol	450	U
105-67-9-----	2,4-Dimethylphenol	450	U
111-91-1-----	bis(2-Chloroethoxy)Methane	450	U
120-83-2-----	2,4-Dichlorophenol	450	U
120-82-1-----	1,2,4-Trichlorobenzene	450	U
91-20-3-----	Naphthalene	450	U
106-47-8-----	4-Chloroaniline	450	U
87-68-3-----	Hexachlorobutadiene	450	U
59-50-7-----	4-Chloro-3-Methylphenol	450	U
91-57-6-----	2-Methylnaphthalene	450	U
77-47-4-----	Hexachlorocyclopentadiene	450	U
88-06-2-----	2,4,6-Trichlorophenol	450	U
95-95-4-----	2,4,5-Trichlorophenol	1100	U
91-58-7-----	2-Chloronaphthalene	450	U
88-74-4-----	2-Nitroaniline	1100	U
131-11-3-----	Dimethylphthalate	450	U
208-96-8-----	Acenaphthylene	450	U
606-20-2-----	2,6-Dinitrotoluene	450	U
99-09-2-----	3-Nitroaniline	1100	U
83-32-9-----	Acenaphthene	450	U
51-28-5-----	2,4-Dinitrophenol	1100	U
100-02-7-----	4-Nitrophenol	1100	U

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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

08

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74883

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1060

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 10/06/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/21/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.8

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

CAS NO.

COMPOUND

Q

132-64-9	Dibenzofuran	450	U
121-14-2	2,4-Dinitrotoluene	450	U
84-66-2	Diethylphthalate	450	U
7005-72-3	4-Chlorophenyl-phenylether	450	U
86-73-7	Fluorene	450	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-Nitrosodiphenylamine (1)	450	U
101-55-3	4-Bromophenyl-phenylether	450	U
118-74-1	Hexachlorobenzene	450	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	320	J
120-12-7	Anthracene	50	J
86-74-8	Carbazole	450	U
84-74-2	Di-n-Butylphthalate	60	J
206-44-0	Fluoranthene	490	
129-00-0	Pyrene	520	
85-68-7	Butylbenzylphthalate	50	J
91-94-1	3,3'-Dichlorobenzidine	450	U
56-55-3	Benzo(a)Anthracene	290	J
218-01-9	Chrysene	350	J
117-81-7	bis(2-Ethylhexyl)Phthalate	210	J
117-84-0	Di-n-Octyl Phthalate	450	U
205-99-2	Benzo(b)Fluoranthene	290	J
207-08-9	Benzo(k)Fluoranthene	180	J
50-32-8	Benzo(a)Pyrene	230	J
193-39-5	Indeno(1,2,3-cd)Pyrene	220	J
53-70-3	Dibenz(a,h)Anthracene	130	J
191-24-2	Benzo(g,h,i)Perylene	260	J

(1) - Cannot be separated from Diphenylamine

444

725

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

08

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74883

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1060

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 10/06/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/21/97

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.8

Numi r TICs found: 8

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.	Unknown	25.29	100	JB
2.	Unknown PAH	26.78	270	J
3.	Unknown hydrocarbon	27.41	110	J
4.	Unknown oxygenated hydrocarb	32.42	820	J
5.	Unknown oxygenated hydrocarb	34.45	1300	J
6.	Unknown hydrocarbon	35.72	750	J
7.	Unknown oxygenated hydrocarb	36.16	570	J
8.	Unknown oxygenated hydrocarb	38.40	450	J

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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

09

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74884

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1061

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: 21 decanted: (Y/N) N

Date Extracted: 10/06/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/21/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

108-95-2-----	Phenol	420	U
111-44-4-----	bis(2-Chloroethyl) Ether	420	U
95-57-8-----	2-Chlorophenol	420	U
541-73-1-----	1,3-Dichlorobenzene	420	U
106-46-7-----	1,4-Dichlorobenzene	420	U
95-50-1-----	1,2-Dichlorobenzene	420	U
95-48-7-----	2-Methylphenol	420	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	420	U
106-44-5-----	4-Methylphenol	420	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	420	U
67-72-1-----	Hexachloroethane	420	U
98-95-3-----	Nitrobenzene	420	U
78-59-1-----	Isophorone	420	U
88-75-5-----	2-Nitrophenol	420	U
105-67-9-----	2,4-Dimethylphenol	420	U
111-91-1-----	bis(2-Chloroethoxy)Methane	420	U
120-83-2-----	2,4-Dichlorophenol	420	U
120-82-1-----	1,2,4-Trichlorobenzene	420	U
91-20-3-----	Naphthalene	420	U
106-47-8-----	4-Chloroaniline	420	U
87-68-3-----	Hexachlorobutadiene	420	U
59-50-7-----	4-Chloro-3-Methylphenol	420	U
91-57-6-----	2-Methylnaphthalene	420	U
77-47-4-----	Hexachlorocyclopentadiene	420	U
88-06-2-----	2,4,6-Trichlorophenol	420	U
95-95-4-----	2,4,5-Trichlorophenol	1000	U
91-58-7-----	2-Chloronaphthalene	420	U
88-74-4-----	2-Nitroaniline	1000	U
131-11-3-----	Dimethylphthalate	420	U
208-96-8-----	Acenaphthylene	420	U
606-20-2-----	2,6-Dinitrotoluene	420	U
99-09-2-----	3-Nitroaniline	1000	U
83-32-9-----	Acenaphthene	420	U
51-28-5-----	2,4-Dinitrophenol	1000	U
100-02-7-----	4-Nitrophenol	1000	U

781

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

09

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74884

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1061

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: 21 decanted: (Y/N) N

Date Extracted: 10/06/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/21/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0

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

CAS NO.

COMPOUND

Q

132-64-9-----	Dibenzofuran	420	U
121-14-2-----	2,4-Dinitrotoluene	420	U
84-66-2-----	Diethylphthalate	420	U
7005-72-3-----	4-Chlorophenyl-phenylether	420	U
86-73-7-----	Fluorene	420	U
100-01-6-----	4-Nitroaniline	1000	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1000	U
86-30-6-----	N-Nitrosodiphenylamine (1)	420	U
101-55-3-----	4-Bromophenyl-phenylether	420	U
118-74-1-----	Hexachlorobenzene	420	U
87-86-5-----	Pentachlorophenol	1000	U
85-01-8-----	Phenanthrene	280	J
120-12-7-----	Anthracene	50	J
86-74-8-----	Carbazole	420	U
84-74-2-----	Di-n-Butylphthalate	420	U
206-44-0-----	Fluoranthene	480	
129-00-0-----	Pyrene	560	
85-68-7-----	Butylbenzylphthalate	56	J
91-94-1-----	3,3'-Dichlorobenzidine	420	U
56-55-3-----	Benzo(a) Anthracene	280	J
218-01-9-----	Chrysene	310	J
117-81-7-----	bis(2-Ethylhexyl) Phthalate	390	J
117-84-0-----	Di-n-Octyl Phthalate	420	U
205-99-2-----	Benzo(b) Fluoranthene	400	J
207-08-9-----	Benzo(k) Fluoranthene	420	U
50-32-8-----	Benzo(a) Pyrene	240	J
193-39-5-----	Indeno(1,2,3-cd) Pyrene	220	J
53-70-3-----	Dibenz(a,h) Anthracene	120	J
191-24-2-----	Benzo(g,h,i) Perylene	230	J

(1) - Cannot be separated from Diphenylamine

444

782

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

09

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396 SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74884

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1061

Level: (low/med) LOW

Date Received: 10/02/97

% Moisture: 21 decanted: (Y/N) N

Date Extracted: 10/06/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/21/97

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 8.0

Number TICs found: 17

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	9.50	120	J
2. 544-63-8	Tetradecanoic acid	24.08	130	JN
3.	Unknown	25.28	120	JB
4.	Unknown oxygenated hydrocarb	26.57	110	J
5. 57-10-3	Hexadecanoic acid	26.82	340	JN
6.	Unknown PAH	32.52	490	J
7.	Unknown hydrocarbon	33.02	88	J
8.	Unknown oxygenated hydrocarb	34.45	510	J
9.	Unknown hydrocarbon	35.02	90	J
10.	Unknown hydrocarbon	36.12	1100	JB
11.	Unknown oxygenated hydrocarb	38.38	350	J
12.	Unknown oxygenated hydrocarb	39.75	150	J
13.	Unknown oxygenated hydrocarb	40.65	190	J
14.	Unknown oxygenated hydrocarb	41.33	140	J
15.	Unknown oxygenated PAH	44.38	310	J
16.	Unknown	44.58	260	J
17.	Unknown oxygenated hydrocarb	45.43	470	J

783

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

01

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396

SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74875

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 20 decanted: (Y/N) N

Date Received: 10/02/97

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/03/97

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/04/97

Injection Volume: 2.00 (uL)

Dilution Factor: 2.00

GPC Cleanup: (Y/N) Y

pH: 7.6

Sulfur Cleanup: (Y/N) Y

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

319-84-6-----	alpha-BHC	4.2	U
319-85-7-----	beta-BHC	4.2	U
319-86-8-----	delta-BHC	4.2	U
58-89-9-----	gamma-BHC (Lindane)	4.2	U
76-44-8-----	Heptachlor	4.2	U
309-00-2-----	Aldrin	4.2	U
1024-57-3-----	Heptachlor epoxide	4.2	U
959-98-8-----	Endosulfan I	4.2	U
60-57-1-----	Dieldrin	8.2	U
72-55-9-----	4,4'-DDE	38	P
72-20-8-----	Endrin	13	P
33213-65-9-----	Endosulfan II	8.2	U
72-54-8-----	4,4'-DDD	8.2	U
1031-07-8-----	Endosulfan sulfate	8.2	U
50-29-3-----	4,4'-DDT	8.2	U
72-43-5-----	Methoxychlor	42	U
53494-70-5-----	Endrin ketone	28	P
7421-93-4-----	Endrin aldehyde	8.2	U
5103-71-9-----	alpha-Chlordane	4.2	U
5103-74-2-----	gamma-Chlordane	4.2	U
8001-35-2-----	Toxaphene	420	U
12674-11-2-----	Aroclor-1016	82	U
11104-28-2-----	Aroclor-1221	170	U
11141-16-5-----	Aroclor-1232	82	U
53469-21-9-----	Aroclor-1242	82	U
12672-29-6-----	Aroclor-1248	82	U
11097-69-1-----	Aroclor-1254	82	U
11096-82-5-----	Aroclor-1260	82	U

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FORM I PEST

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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

01DL

Lab Name: E & E INC. Contract:
 Lab Code: EANDE Case No.: 9702.396 SAS No.: SDG No.: 74875
 Matrix: (soil/water) SOIL Lab Sample ID: 74875DL
 Sample wt/vol: 30.0 (g/mL) G Lab File ID:
 % Moisture: 20 decanted: (Y/N) N Date Received: 10/02/97
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/03/97
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/04/97
 Injection Volume: 2.00 (uL) Dilution Factor: 20.0
 GPC Cleanup: (Y/N) Y pH: 7.6 Sulfur Cleanup: (Y/N) Y

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

319-84-6	alpha-BHC	42	U
319-85-7	beta-BHC	42	U
319-86-8	delta-BHC	42	U
58-89-9	gamma-BHC (Lindane)	42	U
76-44-8	Heptachlor	42	U
309-00-2	Aldrin	42	U
1024-57-3	Heptachlor epoxide	130	DP
959-98-8	Endosulfan I	42	U
60-57-1	Dieldrin	82	U
72-55-9	4,4'-DDE	82	U
72-20-8	Endrin	82	U
33213-65-9	Endosulfan II	82	U
72-54-8	4,4'-DDD	82	U
1031-07-8	Endosulfan sulfate	82	U
50-29-3	4,4'-DDT	82	U
72-43-5	Methoxychlor	420	U
53494-70-5	Endrin ketone	82	U
7421-93-4	Endrin aldehyde	82	U
5103-71-9	alpha-Chlordane	42	U
5103-74-2	gamma-Chlordane	42	U
8001-35-2	Toxaphene	4200	U
12674-11-2	Aroclor-1016	820	U
11104-28-2	Aroclor-1221	1700	U
11141-16-5	Aroclor-1232	820	U
53469-21-9	Aroclor-1242	820	U
12672-29-6	Aroclor-1248	820	U
11097-69-1	Aroclor-1254	820	U
11096-82-5	Aroclor-1260	820	U

FORM I PEST

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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

02

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396

SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74876

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 15 decanted: (Y/N) N

Date Received: 10/02/97

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/03/97

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/04/97

Injection Volume: 2.00 (uL)

Dilution Factor: 5.00

GPC Cleanup: (Y/N) Y

pH: 8.1

Sulfur Cleanup: (Y/N) Y

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

319-84-6	alpha-BHC	10	U
319-85-7	beta-BHC	10	U
319-86-8	delta-BHC	10	U
58-89-9	gamma-BHC (Lindane)	10	U
76-44-8	Heptachlor	10	U
309-00-2	Aldrin	10	U
1024-57-3	Heptachlor epoxide	10	U
959-98-8	Endosulfan I	10	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	20	P
72-43-5	Methoxychlor	100	U
53494-70-5	Endrin ketone	38	P
7421-93-4	Endrin aldehyde	19	U
5103-71-9	alpha-Chlordane	10	U
5103-74-2	gamma-Chlordane	10	U
8001-35-2	Toxaphene	1000	U
12674-11-2	Aroclor-1016	190	U
11104-28-2	Aroclor-1221	390	U
11141-16-5	Aroclor-1232	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

FORM I PEST

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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

02DL

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396

SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74876DL

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 15 decanted: (Y/N) N

Date Received: 10/02/97

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/03/97

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/04/97

Injection Volume: 2.00 (uL)

Dilution Factor: 50.0

GPC Cleanup: (Y/N) Y

pH: 8.1

Sulfur Cleanup: (Y/N) Y

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

CAS NO.

COMPOUND

Q

319-84-6-----	alpha-BHC	100	U
319-85-7-----	beta-BHC	100	U
319-86-8-----	delta-BHC	100	U
58-89-9-----	gamma-BHC (Lindane)	100	U
76-44-8-----	Heptachlor	100	U
309-00-2-----	Aldrin	100	U
1024-57-3-----	Heptachlor epoxide	100	U
959-98-8-----	Endosulfan I	100	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	190	U
1031-07-8-----	Endosulfan sulfate	190	U
50-29-3-----	4,4'-DDT	190	U
72-43-5-----	Methoxychlor	1000	U
53494-70-5-----	Endrin ketone	190	U
7421-93-4-----	Endrin aldehyde	190	U
5103-71-9-----	alpha-Chlordane	100	U
5103-74-2-----	gamma-Chlordane	100	U
8001-35-2-----	Toxaphene	10000	U
12674-11-2-----	Aroclor-1016	1900	U
11104-28-2-----	Aroclor-1221	3900	U
11141-16-5-----	Aroclor-1232	1900	U
53469-21-9-----	Aroclor-1242	1900	U
12672-29-6-----	Aroclor-1248	1900	U
11097-69-1-----	Aroclor-1254	1900	U
11096-82-5-----	Aroclor-1260	1900	U

R

FORM I PEST

10/95

956

DEC SAMPLE NO.

Contract:

03

SDG No. : 74875

Lab Sample ID: 74877

Lab File ID:

Date Received: 10/02/97

Date Extracted: 10/03/97

Date Analyzed: 11/04/97

Dilution Factor: 2.00

Sulfur Cleanup: (Y/N) Y

Q

[illegible]

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

03DL

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396

SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74877DL

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 40 decanted: (Y/N) N

Date Received: 10/02/97

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/03/97

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/04/97

Injection Volume: 2.00 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y

pH: 7.2

Sulfur Cleanup: (Y/N) Y

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

319-84-6-----	alpha-BHC	57	
319-85-7-----	beta-BHC	57	
319-86-8-----	delta-BHC	57	
58-89-9-----	gamma-BHC (Lindane)	57	
76-44-8-----	Heptachlor	57	
309-00-2-----	Aldrin	57	
1024-57-3-----	Heptachlor epoxide	57	
959-98-8-----	Endosulfan I	57	
60-57-1-----	Dieldrin	110	
72-55-9-----	4,4'-DDE	110	
72-20-8-----	Endrin	110	
33213-65-9-----	Endosulfan II	110	
72-54-8-----	4,4'-DDD	110	
1031-07-8-----	Endosulfan sulfate	110	
50-29-3-----	4,4'-DDT	110	
72-43-5-----	Methoxychlor	570	
53494-70-5-----	Endrin ketone	150	
7421-93-4-----	Endrin aldehyde	110	
5103-71-9-----	alpha-Chlordane	57	
5103-74-2-----	gamma-Chlordane	57	
8001-35-2-----	Toxaphene	5700	
12674-11-2-----	Aroclor-1016	1100	
11104-28-2-----	Aroclor-1221	2200	
11141-16-5-----	Aroclor-1232	1100	
53469-21-9-----	Aroclor-1242	1100	
12672-29-6-----	Aroclor-1248	1100	
11097-69-1-----	Aroclor-1254	1100	
11096-82-5-----	Aroclor-1260	1100	

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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

04

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396

SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74878

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 26 decanted: (Y/N) N

Date Received: 10/02/97

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/03/97

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/05/97

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y

pH: 7.6

Sulfur Cleanup: (Y/N) Y

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

319-84-6	alpha-BHC	2.3	U
319-85-7	beta-BHC	2.3	U
319-86-8	delta-BHC	2.3	U
58-89-9	gamma-BHC (Lindane)	2.3	U
76-44-8	Heptachlor	2.3	U
309-00-2	Aldrin	4.0	P
1024-57-3	Heptachlor epoxide	2.3	U
959-98-8	Endosulfan I	2.3	U
60-57-1	Dieldrin	4.5	U
72-55-9	4,4'-DDE	5.1	P
72-20-8	Endrin	6.1	
33213-65-9	Endosulfan II	4.5	U
72-54-8	4,4'-DDD	4.5	U
1031-07-8	Endosulfan sulfate	4.5	U
50-29-3	4,4'-DDT	4.5	U
72-43-5	Methoxychlor	23	U
53494-70-5	Endrin ketone	4.5	U
7421-93-4	Endrin aldehyde	4.5	U
5103-71-9	alpha-Chlordane	2.3	U
5103-74-2	gamma-Chlordane	2.3	U
8001-35-2	Toxaphene	230	U
12674-11-2	Aroclor-1016	45	U
11104-28-2	Aroclor-1221	91	U
11141-16-5	Aroclor-1232	45	U
53469-21-9	Aroclor-1242	45	U
12672-29-6	Aroclor-1248	45	U
11097-69-1	Aroclor-1254	45	U
11096-82-5	Aroclor-1260	45	U

FORM I PEST

10/95

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

04DL

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396

SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74878DL

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 26 decanted: (Y/N) N

Date Received: 10/02/97

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/03/97

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/04/97

Injection Volume: 2.00 (uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y

pH: 7.6

Sulfur Cleanup: (Y/N) Y

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

319-84-6-----	alpha-BHC	23	U
319-85-7-----	beta-BHC	23	U
319-86-8-----	delta-BHC	23	U
58-89-9-----	gamma-BHC (Lindane)	23	U
76-44-8-----	Heptachlor	23	U
309-00-2-----	Aldrin	23	U
1024-57-3-----	Heptachlor epoxide	34	D
959-98-8-----	Endosulfan I	23	U
60-57-1-----	Dieldrin	45	U
72-55-9-----	4,4'-DDE	45	U
72-20-8-----	Endrin	45	U
33213-65-9-----	Endosulfan II	45	U
72-54-8-----	4,4'-DDD	45	U
1031-07-8-----	Endosulfan sulfate	45	U
50-29-3-----	4,4'-DDT	45	U
72-43-5-----	Methoxychlor	230	U
53494-70-5-----	Endrin ketone	45	U
7421-93-4-----	Endrin aldehyde	45	U
5103-71-9-----	alpha-Chlordane	23	U
5103-74-2-----	gamma-Chlordane	23	U
8001-35-2-----	Toxaphene	2300	U
12674-11-2-----	Aroclor-1016	450	U
11104-28-2-----	Aroclor-1221	910	U
11141-16-5-----	Aroclor-1232	450	U
53469-21-9-----	Aroclor-1242	450	U
12672-29-6-----	Aroclor-1248	450	U
11097-69-1-----	Aroclor-1254	450	U
11096-82-5-----	Aroclor-1260	450	U

FORM I PEST

-10/95 938

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

05

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396

SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74879

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 18 decanted: (Y/N) N

Date Received: 10/02/97

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/03/97

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/05/97

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y

pH: 7.6

Sulfur Cleanup: (Y/N) Y

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

319-84-6-----	alpha-BHC	2.1	U
319-85-7-----	beta-BHC	2.1	U
319-86-8-----	delta-BHC	2.1	U
58-89-9-----	gamma-BHC (Lindane)	2.1	U
76-44-8-----	Heptachlor	2.1	U
309-00-2-----	Aldrin	9.6	P
1024-57-3-----	Heptachlor epoxide	2.1	U
959-98-8-----	Endosulfan I	2.1	U
60-57-1-----	Dieldrin	4.3	P
72-55-9-----	4,4'-DDE	24	
72-20-8-----	Endrin	4.4	P
33213-65-9-----	Endosulfan II	4.0	U
72-54-8-----	4,4'-DDD	4.8	P
1031-07-8-----	Endosulfan sulfate	4.0	U
50-29-3-----	4,4'-DDT	4.0	U
72-43-5-----	Methoxychlor	21	P
53494-70-5-----	Endrin ketone	16	P
7421-93-4-----	Endrin aldehyde	4.0	U
5103-71-9-----	alpha-Chlordane	2.1	U
5103-74-2-----	gamma-Chlordane	2.1	U
8001-35-2-----	Toxaphene	210	U
12674-11-2-----	Aroclor-1016	40	U
11104-28-2-----	Aroclor-1221	82	U
11141-16-5-----	Aroclor-1232	40	U
53469-21-9-----	Aroclor-1242	40	U
12672-29-6-----	Aroclor-1248	40	U
11097-69-1-----	Aroclor-1254	40	U
11096-82-5-----	Aroclor-1260	40	U

44444

FORM I PEST

10/95

995

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

05DL

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396

SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74879DL

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 18 decanted: (Y/N) N

Date Received: 10/02/97

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/03/97

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/04/97

Injection Volume: 2.00 (uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y

pH: 7.6

Sulfur Cleanup: (Y/N) Y

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

319-84-6-----	alpha-BHC	21	U
319-85-7-----	beta-BHC	21	U
319-86-8-----	delta-BHC	21	U
58-89-9-----	gamma-BHC (Lindane)	21	U
76-44-8-----	Heptachlor	21	U
309-00-2-----	Aldrin	21	U
1024-57-3-----	Heptachlor epoxide	21	U
959-98-8-----	Endosulfan I	21	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	40	U
1031-07-8-----	Endosulfan sulfate	40	U
50-29-3-----	4,4'-DDT	40	U
72-43-5-----	Methoxychlor	210	U
53494-70-5-----	Endrin ketone	40	U
7421-93-4-----	Endrin aldehyde	40	U
5103-71-9-----	alpha-Chlordane	21	U
5103-74-2-----	gamma-Chlordane	21	U
8001-35-2-----	Toxaphene	2100	U
12674-11-2-----	Aroclor-1016	400	U
11104-28-2-----	Aroclor-1221	820	U
11141-16-5-----	Aroclor-1232	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

FORM I PEST

10/95

1004

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

06

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396

SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74880

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 24 decanted: (Y/N) N

Date Received: 10/02/97

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/06/97

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 10/25/97

Injection Volume: 2.00 (uL)

Dilution Factor: 5.00

GPC Cleanup: (Y/N) Y

pH: 7.9

Sulfur Cleanup: (Y/N) Y

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

319-84-6-----	alpha-BHC	11	U
319-85-7-----	beta-BHC	11	U
319-86-8-----	delta-BHC	11	U
58-89-9-----	gamma-BHC (Lindane)	11	U
76-44-8-----	Heptachlor	11	U
309-00-2-----	Aldrin	11	U
1024-57-3-----	Heptachlor epoxide	24	P
959-98-8-----	Endosulfan I	11	U
60-57-1-----	Dieldrin	22	U
72-55-9-----	4,4'-DDE	22	U
72-20-8-----	Endrin	22	U
33213-65-9-----	Endosulfan II	22	U
72-54-8-----	4,4'-DDD	22	U
1031-07-8-----	Endosulfan sulfate	22	U
50-29-3-----	4,4'-DDT	22	U
72-43-5-----	Methoxychlor	110	U
53494-70-5-----	Endrin ketone	22	U
7421-93-4-----	Endrin aldehyde	22	U
5103-71-9-----	alpha-Chlordane	11	U
5103-74-2-----	gamma-Chlordane	11	U
8001-35-2-----	Toxaphene	1100	U
12674-11-2-----	Aroclor-1016	220	U
11104-28-2-----	Aroclor-1221	440	U
11141-16-5-----	Aroclor-1232	220	U
53469-21-9-----	Aroclor-1242	220	U
12672-29-6-----	Aroclor-1248	220	U
11097-69-1-----	Aroclor-1254	220	U
11096-82-5-----	Aroclor-1260	220	U

FORM I PEST

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1011

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

06D

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396

SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74881

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 24 decanted: (Y/N) N

Date Received: 10/02/97

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/06/97

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 10/25/97

Injection Volume: 2.00 (uL)

Dilution Factor: 5.00

GPC Cleanup: (Y/N) Y

pH: 7.9

Sulfur Cleanup: (Y/N) Y

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	11	U
319-85-7	beta-BHC	11	U
319-86-8	delta-BHC	11	U
58-89-9	gamma-BHC (Lindane)	11	U
76-44-8	Heptachlor	11	U
309-00-2	Aldrin	11	U
1024-57-3	Heptachlor epoxide	13	P
959-98-8	Endosulfan I	11	U
60-57-1	Dieldrin	22	U
72-55-9	4,4'-DDE	22	U
72-20-8	Endrin	22	U
33213-65-9	Endosulfan II	22	U
72-54-8	4,4'-DDD	22	U
1031-07-8	Endosulfan sulfate	22	U
50-29-3	4,4'-DDT	22	U
72-43-5	Methoxychlor	110	U
53494-70-5	Endrin ketone	22	U
7421-93-4	Endrin aldehyde	22	U
5103-71-9	alpha-Chlordane	11	U
5103-74-2	gamma-Chlordane	11	U
8001-35-2	Toxaphene	1100	U
12674-11-2	Aroclor-1016	220	U
11104-28-2	Aroclor-1221	440	U
11141-16-5	Aroclor-1232	220	U
53469-21-9	Aroclor-1242	220	U
12672-29-6	Aroclor-1248	220	U
11097-69-1	Aroclor-1254	220	U
11096-82-5	Aroclor-1260	220	U

FORM I PEST

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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

07

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396

SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74882

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 23 decanted: (Y/N) N

Date Received: 10/02/97

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/06/97

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 10/25/97

Injection Volume: 2.00 (uL)

Dilution Factor: 5.00

GPC Cleanup: (Y/N) Y

pH: 7.8

Sulfur Cleanup: (Y/N) Y

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

319-84-6-----	alpha-BHC	11	U
319-85-7-----	beta-BHC	11	U
319-86-8-----	delta-BHC	11	U
58-89-9-----	gamma-BHC (Lindane)	11	U
76-44-8-----	Heptachlor	11	U
309-00-2-----	Aldrin	11	U
1024-57-3-----	Heptachlor epoxide	16	
959-98-8-----	Endosulfan I	11	U
60-57-1-----	Dieldrin	21	U
72-55-9-----	4,4'-DDE	21	U
72-20-8-----	Endrin	21	U
33213-65-9-----	Endosulfan II	21	U
72-54-8-----	4,4'-DDD	21	U
1031-07-8-----	Endosulfan sulfate	21	U
50-29-3-----	4,4'-DDT	21	U
72-43-5-----	Methoxychlor	110	U
53494-70-5-----	Endrin ketone	21	U
7421-93-4-----	Endrin aldehyde	21	U
5103-71-9-----	alpha-Chlordane	11	U
5103-74-2-----	gamma-Chlordane	11	U
8001-35-2-----	Toxaphene	1100	U
12674-11-2-----	Aroclor-1016	210	U
11104-28-2-----	Aroclor-1221	440	U
11141-16-5-----	Aroclor-1232	210	U
53469-21-9-----	Aroclor-1242	210	U
12672-29-6-----	Aroclor-1248	210	U
11097-69-1-----	Aroclor-1254	210	U
11096-82-5-----	Aroclor-1260	210	U

FORM I PEST

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1024

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

08

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396

SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74883

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 27 decanted: (Y/N) N

Date Received: 10/02/97

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/06/97

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 10/25/97

Injection Volume: 2.00 (uL)

Dilution Factor: 5.00

GPC Cleanup: (Y/N) Y

pH: 7.8

Sulfur Cleanup: (Y/N) Y

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

319-84-6-----	alpha-BHC	12	U
319-85-7-----	beta-BHC	12	U
319-86-8-----	delta-BHC	12	U
58-89-9-----	gamma-BHC (Lindane)	12	U
76-44-8-----	Heptachlor	12	U
309-00-2-----	Aldrin	12	U
1024-57-3-----	Heptachlor epoxide	12	U
959-98-8-----	Endosulfan I	12	U
60-57-1-----	Dieldrin	23	U
72-55-9-----	4,4'-DDE	23	U
72-20-8-----	Endrin	23	U
33213-65-9-----	Endosulfan II	23	U
72-54-8-----	4,4'-DDD	23	U
1031-07-8-----	Endosulfan sulfate	23	U
50-29-3-----	4,4'-DDT	23	U
72-43-5-----	Methoxychlor	120	U
53494-70-5-----	Endrin ketone	23	U
7421-93-4-----	Endrin aldehyde	23	U
5103-71-9-----	alpha-Chlordane	12	U
5103-74-2-----	gamma-Chlordane	12	U
8001-35-2-----	Toxaphene	1200	U
12674-11-2-----	Aroclor-1016	230	U
11104-28-2-----	Aroclor-1221	460	U
11141-16-5-----	Aroclor-1232	230	U
53469-21-9-----	Aroclor-1242	230	U
12672-29-6-----	Aroclor-1248	230	U
11097-69-1-----	Aroclor-1254	230	U
11096-82-5-----	Aroclor-1260	230	U

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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

09

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.396

SAS No.:

SDG No.: 74875

Matrix: (soil/water) SOIL

Lab Sample ID: 74884

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 21 decanted: (Y/N) N

Date Received: 10/02/97

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/06/97

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 10/25/97

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y

pH: 8.0

Sulfur Cleanup: (Y/N) Y

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

319-84-6-----	alpha-BHC	2.2	U
319-85-7-----	beta-BHC	2.2	U
319-86-8-----	delta-BHC	2.2	U
58-89-9-----	gamma-BHC (Lindane)	2.2	U
76-44-8-----	Heptachlor	2.2	U
309-00-2-----	Aldrin	2.2	U
1024-57-3-----	Heptachlor epoxide	2.2	U
959-98-8-----	Endosulfan I	2.2	U
60-57-1-----	Dieldrin	4.2	U
72-55-9-----	4,4'-DDE	4.2	U
72-20-8-----	Endrin	4.2	U
33213-65-9-----	Endosulfan II	4.2	U
72-54-8-----	4,4'-DDD	4.2	U
1031-07-8-----	Endosulfan sulfate	4.2	U
50-29-3-----	4,4'-DDT	4.2	U
72-43-5-----	Methoxychlor	22	U
53494-70-5-----	Endrin ketone	4.2	U
7421-93-4-----	Endrin aldehyde	4.2	U
5103-71-9-----	alpha-Chlordane	2.2	U
5103-74-2-----	gamma-Chlordane	2.2	U
8001-35-2-----	Toxaphene	220	U
12674-11-2-----	Aroclor-1016	42	U
11104-28-2-----	Aroclor-1221	85	U
11141-16-5-----	Aroclor-1232	42	U
53469-21-9-----	Aroclor-1242	42	U
12672-29-6-----	Aroclor-1248	42	U
11097-69-1-----	Aroclor-1254	42	U
11096-82-5-----	Aroclor-1260	42	U

FORM I PEST

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1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

01S01

Lab Name: ECOLOGY AND ENVIRONMENT Contract: _____
 Lab Code: EANDE Case No.: 9702.396 SAS No.: _____ SDG No.: 74875
 Matrix (soil/water): SOIL Lab Sample ID: 74875
 Level (low/med): LOW Date Received: 10/02/97
 % Solids: 80.4

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6820	-		P
7440-36-0	Antimony	5.8	B		P
7440-38-2	Arsenic	10.3	-		P
7440-39-3	Barium	100	-		P
7440-41-7	Beryllium	0.52	B		P
7440-43-9	Cadmium	0.63	B	E	P
7440-70-2	Calcium	92500	-		P
7440-47-3	Chromium	14.1	-		P
7440-48-4	Cobalt	5.1	B		P
7440-50-8	Copper	46.6	-		P
7439-89-6	Iron	13300	-		P
7439-92-1	Lead	469	-		P
7439-95-4	Magnesium	18600	-		P
7439-96-5	Manganese	314	-		P
7439-97-6	Mercury	0.29	-		CV
7440-02-0	Nickel	14.4	-		P
7440-09-7	Potassium	1580	-		P
7782-49-2	Selenium	1.2	U		P
7440-22-4	Silver	0.54	U		P
7440-23-5	Sodium	207	U		P
7440-28-0	Thallium	0.91	U		P
7440-62-2	Vanadium	19.2	-		P
7440-66-6	Zinc	270	-		P
57-12-5	Cyanide	0.62	U		CA

Color Before: _____ Clarity Before: _____ Texture: M
 Color After: Y _____ Clarity After: C _____ Artifacts: YES _____

Comments:

CLIENT_SAMPLE_ID : SSEF-01-SO100297

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

02S01

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____
Lab Code: EANDE Case No.: 9702.396 SAS No.: _____ SDG No.: 74875
Matrix (soil/water): SOIL Lab Sample ID: 74876
Level (low/med): LOW Date Received: 10/02/97
% Solids: 85.0

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

[illegible]

Color Before: _____
Color After: Y _____

Clarity Before: _____
Clarity After: C

Texture: M
Artifacts: YES

Comments:

CLIENT SAMPLE ID : SSEF-02-SO100297

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1
INORGANIC ANALYSES DATA SHEET

03SO1

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

[illegible]

Comments :

CLIENT SAMPLE ID : SSEF-03-SO100297

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1

INORGANIC ANALYSES DATA SHEET

04SO1

Lab Name: ECOLOGY_AND_ENVIRONMENT	Contract: _____	SDG No.: 74875
Lab Code: EANDE	Case No.: 9702.396 SAS No.: _____	SDG No.: 74875
Matrix (soil/water): SOIL		Lab Sample ID: 74878
Level (low/med): LOW		Date Received: 10/02/97
% Solids: 73.7		

[illegible]

Color Before: _____ Clarity Before: _____ Texture: H _____
Color After: Y _____ Clarity After: C _____ Artifacts: YES _____

CLIENT SAMPLE ID : SSEF-04-SO100297

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1578

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

05S01

Lab Name: ECOLOGY AND ENVIRONMENT Contract: _____
 Lab Code: EAND Case No.: 9702.396 SAS No.: _____ SDG No.: 74875
 Matrix (soil/water): SOIL Lab Sample ID: 74879
 Level (low/med): LOW Date Received: 10/02/97
 % Solids: 81.6

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11500	-		P
7440-36-0	Antimony	11.0	B		P
7440-38-2	Arsenic	9.7	-		P
7440-39-3	Barium	144	-		P
7440-41-7	Beryllium	0.62	B		P
7440-43-9	Cadmium	11.5		E	P
7440-70-2	Calcium	48700	-		P
7440-47-3	Chromium	29.6	-		P
7440-48-4	Cobalt	9.3	B		P
7440-50-8	Copper	94.2	-		P
7439-89-6	Iron	23100	-		P
7439-92-1	Lead	469	-		P
7439-95-4	Magnesium	20600	-		P
7439-96-5	Manganese	487	-		P
7439-97-6	Mercury	0.45	-		CV
7440-02-0	Nickel	29.0	-		P
7440-09-7	Potassium	2790	-		P
7782-49-2	Selenium	2.9	-		P
7440-22-4	Silver	0.53	U		P
7440-23-5	Sodium	202	U		P
7440-28-0	Thallium	0.89	U		P
7440-62-2	Vanadium	31.4	-		P
7440-66-6	Zinc	383	-		P
57-12-5	Cyanide	0.61	U		CA

Color Before: _____
 Color After: Y _____

Clarity Before: _____
 Clarity After: C _____

Texture: M _____
 Artifacts: YES _____

Comments:

CLIENT_SAMPLE_ID : SSEF-05-SO100297

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

06SO1

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____
 Lab Code: EANDE Case No.: 9702.396 SAS No.: _____ SDG No.: 74875
 Matrix (soil/water): SOIL Lab Sample ID: 74880
 Level (low/med): LOW Date Received: 10/02/97
 % Solids: 75.9

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6620	—	—	P
7440-36-0	Antimony	3.9	B	—	P
7440-38-2	Arsenic	5.5	—	—	P
7440-39-3	Barium	56.2	—	—	P
7440-41-7	Beryllium	0.38	B	—	P
7440-43-9	Cadmium	0.46	B	E	P
7440-70-2	Calcium	124000	—	—	P
7440-47-3	Chromium	13.1	—	—	P
7440-48-4	Cobalt	5.5	B	—	P
7440-50-8	Copper	26.6	—	—	P
7439-89-6	Iron	13000	—	—	P
7439-92-1	Lead	159	—	—	P
7439-95-4	Magnesium	46800	—	—	P
7439-96-5	Manganese	344	—	—	P
7439-97-6	Mercury	0.25	—	—	CV
7440-02-0	Nickel	14.2	—	—	P
7440-09-7	Potassium	1700	—	—	P
7782-49-2	Selenium	1.2	—	—	P
7440-22-4	Silver	0.57	—	—	P
7440-23-5	Sodium	217	—	—	P
7440-28-0	Thallium	0.96	—	—	P
7440-62-2	Vanadium	17.5	—	—	P
7440-66-6	Zinc	172	—	—	P
57-12-5	Cyanide	0.66	U	—	CA

Color Before: _____ Clarity Before: _____ Texture: M
 Color After: Y _____ Clarity After: C _____ Artifacts: _____

Comments:

CLIENT_SAMPLE_ID : SSEF-06-SO100297

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INORGANIC ANALYSES DATA SHEET

06SD1

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____
 Lab Code: EANDE Case No.: 9702.396 SAS No.: _____ SDG No.: 74875
 Matrix (soil/water): SOIL Lab Sample ID: 74881
 Level (low/med): LOW Date Received: 10/02/97
 % Solids: 75.5

[illegible]

Color Before: _____ Clarity Before: _____ Texture: M _____
Color After: Y Clarity After: C Artifacts: YES _____

CLIENT SAMPLE ID : SSEF-06-SD100297

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INORGANIC ANALYSES DATA SHEET

07SO1

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

[illegible]

Comments:

CLIENT SAMPLE ID : SSEF-07-SO100297

FORM I - IN

10/94 1582

1
INORGANIC ANALYSES DATA SHEET

09S01

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____
Lab Code: EANDE Case No.: 9702.396 SAS No.: _____ SDG No.: 74875
Matrix (soil/water): SOIL Lab Sample ID: 74884
Level (low/med): LOW Date Received: 10/02/97
% Solids: 78.6

[illegible]

Color Before: _____ Clarity Before: _____ Texture: CY _____
Color After: Y Clarity After: C Artifacts: _____

CLIENT SAMPLE ID : SSEF-09-SO100297

**Ecology and Environment, Inc., (E & E)
Data Usability Summary Report (DUSR)**

Prepared by: Lynn HESS Page 1 of 10
 E & E Project #: BY 6000 Date: 11/05/97
 Project or Site Name: Buffalo 3 - Bronnyfield East Ferry
 Laboratory Name: E&E ASC
 Laboratory Report #: 9702425 Report Date: 10/20/97
 Date Sample(s) Taken: 10/16/97 Sample Matrix: 6 surface 1 water
 Client Sample ID: SSEF-15-SO100697, 16, 17, 18, 19, 20, SSEF-21-WT1006
 Analytical Parameters: VOC (95-1), BNA (95-2), P/PCB (95-3), metals & Cu (CLP-m)

The DUSR was prepared by reviewing and evaluating the analytical data per the guidelines from the Division of Hazardous Waste Remediation, Revision 11/95. The following checklist has been designed to ensure a thorough and complete review of the analytical results based on the requirements in these guidelines. The analytical results are considered valid and usable for the purposes of this project, with any exceptions addressed in the Data Deficiencies Comments section below.

Data Verification Parameters

- 1) Were statements made in the Analytical Data Case Narrative supported by the analytical data?
- 2) Were all chain of custody records present?
- 3) Were are chain of custody records completed?
- 4) Were the analysis run as per the method in the work plan?
- 5) Were the required holding times met for all matrices and analytical parameters?
- 6) Were samples correctly preserved?
- 7) Was Sample preservation documented?
- 8) Were performance checks within acceptance criteria?
- 9) Were the initial and continuing calibrations performed at the required frequency?

CIRCLE ONE

☒ Yes ☐ No ☐ NA
☒ Yes ☐ No ☐ NA
☒ Yes ☐ No ☐ NA
☒ Yes ☐ No ☐ NA
☒ Yes ☐ No ☐ NA
☒ Yes ☐ No ☐ NA
☒ Yes ☐ No ☐ NA
☒ Yes ☐ No ☐ NA
☒ Yes ☐ No ☐ NA

Ecology and Environment, Inc., (E & E)
Data Usability Summary Report (DUSR)

Laboratory Report #: 9702.425

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Data Verification Parameters

CIRCLE ONE

10) Were the initial and continuing calibrations within the acceptance criteria?	☒ Yes ☐ No ☐ NA
11) No qualification of data was required based on calibration criteria not being met?	☒ Yes ☐ No ☐ NA
12) Were method blanks free of contaminants?	Yes ☒ No ☐ NA
13) Were field blanks free of contaminants?	☒ Yes ☐ No ☐ NA
14) Were system monitoring compounds within the acceptance limits?	Yes ☒ No ☐ NA
15) Were matrix spike/matrix spike duplicates or matrix duplicate (MS/ MSD or D) analyzed at the correct frequency?	☒ Yes ☐ No ☐ NA
16) Did the MS/MSD or MS/D meet the percent recovery (%R) and relative percent difference (RPD) acceptance criteria?	Yes ☒ No ☐ NA
17) Was the laboratory control sample (LCS) and when necessary, the LCS duplicate (LCSD), performed at the required frequency?	☒ Yes ☐ No ☐ NA
18) Did the LCS/LCSD's meet the %R and RPD acceptance criteria?	Yes ☒ No ☐ NA
19) Did internal standards meet the acceptance criteria?	Yes ☒ No ☐ NA
20) Did the results for any field duplicate samples meet expected precision requirements?	Yes ☐ No ☒ NA
21) Were dilutions made appropriately?	☒ Yes ☐ No ☐ NA
22) No discrepancies were noted when the review of raw data (instrument printouts and chromatograms) was performed?	☒ Yes ☐ No ☐ NA
23) No quality control problems were noted in the review of the Field Sampling Notes?	Yes ☐ No ☒ NA
24) No effect on data usability was required based on quality control problems in the field?	☒ Yes ☐ No ☐ NA

702.425

VOC

#19) smpl 18msd had slightly low 1,4-difluorobenzene and chlorobenzene-d5 internal standard response, no qualification is necessary as the original sample analysis had acceptable responses for these IS's.

#12) VBLKSI 6^T µg/kg acetone "B" 15, 16, 18

VBLKS3 4^T µg/kg acetone "B" 19

BNA

#10) E0930 10/14/97 10:49 phenol ↑ %D -32.5 (25) } no qualification
2-chlorophenol ↑ %D 26.7 (25.0) } necessary
for compds was high and it was not detected in any samples

#16) 2,4-dinitrotoluene %R 102[↑]/117[↑] (28-89) RPD 14 (47)
18ms/msd pyrene 147[↑]/1169[↑] (35-142) RPD 14 (36)
pentachlorophenol 37/20 (17-109) RPD 60[↑] (47)
+ "J" in parent smpl 18

#18) SMSBS1 1,2,4-trichlorobenzene 114[↑] (39-98) } + J
2,4-dinitrotoluene 122[↑] (24-96) }
pyrene 170[↑] (26-127) }

#19) IS out in 16, 16RE, 19, 19RE (see attachment) the original analyses are preferred for use.
+J, -4J for compd quantitated using chrysene-d12 in 16
+J, -4J for compd quantitated using chrysene-d12 & perylene-d12 in
19

#19

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

4 of 10

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.425 SAS No.:

SDG No.: 75129

Lab File ID (Standard): E0930

Date Analyzed: 10/14/97

Instrument ID: 7002E

Time Analyzed: 1049

		IS4 (PHN)		IS5 (CRY)		IS6 (PRY)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
=====		=====	=====	=====	=====	=====	=====
12 HOUR STD		480486	25.24	306952	33.67	162672	38.27
UPPER LIMIT		960972	25.74	613904	34.17	325344	38.77
LOWER LIMIT		240243	24.74	153476	33.17	81336	37.77
=====		=====	=====	=====	=====	=====	=====
DEC SAMPLE							
NO.							
=====		=====	=====	=====	=====	=====	=====
01 15		402378	25.24	208511	33.70	122335	38.32
02 16		387246	25.24	132463 *	33.74	87655	38.41
03 17		396459	25.23	178576	33.70	108159	38.34
04 18		430672	25.23	251252	33.70	160150	38.33
05 19		393193	25.31	136389 *	33.75	76414 *	38.35
06 20		410357	25.24	168213	33.71	100061	38.37

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = + 100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = +0.50 minutes of internal standard RT.

RT LOWER LIMIT = -0.50 minutes of internal standard RT.

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

* Values outside of QC limits.

256

#19

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

5 of 10

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.425 SAS No.:

SDG No.: 75129

Lab File ID (Standard): E0952

Date Analyzed: 10/15/97

Instrument ID: 7002E

Time Analyzed: 1453

	IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	41465	10.78	140462	14.75	78783	20.39
UPPER LIMIT	82930	11.28	280924	15.25	157566	20.89
LOWER LIMIT	20732	10.28	70231	14.25	39392	19.89
=====	=====	=====	=====	=====	=====	=====
DEC SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 16RE	88163 *	10.81	311144 *	14.75	178344 *	20.40
02 19RE	91208 *	10.80	332988 *	14.75	188653 *	20.44
03 SMSBS1	67972	10.79	214351	14.74	126491	20.38
04 18MS	67141	10.81	224514	14.74	138297	20.40
05 18MSD	64259	10.81	209186	14.75	127776	20.39
06 SBLKS1	62386	10.79	190825	14.74	109489	20.39

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

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = + 100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = +0.50 minutes of internal standard RT.

RT LOWER LIMIT = -0.50 minutes of internal standard RT.

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

* Values outside of QC limits.

255

#19

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

6 of 10

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.425 SAS No.:

SDG No.: 75129

Lab File ID (Standard): E0952

Date Analyzed: 10/15/97

Instrument ID: 7002E

Time Analyzed: 1453

	IS4 (PHN)		IS5 (CRY)		IS6 (PRY)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	133958	25.08	119889	33.51	100118	38.08
UPPER LIMIT	267916	25.58	239778	34.01	200236	38.58
LOWER LIMIT	66979	24.58	59944	33.01	50059	37.58
=====	=====	=====	=====	=====	=====	=====
DEC SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 16RE	276670 *	25.09	139010	33.57	97028	38.19
02 19RE	271304 *	25.14	150224	33.57	127190	38.14
03 SMSBS1	205205	25.06	120195	33.49	105563	38.07
04 18MS	233773	25.08	132291	33.53	121358	38.11
05 18MSD	228092	25.09	125260	33.53	99909	38.11
06 SBLKS1	175048	25.07	98967	33.50	88948	38.06

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = + 100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = +0.50 minutes of internal standard RT.

RT LOWER LIMIT = -0.50 minutes of internal standard RT.

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

* Values outside of QC limits.

25~

9700.425

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P/PCB

#14) see attachment for surrogates outside QC limits
19 & 19DL were run at dilution therefore
%R is 0. No qualification based on
surrogate %R's is considered necessary.

#16) MS/MSD on 18 had 5 of 6 MS %R's high & one of 6
MSD %R's high, all RPD's OK (see attachment).
LCS all OK, no qualification considered
necessary.

* use 19 for all ND's and 19DL for PCB 1260

2F
SOIL PESTICIDE SURROGATE RECOVERY

8 of 10

#14)

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.425

SAS No.:

SDG No.: 75129

GC Column(1): RTX-5

ID: 0.53 (mm)

GC Column(2): RTX-35

ID: 0.53 (mm)

	DEC SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLKS1	87	88	102	111			0
02	15	22*	11*	89	120			2
03	16	121	123	114	121			0
04	17	100	100	130	86			0
05	18	480*	60	119	115			1
06	19	0D	0D	0D	0D			0
07	19DL	0D	0D	0D	0D			0
08	20	34	25*	109	134			1
09	MSBS1	85	86	103	100			0
10	18MS	139	137	158*	105			1
11	18MSD	96	77	138	148			0

QC LIMITS

TCX = Tetrachloro-m-xylene (30-150)

DCB = Decachlorobiphenyl (30-150)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

#16

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

9 of 10

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.425

SAS No.:

SDG No.: 75129

Matrix Spike - DEC Sample No.: 18

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	21.600	0	29.4	136 *	46-127
Heptachlor	21.600	0	31.9	148 *	35-130
Aldrin	21.600	0	31.4	145 *	34-132
Dieldrin	43.200	0	52.2	121	31-134
Endrin	43.200	0	65.6	152 *	42-139
4,4'-DDT	43.200	0	68.8	159 *	23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS	
gamma-BHC (Lindane)	21.600	23.5	109	22	50	46-127
Heptachlor	21.600	25.1	116	24	31	35-130
Aldrin	21.600	26.0	120	19	43	34-132
Dieldrin	43.200	43.8	101	18	38	31-134
Endrin	43.200	56.0	130	16	45	42-139
4,4'-DDT	43.200	59.8	138 *	14	50	23-134

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

* Values outside of QC limits

RPD: 0 out of 6 outside limits

Spike Recovery: 6 out of 12 outside limits

COMMENTS:

9702.425

metals

#8) Serial dilution on 18 had $\uparrow$ %D for Cr, Co, Fe, Ni and K & flagged "E". E's should be +J as estimated concentration.

#12) PB Al 6.872 mg/kg all <CDL, >IDL, no qual necessary

As -1.219

Cd -0.327

Ca 2.94

Co -0.524

Mn -0.628

K 55.488

Na 56.517

Tl -0.872

Zn 0.815

#16) MS ¹⁸⁵Sb, Ba, Cd, Cr, Co, Cu, Ni, Ag, Tl, V, Zn, N flag
all post spikes acceptable +J, -U

if <IDL "R" Sb, Ag, Zn

Dup ¹⁸⁵D Al, As, Se, Zn * flag, +J all except Se

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

15

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.425 SAS No.:

SDG No.: 75129

Matrix: (soil/water) SOIL

Lab Sample ID: 75129

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: D6987

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: not dec. 19

Date Analyzed: 10/10/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3-----	Chloromethane	12	U
74-83-9-----	Bromomethane	12	U
75-01-4-----	Vinyl Chloride	12	U
75-00-3-----	Chloroethane	12	U
75-09-2-----	Methylene Chloride	12	U
67-64-1-----	Acetone	8	BJ
75-15-0-----	Carbon Disulfide	12	U
75-35-4-----	1,1-Dichloroethene	12	U
75-34-3-----	1,1-Dichloroethane	12	U
540-59-0-----	1,2-Dichloroethene (total)	12	U
67-66-3-----	Chloroform	12	U
107-06-2-----	1,2-Dichloroethane	12	U
78-93-3-----	2-Butanone	12	U
71-55-6-----	1,1,1-Trichloroethane	12	U
56-23-5-----	Carbon Tetrachloride	12	U
75-27-4-----	Bromodichloromethane	12	U
78-87-5-----	1,2-Dichloropropane	12	U
10061-01-5-----	cis-1,3-Dichloropropene	12	U
79-01-6-----	Trichloroethene	12	U
124-48-1-----	Dibromochloromethane	12	U
79-00-5-----	1,1,2-Trichloroethane	12	U
71-43-2-----	Benzene	12	U
10061-02-6-----	trans-1,3-Dichloropropene	12	U
75-25-2-----	Bromoform	12	U
108-10-1-----	4-Methyl-2-Pentanone	12	U
591-78-6-----	2-Hexanone	12	U
127-18-4-----	Tetrachloroethene	12	U
79-34-5-----	1,1,2,2-Tetrachloroethane	12	U
108-88-3-----	Toluene	12	U
108-90-7-----	Chlorobenzene	12	U
100-41-4-----	Ethylbenzene	12	U
100-42-5-----	Styrene	12	U
1330-20-7-----	Xylene (total)	12	U

D B

45

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

16

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.425 SAS No.:

SDG No.: 75129

Matrix: (soil/water) SOIL

Lab Sample ID: 75130

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: D6988

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: not dec. 14

Date Analyzed: 10/10/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3	-----Chloromethane	12	U
74-83-9	-----Bromomethane	12	U
75-01-4	-----Vinyl Chloride	12	U
75-00-3	-----Chloroethane	12	U
75-09-2	-----Methylene Chloride	12	U
67-64-1	-----Acetone	10	BJ
75-15-0	-----Carbon Disulfide	12	U
75-35-4	-----1,1-Dichloroethene	12	U
75-34-3	-----1,1-Dichloroethane	12	U
540-59-0	-----1,2-Dichloroethene (total)	12	U
67-66-3	-----Chloroform	12	U
107-06-2	-----1,2-Dichloroethane	12	U
78-93-3	-----2-Butanone	12	U
71-55-6	-----1,1,1-Trichloroethane	12	U
56-23-5	-----Carbon Tetrachloride	12	U
75-27-4	-----Bromodichloromethane	12	U
78-87-5	-----1,2-Dichloropropane	12	U
10061-01-5	-----cis-1,3-Dichloropropene	12	U
79-01-6	-----Trichloroethene	12	U
124-48-1	-----Dibromochloromethane	12	U
79-00-5	-----1,1,2-Trichloroethane	12	U
71-43-2	-----Benzene	12	U
10061-02-6	-----trans-1,3-Dichloropropene	12	U
75-25-2	-----Bromoform	12	U
108-10-1	-----4-Methyl-2-Pentanone	12	U
591-78-6	-----2-Hexanone	12	U
127-18-4	-----Tetrachloroethene	12	U
79-34-5	-----1,1,2,2-Tetrachloroethane	12	U
108-88-3	-----Toluene	12	U
108-90-7	-----Chlorobenzene	12	U
100-41-4	-----Ethylbenzene	12	U
100-42-5	-----Styrene	12	U
1330-20-7	-----Xylene (total)	12	U

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

17

ab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.425 SAS No.:

SDG No.: 75129

Matrix: (soil/water) SOIL

Lab Sample ID: 75131

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: D7008

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: not dec. 23

Date Analyzed: 10/11/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3-----	Chloromethane	13	U
74-83-9-----	Bromomethane	13	U
75-01-4-----	Vinyl Chloride	13	U
75-00-3-----	Chloroethane	13	U
75-09-2-----	Methylene Chloride	13	U
67-64-1-----	Acetone	13	U
75-15-0-----	Carbon Disulfide	13	U
75-35-4-----	1,1-Dichloroethene	13	U
75-34-3-----	1,1-Dichloroethane	13	U
540-59-0-----	1,2-Dichloroethene (total)	13	U
67-66-3-----	Chloroform	13	U
107-06-2-----	1,2-Dichloroethane	13	U
78-93-3-----	2-Butanone	13	U
71-55-6-----	1,1,1-Trichloroethane	13	U
56-23-5-----	Carbon Tetrachloride	13	U
75-27-4-----	Bromodichloromethane	13	U
78-87-5-----	1,2-Dichloropropane	13	U
10061-01-5-----	cis-1,3-Dichloropropene	13	U
79-01-6-----	Trichloroethene	13	U
124-48-1-----	Dibromochloromethane	13	U
79-00-5-----	1,1,2-Trichloroethane	13	U
71-43-2-----	Benzene	13	U
10061-02-6-----	trans-1,3-Dichloropropene	13	U
75-25-2-----	Bromoform	13	U
108-10-1-----	4-Methyl-2-Pentanone	13	U
591-78-6-----	2-Hexanone	13	U
127-18-4-----	Tetrachloroethene	13	U
79-34-5-----	1,1,2,2-Tetrachloroethane	13	U
108-88-3-----	Toluene	13	U
108-90-7-----	Chlorobenzene	13	U
100-41-4-----	Ethylbenzene	13	U
100-42-5-----	Styrene	13	U
1330-20-7-----	Xylene (total)	13	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

18

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.425 SAS No.:

SDG No.: 75129

Matrix: (soil/water) SOIL

Lab Sample ID: 75132

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: D6990

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: not dec. 23

Date Analyzed: 10/10/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3-----	Chloromethane	13	U
74-83-9-----	Bromomethane	13	U
75-01-4-----	Vinyl Chloride	13	U
75-00-3-----	Chloroethane	13	U
75-09-2-----	Methylene Chloride	13	U
67-64-1-----	Acetone	9	BJ
75-15-0-----	Carbon Disulfide	13	U
75-35-4-----	1,1-Dichloroethene	13	U
75-34-3-----	1,1-Dichloroethane	13	U
540-59-0-----	1,2-Dichloroethene (total)	13	U
67-66-3-----	Chloroform	13	U
107-06-2-----	1,2-Dichloroethane	13	U
78-93-3-----	2-Butanone	13	U
71-55-6-----	1,1,1-Trichloroethane	13	U
56-23-5-----	Carbon Tetrachloride	13	U
75-27-4-----	Bromodichloromethane	13	U
78-87-5-----	1,2-Dichloropropane	13	U
10061-01-5-----	cis-1,3-Dichloropropene	13	U
79-01-6-----	Trichloroethene	13	U
124-48-1-----	Dibromochloromethane	13	U
79-00-5-----	1,1,2-Trichloroethane	13	U
71-43-2-----	Benzene	13	U
10061-02-6-----	trans-1,3-Dichloropropene	13	U
75-25-2-----	Bromoform	13	U
108-10-1-----	4-Methyl-2-Pentanone	13	U
591-78-6-----	2-Hexanone	13	U
127-18-4-----	Tetrachloroethene	13	U
79-34-5-----	1,1,2,2-Tetrachloroethane	13	U
108-88-3-----	Toluene	13	U
108-90-7-----	Chlorobenzene	13	U
100-41-4-----	Ethylbenzene	13	U
100-42-5-----	Styrene	13	U
1330-20-7-----	Xylene (total)	13	U

(38)

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

19

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.425 SAS No.:

SDG No.: 75129

Matrix: (soil/water) SOIL

Lab Sample ID: 75133

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: F2056

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: not dec. 14

Date Analyzed: 10/13/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3-----	Chloromethane	12	U
74-83-9-----	Bromomethane	12	U
75-01-4-----	Vinyl Chloride	12	U
75-00-3-----	Chloroethane	12	U
75-09-2-----	Methylene Chloride	12	U
67-64-1-----	Acetone	4 ^r	BU
75-15-0-----	Carbon Disulfide	12	U
75-35-4-----	1,1-Dichloroethene	12	U
75-34-3-----	1,1-Dichloroethane	12	U
540-59-0-----	1,2-Dichloroethene (total)	12	U
67-66-3-----	Chloroform	12	U
107-06-2-----	1,2-Dichloroethane	12	U
78-93-3-----	2-Butanone	12	U
71-55-6-----	1,1,1-Trichloroethane	12	U
56-23-5-----	Carbon Tetrachloride	12	U
75-27-4-----	Bromodichloromethane	12	U
78-87-5-----	1,2-Dichloropropane	12	U
10061-01-5-----	cis-1,3-Dichloropropene	12	U
79-01-6-----	Trichloroethene	12	U
124-48-1-----	Dibromochloromethane	12	U
79-00-5-----	1,1,2-Trichloroethane	12	U
71-43-2-----	Benzene	12	U
10061-02-6-----	trans-1,3-Dichloropropene	12	U
75-25-2-----	Bromoform	12	U
108-10-1-----	4-Methyl-2-Pentanone	12	U
591-78-6-----	2-Hexanone	12	U
127-18-4-----	Tetrachloroethene	12	U
79-34-5-----	1,1,2,2-Tetrachloroethane	12	U
108-88-3-----	Toluene	12	U
108-90-7-----	Chlorobenzene	12	U
100-41-4-----	Ethylbenzene	12	U
100-42-5-----	Styrene	12	U
1330-20-7-----	Xylene (total)	12	U

6

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

20

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.425 SAS No.:

SDG No.: 75129

Matrix: (soil/water) SOIL

Lab Sample ID: 75134

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: D7010

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: not dec. 14

Date Analyzed: 10/11/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12	U
67-64-1	Acetone	5	J
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

21

Lab Name: E & E INC. Contract: _____

Lab Code: EANDE Case No.: 9702.425 SAS No.: _____ SDG No.: 75129

Matrix: (soil/water) WATER Lab Sample ID: 75135

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C7315

Level: (low/med) LOW Date Received: 10/06/97

% Moisture: not dec. Date Analyzed: 10/10/97

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

15

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.425 SAS No.:

SDG No.: 75129

Matrix: (soil/water) SOIL

Lab Sample ID: 75129

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E0935

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 19 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/14/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.3

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

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	410	U
111-44-4-----	bis(2-Chloroethyl) Ether	410	U
95-57-8-----	2-Chlorophenol	410	U
541-73-1-----	1,3-Dichlorobenzene	410	U
106-46-7-----	1,4-Dichlorobenzene	410	U
95-50-1-----	1,2-Dichlorobenzene	410	U
95-48-7-----	2-Methylphenol	410	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	410	U
106-44-5-----	4-Methylphenol	410	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	410	U
67-72-1-----	Hexachloroethane	410	U
98-95-3-----	Nitrobenzene	410	U
78-59-1-----	Isophorone	410	U
88-75-5-----	2-Nitrophenol	410	U
105-67-9-----	2,4-Dimethylphenol	410	U
111-91-1-----	bis(2-Chloroethoxy)Methane	410	U
120-83-2-----	2,4-Dichlorophenol	410	U
120-82-1-----	1,2,4-Trichlorobenzene	410	U
91-20-3-----	Naphthalene	410	U
106-47-8-----	4-Chloroaniline	410	U
87-68-3-----	Hexachlorobutadiene	410	U
59-50-7-----	4-Chloro-3-Methylphenol	410	U
91-57-6-----	2-Methylnaphthalene	410	U
77-47-4-----	Hexachlorocyclopentadiene	410	U
88-06-2-----	2,4,6-Trichlorophenol	410	U
95-95-4-----	2,4,5-Trichlorophenol	990	U
91-58-7-----	2-Chloronaphthalene	410	U
88-74-4-----	2-Nitroaniline	990	U
131-11-3-----	Dimethylphthalate	410	U
208-96-8-----	Acenaphthylene	410	U
606-20-2-----	2,6-Dinitrotoluene	410	U
99-09-2-----	3-Nitroaniline	990	U
83-32-9-----	Acenaphthene	410	U
51-28-5-----	2,4-Dinitrophenol	990	U
100-02-7-----	4-Nitrophenol	990	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

15

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.425 SAS No.:

SDG No.: 75129

Matrix: (soil/water) SOIL

Lab Sample ID: 75129

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E0935

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 19 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/14/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

132-64-9-----	Dibenzofuran	410	U
121-14-2-----	2,4-Dinitrotoluene	410	U
84-66-2-----	Diethylphthalate	410	U
7005-72-3-----	4-Chlorophenyl-phenylether	410	U
86-73-7-----	Fluorene	46	J
100-01-6-----	4-Nitroaniline	990	U
534-52-1-----	4,6-Dinitro-2-methylphenol	990	U
86-30-6-----	N-Nitrosodiphenylamine (1)	410	U
101-55-3-----	4-Bromophenyl-phenylether	410	U
118-74-1-----	Hexachlorobenzene	410	U
87-86-5-----	Pentachlorophenol	990	U
85-01-8-----	Phenanthrene	500	
120-12-7-----	Anthracene	100	J
86-74-8-----	Carbazole	150	J
84-74-2-----	Di-n-Butylphthalate	67	J
206-44-0-----	Fluoranthene	720	
129-00-0-----	Pyrene	710	
85-68-7-----	Butylbenzylphthalate	410	U
91-94-1-----	3,3'-Dichlorobenzidine	410	U
56-55-3-----	Benzo(a)Anthracene	380	J
218-01-9-----	Chrysene	410	
117-81-7-----	bis(2-Ethylhexyl)Phthalate	100	J
117-84-0-----	Di-n-Octyl Phthalate	410	U
205-99-2-----	Benzo(b)Fluoranthene	620	
207-08-9-----	Benzo(k)Fluoranthene	410	U
50-32-8-----	Benzo(a)Pyrene	74	J
193-39-5-----	Indeno(1,2,3-cd)Pyrene	290	J
53-70-3-----	Dibenz(a,h)Anthracene	140	J
191-24-2-----	Benzo(g,h,i)Perylene	310	J

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

15

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.425 SAS No.:

SDG No.: 75129

Matrix: (soil/water) SOIL

Lab Sample ID: 75129

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E0935

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 19 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/14/97

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.3

Number TICs found: 7

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	9.90	170	J
2.	Unknown carboxylic acid	14.51	85	J
3.	Unknown PAH	27.20	150	J
4.	Unknown oxygenated hydrocarb	32.10	1100	JB
5.	Unknown oxygenated hydrocarb	34.74	940	JB
6.	Unknown hydrocarbon	36.18	100	JB
7.	Unknown oxygenated hydrocarb	36.65	80	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

16

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.425 SAS No.:

SDG No.: 75129

Matrix: (soil/water) SOIL

Lab Sample ID: 75130

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E0936

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 14 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/14/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

108-95-2-----	Phenol	380	U
111-44-4-----	bis(2-Chloroethyl)Ether	380	U
95-57-8-----	2-Chlorophenol	380	U
541-73-1-----	1,3-Dichlorobenzene	380	U
106-46-7-----	1,4-Dichlorobenzene	380	U
95-50-1-----	1,2-Dichlorobenzene	380	U
95-48-7-----	2-Methylphenol	380	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5-----	4-Methylphenol	380	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	380	U
67-72-1-----	Hexachloroethane	380	U
98-95-3-----	Nitrobenzene	380	U
78-59-1-----	Isophorone	380	U
88-75-5-----	2-Nitrophenol	380	U
105-67-9-----	2,4-Dimethylphenol	380	U
111-91-1-----	bis(2-Chloroethoxy)Methane	380	U
120-83-2-----	2,4-Dichlorophenol	380	U
120-82-1-----	1,2,4-Trichlorobenzene	380	U
91-20-3-----	Naphthalene	380	U
106-47-8-----	4-Chloroaniline	380	U
87-68-3-----	Hexachlorobutadiene	380	U
59-50-7-----	4-Chloro-3-Methylphenol	380	U
91-57-6-----	2-Methylnaphthalene	380	U
77-47-4-----	Hexachlorocyclopentadiene	380	U
88-06-2-----	2,4,6-Trichlorophenol	380	U
95-95-4-----	2,4,5-Trichlorophenol	930	U
91-58-7-----	2-Chloronaphthalene	380	U
88-74-4-----	2-Nitroaniline	930	U
131-11-3-----	Dimethylphthalate	380	U
208-96-8-----	Acenaphthylene	380	U
606-20-2-----	2,6-Dinitrotoluene	380	U
99-09-2-----	3-Nitroaniline	930	U
83-32-9-----	Acenaphthene	380	U
51-28-5-----	2,4-Dinitrophenol	930	U
100-02-7-----	4-Nitrophenol	930	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

16

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.425 SAS No.:

SDG No.: 75129

Matrix: (soil/water) SOIL

Lab Sample ID: 75130

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E0936

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 14 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/14/97

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.6

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

CAS NO.

COMPOUND

Q

132-64-9-----	Dibenzofuran	380	U
121-14-2-----	2,4-Dinitrotoluene	380	U
84-66-2-----	Diethylphthalate	380	U
7005-72-3-----	4-Chlorophenyl-phenylether	380	U
86-73-7-----	Fluorene	380	U
100-01-6-----	4-Nitroaniline	930	U
534-52-1-----	4,6-Dinitro-2-methylphenol	930	U
86-30-6-----	N-Nitrosodiphenylamine (1)	380	U
101-55-3-----	4-Bromophenyl-phenylether	380	U
118-74-1-----	Hexachlorobenzene	380	U
87-86-5-----	Pentachlorophenol	930	U
85-01-8-----	Phenanthrene	88	J
120-12-7-----	Anthracene	380	U
86-74-8-----	Carbazole	380	U
84-74-2-----	Di-n-Butylphthalate	47	J
206-44-0-----	Fluoranthene	110	J
129-00-0-----	Pyrene	170	J
85-68-7-----	Butylbenzylphthalate	380	U
91-94-1-----	3,3'-Dichlorobenzidine	380	U
56-55-3-----	Benzo(a)Anthracene	96	J
218-01-9-----	Chrysene	83	J
117-81-7-----	bis(2-Ethylhexyl)Phthalate	82	J
117-84-0-----	Di-n-Octyl Phthalate	380	U
205-99-2-----	Benzo(b)Fluoranthene	380	U
207-08-9-----	Benzo(k)Fluoranthene	380	U
50-32-8-----	Benzo(a)Pyrene	380	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	130	J
53-70-3-----	Dibenz(a,h)Anthracene	380	U
191-24-2-----	Benzo(g,h,i)Perylene	140	J

(1) - Cannot be separated from Diphenylamine

444444

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

16

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.425 SAS No.:

SDG No.: 75129

Matrix: (soil/water) SOIL

Lab Sample ID: 75130

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E0936

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 14 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/14/97

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.6

Number TICs found: 20

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.	Unknown	9.89	110	J
2.	Unknown carboxylic acid	14.56	90	J
3.	Unknown carboxylic acid	16.46	97	J
4.	Unknown oxygenated hydrocarb	20.16	130	J
5.	Unknown hydrocarbon	24.22	99	J
6.	Unknown oxygenated hydrocarb	25.63	360	J
7.	Unknown oxygenated hydrocarb	26.24	420	J
8.	Unknown oxygenated hydrocarb	26.96	170	J
9.	Unknown carboxylic acid	27.23	210	J
10.	Unknown hydrocarbon	27.88	440	J
11.	Unknown hydrocarbon	28.88	25	J
12.	Unknown hydrocarbon	29.25	33	J
13.	Unknown oxygenated hydrocarb	29.69	94	J
14.	Unknown oxygenated hydrocarb	32.14	100	JB
15.	Unknown oxygenated hydrocarb	32.72	270	JB
16.	Unknown oxygenated hydrocarb	35.34	70	J
17.	Unknown	35.64	130	J
18.	Unknown oxygenated hydrocarb	36.22	150	J
19.	Unknown oxygenated hydrocarb	37.06	180	J
20.	Unknown oxygenated hydrocarb	39.43	140	JB

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B
B

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

Lab Name: E & E INC.

Contract:

16RE

Lab Code: EANDE

Case No.: 9702.425 SAS No.:

SDG No.: 75129

Matrix: (soil/water) SOIL

Lab Sample ID: 75130RE

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E0963

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 14 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/16/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.6

CAS NO.

COMPOUND

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

Q

108-95-2-----	Phenol	380	U
111-44-4-----	bis(2-Chloroethyl) Ether	380	U
95-57-8-----	2-Chlorophenol	380	U
541-73-1-----	1,3-Dichlorobenzene	380	U
106-46-7-----	1,4-Dichlorobenzene	380	U
95-50-1-----	1,2-Dichlorobenzene	380	U
95-48-7-----	2-Methylphenol	380	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5-----	4-Methylphenol	380	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	380	U
67-72-1-----	Hexachloroethane	380	U
98-95-3-----	Nitrobenzene	380	U
78-59-1-----	Isophorone	380	U
88-75-5-----	2-Nitrophenol	380	U
105-67-9-----	2,4-Dimethylphenol	380	U
111-91-1-----	bis(2-Chloroethoxy)Methane	380	U
120-83-2-----	2,4-Dichlorophenol	380	U
120-82-1-----	1,2,4-Trichlorobenzene	380	U
91-20-3-----	Naphthalene	380	U
106-47-8-----	4-Chloroaniline	380	U
87-68-3-----	Hexachlorobutadiene	380	U
59-50-7-----	4-Chloro-3-Methylphenol	380	U
91-57-6-----	2-Methylnaphthalene	380	U
77-47-4-----	Hexachlorocyclopentadiene	380	U
88-06-2-----	2,4,6-Trichlorophenol	380	U
95-95-4-----	2,4,5-Trichlorophenol	930	U
91-58-7-----	2-Chloronaphthalene	380	U
88-74-4-----	2-Nitroaniline	930	U
131-11-3-----	Dimethylphthalate	380	U
208-96-8-----	Acenaphthylene	380	U
606-20-2-----	2,6-Dinitrotoluene	380	U
99-09-2-----	3-Nitroaniline	930	U
83-32-9-----	Acenaphthene	380	U
51-28-5-----	2,4-Dinitrophenol	930	U
100-02-7-----	4-Nitrophenol	930	U

R

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

16RE

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.425 SAS No.:

SDG No.: 75129

Matrix: (soil/water) SOIL

Lab Sample ID: 75130RE

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E0963

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 14 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/16/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6

CAS NO.

COMPOUND

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

Q

132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	UU
84-66-2	Diethylphthalate	380	UUU
7005-72-3	4-Chlorophenyl-phenylether	380	UUUU
86-73-7	Fluorene	380	UUUUU
100-01-6	4-Nitroaniline	930	UUUUU
534-52-1	4,6-Dinitro-2-methylphenol	930	UUUUU
86-30-6	N-Nitrosodiphenylamine (1)	380	UUUUU
101-55-3	4-Bromophenyl-phenylether	380	UUUUU
118-74-1	Hexachlorobenzene	380	UUUUU
87-86-5	Pentachlorophenol	930	UUUUU
85-01-8	Phenanthrene	88	UUUUU
120-12-7	Anthracene	380	UUUUU
86-74-8	Carbazole	380	UUUUU
84-74-2	Di-n-Butylphthalate	43	UUUUU
206-44-0	Fluoranthene	130	UUUUU
129-00-0	Pyrene	190	UUUUU
85-68-7	Butylbenzylphthalate	380	UUUUU
91-94-1	3,3'-Dichlorobenzidine	380	UUUUU
56-55-3	Benzo(a)Anthracene	98	UUUUU
218-01-9	Chrysene	94	UUUUU
117-81-7	bis(2-Ethylhexyl)Phthalate	98	UUUUU
117-84-0	Di-n-Octyl Phthalate	380	UUUUU
205-99-2	Benzo(b)Fluoranthene	130	UUUUU
207-08-9	Benzo(k)Fluoranthene	80	UUUUU
50-32-8	Benzo(a)Pyrene	100	UUUUU
193-39-5	Indeno(1,2,3-cd)Pyrene	76	UUUUU
53-70-3	Dibenz(a,h)Anthracene	49	UUUUU
191-24-2	Benzo(g,h,i)Perylene	100	UUUUU

(1) - Cannot be separated from Diphenylamine

R
3479944

331

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

16RE

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.425 SAS No.:

SDG No.: 75129

Matrix: (soil/water) SOIL

Lab Sample ID: 75130RE

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E0963

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 14 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/16/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.6

Number TICs found: 16

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	9.74	120	J
2.	Unknown oxygenated hydrocarb	20.04	110	J
3.	Unknown hydrocarbon	23.43	90	J
4.	Unknown	24.09	78	J
5.	Unknown oxygenated hydrocarb	25.49	310	J
6.	Unknown oxygenated hydrocarb	26.21	130	J
7.	Unknown hydrocarbon	26.82	120	J
8. 57-10-3	Hexadecanoic acid	27.07	200	JN
9.	Unknown oxygenated hydrocarb	27.74	450	J
10.	Unknown oxygenated hydrocarb	28.09	390	J
11.	Unknown hydrocarbon	29.79	110	J
12.	Unknown oxygenated hydrocarb	32.01	140	JB
13.	Unknown	35.51	270	J
14.	Unknown oxygenated hydrocarb	36.08	260	JB
15.	Unknown oxygenated hydrocarb	36.88	250	J
16.	Unknown oxygenated hydrocarb	37.34	170	JB

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

17

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.425 SAS No.:

SDG No.: 75129

Matrix: (soil/water) SOIL

Lab Sample ID: 75131

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E0937

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 23 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/14/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

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

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	430	U
111-44-4-----	bis(2-Chloroethyl) Ether	430	U
95-57-8-----	2-Chlorophenol	430	U
541-73-1-----	1,3-Dichlorobenzene	430	U
106-46-7-----	1,4-Dichlorobenzene	430	U
95-50-1-----	1,2-Dichlorobenzene	430	U
95-48-7-----	2-Methylphenol	430	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	430	U
106-44-5-----	4-Methylphenol	430	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	430	U
67-72-1-----	Hexachloroethane	430	U
98-95-3-----	Nitrobenzene	430	U
78-59-1-----	Isophorone	430	U
88-75-5-----	2-Nitrophenol	430	U
105-67-9-----	2,4-Dimethylphenol	430	U
111-91-1-----	bis(2-Chloroethoxy) Methane	430	U
120-83-2-----	2,4-Dichlorophenol	430	U
120-82-1-----	1,2,4-Trichlorobenzene	430	U
91-20-3-----	Naphthalene	430	U
106-47-8-----	4-Chloroaniline	430	U
87-68-3-----	Hexachlorobutadiene	430	U
59-50-7-----	4-Chloro-3-Methylphenol	430	U
91-57-6-----	2-Methylnaphthalene	430	U
77-47-4-----	Hexachlorocyclopentadiene	430	U
88-06-2-----	2,4,6-Trichlorophenol	430	U
95-95-4-----	2,4,5-Trichlorophenol	1000	U
91-58-7-----	2-Chloronaphthalene	430	U
88-74-4-----	2-Nitroaniline	1000	U
131-11-3-----	Dimethylphthalate	430	U
208-96-8-----	Acenaphthylene	430	U
606-20-2-----	2,6-Dinitrotoluene	430	U
99-09-2-----	3-Nitroaniline	1000	U
83-32-9-----	Acenaphthene	430	U
51-28-5-----	2,4-Dinitrophenol	1000	U
100-02-7-----	4-Nitrophenol	1000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

17

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.425 SAS No.:

SDG No.: 75129

Matrix: (soil/water) SOIL

Lab Sample ID: 75131

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E0937

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 23 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/14/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

132-64-9-----	Dibenzofuran	430	U
121-14-2-----	2,4-Dinitrotoluene	430	U
84-66-2-----	Diethylphthalate	430	U
7005-72-3-----	4-Chlorophenyl-phenylether	430	U
86-73-7-----	Fluorene	50	J
100-01-6-----	4-Nitroaniline	1000	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1000	U
86-30-6-----	N-Nitrosodiphenylamine (1)	430	U
101-55-3-----	4-Bromophenyl-phenylether	430	U
118-74-1-----	Hexachlorobenzene	430	U
87-86-5-----	Pentachlorophenol	1000	U
85-01-8-----	Phenanthrene	510	
120-12-7-----	Anthracene	120	J
86-74-8-----	Carbazole	110	J
84-74-2-----	Di-n-Butylphthalate	130	J
206-44-0-----	Fluoranthene	800	
129-00-0-----	Pyrene	910	
85-68-7-----	Butylbenzylphthalate	940	
91-94-1-----	3,3'-Dichlorobenzidine	430	U
56-55-3-----	Benzo(a)Anthracene	480	
218-01-9-----	Chrysene	500	
117-81-7-----	bis(2-Ethylhexyl)Phthalate	230	J
117-84-0-----	Di-n-Octyl Phthalate	430	U
205-99-2-----	Benzo(b)Fluoranthene	760	
207-08-9-----	Benzo(k)Fluoranthene	430	U
50-32-8-----	Benzo(a)Pyrene	99	J
193-39-5-----	Indeno(1,2,3-cd)Pyrene	350	J
53-70-3-----	Dibenz(a,h)Anthracene	180	J
191-24-2-----	Benzo(g,h,i)Perylene	380	J

(1) - Cannot be separated from Diphenylamine

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1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

17

Lab Name: E & E INC.

Contract:

Lab Code: EAND E

Case No.: 9702.425 SAS No.:

SDG No.: 75129

Matrix: (soil/water) SOIL

Lab Sample ID: 75131

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E0937

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 23 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/14/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

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

Number TICs found: 11

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown hydrocarbon	9.62	220	J
2.	Unknown alkyl phenol	13.09	240	J
3.	Unknown	13.40	160	J
4.	Butylbenzene isomer	13.49	120	J
5.	Unknown oxygenated hydrocarb	14.54	140	J
6. 544-63-8	Tetradecanoic acid	24.48	89	JN
7.	Unknown	24.92	110	J
8. 57-10-3	Hexadecanoic acid	27.21	230	JN
9.	Unknown	27.53	150	J
10.	Unknown hydrocarbon	30.02	210	J
11.	Unknown PAH	31.15	640	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

18

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.425 SAS No.:

SDG No.: 75129

Matrix: (soil/water) SOIL

Lab Sample ID: 75132

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E0938

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 23 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/14/97

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.3

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

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	430	U
111-44-4-----	bis(2-Chloroethyl) Ether	430	U
95-57-8-----	2-Chlorophenol	430	U
541-73-1-----	1,3-Dichlorobenzene	430	U
106-46-7-----	1,4-Dichlorobenzene	430	U
95-50-1-----	1,2-Dichlorobenzene	430	U
95-48-7-----	2-Methylphenol	430	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	430	U
106-44-5-----	4-Methylphenol	430	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	430	U
67-72-1-----	Hexachloroethane	430	U
98-95-3-----	Nitrobenzene	430	U
78-59-1-----	Isophorone	430	U
88-75-5-----	2-Nitrophenol	430	U
105-67-9-----	2,4-Dimethylphenol	430	U
111-91-1-----	bis(2-Chloroethoxy)Methane	430	U
120-83-2-----	2,4-Dichlorophenol	430	U
120-82-1-----	1,2,4-Trichlorobenzene	430	U
91-20-3-----	Naphthalene	430	U
106-47-8-----	4-Chloroaniline	430	U
87-68-3-----	Hexachlorobutadiene	430	U
59-50-7-----	4-Chloro-3-Methylphenol	430	U
91-57-6-----	2-Methylnaphthalene	430	U
77-47-4-----	Hexachlorocyclopentadiene	430	U
88-06-2-----	2,4,6-Trichlorophenol	430	U
95-95-4-----	2,4,5-Trichlorophenol	1000	U
91-58-7-----	2-Chloronaphthalene	430	U
88-74-4-----	2-Nitroaniline	1000	U
131-11-3-----	Dimethylphthalate	430	U
208-96-8-----	Acenaphthylene	430	U
606-20-2-----	2,6-Dinitrotoluene	430	U
99-09-2-----	3-Nitroaniline	1000	U
83-32-9-----	Acenaphthene	430	U
51-28-5-----	2,4-Dinitrophenol	1000	U
100-02-7-----	4-Nitrophenol	1000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

18

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.425 SAS No.:

SDG No.: 75129

Matrix: (soil/water) SOIL

Lab Sample ID: 75132

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E0938

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 23 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/14/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

132-64-9-----	Dibenzofuran	430	U
121-14-2-----	2,4-Dinitrotoluene	430	U
84-66-2-----	Diethylphthalate	430	U
7005-72-3-----	4-Chlorophenyl-phenylether	430	U
86-73-7-----	Fluorene	430	U
100-01-6-----	4-Nitroaniline	1000	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1000	U
86-30-6-----	N-Nitrosodiphenylamine (1)	430	U
101-55-3-----	4-Bromophenyl-phenylether	430	U
118-74-1-----	Hexachlorobenzene	430	U
87-86-5-----	Pentachlorophenol	1000	U
85-01-8-----	Phenanthrene	250	J
120-12-7-----	Anthracene	58	J
86-74-8-----	Carbazole	63	J
84-74-2-----	Di-n-Butylphthalate	91	J
206-44-0-----	Fluoranthene	450	
129-00-0-----	Pyrene	420	J
85-68-7-----	Butylbenzylphthalate	430	U
91-94-1-----	3,3'-Dichlorobenzidine	430	U
56-55-3-----	Benzo(a)Anthracene	230	J
218-01-9-----	Chrysene	260	J
117-81-7-----	bis(2-Ethylhexyl)Phthalate	81	J
117-84-0-----	Di-n-Octyl Phthalate	430	U
205-99-2-----	Benzo(b)Fluoranthene	380	J
207-08-9-----	Benzo(k)Fluoranthene	430	U
50-32-8-----	Benzo(a)Pyrene	230	J
193-39-5-----	Indeno(1,2,3-cd)Pyrene	200	J
53-70-3-----	Dibenz(a,h)Anthracene	99	J
191-24-2-----	Benzo(g,h,i)Perylene	210	J

(1) - Cannot be separated from Diphenylamine

424

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

18

Lab Name: E & E INC.

Contract:

Lab Code: EAND E

Case No.: 9702.425 SAS No.:

SDG No.: 75129

Matrix: (soil/water) SOIL

Lab Sample ID: 75132

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E0938

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 23 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/14/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.3

Number TICs found: 16

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	9.89	140	J
2.	Unknown terpene	11.34	270	J
3.	Unknown	25.73	95	J
4.	Unknown oxygenated hydrocarb	26.31	230	J
5.	Unknown PAH	27.20	120	J
6.	Unknown oxygenated hydrocarb	28.97	370	JB
7.	Unknown oxygenated hydrocarb	29.65	430	J
8.	Unknown PAH	30.91	130	J
9.	Unknown oxygenated hydrocarb	31.28	160	J
10.	Unknown oxygenated hydrocarb	32.11	850	J
11.	Unknown hydrocarbon	32.46	170	J
12.	Unknown oxygenated hydrocarb	32.61	1100	J
13.	Unknown oxygenated hydrocarb	34.74	300	JB
14.	Unknown oxygenated hydrocarb	34.84	350	J
15.	Unknown oxygenated hydrocarb	36.65	110	JB
16.	Unknown oxygenated hydrocarb	39.03	280	J

FORM I SV-TIC

10/95

425

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

19

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.425 SAS No.:

SDG No.: 75129

Matrix: (soil/water) SOIL

Lab Sample ID: 75133

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E0939

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 14 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/14/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

CAS NO.

COMPOUND

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

Q

108-95-2-----	Phenol	380	U
111-44-4-----	bis(2-Chloroethyl) Ether	380	U
95-57-8-----	2-Chlorophenol	380	U
541-73-1-----	1,3-Dichlorobenzene	380	U
106-46-7-----	1,4-Dichlorobenzene	380	U
95-50-1-----	1,2-Dichlorobenzene	380	U
95-48-7-----	2-Methylphenol	380	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5-----	4-Methylphenol	380	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	380	U
67-72-1-----	Hexachloroethane	380	U
98-95-3-----	Nitrobenzene	380	U
78-59-1-----	Isophorone	380	U
88-75-5-----	2-Nitrophenol	380	U
105-67-9-----	2,4-Dimethylphenol	380	U
111-91-1-----	bis(2-Chloroethoxy) Methane	380	U
120-83-2-----	2,4-Dichlorophenol	380	U
120-82-1-----	1,2,4-Trichlorobenzene	42	J
91-20-3-----	Naphthalene	380	U
106-47-8-----	4-Chloroaniline	380	U
87-68-3-----	Hexachlorobutadiene	380	U
59-50-7-----	4-Chloro-3-Methylphenol	380	U
91-57-6-----	2-Methylnaphthalene	380	U
77-47-4-----	Hexachlorocyclopentadiene	380	U
88-06-2-----	2,4,6-Trichlorophenol	380	U
95-95-4-----	2,4,5-Trichlorophenol	930	U
91-58-7-----	2-Chloronaphthalene	380	U
88-74-4-----	2-Nitroaniline	930	U
131-11-3-----	Dimethylphthalate	380	U
208-96-8-----	Acenaphthylene	380	U
606-20-2-----	2,6-Dinitrotoluene	380	U
99-09-2-----	3-Nitroaniline	930	U
83-32-9-----	Acenaphthene	380	U
51-28-5-----	2,4-Dinitrophenol	930	U
100-02-7-----	4-Nitrophenol	930	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

19

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.425 SAS No.:

SDG No.: 75129

Matrix: (soil/water) SOIL

Lab Sample ID: 75133

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E0939

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 14 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/14/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

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

CAS NO.

COMPOUND

Q

132-64-9-----	Dibenzofuran	380	U
121-14-2-----	2,4-Dinitrotoluene	380	U
84-66-2-----	Diethylphthalate	380	U
7005-72-3-----	4-Chlorophenyl-phenylether	380	U
86-73-7-----	Fluorene	380	U
100-01-6-----	4-Nitroaniline	930	U
534-52-1-----	4,6-Dinitro-2-methylphenol	930	U
86-30-6-----	N-Nitrosodiphenylamine (1)	380	U
101-55-3-----	4-Bromophenyl-phenylether	380	U
118-74-1-----	Hexachlorobenzene	380	U
87-86-5-----	Pentachlorophenol	930	U
85-01-8-----	Phenanthrene	220	J
120-12-7-----	Anthracene	380	U
86-74-8-----	Carbazole	380	U
84-74-2-----	Di-n-Butylphthalate	380	U
206-44-0-----	Fluoranthene	340	J
129-00-0-----	Pyrene	560	
85-68-7-----	Butylbenzylphthalate	380	U
91-94-1-----	3,3'-Dichlorobenzidine	380	U
56-55-3-----	Benzo (a) Anthracene	220	J
218-01-9-----	Chrysene	240	J
117-81-7-----	bis(2-Ethylhexyl) Phthalate	290	J
117-84-0-----	Di-n-Octyl Phthalate	380	U
205-99-2-----	Benzo (b) Fluoranthene	390	
207-08-9-----	Benzo (k) Fluoranthene	380	U
50-32-8-----	Benzo (a) Pyrene	230	J
193-39-5-----	Indeno (1,2,3-cd) Pyrene	190	J
53-70-3-----	Dibenz (a,h) Anthracene	380	U
191-24-2-----	Benzo (g,h,i) Perylene	210	J

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

19

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.425 SAS No.:

SDG No.: 75129

Matrix: (soil/water) SOIL

Lab Sample ID: 75133

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E0939

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 14 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/14/97

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Tetrachlorotoluene isomer	20.48	4100	J
2.	Tetrachlorotoluene isomer	21.01	1800	J
3.	Unknown halogenated aromatic	22.18	7100	J
4.	Unknown halogenated aromatic	22.75	3800	J
5.	Unknown halogenated aromatic	23.88	10000	J
6.	Unknown halogenated aromatic	24.40	4200	J
7.	Unknown halogenated aromatic	25.92	14000	J
8.	Unknown halogenated aromatic	27.23	11000	J
9.	Unknown halogenated aromatic	28.63	400	J
10.	Unknown halogenated aromatic	28.92	5700	J
11.	Pentachlorobiphenyl isomer	29.15	2100	J
12.	Pentachlorobiphenyl isomer	29.53	490	J
13.	Pentachlorobiphenyl isomer	29.70	2000	J
14.	Unknown halogenated aromatic	30.30	2000	J
15.	Pentachlorobiphenyl isomer	30.62	1100	J
16.	Hexachlorobiphenyl isomer	30.91	1200	J
17.	Hexachlorobiphenyl isomer	31.01	920	J
18.	Hexachlorobiphenyl isomer	31.22	2100	J
19.	Hexachlorobiphenyl isomer	31.61	510	J
20.	Hexachlorobiphenyl isomer	31.81	2400	J
21.	Hexachlorobiphenyl isomer	32.11	1900	J
22.	Unknown adipate	32.35	1400	J
23.	Hexachlorobiphenyl isomer	32.48	1700	J
24.	Heptachlorobiphenyl isomer	32.85	1400	J
25.	Unknown halogenated aromatic	32.97	770	J
26.	Heptachlorobiphenyl isomer	34.06	1300	J
27.	Octachlorobiphenyl isomer	34.92	720	J
28.	Unknown halogenated aromatic	35.20	560	J
29.	Octachlorobiphenyl isomer	36.19	1400	J
30.	Nonachlorobiphenyl isomer	37.18	1400	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

19RE

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.425 SAS No.:

SDG No.: 75129

Matrix: (soil/water) SOIL

Lab Sample ID: 75133RE

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E0962

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 14 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/16/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

108-95-2-----	Phenol	380	U
111-44-4-----	bis(2-Chloroethyl) Ether	380	U
95-57-8-----	2-Chlorophenol	380	U
541-73-1-----	1,3-Dichlorobenzene	380	U
106-46-7-----	1,4-Dichlorobenzene	380	U
95-50-1-----	1,2-Dichlorobenzene	380	U
95-48-7-----	2-Methylphenol	380	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5-----	4-Methylphenol	380	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	380	U
67-72-1-----	Hexachloroethane	380	U
98-95-3-----	Nitrobenzene	380	U
78-59-1-----	Isophorone	380	U
88-75-5-----	2-Nitrophenol	380	U
105-67-9-----	2,4-Dimethylphenol	380	U
111-91-1-----	bis(2-Chloroethoxy) Methane	380	U
120-83-2-----	2,4-Dichlorophenol	380	U
120-82-1-----	1,2,4-Trichlorobenzene	43	J
91-20-3-----	Naphthalene	380	U
106-47-8-----	4-Chloroaniline	380	U
87-68-3-----	Hexachlorobutadiene	380	U
59-50-7-----	4-Chloro-3-Methylphenol	380	U
91-57-6-----	2-Methylnaphthalene	380	U
77-47-4-----	Hexachlorocyclopentadiene	380	U
88-06-2-----	2,4,6-Trichlorophenol	380	U
95-95-4-----	2,4,5-Trichlorophenol	930	U
91-58-7-----	2-Chloronaphthalene	380	U
88-74-4-----	2-Nitroaniline	930	U
131-11-3-----	Dimethylphthalate	380	U
208-96-8-----	Acenaphthylene	380	U
606-20-2-----	2,6-Dinitrotoluene	380	U
99-09-2-----	3-Nitroaniline	930	U
83-32-9-----	Acenaphthene	380	U
51-28-5-----	2,4-Dinitrophenol	930	U
100-02-7-----	4-Nitrophenol	930	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

19RE

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.425 SAS No.:

SDG No.: 75129

Matrix: (soil/water) SOIL

Lab Sample ID: 75133RE

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E0962

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 14 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/16/97

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

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

CAS NO.

COMPOUND

Q

132-64-9-----	Dibenzofuran	380	U
121-14-2-----	2,4-Dinitrotoluene	380	U
84-66-2-----	Diethylphthalate	380	U
7005-72-3-----	4-Chlorophenyl-phenylether	380	U
86-73-7-----	Fluorene	380	U
100-01-6-----	4-Nitroaniline	930	U
534-52-1-----	4,6-Dinitro-2-methylphenol	930	U
86-30-6-----	N-Nitrosodiphenylamine (1)	380	U
101-55-3-----	4-Bromophenyl-phenylether	380	U
118-74-1-----	Hexachlorobenzene	380	U
87-86-5-----	Pentachlorophenol	930	U
85-01-8-----	Phenanthrene	260	J
120-12-7-----	Anthracene	380	U
86-74-8-----	Carbazole	380	U
84-74-2-----	Di-n-Butylphthalate	380	U
206-44-0-----	Fluoranthene	390	
129-00-0-----	Pyrene	550	
85-68-7-----	Butylbenzylphthalate	380	U
91-94-1-----	3,3'-Dichlorobenzidine	380	U
56-55-3-----	Benzo(a)Anthracene	260	J
218-01-9-----	Chrysene	290	J
117-81-7-----	bis(2-Ethylhexyl)Phthalate	290	J
117-84-0-----	Di-n-Octyl Phthalate	380	U
205-99-2-----	Benzo(b)Fluoranthene	440	
207-08-9-----	Benzo(k)Fluoranthene	380	
50-32-8-----	Benzo(a)Pyrene	240	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	170	J
53-70-3-----	Dibenz(a,h)Anthracene	69	J
191-24-2-----	Benzo(g,h,i)Perylene	160	J

(1) - Cannot be separated from Diphenylamine

518

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

19RE

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.425 SAS No.:

SDG No.: 75129

Matrix: (soil/water) SOIL

Lab Sample ID: 75133RE

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E0962

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 14 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/16/97

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.8

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Tetrachlorotoluene isomer	20.32	4300	J
2.	Tetrachlorotoluene isomer	20.85	1600	J
3.	Unknown halogenated aromatic	22.06	8200	J
4.	Unknown halogenated aromatic	22.56	3700	J
5.	Unknown halogenated aromatic	23.79	12000	J
6.	Unknown halogenated aromatic	24.20	3200	J
7.	Unknown halogenated aromatic	25.58	14000	J
8.	Unknown halogenated aromatic	25.83	440	J
9.	Unknown halogenated aromatic	27.05	8300	J
10.	Tetrachlorobiphenyl isomer	27.30	440	J
11.	Unknown halogenated aromatic	28.66	4400	J
12.	Pentachlorobiphenyl isomer	29.53	1300	J
13.	Unknown halogenated aromatic	30.08	1100	J
14.	Pentachlorobiphenyl isomer	30.44	760	J
15.	Hexachlorobiphenyl isomer	30.74	790	J
16.	Hexachlorobiphenyl isomer	30.85	580	J
17.	Hexachlorobiphenyl isomer	31.05	1400	J
18.	Hexachlorobiphenyl isomer	31.63	1400	J
19.	Hexachlorobiphenyl isomer	31.73	400	J
20.	Hexachlorobiphenyl isomer	31.93	1300	J
21.	Unknown adipate	32.20	1000	J
22.	Hexachlorobiphenyl isomer	32.32	1200	J
23.	Heptachlorobiphenyl isomer	32.69	1000	J
24.	Unknown halogenated aromatic	32.80	650	J
25.	Heptachlorobiphenyl isomer	33.24	570	J
26.	Unknown halogenated aromatic	34.58	430	J
27.	Octachlorobiphenyl isomer	34.77	550	J
28.	Octachlorobiphenyl isomer	34.89	400	J
29.	Unknown halogenated aromatic	35.09	510	J
30.	Octachlorobiphenyl isomer	36.05	900	J

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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

20

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.425 SAS No.:

SDG No.: 75129

Matrix: (soil/water) SOIL

Lab Sample ID: 75134

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E0940

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 14 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/14/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

CAS NO.

COMPOUND

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

Q

108-95-2-----	Phenol	380	U
111-44-4-----	bis(2-Chloroethyl)Ether	380	U
95-57-8-----	2-Chlorophenol	380	U
541-73-1-----	1,3-Dichlorobenzene	380	U
106-46-7-----	1,4-Dichlorobenzene	380	U
95-50-1-----	1,2-Dichlorobenzene	380	U
95-48-7-----	2-Methylphenol	380	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5-----	4-Methylphenol	380	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	380	U
67-72-1-----	Hexachloroethane	380	U
98-95-3-----	Nitrobenzene	380	U
78-59-1-----	Isophorone	380	U
88-75-5-----	2-Nitrophenol	380	U
105-67-9-----	2,4-Dimethylphenol	380	U
111-91-1-----	bis(2-Chloroethoxy)Methane	380	U
120-83-2-----	2,4-Dichlorophenol	380	U
120-82-1-----	1,2,4-Trichlorobenzene	380	U
91-20-3-----	Naphthalene	380	U
106-47-8-----	4-Chloroaniline	380	U
87-68-3-----	Hexachlorobutadiene	380	U
59-50-7-----	4-Chloro-3-Methylphenol	380	U
91-57-6-----	2-Methylnaphthalene	380	U
77-47-4-----	Hexachlorocyclopentadiene	380	U
88-06-2-----	2,4,6-Trichlorophenol	380	U
95-95-4-----	2,4,5-Trichlorophenol	930	U
91-58-7-----	2-Chloronaphthalene	380	U
88-74-4-----	2-Nitroaniline	930	U
131-11-3-----	Dimethylphthalate	380	U
208-96-8-----	Acenaphthylene	380	U
606-20-2-----	2,6-Dinitrotoluene	380	U
99-09-2-----	3-Nitroaniline	930	U
83-32-9-----	Acenaphthene	51	J
51-28-5-----	2,4-Dinitrophenol	930	U
100-02-7-----	4-Nitrophenol	930	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

20

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.425 SAS No.:

SDG No.: 75129

Matrix: (soil/water) SOIL

Lab Sample ID: 75134

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E0940

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 14 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/14/97

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

CAS NO.

COMPOUND

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

Q

132-64-9-----	Dibenzofuran	380	U
121-14-2-----	2,4-Dinitrotoluene	380	UU
84-66-2-----	Diethylphthalate	380	UU
7005-72-3-----	4-Chlorophenyl-phenylether	380	UU
86-73-7-----	Fluorene	74	J
100-01-6-----	4-Nitroaniline	930	U
534-52-1-----	4,6-Dinitro-2-methylphenol	930	UU
86-30-6-----	N-Nitrosodiphenylamine (1)	380	U
101-55-3-----	4-Bromophenyl-phenylether	380	U
118-74-1-----	Hexachlorobenzene	380	UU
87-86-5-----	Pentachlorophenol	930	U
85-01-8-----	Phenanthrene	660	
120-12-7-----	Anthracene	150	J
86-74-8-----	Carbazole	160	JJ
84-74-2-----	Di-n-Butylphthalate	58	J
206-44-0-----	Fluoranthene	750	
129-00-0-----	Pyrene	940	
85-68-7-----	Butylbenzylphthalate	380	U
91-94-1-----	3,3'-Dichlorobenzidine	380	U
56-55-3-----	Benzo(a)Anthracene	470	
218-01-9-----	Chrysene	490	
117-81-7-----	bis(2-Ethylhexyl)Phthalate	100	J
117-84-0-----	Di-n-Octyl Phthalate	380	U
205-99-2-----	Benzo(b)Fluoranthene	730	
207-08-9-----	Benzo(k)Fluoranthene	380	U
50-32-8-----	Benzo(a)Pyrene	420	
193-39-5-----	Indeno(1,2,3-cd)Pyrene	360	J
53-70-3-----	Dibenz(a,h)Anthracene	170	JJ
191-24-2-----	Benzo(g,h,i)Perylene	380	J

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

20

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.425 SAS No.:

SDG No.: 75129

Matrix: (soil/water) SOIL

Lab Sample ID: 75134

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E0940

Level: (low/med) LOW

Date Received: 10/06/97

% Moisture: 14 decanted: (Y/N) N

Date Extracted: 10/07/97

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 10/14/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

Number TICs found: 9

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	17.46	84	J
2.	Unknown halogenated aromatic	22.08	300	J
3.	Unknown halogenated aromatic	23.73	120	J
4.	Unknown halogenated aromatic	26.99	360	J
5.	Unknown PAH	27.21	260	J
6.	Unknown PAH	29.61	150	J
7.	Unknown PAH	30.93	180	J
8.	Unknown PAH	31.13	150	J
9.	Unknown oxygenated hydrocarb	36.65	430	J

570

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

15

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.425

SAS No.:

SDG No.: 75129

Matrix: (soil/water) SOIL

Lab Sample ID: 75129

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 19 decanted: (Y/N) N

Date Received: 10/06/97

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/07/97

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 10/16/97

Injection Volume: 2.00 (uL)

Dilution Factor: 4.00

GPC Cleanup: (Y/N) Y

pH: 7.3

Sulfur Cleanup: (Y/N) Y

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

319-84-6-----	alpha-BHC	8.4	U
319-85-7-----	beta-BHC	8.4	U
319-86-8-----	delta-BHC	8.4	U
58-89-9-----	gamma-BHC (Lindane)	8.4	U
76-44-8-----	Heptachlor	8.4	U
309-00-2-----	Aldrin	8.4	U
1024-57-3-----	Heptachlor epoxide	8.4	U
959-98-8-----	Endosulfan I	8.4	U
60-57-1-----	Dieldrin	16	U
72-55-9-----	4,4'-DDE	16	U
72-20-8-----	Endrin	16	U
33213-65-9-----	Endosulfan II	16	U
72-54-8-----	4,4'-DDD	16	U
1031-07-8-----	Endosulfan sulfate	16	U
50-29-3-----	4,4'-DDT	16	U
72-43-5-----	Methoxychlor	84	U
53494-70-5-----	Endrin ketone	16	U
7421-93-4-----	Endrin aldehyde	16	U
5103-71-9-----	alpha-Chlordane	8.4	U
5103-74-2-----	gamma-Chlordane	8.4	U
8001-35-2-----	Toxaphene	840	U
12674-11-2-----	Aroclor-1016	160	U
11104-28-2-----	Aroclor-1221	330	U
11141-16-5-----	Aroclor-1232	160	U
53469-21-9-----	Aroclor-1242	160	U
12672-29-6-----	Aroclor-1248	160	U
11097-69-1-----	Aroclor-1254	160	U
11096-82-5-----	Aroclor-1260	160	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

16

ab Name: E & E INC. Contract: _____

Lab Code: EANDE Case No.: 9702.425 SAS No.: _____ SDG No.: 75129

Matrix: (soil/water) SOIL Lab Sample ID: 75130

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 30 decanted: (Y/N) N Date Received: 10/06/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/07/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/16/97

Injection Volume: 2.00 (uL) Dilution Factor: 2.00

GPC Cleanup: (Y/N) Y pH: 7.6 Sulfur Cleanup: (Y/N) Y

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

319-84-6-----	alpha-BHC	4.9	U
319-85-7-----	beta-BHC	4.9	U
319-86-8-----	delta-BHC	4.9	U
58-89-9-----	gamma-BHC (Lindane)	4.9	U
76-44-8-----	Heptachlor	4.9	U
309-00-2-----	Aldrin	4.9	U
1024-57-3-----	Heptachlor epoxide	5.3	
959-98-8-----	Endosulfan I	4.9	U
60-57-1-----	Dieldrin	9.4	U
72-55-9-----	4,4'-DDE	9.4	U
72-20-8-----	Endrin	9.4	U
33213-65-9-----	Endosulfan II	9.4	U
72-54-8-----	4,4'-DDD	9.4	U
1031-07-8-----	Endosulfan sulfate	9.4	U
50-29-3-----	4,4'-DDT	9.4	U
72-43-5-----	Methoxychlor	49	U
53494-70-5-----	Endrin ketone	9.4	U
7421-93-4-----	Endrin aldehyde	9.4	U
5103-71-9-----	alpha-Chlordane	4.9	U
5103-74-2-----	gamma-Chlordane	4.9	U
8001-35-2-----	Toxaphene	490	U
12674-11-2-----	Aroclor-1016	94	U
11104-28-2-----	Aroclor-1221	190	U
11141-16-5-----	Aroclor-1232	94	U
53469-21-9-----	Aroclor-1242	94	U
12672-29-6-----	Aroclor-1248	94	U
11097-69-1-----	Aroclor-1254	94	U
11096-82-5-----	Aroclor-1260	94	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

17

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.425

SAS No.:

SDG No.: 75129

Matrix: (soil/water) SOIL

Lab Sample ID: 75131

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 14 decanted: (Y/N) N

Date Received: 10/06/97

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/07/97

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 10/16/97

Injection Volume: 2.00 (uL)

Dilution Factor: 5.00

GPC Cleanup: (Y/N) Y pH: 7.1

Sulfur Cleanup: (Y/N) Y

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

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	22	
959-98-8-----	Endosulfan I	9.9	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	97	
72-43-5-----	Methoxychlor	99	U
53494-70-5-----	Endrin ketone	19	U
7421-93-4-----	Endrin aldehyde	19	U
5103-71-9-----	alpha-Chlordane	9.9	U
5103-74-2-----	gamma-Chlordane	9.9	U
8001-35-2-----	Toxaphene	990	U
12674-11-2-----	Aroclor-1016	190	U
11104-28-2-----	Aroclor-1221	390	U
11141-16-5-----	Aroclor-1232	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

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

18

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.425

SAS No.:

SDG No.: 75129

Matrix: (soil/water) SOIL

Lab Sample ID: 75132

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 23 decanted: (Y/N) N

Date Received: 10/06/97

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/07/97

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 10/16/97

Injection Volume: 2.00 (uL)

Dilution Factor: 4.00

GPC Cleanup: (Y/N) Y

pH: 7.3

Sulfur Cleanup: (Y/N) Y

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

319-84-6-----	alpha-BHC	8.8	U
319-85-7-----	beta-BHC	8.8	U
319-86-8-----	delta-BHC	8.8	U
58-89-9-----	gamma-BHC (Lindane)	8.8	U
76-44-8-----	Heptachlor	8.8	U
309-00-2-----	Aldrin	8.8	U
1024-57-3-----	Heptachlor epoxide	15	
959-98-8-----	Endosulfan I	8.8	U
60-57-1-----	Dieldrin	17	U
72-55-9-----	4,4'-DDE	17	U
72-20-8-----	Endrin	17	U
33213-65-9-----	Endosulfan II	17	U
72-54-8-----	4,4'-DDD	17	U
1031-07-8-----	Endosulfan sulfate	17	U
50-29-3-----	4,4'-DDT	17	U
72-43-5-----	Methoxychlor	88	U
53494-70-5-----	Endrin ketone	17	U
7421-93-4-----	Endrin aldehyde	17	U
5103-71-9-----	alpha-Chlordane	8.8	U
5103-74-2-----	gamma-Chlordane	8.8	U
8001-35-2-----	Toxaphene	880	U
12674-11-2-----	Aroclor-1016	170	U
11104-28-2-----	Aroclor-1221	350	U
11141-16-5-----	Aroclor-1232	170	U
53469-21-9-----	Aroclor-1242	170	U
12672-29-6-----	Aroclor-1248	170	U
11097-69-1-----	Aroclor-1254	170	U
11096-82-5-----	Aroclor-1260	170	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

19

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.425

SAS No.:

SDG No.: 75129

Matrix: (soil/water) SOIL

Lab Sample ID: 75133

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 14 decanted: (Y/N) N

Date Received: 10/06/97

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/07/97

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 10/17/97

Injection Volume: 2.00 (uL)

Dilution Factor: 50.0

GPC Cleanup: (Y/N) Y

pH: 7.8

Sulfur Cleanup: (Y/N) Y

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

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	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	190	U
1031-07-8	Endosulfan sulfate	190	U
50-29-3	4,4'-DDT	190	U
72-43-5	Methoxychlor	990	U
53494-70-5	Endrin ketone	190	U
7421-93-4	Endrin aldehyde	190	U
5103-71-9	alpha-Chlordane	99	U
5103-74-2	gamma-Chlordane	99	U
8001-35-2	Toxaphene	9900	U
12674-11-2	Aroclor-1016	1900	U
11104-28-2	Aroclor-1221	3900	U
11141-16-5	Aroclor-1232	1900	U
53469-21-9	Aroclor-1242	1900	U
12672-29-6	Aroclor-1248	1900	U
11097-69-1	Aroclor-1254	1900	U
11096-82-5	Aroclor-1260	35000	C

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Am/20/97

FORM I PEST

10/95

B-302

770

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

19DL

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.425

SAS No.:

SDG No.: 75129

Matrix: (soil/water) SOIL

Lab Sample ID: 75133DL

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 14 decanted: (Y/N) N

Date Received: 10/06/97

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/07/97

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 10/17/97

Injection Volume: 2.00 (uL)

Dilution Factor: 500

GPC Cleanup: (Y/N) Y

pH: 7.8

Sulfur Cleanup: (Y/N) Y

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

319-84-6-----	alpha-BHC	990	U
319-85-7-----	beta-BHC	990	U
319-86-8-----	delta-BHC	990	U
58-89-9-----	gamma-BHC (Lindane)	990	U
76-44-8-----	Heptachlor	990	U
309-00-2-----	Aldrin	990	U
1024-57-3-----	Heptachlor epoxide	990	U
959-98-8-----	Endosulfan I	990	U
60-57-1-----	Dieldrin	1900	U
72-55-9-----	4,4'-DDE	1900	U
72-20-8-----	Endrin	1900	U
33213-65-9-----	Endosulfan II	1900	U
72-54-8-----	4,4'-DDD	1900	U
1031-07-8-----	Endosulfan sulfate	1900	U
50-29-3-----	4,4'-DDT	1900	U
72-43-5-----	Methoxychlor	9900	U
53494-70-5-----	Endrin ketone	1900	U
7421-93-4-----	Endrin aldehyde	1900	U
5103-71-9-----	alpha-Chlordane	990	U
5103-74-2-----	gamma-Chlordane	990	U
8001-35-2-----	Toxaphene	99000	U
12674-11-2-----	Aroclor-1016	19000	U
11104-28-2-----	Aroclor-1221	39000	U
11141-16-5-----	Aroclor-1232	19000	U
53469-21-9-----	Aroclor-1242	19000	U
12672-29-6-----	Aroclor-1248	19000	U
11097-69-1-----	Aroclor-1254	19000	U
11096-82-5-----	Aroclor-1260	43000	D

R

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

20

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.425

SAS No.:

SDG No.: 75129

Matrix: (soil/water) SOIL

Lab Sample ID: 75134

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 14 decanted: (Y/N) N

Date Received: 10/06/97

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/07/97

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 10/16/97

Injection Volume: 2.00 (uL)

Dilution Factor: 2.00

GPC Cleanup: (Y/N) Y

pH: 7.8

Sulfur Cleanup: (Y/N) Y

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

319-84-6-----	alpha-BHC	4.0	U
319-85-7-----	beta-BHC	4.0	U
319-86-8-----	delta-BHC	4.0	U
58-89-9-----	gamma-BHC (Lindane)	4.0	U
76-44-8-----	Heptachlor	4.0	U
309-00-2-----	Aldrin	4.9	P
1024-57-3-----	Heptachlor epoxide	29	
959-98-8-----	Endosulfan I	4.0	U
60-57-1-----	Dieldrin	7.7	U
72-55-9-----	4,4'-DDE	7.7	U
72-20-8-----	Endrin	7.7	U
33213-65-9-----	Endosulfan II	7.7	U
72-54-8-----	4,4'-DDD	7.7	U
1031-07-8-----	Endosulfan sulfate	7.7	U
50-29-3-----	4,4'-DDT	14	P
72-43-5-----	Methoxychlor	40	U
53494-70-5-----	Endrin ketone	9.6	P
7421-93-4-----	Endrin aldehyde	7.7	U
5103-71-9-----	alpha-Chlordane	4.0	U
5103-74-2-----	gamma-Chlordane	4.0	U
8001-35-2-----	Toxaphene	400	U
12674-11-2-----	Aroclor-1016	77	U
11104-28-2-----	Aroclor-1221	160	U
11141-16-5-----	Aroclor-1232	77	U
53469-21-9-----	Aroclor-1242	77	U
12672-29-6-----	Aroclor-1248	77	U
11097-69-1-----	Aroclor-1254	77	U
11096-82-5-----	Aroclor-1260	77	U

1

INORGANIC ANALYSES DATA SHEET

15

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____
Lab Code: EANDE Case No.: 9702.425 SAS No.: _____ SDG No.: 75129
Matrix (soil/water): SOIL Lab Sample ID: 75129
Level (low/med): LOW Date Received: 10/06/97
% Solids: 80.7

[illegible]

Color Before: _____ Clarity Before: _____ Texture: M _____
Color After: Y _____ Clarity After: C _____ Artifacts: _____

CLIENT SAMPLE ID : SSEF-15-SO100697

1

INORGANIC ANALYSES DATA SHEET

16

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

1050

NYSDEC SAMPLE NO.

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

[illegible]

Color Before: _____ Clarity Before: _____ Texture: M _____
Color After: Y Clarity After: C Artifacts: _____

Comments:

CLIENT SAMPLE ID : SSEF-18-SO100697

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

20

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____
 Lab Code: EANDE Case No.: 9702.425 SAS No.: _____ SDG No.: 75129
 Matrix (soil/water): SOIL Lab Sample ID: 75134
 Level (low/med): LOW Date Received: 10/06/97
 % Solids: 85.9

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

[illegible]

Color Before: _____ Clarity Before: _____ Texture: M _____
Color After: Y Clarity After: C Artifacts: _____

Comments:

CLIENT SAMPLE ID : SSEF-20-SO100697

FORM I - IN

10/95

Ecology and Environment, Inc., (E & E)
Data Usability Summary Report (DUSR)

Prepared by: Lynn HESS Page 1 of 11

E & E Project #: B46000 Date: 11/13/97

Project or Site Name: Brownfield; East Ferry

Laboratory Name: E & E ASC

Laboratory Report #: 9702.590 Report Date: 11/12/97

Date Sample(s) Taken: 10/23/97 Sample Matrix: Leasaders

Client Sample ID: MWRI-00-WR102397, MWEF-03RK-1002397, 010B, 040B, MWEF-010B-W0102397-F & 040B-W0102397-F

Analytical Parameters: VOC(95-1), BNA(95-2) P/PCB(95-3) Metals(CLP-m)

The DUSR was prepared by reviewing and evaluating the analytical data per the guidelines from the Division of Hazardous Waste Remediation. Revision 11/95. The following checklist has been designed to ensure a thorough and complete review of the analytical results based on the requirements in these guidelines. The analytical results are considered valid and usable for the purposes of this project. with any exceptions addressed in the Data Deficiencies Comments section below.

Data Verification Parameters

CIRCLE ONE

- 1) Were statements made in the Analytical Data Case Narrative supported by the analytical data? ☒ Yes ☐ No ☐ NA
- 2) Were all chain of custody records present? ☒ Yes ☐ No ☐ NA
- 3) Were are chain of custody records completed? ☒ Yes ☐ No ☐ NA
- 4) Were the analysis run as per the method in the work plan? ☒ Yes ☐ No ☐ NA
- 5) Were the required holding times met for all matrices and analytical parameters? ☒ Yes ☐ No ☐ NA
- 6) Were samples correctly preserved? ☒ Yes ☐ No ☐ NA
- 7) Was Sample preservation documented? ☒ Yes ☐ No ☐ NA
- 8) Were performance checks within acceptance criteria? ☒ Yes ☐ No ☐ NA
- 9) Were the initial and continuing calibrations performed at the

Ecology and Environment, Inc. (E & E)
Data Usability Summary Report (DUSR)

Laboratory Report #: 9702.590

Page 2 of 3

Data Verification Parameters

CIRCLE ONE

- 10) Were the initial and continuing calibrations within the acceptance criteria?
- 11) No qualification of data was required based on calibration criteria not being met?
- 12) Were method blanks free of contaminants?
- 13) Were field blanks free of contaminants?
- 14) Were system monitoring compounds within the acceptance limits?
- 15) Were matrix spike matrix spike duplicates or matrix duplicate (MS/ MSD or D) analyzed at the correct frequency?
- 16) Did the MS/MSD or MS/D meet the percent recovery (%R) and relative percent difference (RPD) acceptance criteria?
- 17) Was the laboratory control sample (LCS) and when necessary, the LCS duplicate (LCSD), performed at the required frequency?
- 18) Did the LCS/LCSD's meet the %R and RPD acceptance criteria?
- 19) Did internal standards meet the acceptance criteria?
- 20) Did the results for any field duplicate samples meet expected precision requirements?
- 21) Were dilutions made appropriately?
- 22) No discrepancies were noted when the review of raw data (instrument printouts and chromatograms) was performed?
- 23) No quality control problems were noted in the review of the Field Sampling Notes?
- 24) No effect on data usability was required based on quality control problems in the field?

Yes ☒ No ☐ NA ☐

☒ Yes ☐ No ☐ NA

Yes (No) NA

Yes ☒ No ☐ NA ☐

☒ Yes ☐ No ☐ NA

☒ Yes ☐ No ☐ NA

☒ Yes ☐ No ☐ NA

☒ Yes ☐ No ☐ NA

Yes ☒ No ☐ NA ☐

☒ Yes ☐ No ☐ NA

Yes No (NA)

Yes No NA

☒ Yes ☐ No ☐ NA

Yes No NA

(Yes) No NA

Ecology and Environment, Inc., (E & E)
Data Usability Summary Report (DUSR)

Laboratory Report #: 9702.590

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If NO to any of the above questions, give further explanation in the Comments section.

Comments: VOC #13 CS₂ @ 31 mg/L

BNA #10 & 11) see attached, noqual

#18) pyrene @ %R 135 (26-127) all ND noqual

P/PCB #10 & 11) all ND noqual. (see attached)

#18) see attached, noqual

Metals Cu

#12) PB >IDL <CRDL

Cd 0.198

Ca 173.4

Fe 21.93

Pb 1.919

K 336.1

#13) OOWR

Cd 0.13

Ca 201

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

407H

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.590 SAS No.:

SDG No.: 76456

Instrument ID: 7002B

Calibration date: 11/02/97 Time: 0729

Lab File ID: B5361

Init. Calib. Date(s): 10/22/97 10/22/97

Init. Calib. Times: 1101 1553

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.362	1.510		-10.9	
4-Chlorophenyl-phenylether	0.639	0.672	0.400	-5.2	25.0
Fluorene	1.219	1.255	0.900	-3.0	25.0
4-Nitroaniline	0.145	0.208		-43.4	
4,6-Dinitro-2-methylphenol	0.131	0.170		-29.8	
N-Nitrosodiphenylamine (1)	0.471	0.565		-20.0	
4-Bromophenyl-phenylether	0.248	0.285	0.100	-14.9	25.0
Hexachlorobenzene	0.315	0.378	0.100	-20.0	25.0
Pentachlorophenol	0.188	0.203	0.050	-8.0	25.0
Phenanthrene	1.086	1.122	0.700	-3.3	25.0
Anthracene	1.057	1.070	0.700	-1.2	25.0
Carbazole	0.459	0.715		-55.8	
Di-n-Butylphthalate	1.366	1.505		-10.2	
Fluoranthene	1.037	1.012	0.600	2.4	25.0
Pyrene	1.748	2.226	0.600	-27.4	25.0
Butylbenzylphthalate	0.890	1.105		-24.2	
3,3'-Dichlorobenzidine	0.126	0.190		-50.8	
Benzo(a)Anthracene	1.126	1.368	0.800	-21.5	25.0
Chrysene	1.008	1.200	0.700	-19.0	25.0
bis(2-Ethylhexyl)Phthalate	1.180	1.351		-14.5	
Di-n-Octyl Phthalate	2.582	2.833		-9.7	
Benzo(b)Fluoranthene	1.381	1.354	0.700	2.0	25.0
Benzo(k)Fluoranthene	1.344	1.562	0.700	-16.2	25.0
Benzo(a)Pyrene	1.013	1.064	0.700	-5.0	25.0
Indeno(1,2,3-cd)Pyrene	0.928	0.933	0.500	-0.5	25.0
Dibenz(a,h)Anthracene	0.739	0.675	0.400	8.7	25.0
Benzo(g,h,i)Perylene	0.773	0.806	0.500	-4.3	25.0
Nitrobenzene-d5	0.401	0.483	0.200	-20.4	25.0
2-Fluorobiphenyl	1.243	1.424	0.700	-14.6	25.0
Terphenyl-d14	1.259	1.754	0.500	-39.3	25.0
Phenol-d5	1.454	1.613	0.800	-10.9	25.0
2-Fluorophenol	1.160	1.293	0.600	-11.5	25.0
2,4,6-Tribromophenol	0.269	0.291		-8.2	
2-Chlorophenol-d4	1.197	1.348	0.800	-12.6	25.0
1,2-Dichlorobenzene-d4	0.850	0.971	0.400	-14.2	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

SBLKN1 all not required

5011

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: E & E INC. Contract:
Lab Code: EANDE Case No.: 9702.590 SAS No.: SDG No.: 76456
GC Column: RTX-5 ID: 0.53 (mm) Init. Calib. Date(s): 10/28/97 10/29/97
DEC Sample No. (PIBLK): PIBLBK4 Date Analyzed : 10/29/97
Lab Sample ID (PIBLK): PIBLBK4 Time Analyzed : 2333
DEC Sample No. (PEM): PEMB3 Date Analyzed : 10/30/97
Lab Sample ID (PEM): PEMB3 Time Analyzed : 0016

PEM COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	12.30	12.25	12.35	0.016	0.020	-20.0
beta-BHC	13.23	13.18	13.28	0.022	0.020	10.0
gamma-BHC (Lindane)	13.49	13.44	13.54	0.017	0.020	-15.0
Endrin	21.98	21.91	22.05	0.109	0.100	9.0
4,4'-DDT	23.74	23.67	23.81	0.222	0.200	11.0
Methoxychlor	25.67	25.60	25.74	0.662	0.500	32.4

↑

4,4'-DDT % breakdown (1): 2.8 Endrin % breakdown (1): 2.1
Combined % breakdown (1): 4.9

60/11

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: E & E INC. Contract:
Lab Code: EANDE Case No.: 9702.590 SAS No.: SDG No.: 76456
GC Column: RTX-5 ID: 0.53 (mm) Init. Calib. Date(s): 10/28/97 10/29/97
DEC Sample No. (PIBLK): PIBLBK3 Date Analyzed : 10/29/97
Lab Sample ID (PIBLK): PIBLBK3 Time Analyzed : 1203
DEC Sample No. (INDA): INDAMB2 Date Analyzed : 10/29/97
Lab Sample ID (INDA): INDAMB2 Time Analyzed : 1246

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	12.30	12.25	12.35	0.0406	0.0400	1
gamma-BHC (Lindane)	13.50	13.44	13.54	0.0412	0.0400	3.1
Heptachlor	16.14	16.09	16.19	0.0467	0.0400	16.8
Endosulfan I	20.22	20.15	20.29	0.0396	0.0400	-1.0
Dieldrin	21.16	21.09	21.23	0.0820	0.0800	2.5
Endrin	21.98	21.91	22.05	0.0859	0.0800	7.4
4,4'-DDD	22.40	22.33	22.47	0.102	0.0800	27.5
4,4'-DDT	23.74	23.67	23.81	0.0923	0.0800	15.4
Methoxychlor	25.67	25.60	25.74	0.547	0.400	36.8
Tetrachloro-m-xylene	10.86	10.81	10.91	0.0397	0.0400	-0.8
Decachlorobiphenyl	33.32	33.22	33.42	0.0845	0.0800	5.6

DEC Sample No. (INDB): INDBMB2 Date Analyzed : 10/29/97
Lab Sample ID (INDB): INDBMB2 Time Analyzed : 1329

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	13.23	13.18	13.28	0.0420	0.0400	5.0
delta-BHC	14.31	14.26	14.36	0.0439	0.0400	9.8
Aldrin	17.45	17.40	17.50	0.0406	0.0400	1.5
Heptachlor epoxide	18.88	18.81	18.95	0.0401	0.0400	0.2
4,4'-DDE	20.89	20.82	20.96	0.0902	0.0800	12.8
Endosulfan II	22.28	22.21	22.35	0.0859	0.0800	7.4
Endosulfan sulfate	23.77	23.70	23.84	0.104	0.0800	30.0
Endrin ketone	25.50	25.43	25.57	0.0968	0.0800	21.0
Endrin aldehyde	22.94	22.87	23.01	0.0888	0.0800	11.0
alpha-Chlordane	20.28	20.21	20.35	0.0408	0.0400	2.0
gamma-Chlordane	19.73	19.66	19.80	0.0409	0.0400	2.2
Tetrachloro-m-xylene	10.86	10.81	10.91	0.0416	0.0400	4.0
Decachlorobiphenyl	33.32	33.22	33.42	0.0854	0.0800	6.8

10/11

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: E & E INC. Contract:
Lab Code: EANDE Case No.: 9702.590 SAS No.: SDG No.: 76456
GC Column: RTX-5 ID: 0.53 (mm) Init. Calib. Date(s): 10/28/97 10/29/97
DEC Sample No. (PIBLK): PIBLBK5 Date Analyzed : 10/30/97
Lab Sample ID (PIBLK): PIBLBK5 Time Analyzed : 0728
DEC Sample No. (INDA): INDAMB3 Date Analyzed : 10/30/97
Lab Sample ID (INDA): INDAMB3 Time Analyzed : 0811

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	12.30	12.25 12.35	0.0372	0.0400	-7.0
gamma-BHC (Lindane)	13.49	13.44 13.54	0.0384	0.0400	-4.0
Heptachlor	16.14	16.09 16.19	0.0491	0.0400	22.8
Endosulfan I	20.22	20.15 20.29	0.0376	0.0400	-6.0
Dieldrin	21.16	21.09 21.23	0.0779	0.0800	-2.6
Endrin	21.98	21.91 22.05	0.0815	0.0800	1.9
4,4'-DDD	22.40	22.33 22.47	0.0974	0.0800	21.8
4,4'-DDT	23.74	23.67 23.81	0.0866	0.0800	8.2
Methoxychlor	25.67	25.60 25.74	0.520	0.400	30.0
Tetrachloro-m-xylene	10.86	10.81 10.91	0.0369	0.0400	-7.8
Decachlorobiphenyl	33.31	33.22 33.42	0.0815	0.0800	1.9

DEC Sample No. (INDB): INDBMB3 Date Analyzed : 10/30/97
Lab Sample ID (INDB): INDBMB3 Time Analyzed : 0854

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	13.22	13.18 13.28	0.0390	0.0400	-2.5
delta-BHC	14.31	14.26 14.36	0.0410	0.0400	2.5
Aldrin	17.44	17.40 17.50	0.0378	0.0400	-5.5
Heptachlor epoxide	18.87	18.81 18.95	0.0376	0.0400	-6.0
4,4'-DDE	20.89	20.82 20.96	0.0847	0.0800	5.9
Endosulfan II	22.28	22.21 22.35	0.0822	0.0800	2.8
Endosulfan sulfate	23.76	23.70 23.84	0.107	0.0800	33.8
Endrin ketone	25.49	25.43 25.57	0.0997	0.0800	24.6
Endrin aldehyde	22.93	22.87 23.01	0.0837	0.0800	4.6
alpha-Chlordane	20.28	20.21 20.35	0.0383	0.0400	-4.2
gamma-Chlordane	19.72	19.66 19.80	0.0384	0.0400	-4.0
Tetrachloro-m-xylene	10.86	10.81 10.91	0.0395	0.0400	-1.2
Decachlorobiphenyl	33.30	33.22 33.42	0.0824	0.0800	3.0

8011

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: E & E INC. Contract:
Lab Code: EANDE Case No.: 9702.590 SAS No.: SDG No.: 76456
GC Column: RTX-5 ID: 0.53(mm) Init. Calib. Date(s): 10/28/97 10/29/97
DEC Sample No. (PIBLK): PIBLBK7 Date Analyzed : 10/31/97
Lab Sample ID (PIBLK): PIBLBK7 Time Analyzed : 0706
DEC Sample No. (INDA): INDAMB4 Date Analyzed : 10/31/97
Lab Sample ID (INDA): INDAMB4 Time Analyzed : 0749

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	12.29	12.25	12.35	0.0375	0.0400	-6.
gamma-BHC (Lindane)	13.49	13.44	13.54	0.0384	0.0400	-4.
Heptachlor	16.13	16.09	16.19	0.0460	0.0400	15.0
Endosulfan I	20.21	20.15	20.29	0.0374	0.0400	-6.5
Dieldrin	21.16	21.09	21.23	0.0780	0.0800	-2.5
Endrin	21.97	21.91	22.05	0.0806	0.0800	0.8
4,4'-DDD	22.40	22.33	22.47	0.107	0.0800	33.8
4,4'-DDT	23.73	23.67	23.81	0.0798	0.0800	-0.2
Methoxychlor	25.67	25.60	25.74	0.521	0.400	30.2
Tetrachloro-m-xylene	10.86	10.81	10.91	0.0369	0.0400	-7.8
Decachlorobiphenyl	33.30	33.22	33.42	0.0813	0.0800	1.6

DEC Sample No. (INDB): INDBMB4 Date Analyzed : 10/31/97
Lab Sample ID (INDB): INDBMB4 Time Analyzed : 0832

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	13.23	13.18	13.28	0.0382	0.0400	-4.5
delta-BHC	14.31	14.26	14.36	0.0399	0.0400	-0.2
Aldrin	17.45	17.40	17.50	0.0368	0.0400	-8.0
Heptachlor epoxide	18.88	18.81	18.95	0.0364	0.0400	-9.0
4,4'-DDE	20.89	20.82	20.96	0.0836	0.0800	4.5
Endosulfan II	22.28	22.21	22.35	0.0799	0.0800	-0.1
Endosulfan sulfate	23.77	23.70	23.84	0.104	0.0800	30.0
Endrin ketone	25.50	25.43	25.57	0.0973	0.0800	21.6
Endrin aldehyde	22.94	22.87	23.01	0.0825	0.0800	3.1
alpha-Chlordane	20.28	20.21	20.35	0.0375	0.0400	-6.2
gamma-Chlordane	19.73	19.66	19.80	0.0378	0.0400	-5.5
Tetrachloro-m-xylene	10.86	10.81	10.91	0.0384	0.0400	-4.0
Decachlorobiphenyl	33.32	33.22	33.42	0.0818	0.0800	2.2

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7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: E & E INC. Contract:
Lab Code: EANDE Case No.: 9702.590 SAS No.: SDG No.: 76456
GC Column: RTX-35 ID: 0.53 (mm) Init. Calib. Date(s): 10/28/97 10/29/97
DEC Sample No. (PIBLK): PIBLBK5 Date Analyzed : 10/30/97
Lab Sample ID (PIBLK): PIBLBK5 Time Analyzed : 0728
DEC Sample No. (INDA): INDAMB3 Date Analyzed : 10/30/97
Lab Sample ID (INDA): INDAMB3 Time Analyzed : 0811

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
alpha-BHC	10.86	10.81	10.91	0.0403	0.0400	0.8
gamma-BHC (Lindane)	12.26	12.22	12.32	0.0414	0.0400	3.5
Heptachlor	13.69	13.64	13.74	0.0487	0.0400	21.8
Endosulfan I	18.18	18.11	18.25	0.0407	0.0400	1.8
Dieldrin	19.24	19.17	19.31	0.0860	0.0800	7.5
Endrin	20.44	20.37	20.51	0.0860	0.0800	7.5
4,4'-DDD	20.96	20.89	21.03	0.0972	0.0800	21.5
4,4'-DDT	22.05	21.98	22.12	0.0878	0.0800	9.8
Methoxychlor	24.86	24.79	24.93	0.499	0.400	24.8
Tetrachloro-m-xylene	8.47	8.42	8.52	0.0385	0.0400	-3.8
Decachlorobiphenyl	29.95	29.86	30.06	0.0828	0.0800	3.5

DEC Sample No. (INDB): INDBMB3 Date Analyzed : 10/30/97
Lab Sample ID (INDB): INDBMB3 Time Analyzed : 0854

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
beta-BHC	12.58	12.53	12.63	0.0419	0.0400	4.8
delta-BHC	13.87	13.82	13.92	0.0443	0.0400	10.8
Aldrin	14.88	14.83	14.93	0.0406	0.0400	1.5
Heptachlor epoxide	16.88	16.81	16.95	0.0410	0.0400	2.5
4,4'-DDE	19.01	18.94	19.08	0.0833	0.0800	4.1
Endosulfan II	21.10	21.04	21.18	0.0874	0.0800	9.2
Endosulfan sulfate	22.74	22.68	22.82	0.0938	0.0800	17.2
Endrin ketone	25.14	25.07	25.21	0.107	0.0800	33.8
Endrin aldehyde	22.17	22.10	22.24	0.0873	0.0800	9.1
alpha-Chlordane	18.13	18.07	18.21	0.0407	0.0400	1.8
gamma-Chlordane	17.58	17.52	17.66	0.0409	0.0400	2.2
Tetrachloro-m-xylene	8.47	8.42	8.52	0.0405	0.0400	1.2
Decachlorobiphenyl	29.95	29.86	30.06	0.0838	0.0800	4.8

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7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.590

SAS No.:

SDG No.: 76456

GC Column: RTX-35

ID: 0.53(mm)

Init. Calib. Date(s): 10/28/97 10/29/97

DEC Sample No. (PIBLK): PIBLBK7

Date Analyzed : 10/31/97

Lab Sample ID (PIBLK): PIBLBK7

Time Analyzed : 0706

DEC Sample No. (INDA): INDAMB4

Date Analyzed : 10/31/97

Lab Sample ID (INDA): INDAMB4

Time Analyzed : 0749

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	10.85	10.81	10.91	0.0414	0.0400	3
gamma-BHC (Lindane)	12.26	12.22	12.32	0.0425	0.0400	6..
Heptachlor	13.68	13.64	13.74	0.0511	0.0400	27.8
Endosulfan I	18.17	18.11	18.25	0.0413	0.0400	3.2
Dieldrin	19.24	19.17	19.31	0.0878	0.0800	9.8
Endrin	20.43	20.37	20.51	0.0871	0.0800	8.9
4,4'-DDD	20.95	20.89	21.03	0.106	0.0800	32.5
4,4'-DDT	22.04	21.98	22.12	0.0765	0.0800	-4.4
Methoxychlor	24.85	24.79	24.93	0.495	0.400	23.8
Tetrachloro-m-xylene	8.47	8.42	8.52	0.0393	0.0400	-1.8
Decachlorobiphenyl	29.95	29.86	30.06	0.0838	0.0800	4.8

DEC Sample No. (INDB): INDBMB4

Date Analyzed : 10/31/97

Lab Sample ID (INDB): INDBMB4

Time Analyzed : 0832

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	12.58	12.53	12.63	0.0417	0.0400	4.2
delta-BHC	13.87	13.82	13.92	0.0439	0.0400	9.8
Aldrin	14.88	14.83	14.93	0.0402	0.0400	0.5
Heptachlor epoxide	16.88	16.81	16.95	0.0405	0.0400	1.2
4,4'-DDE	19.01	18.94	19.08	0.0822	0.0800	2.8
Endosulfan II	21.10	21.04	21.18	0.0878	0.0800	9.8
Endosulfan sulfate	22.75	22.68	22.82	0.0923	0.0800	15.4
Endrin ketone	25.14	25.07	25.21	0.105	0.0800	31.2
Endrin aldehyde	22.17	22.10	22.24	0.0872	0.0800	9.0
alpha-Chlordane	18.14	18.07	18.21	0.0403	0.0400	0.8
gamma-Chlordane	17.59	17.52	17.66	0.0406	0.0400	1.5
Tetrachloro-m-xylene	8.47	8.42	8.52	0.0401	0.0400	0.2
Decachlorobiphenyl	29.96	29.86	30.06	0.0838	0.0800	4.8

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3E
WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: E & E INC.

Contract:

Lab Code: EAND Case No: 9702.590 SAS No.:

SDG No.: 76456

Marix Spike - EPA Sample No.: MSBW1

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	#	QC LIMITS REC.
gamma-BHC(Lindane)	0.50	0	0.78	156	*	56-123
Heptachlor	0.50	0	0.77	154	*	40-131
Aldrin	0.50	0	0.71	142	*	40-120
Dieldrin	1.00	0	1.60	160	*	52-126
Endrin	1.00	0	1.70	170	*	56-121
4,4'-DDT	1.00	0	1.60	160	*	38-127

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

* Values outside of QC limits

Spike Recovery: 6 out of 6 outside limits

COMMENTS:

all high
all ND
no equal
suspect 2x spikes
added.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

00

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.590 SAS No.:

SDG No.: 76456

Matrix: (soil/water) WATER

Lab Sample ID: 76456

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F2325

Level: (low/med) LOW

Date Received: 10/23/97

% Moisture: not dec.

Date Analyzed: 10/28/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

03RK

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.590 SAS No.:

SDG No.: 76456

Matrix: (soil/water) WATER

Lab Sample ID: 76457

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F2326

Level: (low/med) LOW

Date Received: 10/23/97

% Moisture: not dec.

Date Analyzed: 10/28/97

GC Column: DB-624

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	10	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	10	U
124-48-1-----	Dibromochloromethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	270	E
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-88-3-----	Toluene	10	U
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylene (total)	10	U

R

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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

Lab Name: E & E INC.

Contract:

00

Lab Code: EANDE

Case No.: 9702.590 SAS No.:

SDG No.: 76456

Matrix: (soil/water) WATER

Lab Sample ID: 76456

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

Lab File ID: B5375

Level: (low/med) LOW

Date Received: 10/23/97

% Moisture: decanted: (Y/N)

Date Extracted: 10/27/97

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/04/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) Ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy) Methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-Methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	25	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U

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1C
EMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

00

& E INC.

Contract:

ANDE Case No.: 9702.590 SAS No.: SDG No.: 76456

il/water) WATER Lab Sample ID: 76456

ol: 1000 (g/mL) ML Lab File ID: B5375

low/med) LOW Date Received: 10/23/97

decanted: (Y/N) Date Extracted: 10/27/97

d Extract Volume: 1000 (uL) Date Analyzed: 11/04/97

olume: 2.0 (uL) Dilution Factor: 1.0

: (Y/N) N pH:

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

NO. COMPOUND Q

64-9-----	Dibenzofuran	10	U
14-2-----	2,4-Dinitrotoluene	10	U
6-2-----	Diethylphthalate	10	U
-72-3-----	4-Chlorophenyl-phenylether	10	U
3-7-----	Fluorene	10	U
100-01-6-----	4-Nitroaniline	25	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
36-30-6-----	N-Nitrosodiphenylamine (1)	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
25-01-8-----	Phenanthrene	10	U
12-7-----	Anthracene	10	U
4-8-----	Carbazole	10	U
4-2-----	Di-n-Butylphthalate	10	U
44-0-----	Fluoranthene	10	U
00-0-----	Pyrene	10	U
8-7-----	Butylbenzylphthalate	10	U
4-1-----	3,3'-Dichlorobenzidine	10	U
5-3-----	Benzo(a)Anthracene	10	U
01-9-----	Chrysene	10	U
81-7-----	bis(2-Ethylhexyl)Phthalate	10	U
84-0-----	Di-n-Octyl Phthalate	10	U
99-2-----	Benzo(b)Fluoranthene	10	U
08-9-----	Benzo(k)Fluoranthene	10	U
32-8-----	Benzo(a)Pyrene	10	U
39-5-----	Indeno(1,2,3-cd)Pyrene	10	U
70-3-----	Dibenz(a,h)Anthracene	10	U
24-2-----	Benzo(g,h,i)Perylene	10	U

Cannot be separated from Diphenylamine

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

03RKDL

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.590 SAS No.:

SDG No.: 76456

Matrix: (soil/water) WATER

Lab Sample ID: 76457DL

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F2339

Level: (low/med) LOW

Date Received: 10/23/97

% Moisture: not dec.

Date Analyzed: 10/28/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 2.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3-----	Chloromethane	20	U
74-83-9-----	Bromomethane	20	U
75-01-4-----	Vinyl Chloride	20	U
75-00-3-----	Chloroethane	20	U
75-09-2-----	Methylene Chloride	20	U
67-64-1-----	Acetone	29	D
75-15-0-----	Carbon Disulfide	20	U
75-35-4-----	1,1-Dichloroethene	20	U
75-34-3-----	1,1-Dichloroethane	20	U
540-59-0-----	1,2-Dichloroethene (total)	20	U
67-66-3-----	Chloroform	20	U
107-06-2-----	1,2-Dichloroethane	20	U
78-93-3-----	2-Butanone	20	U
71-55-6-----	1,1,1-Trichloroethane	20	U
56-23-5-----	Carbon Tetrachloride	20	U
75-27-4-----	Bromodichloromethane	20	U
78-87-5-----	1,2-Dichloropropane	20	U
10061-01-5-----	cis-1,3-Dichloropropene	20	U
79-01-6-----	Trichloroethene	20	U
124-48-1-----	Dibromochloromethane	20	U
79-00-5-----	1,1,2-Trichloroethane	20	U
71-43-2-----	Benzene	260	D
10061-02-6-----	trans-1,3-Dichloropropene	20	U
75-25-2-----	Bromoform	20	U
108-10-1-----	4-Methyl-2-Pentanone	20	U
591-78-6-----	2-Hexanone	20	U
127-18-4-----	Tetrachloroethene	20	U
79-34-5-----	1,1,2,2-Tetrachloroethane	20	U
108-88-3-----	Toluene	20	U
108-90-7-----	Chlorobenzene	20	U
100-41-4-----	Ethylbenzene	20	U
100-42-5-----	Styrene	20	U
1330-20-7-----	Xylene (total)	20	U

R

1/2

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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

03RK

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.590 SAS No.:

SDG No.: 76456

Matrix: (soil/water) WATER

Lab Sample ID: 76457

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

Lab File ID: B5376

Level: (low/med) LOW

Date Received: 10/23/97

% Moisture: decanted: (Y/N)

Date Extracted: 10/27/97

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/04/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) Ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy)Methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-Methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	25	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U

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1C
SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

03RK

Lab Name: & E INC. Contract: _____

Lab Code: ANDE Case No.: 9702.590 SAS No.: _____ SDG No.: 76456

Matrix: oil/water) WATER Lab Sample ID: 76457

Sample Vol: 1000 (g/mL) ML Lab File ID: B5376

Level: low/med) LOW Date Received: 10/23/97

% Moisture: decanted: (Y/N) Date Extracted: 10/27/97

Concentration: d Extract Volume: 1000 (uL) Date Analyzed: 11/04/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Column: (Y/N) N pH: _____

NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
64-9-----	Dibenzofuran	10	U
14-2-----	2,4-Dinitrotoluene	10	U
6-2-----	Diethylphthalate	10	U
-72-3-----	4-Chlorophenyl-phenylether	10	U
3-7-----	Fluorene	10	U
100-01-6-----	4-Nitroaniline	25	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
36-30-6-----	N-Nitrosodiphenylamine (1)	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	6	J
1-8-----	Phenanthrene	10	U
12-7-----	Anthracene	10	U
4-8-----	Carbazole	10	U
4-2-----	Di-n-Butylphthalate	10	U
44-0-----	Fluoranthene	10	U
00-0-----	Pyrene	10	U
8-7-----	Butylbenzylphthalate	10	U
4-1-----	3,3'-Dichlorobenzidine	10	U
5-3-----	Benzo(a)Anthracene	10	U
01-9-----	Chrysene	10	U
81-7-----	bis(2-Ethylhexyl)Phthalate	2	J
84-0-----	Di-n-Octyl Phthalate	10	U
99-2-----	Benzo(b)Fluoranthene	10	U
08-9-----	Benzo(k)Fluoranthene	10	U
2-8-----	Benzo(a)Pyrene	10	U
39-5-----	Indeno(1,2,3-cd)Pyrene	10	U
10-3-----	Dibenz(a,h)Anthracene	10	U
24-2-----	Benzo(g,h,i)Perylene	10	U
Cannot be separated from Diphenylamine			

1F
SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

03RK

& E INC.

Contract:

ANDE Case No.: 9702.590 SAS No.: SDG No.: 76456

il/water) WATER

Lab Sample ID: 76457

ol: 1000 (g/mL) ML

Lab File ID: B5376

low/med) LOW

Date Received: 10/23/97

decanted: (Y/N)

Date Extracted: 10/27/97

d Extract Volume: 1000 (uL)

Date Analyzed: 11/04/97

olume: 2.0 (uL)

Dilution Factor: 1.0

: (Y/N) N pH:

found: 6

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

ER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
	Unknown	17.09	2	J
34-9	Pharmaceutical sulfer	20.50	15	JN
3.	Unknown carboxylic acid	20.63	16	J
4. 44-63-8	Tetradecanoic acid	23.61	8	JN
5. 0544-50-0	Sulfur, mol. (S8)	27.85	1400	JN
6.	Unknown oxygenated hydrocarb	31.17	8	J

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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

00

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.590

SAS No.:

SDG No.: 76456

Matrix: (soil/water) WATER

Lab Sample ID: 76456

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

Lab File ID:

% Moisture: decanted: (Y/N)

Date Received: 10/23/97

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 10/27/97

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 10/29/97

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) Y

CAS NO.

COMPOUND

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

Q

319-84-6-----	alpha-BHC	0.050	U
319-85-7-----	beta-BHC	0.050	U
319-86-8-----	delta-BHC	0.050	U
58-89-9-----	gamma-BHC (Lindane)	0.050	U
76-44-8-----	Heptachlor	0.050	U
309-00-2-----	Aldrin	0.050	U
1024-57-3-----	Heptachlor epoxide	0.050	U
959-98-8-----	Endosulfan I	0.050	U
60-57-1-----	Dieldrin	0.10	U
72-55-9-----	4,4'-DDE	0.10	U
72-20-8-----	Endrin	0.10	U
33213-65-9-----	Endosulfan II	0.10	U
72-54-8-----	4,4'-DDD	0.10	U
1031-07-8-----	Endosulfan sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.10	U
72-43-5-----	Methoxychlor	0.50	U
53494-70-5-----	Endrin ketone	0.10	U
7421-93-4-----	Endrin aldehyde	0.10	U
5103-71-9-----	alpha-Chlordane	0.050	U
5103-74-2-----	gamma-Chlordane	0.050	U
8001-35-2-----	Toxaphene	5.0	U
12674-11-2-----	Aroclor-1016	1.0	U
11104-28-2-----	Aroclor-1221	2.0	U
11141-16-5-----	Aroclor-1232	1.0	U
53469-21-9-----	Aroclor-1242	1.0	U
12672-29-6-----	Aroclor-1248	1.0	U
11097-69-1-----	Aroclor-1254	1.0	U
11096-82-5-----	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

03RK

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.590

SAS No.:

SDG No.: 76456

Matrix: (soil/water) WATER

Lab Sample ID: 76457

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

Lab File ID:

% Moisture: decanted: (Y/N)

Date Received: 10/23/97

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 10/27/97

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 10/31/97

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) Y

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

319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1
INORGANIC ANALYSES DATA SHEET

00WR

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____
Lab Code: EANDE Case No.: 9702.590 SAS No.: _____ SDG No.: 76456
Matrix (soil/water): WATER Lab Sample ID: 76456
Level (low/med): LOW Date Received: 10/23/97
% Solids: 0.0

[illegible]

Color Before: CL_____ Clarity Before: C_____ Texture: _____
Color After: CL_____ Clarity After: C_____ Artifacts: _____

CLIENT SAMPLE ID : MWRI-00-WR102397

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1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

10BWO

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____
 Lab Code: EANDE Case No.: 9702.590 SAS No.: _____ SDG No.: 76456
 Matrix (soil/water): WATER Lab Sample ID: 76458
 Level (low/med): LOW Date Received: 10/23/97
 % Solids: 0.0

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

[illegible]

Color Before: CL_____ Clarity Before: C_____ Texture: _____
Color After: CL_____ Clarity After: C_____ Artifacts: _____

Comments:

CLIENT SAMPLE ID : MWRI-010B-WO102397

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1
INORGANIC ANALYSES DATA SHEET

10BWOE

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

[illegible]

Texture: _____
Artifacts: _____

CLIENT SAMPLE ID : MWRI-01OB-WO102397-F

The suffix "F" represents the filtered analysis

NYSDEC - CLP

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

3RKWO

Lab Name: ECOLOGY AND ENVIRONMENT Contract: _____
Lab Code: EANDE Case No.: 9702.590 SAS No.: _____ SDG No.: 76456
Matrix (soil/water): WATER Lab Sample ID: 76457
Level (low/med): LOW Date Received: 10/23/97
% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide	1140.0			CA

Color Before: CL _____ Clarity Before: C _____ Texture: _____
Color After: CL _____ Clarity After: C _____ Artifacts: _____

Comments:

CLIENT_SAMPLE_ID : MWRI-03RK-WO102397

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1
INORGANIC ANALYSES DATA SHEET

4 OBWO

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

[illegible]

Comments:

CLIENT SAMPLE ID : MWRI-04OB-WO102397

1
INORGANIC ANALYSES DATA SHEET

4OBWOF

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____
Lab Code: EANDE Case No.: 9702.590 SAS No.: _____ SDG No.: 76456
Matrix (soil/water): WATER Lab Sample ID: 76461
Level (low/med): LOW Date Received: 10/23/97
% Solids: 0.0

[illegible]

Color Before: CL_____ Clarity Before: C_____ Texture: _____
Color After: CL_____ Clarity After: C_____ Artifacts: _____

CLIENT SAMPLE ID : MWRI-040B-W0102397-F

The suffix "F" represents the filtered analysis

10/95

**Ecology and Environment, Inc., (E & E)
Data Usability Summary Report (DUSR)**

Prepared by: Lynn HESS Page 1 of 8
 E & E Project #: BY 6000 Date: 11/13/97
 Project or Site Name: Buffalo Brownfields : East Ferry
 Laboratory Name: E&E ASC
 Laboratory Report #: 9702.576 Report Date: 11/12/97
 Date Sample(s) Taken: 10/02/97 Sample Matrix: 3 waters
 Client Sample ID: mWEF-02BK-W0102297, -E10B, -040B,
 Analytical Parameters: VOC (95-1), BNA (95-2), P/PCB (95-3), Metals (CLP-m)

The DUSR was prepared by reviewing and evaluating the analytical data per the guidelines from the Division of Hazardous Waste Remediation, Revision 11/95. The following checklist has been designed to ensure a thorough and complete review of the analytical results based on the requirements in these guidelines. The analytical results are considered valid and usable for the purposes of this project, with any exceptions addressed in the Data Deficiencies Comments section below.

Data Verification Parameters

- 1) Were statements made in the Analytical Data Case Narrative supported by the analytical data?
- 2) Were all chain of custody records present?
- 3) Were are chain of custody records completed?
- 4) Were the analysis run as per the method in the work plan?
- 5) Were the required holding times met for all matrices and analytical parameters?
- 6) Were samples correctly preserved?
- 7) Was Sample preservation documented?
- 8) Were performance checks within acceptance criteria?
- 9) Were the initial and continuing calibrations performed at the required frequency?

CIRCLE ONE

☒ Yes ☐ No ☐ NA
☒ Yes ☐ No ☐ NA
☒ Yes ☐ No ☐ NA
☒ Yes ☐ No ☐ NA
☒ Yes ☐ No ☐ NA
☒ Yes ☐ No ☐ NA
☒ Yes ☐ No ☐ NA
☒ Yes ☐ No ☐ NA
☒ Yes ☐ No ☐ NA

Ecology and Environment, Inc., (E & E)
Data Usability Summary Report (DUSR)

Laboratory Report #: 9702.S16

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Data Verification Parameters

CIRCLE ONE

10) Were the initial and continuing calibrations within the acceptance criteria?	Yes ☐ No ☒ NA
11) No qualification of data was required based on calibration criteria not being met?	Yes ☐ No ☒ NA
12) Were method blanks free of contaminants?	Yes ☐ No ☒ NA
13) Were field blanks free of contaminants?	☒ Yes ☐ No ☐ NA
14) Were system monitoring compounds within the acceptance limits?	☒ Yes ☐ No ☐ NA
15) Were matrix spike/matrix spike duplicates or matrix duplicate (MS/ MSD or D) analyzed at the correct frequency?	☒ Yes ☐ No ☐ NA
16) Did the MS/MSD or MS/D meet the percent recovery (%R) and relative percent difference (RPD) acceptance criteria?	Yes ☐ No ☒ NA
17) Was the laboratory control sample (LCS) and when necessary, the LCS duplicate (LCSD), performed at the required frequency?	☒ Yes ☐ No ☐ NA
18) Did the LCS/LCSD's meet the %R and RPD acceptance criteria?	☒ Yes ☐ No ☐ NA
19) Did internal standards meet the acceptance criteria?	Yes ☐ No ☒ NA
20) Did the results for any field duplicate samples meet expected precision requirements?	Yes ☐ No ☒ NA
21) Were dilutions made appropriately?	Yes ☐ No ☒ NA
22) No discrepancies were noted when the review of raw data (instrument printouts and chromatograms) was performed?	☒ Yes ☐ No ☐ NA
23) No quality control problems were noted in the review of the Field Sampling Notes?	Yes ☐ No ☒ NA
24) No effect on data usability was required based on quality control problems in the field?	☒ Yes ☐ No ☐ NA

Ecology and Environment, Inc., (E & E)
Data Usability Summary Report (DUSR)

Laboratory Report #: 9702.576

Page 3 of 3

If NO to any of the above questions, give further explanation in the Comments section.

Comments: BNA's #12) SBUKW1 BEHP@17 µg/L "B" 010B, 02BK
040B

#10 & 11) B5299 see attached

#16) ms/msd on 02BK pyrene (see attached)

#19) IS V in 02BK MS, no sample qual necessary

PFB #16) see attached, no qual 2012, all 1CS's OK
Metals & Cu

#12) PB >IDL <CRV

Cd 0.198 "U" 02BKW

Ca 173.4

Fe 21.93

Pb 1.919

K 336.1

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

4068

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.576 SAS No.:

SDG No.: 76346

Instrument ID: 7002B

Calibration date: 10/28/97 Time: 1925

Lab File ID: B5299

Init. Calib. Date(s): 10/22/97 10/22/97

Init. Calib. Times: 1101 1553

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.362	1.473		-8.2	
4-Chlorophenyl-phenylether	0.639	0.654	0.400	-2.3	25.0
Fluorene	1.219	1.310	0.900	-7.5	25.0
4-Nitroaniline	0.145	0.238		-64.1	
4,6-Dinitro-2-methylphenol	0.131	0.157		-19.8	
N-Nitrosodiphenylamine (1)	0.471	0.510		-8.3	
4-Bromophenyl-phenylether	0.248	0.251	0.100	-1.2	25.0
Hexachlorobenzene	0.315	0.317	0.100	-0.6	25.0
Pentachlorophenol	0.188	0.189	0.050	-0.5	25.0
Phenanthrene	1.086	1.100	0.700	-1.3	25.0
Anthracene	1.057	1.129	0.700	-6.8	25.0
Carbazole	0.459	0.629		-37.0	
Di-n-Butylphthalate	1.366	1.490		-9.1	
Fluoranthene	1.037	1.071	0.600	-3.3	25.0
Pyrene	1.748	1.934	0.600	-10.6	25.0
Butylbenzylphthalate	0.890	1.014		-13.9	
3,3'-Dichlorobenzidine	0.126	0.204		-61.9	
Benzo(a)Anthracene	1.126	1.289	0.800	-14.5	25.0
Chrysene	1.008	1.180	0.700	-17.1	25.0
bis(2-Ethylhexyl)Phthalate	1.180	1.371		-16.2	
Di-n-Octyl Phthalate	2.582	2.629		-1.8	
Benzo(b)Fluoranthene	1.381	1.580	0.700	-14.4	25.0
Benzo(k)Fluoranthene	1.344	1.414	0.700	-5.2	25.0
Benzo(a)Pyrene	1.013	1.168	0.700	-15.3	25.0
Indeno(1,2,3-cd)Pyrene	0.928	1.259	0.500	-35.7	25.0
Dibenz(a,h)Anthracene	0.739	1.009	0.400	-36.5	25.0
Benzo(g,h,i)Perylene	0.773	1.046	0.500	-35.3	25.0
Nitrobenzene-d5	0.401	0.461	0.200	-15.0	25.0
2-Fluorobiphenyl	1.243	1.317	0.700	-6.0	25.0
Terphenyl-d14	1.259	1.543	0.500	-22.6	25.0
Phenol-d5	1.454	1.506	0.800	-3.6	25.0
2-Fluorophenol	1.160	1.168	0.600	-0.7	25.0
2,4,6-Tribromophenol	0.269	0.274		-1.9	
2-Chlorophenol-d4	1.197	1.241	0.800	-3.7	25.0
1,2-Dichlorobenzene-d4	0.850	0.874	0.400	-2.8	25.0

010B
040m

no equal
ND

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

204

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

50/8

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.576 SAS No.:

SDG No.: 76346

Instrument ID: 7002B

Calibration date: 10/29/97 Time: 2324

Lab File ID: B5325

Init. Calib. Date(s): 10/22/97 10/22/97

Init. Calib. Times: 1101 1553

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.362	1.567		-15.0	
4-Chlorophenyl-phenylether	0.639	0.711	0.400	-11.3	25.0
Fluorene	1.219	1.387	0.900	-13.8	25.0
4-Nitroaniline	0.145	0.241		-66.2	
4,6-Dinitro-2-methylphenol	0.131	0.135		-3.1	
N-Nitrosodiphenylamine (1)	0.471	0.539		-14.4	
4-Bromophenyl-phenylether	0.248	0.262	0.100	-5.6	25.0
Hexachlorobenzene	0.315	0.357	0.100	-13.3	25.0
Pentachlorophenol	0.188	0.153	0.050	18.6	25.0
Phenanthrene	1.086	1.149	0.700	-5.8	25.0
Anthracene	1.057	1.164	0.700	-10.1	25.0
Carbazole	0.459	0.705		-53.6	
Di-n-Butylphthalate	1.366	1.490		-9.1	
Fluoranthene	1.037	1.071	0.600	-3.3	25.0
Pyrene	1.748	2.001	0.600	-14.5	25.0
Butylbenzylphthalate	0.890	1.000		-12.4	
3,3'-Dichlorobenzidine	0.126	0.227		-80.2	
Benzo (a) Anthracene	1.126	1.422	0.800	-26.3	25.0
Chrysene	1.008	1.261	0.700	-25.1	25.0
bis(2-Ethylhexyl) Phthalate	1.180	1.257		-6.5	
Di-n-Octyl Phthalate	2.582	2.200		14.8	
Benzo (b) Fluoranthene	1.381	1.547	0.700	-12.0	25.0
Benzo (k) Fluoranthene	1.344	1.286	0.700	4.3	25.0
Benzo (a) Pyrene	1.013	1.068	0.700	-5.4	25.0
Indeno (1,2,3-cd) Pyrene	0.928	1.040	0.500	-12.1	25.0
Dibenz (a,h) Anthracene	0.739	0.788	0.400	-6.6	25.0
Benzo (g,h,i) Perylene	0.773	0.904	0.500	-17.0	25.0
Nitrobenzene-d5	0.401	0.490	0.200	-22.2	25.0
2-Fluorobiphenyl	1.243	1.448	0.700	-16.5	25.0
Terphenyl-d14	1.259	1.685	0.500	-33.8	25.0
Phenol-d5	1.454	1.669	0.800	-14.8	25.0
2-Fluorophenol	1.160	1.383	0.600	-19.2	25.0
2,4,6-Tribromophenol	0.269	0.271		-0.7	
2-Chlorophenol-d4	1.197	1.387	0.800	-15.9	25.0
1,2-Dichlorobenzene-d4	0.850	0.936	0.400	-10.1	25.0

Q2BK
Q2BKM
Q2BKMS

NO
Pencil
Pencil

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

210

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.576 SAS No.:

SDG No.: 76346

Matrix Spike - DEC Sample No.: 02BK

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Phenol	75.00	0	49.50	66	12-110
2-Chlorophenol	75.00	0	53.00	71	27-123
1,4-Dichlorobenzene	50.00	0	35.15	70	36- 97
N-Nitroso-di-n-prop. (1)	50.00	0	42.45	85	41-116
1,2,4-Trichlorobenzene	50.00	0	39.80	80	39- 98
4-Chloro-3-methylphenol	75.00	0	58.00	77	23- 97
Acenaphthene	50.00	0	47.00	94	46-118
4-Nitrophenol	75.00	0	55.00	73	10- 80
2,4-Dinitrotoluene	50.00	0	42.35	85	24- 96
Pentachlorophenol	75.00	0	69.00	92	9-103
Pyrene	50.00	0	83.00	166 *	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
Phenol	75.00	46.50	62	6	42 12-110
2-Chlorophenol	75.00	51.50	69	3	40 27-123
1,4-Dichlorobenzene	50.00	40.25	80	13	28 36- 97
N-Nitroso-di-n-prop. (1)	50.00	37.70	75	12	38 41-116
1,2,4-Trichlorobenzene	50.00	45.60	91	13	28 39- 98
4-Chloro-3-methylphenol	75.00	52.50	70	10	42 23- 97
Acenaphthene	50.00	47.00	94	0	31 46-118
4-Nitrophenol	75.00	50.50	67	9	50 10- 80
2,4-Dinitrotoluene	50.00	40.35	81	5	38 24- 96
Pentachlorophenol	75.00	70.00	93	1	50 9-103
Pyrene	50.00	46.75	94	55 *	31 26-127

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

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

* Values outside of QC limits

RPD: 1 out of 11 outside limits

Spike Recovery: 1 out of 22 outside limits

COMMENTS: RA 9702.576 76346.03

*no qual
pyrene OK in LC*

103

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

70/18

Lab Name: E & E INC.

Contract: .

Lab Code: EANDE

Case No.: 9702.576 SAS No.:

SDG No.: 76346

Lab File ID (Standard): B5325

Date Analyzed: 10/29/97

Instrument ID: 7002B

Time Analyzed: 2324

	IS4 (PHN)		IS5 (CRY)		IS6 (PRY)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	159426	24.45	83677	32.92	61024	37.32
UPPER LIMIT	318852	24.95	167354	33.42	122048	37.82
LOWER LIMIT	79713	23.95	41838	32.42	30512	36.82
=====	=====	=====	=====	=====	=====	=====
DEC SAMPLE						
NO.						
=====	=====	=====	=====	=====	=====	=====
01 02BK	159207	24.45	76043	32.91	58225	37.32
02 02BKMS	128099	24.44	37581 *	32.89	18876 *	37.29
03 02BKMSD	123920	24.44	65126	32.89	44976	37.32

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = + 100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = +0.50 minutes of internal standard RT.

RT LOWER LIMIT = -0.50 minutes of internal standard RT.

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

* Values outside of QC limits.

8078

3E

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab No. E & E INC.

Contract:

Lab Code EANDE

Case No.: 9702.576

SAS No.:

SDG No.: 76346

Matrix Spike - DEC Sample No.: 02BK

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	0.500	0	0.590	118	56-123
Heptachlor	0.500	0	0.691	138 *	40-131
Alachlor	0.500	0	0.564	113	40-120
Dieldrin	1.000	0	1.18	118	52-126
Endosulfan	1.000	0	1.21	121	56-121
4,4'-DDE	1.000	0	1.04	104	38-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD REC
gamma-BHC (Lindane)	0.500	0.668	134 *	13	15 56-123
Heptachlor	0.500	0.801	160 *	15	31 40-131
Alachlor	0.500	0.657	131 *	15	22 40-120
Dieldrin	1.000	1.36	136 *	14	18 52-126
Endosulfan	1.000	1.40	140 *	15	21 56-121
4,4'-DDE	1.000	1.28	128 *	21	27 38-127

* To be used to flag recovery and RPD values with an asterisk

* Value outside of QC limits

RPD: 6 out of 6 outside limits

Spike recovery: 7 out of 12 outside limits

COMMENT

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

010B

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.576 SAS No.:

SDG No.: 76346

Matrix: (soil/water) WATER

Lab Sample ID: 76347

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: H3449

Level: (low/med) LOW

Date Received: 10/22/97

% Moisture: not dec.

Date Analyzed: 10/24/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	10	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	10	U
124-48-1-----	Dibromochloromethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-88-3-----	Toluene	10	U
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylene (total)	10	U

FORM I VOA

10/95

25

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

02BK

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.576 SAS No.:

SDG No.: 76346

Matrix: (soil/water) WATER

Lab Sample ID: 76346

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: H3446

Level: (low/med) LOW

Date Received: 10/22/97

% Moisture: not dec.

Date Analyzed: 10/24/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	16	
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	10	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	10	U
124-48-1-----	Dibromochloromethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-88-3-----	Toluene	10	U
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylene (total)	10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

040B

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.576 SAS No.:

SDG No.: 76346

Matrix: (soil/water) WATER

Lab Sample ID: 76348

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: H3450

Level: (low/med) LOW

Date Received: 10/22/97

% Moisture: not dec.

Date Analyzed: 10/24/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	10	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	10	U
124-48-1-----	Dibromochloromethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-88-3-----	Toluene	1	J
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS.

DEC SAMPLE NO.

040B

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.576 SAS No.:

SDG No.: 76346

Matrix: (soil/water) WATER

Lab Sample ID: 76348

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: H3450

Level: (low/med) LOW

Date Received: 10/22/97

% Moisture: not dec.

Date Analyzed: 10/24/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. 115-11-7	1-Propene, 2-methyl-	1.21	5	JN

1B
EMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

010B

Lab Name: & E INC. Contract:
 Lab Code: ANDE Case No.: 9702.576 SAS No.: SDG No.: 76346
 Matrix: il/water) WATER Lab Sample ID: 76347
 Sample Volume: 1000 (g/mL) ML Lab File ID: B5303
 Level: low/med) LOW Date Received: 10/22/97
 % Moisture: decanted: (Y/N) Date Extracted: 10/23/97
 Concentration: d Extract Volume: 1000 (uL) Date Analyzed: 10/28/97
 Inject Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Column: (Y/N) N pH:

NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-2-----	Phenol	10	U
44-4-----	bis(2-Chloroethyl) Ether	10	U
7-8-----	2-Chlorophenol	10	U
73-1-----	1,3-Dichlorobenzene	10	U
46-7-----	1,4-Dichlorobenzene	10	U
55-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
67-72-1-----	Nitrobenzene	10	U
9-1-----	Isophorone	10	U
5-5-----	2-Nitrophenol	10	U
67-9-----	2,4-Dimethylphenol	10	U
91-1-----	bis(2-Chloroethoxy)Methane	10	U
83-2-----	2,4-Dichlorophenol	10	U
82-1-----	1,2,4-Trichlorobenzene	10	U
0-3-----	Naphthalene	10	U
47-8-----	4-Chloroaniline	10	U
8-3-----	Hexachlorobutadiene	10	U
60-7-----	4-Chloro-3-Methylphenol	10	U
67-6-----	2-Methylnaphthalene	10	U
67-4-----	Hexachlorocyclopentadiene	10	U
66-2-----	2,4,6-Trichlorophenol	10	U
65-4-----	2,4,5-Trichlorophenol	25	U
68-7-----	2-Chloronaphthalene	10	U
74-4-----	2-Nitroaniline	25	U
11-3-----	Dimethylphthalate	10	U
96-8-----	Acenaphthylene	10	U
20-2-----	2,6-Dinitrotoluene	10	U
69-2-----	3-Nitroaniline	25	U
62-9-----	Acenaphthene	10	U
68-5-----	2,4-Dinitrophenol	25	U
60-2-7-----	4-Nitrophenol	25	U

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1C
EMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

010B

Lab: & E INC. Contract:
 Lab: ANDE Case No.: 9702.576 SAS No.: SDG No.: 76346
 Matrix: oil/water) WATER Lab Sample ID: 76347
 Sample: oil: 1000 (g/mL) ML Lab File ID: B5303
 Level: low/med) LOW Date Received: 10/22/97
 % Moisture: decanted: (Y/N) Date Extracted: 10/23/97
 Concentration: d Extract Volume: 1000 (uL) Date Analyzed: 10/28/97
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC: (Y/N) N pH:

		CONCENTRATION UNITS:		
NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
64-9-----	Dibenzofuran	10	U	
14-2-----	2,4-Dinitrotoluene	10	U	
6-2-----	Diethylphthalate	10	U	
-72-3-----	4-Chlorophenyl-phenylether	10	U	
3-7-----	Fluorene	10	U	
100-01-6-----	4-Nitroaniline	25	U	
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U	
36-30-6-----	N-Nitrosodiphenylamine (1)	10	U	
101-55-3-----	4-Bromophenyl-phenylether	10	U	
118-74-1-----	Hexachlorobenzene	10	U	
37-86-5-----	Pentachlorophenol	25	U	
1-1-8-----	Phenanthrene	10	U	
12-7-----	Anthracene	10	U	
4-8-----	Carbazole	10	U	
4-2-----	Di-n-Butylphthalate	10	U	
44-0-----	Fluoranthene	10	U	
00-0-----	Pyrene	1	J	
8-7-----	Butylbenzylphthalate	10	U	
4-1-----	3,3'-Dichlorobenzidine	10	U	
5-3-----	Benzo(a)Anthracene	10	U	
01-9-----	Chrysene	10	U	
81-7-----	bis(2-Ethylhexyl) Phthalate	2	BJ	MB
84-0-----	Di-n-Octyl Phthalate	10	U	
99-2-----	Benzo(b) Fluoranthene	10	U	
08-9-----	Benzo(k) Fluoranthene	10	U	
2-8-----	Benzo(a) Pyrene	10	U	
39-5-----	Indeno(1,2,3-cd) Pyrene	10	U	
0-3-----	Dibenz(a,h) Anthracene	10	U	
24-2-----	Benzo(g,h,i) Perylene	10	U	
Cannot be separated from Diphenylamine				

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS.

DEC SAMPLE NO.

010B

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.576 SAS No.:

SDG No.: 76346

Matrix: (soil/water) WATER

Lab Sample ID: 76347

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

Lab File ID: B5303

Level: (low/med) LOW

Date Received: 10/22/97

% Moisture: decanted: (Y/N)

Date Extracted: 10/23/97

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/28/97

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 4

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 7704-34-9	Pharmaceutical sulfer	20.45	6	JN
2.	Unknown carboxylic acid	23.94	7	J
3. 57-10-3	Hexadecanoic acid	26.67	9	JN
4. 10544-50-0	Sulfur, mol. (S8)	28.50	140	JN
5.	Unknown hydrocarbon	32.12	7	J

FORM I SV-TIC

10/95

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1B
EMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

Lab N. & E INC. Contract: 02BK

Lab C. ANDE Case No.: 9702.576 SAS No.: SDG No.: 76346

Matrix: il/water) WATER Lab Sample ID: 76346

Sample: ol: 1000 (g/mL) ML Lab File ID: B5326

Level: low/med) LOW Date Received: 10/22/97

% Mol. decanted: (Y/N) Date Extracted: 10/23/97

Conce: d Extract Volume: 1000 (uL) Date Analyzed: 10/30/97

Inject: olume: 2.0 (uL) Dilution Factor: 1.0

GPC C : (Y/N) N pH:

NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-2-----	Phenol	10	U
44-4-----	bis(2-Chloroethyl) Ether	10	U
7-8-----	2-Chlorophenol	10	U
73-1-----	1,3-Dichlorobenzene	10	U
46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
95-3-----	Nitrobenzene	10	U
9-1-----	Isophorone	10	U
5-5-----	2-Nitrophenol	10	U
67-9-----	2,4-Dimethylphenol	10	U
91-1-----	bis(2-Chloroethoxy) Methane	10	U
83-2-----	2,4-Dichlorophenol	10	U
82-1-----	1,2,4-Trichlorobenzene	10	U
0-3-----	Naphthalene	10	U
47-8-----	4-Chloroaniline	10	U
8-3-----	Hexachlorobutadiene	10	U
0-7-----	4-Chloro-3-Methylphenol	10	U
67-6-----	2-Methylnaphthalene	10	U
7-4-----	Hexachlorocyclopentadiene	10	U
06-2-----	2,4,6-Trichlorophenol	10	U
95-4-----	2,4,5-Trichlorophenol	25	U
68-7-----	2-Chloronaphthalene	10	U
74-4-----	2-Nitroaniline	25	U
11-3-----	Dimethylphthalate	10	U
96-8-----	Acenaphthylene	10	U
20-2-----	2,6-Dinitrotoluene	10	U
9-2-----	3-Nitroaniline	25	U
32-9-----	Acenaphthene	10	U
28-5-----	2,4-Dinitrophenol	25	U
02-7-----	4-Nitrophenol	25	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

02BK

Lab Name: E & E INC. Contract: _____

Lab Code: EANDE Case No.: 9702.576 SAS No.: _____ SDG No.: 76346

Matrix: (soil/water) WATER Lab Sample ID: 76346

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B5326

Level: (low/med) LOW Date Received: 10/22/97

% Moisture: _____ decanted: (Y/N) Date Extracted: 10/23/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/30/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	3	BJ
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

1) - Cannot be separated from Diphenylamine

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1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS.

DEC SAMPLE NO.

02BK

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.576 SAS No.:

SDG No.: 76346

Matrix: (soil/water) WATER

Lab Sample ID: 76346

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

Lab File ID: B5326

Level: (low/med) LOW

Date Received: 10/22/97

% Moisture: decanted: (Y/N)

Date Extracted: 10/23/97

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/30/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. 10544-50-0	Sulfur, mol. (S8)	28.20	3	JN
2.	Unknown hydrocarbon	28.69	5	J
3. 57-11-4	Octadecanoic acid	29.00	7	JN

13c

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

040B

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.576 SAS No.:

SDG No.: 76346

Matrix: (soil/water) WATER

Lab Sample ID: 76348

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

Lab File ID: B5304

Level: (low/med) LOW

Date Received: 10/22/97

% Moisture: decanted: (Y/N)

Date Extracted: 10/23/97

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/28/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

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

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) Ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy)Methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-Methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	25	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U

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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

040B

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.576 SAS No.:

SDG No.: 76346

Matrix: (soil/water) WATER

Lab Sample ID: 76348

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

Lab File ID: B5304

Level: (low/med) LOW

Date Received: 10/22/97

% Moisture: decanted: (Y/N)

Date Extracted: 10/23/97

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/28/97

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

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

CAS NO.

COMPOUND

Q

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

(1) - Cannot be separated from Diphenylamine

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1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

040B

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.576 SAS No.:

SDG No.: 76346

Matrix: (soil/water) WATER

Lab Sample ID: 76348

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

Lab File ID: B5304

Level: (low/med) LOW

Date Received: 10/22/97

% Moisture: decanted: (Y/N)

Date Extracted: 10/23/97

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/28/97

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

Number TICs found: 4

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.	Unknown	25.17	11	J
2. 57-10-3	Hexadecanoic acid	26.66	8	JN
3.	Unknown hydrocarbon	36.10	3	J
4.	Unknown hydrocarbon	36.67	3	J

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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

040B

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.576

SAS No.:

SDG No.: 76346

Matrix: (soil/water) WATER

Lab Sample ID: 76348

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

Lab File ID:

% Moisture: decanted: (Y/N)

Date Received: 10/22/97

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 10/23/97

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 10/29/97

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N

pH:

Sulfur Cleanup: (Y/N) Y

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

319-84-6-----	alpha-BHC	0.050	U
319-85-7-----	beta-BHC	0.050	U
319-86-8-----	delta-BHC	0.050	U
58-89-9-----	gamma-BHC (Lindane)	0.050	U
76-44-8-----	Heptachlor	0.050	U
309-00-2-----	Aldrin	0.050	U
1024-57-3-----	Heptachlor epoxide	0.050	U
959-98-8-----	Endosulfan I	0.050	U
60-57-1-----	Dieldrin	0.10	U
72-55-9-----	4,4'-DDE	0.10	U
72-20-8-----	Endrin	0.10	U
33213-65-9-----	Endosulfan II	0.10	U
72-54-8-----	4,4'-DDD	0.10	U
1031-07-8-----	Endosulfan sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.10	U
72-43-5-----	Methoxychlor	0.50	U
53494-70-5-----	Endrin ketone	0.10	U
7421-93-4-----	Endrin aldehyde	0.10	U
5103-71-9-----	alpha-Chlordane	0.050	U
5103-74-2-----	gamma-Chlordane	0.050	U
8001-35-2-----	Toxaphene	5.0	U
12674-11-2-----	Aroclor-1016	1.0	U
11104-28-2-----	Aroclor-1221	2.0	U
11141-16-5-----	Aroclor-1232	1.0	U
53469-21-9-----	Aroclor-1242	1.0	U
12672-29-6-----	Aroclor-1248	1.0	U
11097-69-1-----	Aroclor-1254	1.0	U
11096-82-5-----	Aroclor-1260	1.0	U

FORM I PEST

10/95

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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

& E INC.

Contract:

02BK

ANDE Case No.: 9702.576 SAS No.: SDG No.: 76346

il/water) WATER Lab Sample ID: 76346

ol: 1000 (g/mL) ML Lab File ID:

decanted: (Y/N) Date Received: 10/22/97

(SepF/Cont/Sonc) SEPF Date Extracted: 10/23/97

d Extract Volume: 10000 (uL) Date Analyzed: 10/29/97

olume: 2.00 (uL) Dilution Factor: 1.00

: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

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

84-6-----	alpha-BHC	0.050	U
85-7-----	beta-BHC	0.050	U
86-8-----	delta-BHC	0.050	U
9-9-----	gamma-BHC (Lindane)	0.050	U
76-44-8-----	Heptachlor	0.050	U
309-00-2-----	Aldrin	0.050	U
1024-57-3-----	Heptachlor epoxide	0.050	U
959-98-8-----	Endosulfan I	0.050	U
60-57-1-----	Dieldrin	0.10	U
72-55-9-----	4,4'-DDE	0.10	U
0-8-----	Endrin	0.10	U
3-65-9-----	Endosulfan II	0.10	U
4-8-----	4,4'-DDD	0.10	U
-07-8-----	Endosulfan sulfate	0.10	U
9-3-----	4,4'-DDT	0.10	U
3-5-----	Methoxychlor	0.50	U
4-70-5-----	Endrin ketone	0.10	U
-93-4-----	Endrin aldehyde	0.10	U
-71-9-----	alpha-Chlordane	0.050	U
-74-2-----	gamma-Chlordane	0.050	U
-35-2-----	Toxaphene	5.0	U
4-11-2-----	Aroclor-1016	1.0	U
4-28-2-----	Aroclor-1221	2.0	U
1-16-5-----	Aroclor-1232	1.0	U
9-21-9-----	Aroclor-1242	1.0	U
2-29-6-----	Aroclor-1248	1.0	U
7-69-1-----	Aroclor-1254	1.0	U
6-82-5-----	Aroclor-1260	1.0	U

FORM I PEST

10/95

2'9

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

010B

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.576

SAS No.:

SDG No.: 76346

Matrix: (soil/water) WATER

Lab Sample ID: 76347

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

Lab File ID:

% Moisture: decanted: (Y/N)

Date Received: 10/22/97

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 10/23/97

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 10/29/97

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N

pH:

Sulfur Cleanup: (Y/N) Y

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

319-84-6-----	alpha-BHC	0.050	U
319-85-7-----	beta-BHC	0.050	U
319-86-8-----	delta-BHC	0.050	U
58-89-9-----	gamma-BHC (Lindane)	0.050	U
76-44-8-----	Heptachlor	0.050	U
309-00-2-----	Aldrin	0.050	U
1024-57-3-----	Heptachlor epoxide	0.050	U
959-98-8-----	Endosulfan I	0.050	U
60-57-1-----	Dieldrin	0.10	U
72-55-9-----	4,4'-DDE	0.10	U
72-20-8-----	Endrin	0.10	U
33213-65-9-----	Endosulfan II	0.10	U
72-54-8-----	4,4'-DDD	0.10	U
1031-07-8-----	Endosulfan sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.10	U
72-43-5-----	Methoxychlor	0.50	U
53494-70-5-----	Endrin ketone	0.10	U
7421-93-4-----	Endrin aldehyde	0.10	U
5103-71-9-----	alpha-Chlordane	0.050	U
5103-74-2-----	gamma-Chlordane	0.050	U
8001-35-2-----	Toxaphene	5.0	U
12674-11-2-----	Aroclor-1016	1.0	U
11104-28-2-----	Aroclor-1221	2.0	U
11141-16-5-----	Aroclor-1232	1.0	U
53469-21-9-----	Aroclor-1242	1.0	U
12672-29-6-----	Aroclor-1248	1.0	U
11097-69-1-----	Aroclor-1254	1.0	U
11096-82-5-----	Aroclor-1260	1.0	U

FORM I PEST

10/95

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

02BKW

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____
 Lab Code: EANDE Case No.: 9702.576 SAS No.: _____ SDG No.: 76346
 Matrix (soil/water): WATER Lab Sample ID: 76346
 Level (low/med): LOW Date Received: 10/22/97
 % Solids: 0.0

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

[illegible]

Color Before: CL_____ Clarity Before: C_____ Texture: _____
Color After: CL_____ Clarity After: C_____ Artifacts: _____

Comments:

CLIENT SAMPLE ID : MWEF-02BK-WO102297

FORM I - IN

10/95

1
INORGANIC ANALYSES DATA SHEET

04OBW

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

[illegible]

NA other analytes on table?

Cyanide
only

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

CLIENT SAMPLE ID : MWEF-04OB-WO102297

FORM I - IN

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

MWEF03

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.904 SAS No.:

SDG No.: 78755

Matrix: (soil/water) WATER

Lab Sample ID: 78755

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: C7766

Level: (low/med) LOW

Date Received: 11/25/97

% Moisture: not dec.

Date Analyzed: 12/02/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/L	Q
71-43-2-----	Benzene	240	E
108-88-3-----	Toluene	10	U
100-41-4-----	Ethylbenzene	10	U
1330-20-7-----	Xylene (total)	10	U

FORM I VOA

10/95

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

MWEF03

b Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.904 SAS No.:

SDG No.: 78755

Matrix: (soil/water) WATER

Lab Sample ID: 78755

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: C7766

Level: (low/med) LOW

Date Received: 11/25/97

% Moisture: not dec.

Date Analyzed: 12/02/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. 110-02-1	Thiophene	10.15	7	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

MWEF03DL

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.904 SAS No.:

SDG No.: 78755

Matrix: (soil/water) WATER

Lab Sample ID: 78755DL

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: C7772

Level: (low/med) LOW

Date Received: 11/25/97

% Moisture: not dec.

Date Analyzed: 12/02/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 2.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

71-43-2-----	Benzene	180	D
108-88-3-----	Toluene	20	U
100-41-4-----	Ethylbenzene	20	U
1330-20-7-----	Xylene (total)	20	U

FORM I VOA

10/95

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

MWEF03DL

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.904 SAS No.:

SDG No.: 78755

Matrix: (soil/water) WATER

Lab Sample ID: 78755DL

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: C7772

Level: (low/med) LOW

Date Received: 11/25/97

% Moisture: not dec.

Date Analyzed: 12/02/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 2.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

MWEFWT

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.904 SAS No.:

SDG No.: 78755

Matrix: (soil/water) WATER

Lab Sample ID: 78756

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: C7767

Level: (low/med) LOW

Date Received: 11/25/97

% Moisture: not dec.

Date Analyzed: 12/02/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

71-43-2-----	Benzene	10	U
108-88-3-----	Toluene	10	U
100-41-4-----	Ethylbenzene	10	U
1330-20-7-----	Xylene (total)	10	U

FORM I VOA

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

MWEFWT

Lab Name: E & E INC. Contract:
Lab Code: EANDE Case No.: 9702.904 SAS No.: SDG No.: 78755
Matrix: (soil/water) WATER Lab Sample ID: 78756
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C7767
Level: (low/med) LOW Date Received: 11/25/97
% Moisture: not dec. Date Analyzed: 12/02/97
GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

VBCLKW1

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9702.904 SAS No.:

SDG No.: 78755

Matrix: (soil/water) WATER

Lab Sample ID: VBCLKW1

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: C7764

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 12/02/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

71-43-2-----Benzene	10	U
108-88-3-----Toluene	10	U
100-41-4-----Ethylbenzene	10	U
1330-20-7-----Xylene (total)	10	U

FORM I VOA

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

VBLKW1

Lab Name: E & E INC.

Contract:

Lab Code: EAND E

Case No.: 9702.904 SAS No.:

SDG No.: 78755

Matrix: (soil/water) WATER

Lab Sample ID: VBLKW1

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: C7764

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 12/02/97

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.	Unknown hydrocarbon	25.13	17	J

DATA REVIEW MEMORANDUM

DATE: July 31, 1998
TO: J. Nickerson, E & E, Buffalo
FROM: Marcia Meredith Galloway, QA Officer, E & E, Buffalo
SUBJ: Brownfield Report - Buffalo 3
REF: Project Number BY6000

ASC Job Number 9801.347 - Samples collected on June 15-17, 1998 from stations HA02, 05, 11; GP, and GPEF

ASC Job Number 9801.481 - Samples collected June 15 and 16, 1998 for PCBs only from station location HA-11

ASC Job Number 9801.331 - One samples collected June 16, 1998 for TCLP Lead.

ASC Jon Number 9801.102 - Two samples collected May 26, 1998 for TCLP Lead.

DELIVERABLES

The laboratory reports were reviewed for completeness and compliance with New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) 1995 requirements. The reports include data for the following methods volatile organics (VOCs) by Method 95-1, polynuclear aromatic hydrocarbons (PAH) by Method 95-2; CLP Lead; and polychlorinated biphenyls (PCBs) by Method 95-3.

SAMPLE INTEGRITY AND HOLDING TIME

Based on the information provided on the cooler receipt form, the samples arrived at the laboratory intact. The samples were collected and delivered to the laboratory immediately and preserved at the laboratory. Completed chain-of-custody (COC) documents are included in the laboratory report. All samples were analyzed within NYSDEC ASP holding times.

SAMPLE IDENTIFICATION

Samples were reviewed against the COC documents. All samples were reported and analyzed as required except sample GPEF-L14-SO which was received and analyzed for Total Lead, but was not listed on the COC.

VOLATILE ANALYSIS

Blanks Summary

Laboratory method blanks and trip blanks were performed at the required frequency. The blanks contained no volatile compounds above or below the laboratory quantitation limit with the following exceptions:

BLANK ID	AFFECTED SAMPLES	COMPOUNDS
VBLKH1	B6AWO	Methylene Chloride (1 J μ g/L)
VBLKH2	None	Acetone (6 J μ g/L)

Methylene chloride in the affected sample has been qualified "U" because the sample is a trip blank. The trip blank result is considered not detected at the detection limit due to its presence in the associated method blanks.

Surrogates

All recoveries of all surrogates were within QC limits for all samples.

Matrix Spikes/Matrix Spike Duplicates (MS/MSD)

The MS/MSD's were analyzed at the required frequency for soil samples. An MS/MSD was not performed on the single project sample. Recoveries and relative percent differences (RPDs) of all spiked analytes were within the required control limits in the MS/MSD sets.

Laboratory Control Sample (LCS)

The LCS is equivalent to the NYSDEC ASP Fortified Matrix Spike Blank. The LCS's were performed at the required frequency and the percent recovery values were within the QC limits.

Internal Standard Response

All responses for the internal standards were within the acceptable control limits for all samples.

Initial and Continuing Calibration

The initial calibration's minimum response and percent relative standard deviations (%RSD) and continuing calibration's minimum response and percent differences (%D) were within the acceptable QC limits.

SEMIVOLATILES ANALYSES (PAH)

Blank Summary

The laboratory method blank analysis was performed at the required frequency and had no target compounds detected above or below the laboratory quantitation limits for PAH.

Surrogates

The recoveries for surrogates were within acceptable QC limits for all samples.

Matrix Spike/Matrix Spike Duplicates (MS/MSD)

No MS/MSD results were reported because the MS/MSD extracted with these samples was batch QC and is not associated with this job.

Laboratory Control Sample (LCS)

The LCS was analyzed at the required frequency and the spike recoveries were within QC limits with the exception of 2-Nitrophenol at 96% (QC limit 10-80%). No qualification of samples was considered necessary as this compound was analyzed for in the associated samples.

Internal Standard Response

All responses for the internal standards were within the acceptable control limits for all samples. However, due to matrix effects the benzo(b)anthracene and benzo(k)anthracene could not be separated in sample GP-SS20-ASD and a combined value is reported. The sample also contains many unknown hydrocarbons and PAHs reported as tentatively identified compounds (TICs).

Initial and Continuing Calibration

The initial calibration's minimum response and percent %RSD and continuing calibration's minimum response and %D were within the acceptable QC limits except for one PAH in one standard that had a %D of 26.2 just over the 25% criteria. The compound was found below the quantitation limit and was already flagged as an estimated value.

PCBs

Blank Summary

The laboratory method blank analysis was performed at the required frequency and had no target compounds detected above the laboratory quantitation limits for PCBs.

Surrogates

The recoveries for surrogates were outside within acceptable QC limits for all samples except HA0502ASD. The samples collected from HA-11 were analyzed at a 2000 fold dilution and all samples and spikes were diluted out. The high surrogate recoveries are likely due to interference

from the high levels of PCBs present in the sample because all LCS and blanks were acceptable, therefore no data qualification is required.

Matrix Spike/Matrix Spike Duplicates (MS/MSD)

MS/MSD results for percent recovery and RPD reported for job 9801.347 were within QC limits. The MS/MSD extracted with job 9801.481 and samples from HA11 was diluted out because of the high concentration of PCBs present in the samples. No recoveries for the MS/MSD were reported for these samples, no data qualification is necessary because of the high level of PCBs present in the samples.

Laboratory Control Sample (LCS)

The LCS was analyzed at the required frequency and the spike recoveries were within QC limits.

Initial and Continuing Calibration

The initial calibration's minimum response and percent %RSD and continuing calibration's minimum response and %D were within the acceptable QC limits for PCBs. In some cases when low levels of PCBs were found, the samples were flagged "J" as estimated as present below the laboratory quantitation limit. These values should be included in the final report with the "J" flag. In addition, some samples were flagged with a "P" too indicate a greater than 25% D between the primary and confirmation column. The values were reviewed and judged to be generally comparable. The low value was reported in all cases. These values can be reported without the "P" flag or further qualification because the variations are typical for low levels of multi-response compounds.

For sample HA-11-11A the result is reported in wet weight because a percent solid could not be determined due to insufficient volume. No data qualification is required because of the high concentration in the sample and low percent moisture in the other samples.

LEAD

Blank Summary.

Laboratory method blanks were performed at the required frequency and had no target analytes detected above the laboratory quantitation limits except for one method blank associated with the soil samples. No data qualification is required because all sample concentrations were greater than 10 times the blank.

Matrix Spike/Matrix Duplicate (MS/MD)/Serial Dilution

The matrix spike/matrix duplicate were performed at the required frequency and percent recovery values were within acceptable QC limits. The RPD for the duplicates and the serial dilution exceeded the QC limits indicating potential matrix effects. All lead data for soil samples are flagged "J" as estimated. For the TCLP results, values from samples SSEF-12-SR and TTEF-10-ASR should be flagged "J" as estimated because the results are below the quantitation limit

but above the MDL and the serial dilution exceeded 10%. The results are significantly below the regulatory level and there is no effect on data usability.

Laboratory Control Sample (LCS)

The LCSs were analyzed at the required frequency and the spike recovery values were within QC limits.

Calibration

All initial and continuing calibrations were within QC limits.



ecology and environment, inc.

International Specialists in the Environment

ANALYTICAL SERVICES CENTER

4493 Walden Avenue

Lancaster, New York 14086

Tel. (716) 685-8080, Fax: (716) 685-0852

MEMORANDUM

TO: Jon Nickerson - E & E Inc. Buffalo

FROM: Caryn Wojtowicz - Project Manager *C. Wojtowicz*

DATE: June 4, 1998

SUBJECT: BY-6000 Buffalo 3 - Brownfield Report
East Ferry St.

RE: 9801.347

CC: Lab File

Attached is the laboratory report of the analyses conducted on samples received at the Analytical Services Center on June 17, 1998. Analysis was performed according to the procedures set forth in the New York State Department of Environmental Conservation, Analytical Services Protocol, 10/95 Revisions.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of \$1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

CW/fal
Enclosure

SDG Narrative
Buffalo 3-Brownfield, East Ferry St.
Project # BY-6000
9801.347
Page 1 of 3

Due to software limitations, the client identification codes have been truncated throughout this report.

The "M" flag on a GC/MS instrument generated quantitation report indicates that a manual integration was performed. Manual integration was required due to peak shape.

VOLATILES

A DB624 column from J&W which is 30 cm long, 0.53 mm wide, and has a 3-um film thickness was used for the volatile analyses. A 30-cm TEKMAR #6 Trap was used for the volatile analyses consisting of approximately 1 cm of OV-1 packing, approximately 20 cm of Tenax, and approximately 10 cm of silica gel.

The most current MDL studies are included in this report.

No discrepancies were encountered during this analysis.

PAHs

A RESTEK (XTI-5) column which is 30 m long, 0.25 mm wide, and has a 0.25 um film thickness was used for the semivolatile analyses. The column contains 5% diphenyl and 95% dimethylpolysiloxane.

The most current MDL studies are included in this report.

Due to matrix, benzo(b)anthracene and benzo(k)anthracene could not be quantitated separately in sample GP-SS20-ASD. The combined results have been reported as benzo(b)anthracene.

The method spike blank had a high spike recovery for 4-nitrophenol at 96%.

The following tentatively identified alkanes were detected:

<u>Sample ID</u>	<u>Alkane Compound (series)</u>	<u>Estimated concentration</u>
GP-SS14-ASD	straight chain	590 ug/Kg
GP-SS20-ASD	straight chain	5200 ug/Kg
	branched	790 ug/Kg

SDG Narrative
Buffalo 3-Brownfield, East Ferry St.
Project # BY-6000
9801.347
Page 2 of 3

PCBs

Columns used for analysis were a 30 m long RTX-5 (CLP-I) with 0.53 mm diameter and 1.0 micron thickness and a 30 m long RTX-35 (CLP-II) with 0.53 mm diameter and 0.5 micron thickness.

Samples under went sulfur cleanup procedures.

The most current MDL studies are included in this report.

Due to insufficient sample volume, percent solids was not determined on sample HA02-13-ASD. Results have been reported on an as received basis.

Samples HA02-07-ASD, HA02-13-ASD and its MS/MSD, HA11-06-ASD, and HA11-07-ASD did not meet some of the surrogate recovery criterion. All recoveries were high. The associated method blank and laboratory control sample met all surrogate recovery criterion. No further action is required.

Standard INDBM05 showed an increase in sensitivity for Heptachlor epoxide on the CLP-II column.

LEAD

Several samples required analysis at a secondary dilution based on the levels of lead detected in the undiluted analyses.

The method blank did not meet the QC criteria for lead. All samples contained lead at a concentration greater than ten times the concentration detected in the undiluted analysis. No further action was taken. The continuing calibration blank (CCB) analyzed on 7/8/98 at 2311 hours did not meet the QC criteria for lead. Affected samples were reanalyzed in an acceptable run sequence.

The matrix duplicate analysis of sample GPEF-LA10-SO did not meet RPD criteria. Reported sample results have been flagged accordingly. No corrective action is required.

All reported sample results have been flagged "E" based on the serial dilution.

SDG Narrative

Buffalo 3-Brownfield, East Ferry St.

Project # BY-6000

9801.347

Page 3 of 3

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

A handwritten signature in cursive script, reading "Caryn Wojtowicz".

Caryn Wojtowicz - Project Manager

Analytical Services Center

July 23, 1998

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

B1GSO

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9801.347 SAS No.:

SDG No.: 09121

Matrix: (soil/water) SOIL

Lab Sample ID: 09122

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: J8553

Level: (low/med) LOW

Date Received: 06/17/98

% Moisture: not dec. 11

Date Analyzed: 06/18/98

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3-----	Chloromethane	11	U
74-83-9-----	Bromomethane	11	U
75-01-4-----	Vinyl Chloride	11	U
75-00-3-----	Chloroethane	11	U
75-09-2-----	Methylene Chloride	11	U
67-64-1-----	Acetone	11	U
75-15-0-----	Carbon Disulfide	11	U
75-35-4-----	1,1-Dichloroethene	11	U
75-34-3-----	1,1-Dichloroethane	11	U
540-59-0-----	1,2-Dichloroethene (total)	11	U
67-66-3-----	Chloroform	11	U
107-06-2-----	1,2-Dichloroethane	11	U
78-93-3-----	2-Butanone	11	U
71-55-6-----	1,1,1-Trichloroethane	11	U
56-23-5-----	Carbon Tetrachloride	11	U
75-27-4-----	Bromodichloromethane	11	U
78-87-5-----	1,2-Dichloropropane	11	U
10061-01-5-----	cis-1,3-Dichloropropene	11	U
79-01-6-----	Trichloroethene	11	U
124-48-1-----	Dibromochloromethane	11	U
79-00-5-----	1,1,2-Trichloroethane	11	U
71-43-2-----	Benzene	11	U
10061-02-6-----	trans-1,3-Dichloropropene	11	U
75-25-2-----	Bromoform	11	U
108-10-1-----	4-Methyl-2-Pentanone	11	U
591-78-6-----	2-Hexanone	11	U
127-18-4-----	Tetrachloroethene	11	U
79-34-5-----	1,1,2,2-Tetrachloroethane	11	U
108-88-3-----	Toluene	11	U
108-90-7-----	Chlorobenzene	11	U
100-41-4-----	Ethylbenzene	11	U
100-42-5-----	Styrene	11	U
1330-20-7-----	Xylene (total)	11	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

B1GSO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9801.347 SAS No.:

SDG No.: 09121

Matrix: (soil/water) SOIL

Lab Sample ID: 09122

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: J8553

Level: (low/med) LOW

Date Received: 06/17/98

% Moisture: not dec. 11

Date Analyzed: 06/18/98

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

B2FSO

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9801.347 SAS No.:

SDG No.: 09121

Matrix: (soil/water) SOIL

Lab Sample ID: 09123

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: J8554

Level: (low/med) LOW

Date Received: 06/17/98

% Moisture: not dec. 13

Date Analyzed: 06/18/98

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3-----	Chloromethane	11	U
74-83-9-----	Bromomethane	11	U
75-01-4-----	Vinyl Chloride	11	U
75-00-3-----	Chloroethane	11	U
75-09-2-----	Methylene Chloride	11	U
67-64-1-----	Acetone	11	U
75-15-0-----	Carbon Disulfide	11	U
75-35-4-----	1,1-Dichloroethene	11	U
75-34-3-----	1,1-Dichloroethane	11	U
540-59-0-----	1,2-Dichloroethene (total)	11	U
67-66-3-----	Chloroform	11	U
107-06-2-----	1,2-Dichloroethane	11	U
78-93-3-----	2-Butanone	11	U
71-55-6-----	1,1,1-Trichloroethane	11	U
56-23-5-----	Carbon Tetrachloride	11	U
75-27-4-----	Bromodichloromethane	11	U
78-87-5-----	1,2-Dichloropropane	11	U
10061-01-5-----	cis-1,3-Dichloropropene	11	U
79-01-6-----	Trichloroethene	11	U
124-48-1-----	Dibromochloromethane	11	U
79-00-5-----	1,1,2-Trichloroethane	11	U
71-43-2-----	Benzene	11	U
10061-02-6-----	trans-1,3-Dichloropropene	11	U
75-25-2-----	Bromoform	11	U
108-10-1-----	4-Methyl-2-Pentanone	11	U
591-78-6-----	2-Hexanone	11	U
127-18-4-----	Tetrachloroethene	11	U
79-34-5-----	1,1,2,2-Tetrachloroethane	11	U
108-88-3-----	Toluene	11	U
108-90-7-----	Chlorobenzene	11	U
100-41-4-----	Ethylbenzene	11	U
100-42-5-----	Styrene	11	U
1330-20-7-----	Xylene (total)	11	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

B2FSO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9801.347 SAS No.:

SDG No.: 09121

Matrix: (soil/water) SOIL

Lab Sample ID: 09123

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: J8554

Level: (low/med) LOW

Date Received: 06/17/98

% Moisture: not dec. 13

Date Analyzed: 06/18/98

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

B3FSO

b Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9801.347 SAS No.:

SDG No.: 09121

Matrix: (soil/water) SOIL

Lab Sample ID: 09124

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: J8555

Level: (low/med) LOW

Date Received: 06/17/98

% Moisture: not dec. 13

Date Analyzed: 06/18/98

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3-----	Chloromethane	11	U
74-83-9-----	Bromomethane	11	U
75-01-4-----	Vinyl Chloride	11	U
75-00-3-----	Chloroethane	11	U
75-09-2-----	Methylene Chloride	11	U
67-64-1-----	Acetone	11	U
75-15-0-----	Carbon Disulfide	11	U
75-35-4-----	1,1-Dichloroethene	11	U
75-34-3-----	1,1-Dichloroethane	11	U
540-59-0-----	1,2-Dichloroethene (total)	11	U
67-66-3-----	Chloroform	11	U
107-06-2-----	1,2-Dichloroethane	11	U
78-93-3-----	2-Butanone	11	U
71-55-6-----	1,1,1-Trichloroethane	11	U
56-23-5-----	Carbon Tetrachloride	11	U
75-27-4-----	Bromodichloromethane	11	U
78-87-5-----	1,2-Dichloropropane	11	U
10061-01-5-----	cis-1,3-Dichloropropene	11	U
79-01-6-----	Trichloroethene	11	U
124-48-1-----	Dibromochloromethane	11	U
79-00-5-----	1,1,2-Trichloroethane	11	U
71-43-2-----	Benzene	11	U
10061-02-6-----	trans-1,3-Dichloropropene	11	U
75-25-2-----	Bromoform	11	U
108-10-1-----	4-Methyl-2-Pentanone	11	U
591-78-6-----	2-Hexanone	11	U
127-18-4-----	Tetrachloroethene	11	U
79-34-5-----	1,1,2,2-Tetrachloroethane	11	U
108-88-3-----	Toluene	11	U
108-90-7-----	Chlorobenzene	11	U
100-41-4-----	Ethylbenzene	11	U
100-42-5-----	Styrene	11	U
1330-20-7-----	Xylene (total)	11	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

B3FSO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9801.347 SAS No.:

SDG No.: 09121

Matrix: (soil/water) SOIL

Lab Sample ID: 09124

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: J8555

Level: (low/med) LOW

Date Received: 06/17/98

% Moisture: not dec. 13

Date Analyzed: 06/18/98

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

B4FSO

Name: E & E INC. Contract: _____

Lab Code: EANDE Case No.: 9801.347 SAS No.: _____ SDG No.: 09121

Matrix: (soil/water) SOIL Lab Sample ID: 09125

Sample wt/vol: 5.0 (g/mL) G Lab File ID: J8576

Level: (low/med) LOW Date Received: 06/17/98

% Moisture: not dec. 13 Date Analyzed: 06/23/98

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	11	U
74-83-9	-----Bromomethane	11	U
75-01-4	-----Vinyl Chloride	11	U
75-00-3	-----Chloroethane	11	U
75-09-2	-----Methylene Chloride	11	U
67-64-1	-----Acetone	11	U
75-15-0	-----Carbon Disulfide	11	U
75-35-4	-----1,1-Dichloroethene	11	U
75-34-3	-----1,1-Dichloroethane	11	U
540-59-0	-----1,2-Dichloroethene (total)	11	U
67-66-3	-----Chloroform	11	U
107-06-2	-----1,2-Dichloroethane	11	U
78-93-3	-----2-Butanone	11	U
71-55-6	-----1,1,1-Trichloroethane	11	U
56-23-5	-----Carbon Tetrachloride	11	U
75-27-4	-----Bromodichloromethane	11	U
78-87-5	-----1,2-Dichloropropane	11	U
10061-01-5	-----cis-1,3-Dichloropropene	11	U
79-01-6	-----Trichloroethene	11	U
124-48-1	-----Dibromochloromethane	11	U
79-00-5	-----1,1,2-Trichloroethane	11	U
71-43-2	-----Benzene	11	U
10061-02-6	-----trans-1,3-Dichloropropene	11	U
75-25-2	-----Bromoform	11	U
108-10-1	-----4-Methyl-2-Pentanone	11	U
591-78-6	-----2-Hexanone	11	U
127-18-4	-----Tetrachloroethene	11	U
79-34-5	-----1,1,2,2-Tetrachloroethane	11	U
108-88-3	-----Toluene	11	U
108-90-7	-----Chlorobenzene	11	U
100-41-4	-----Ethylbenzene	11	U
100-42-5	-----Styrene	11	U
1330-20-7	-----Xylene (total)	11	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

B4FSO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9801.347 SAS No.:

SDG No.: 09121

Matrix: (soil/water) SOIL

Lab Sample ID: 09125

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: J8576

Level: (low/med) LOW

Date Received: 06/17/98

% Moisture: not dec. 13

Date Analyzed: 06/23/98

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

B5FSD

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9801.347 SAS No.:

SDG No.: 09121

Matrix: (soil/water) SOIL

Lab Sample ID: 09126

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: J8577

Level: (low/med) LOW

Date Received: 06/17/98

% Moisture: not dec. 14

Date Analyzed: 06/23/98

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12	U
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

B5FSD

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9801.347 SAS No.:

SDG No.: 09121

Matrix: (soil/water) SOIL

Lab Sample ID: 09126

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: J8577

Level: (low/med) LOW

Date Received: 06/17/98

% Moisture: not dec. 14

Date Analyzed: 06/23/98

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

B6AWO

b Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9801.347 SAS No.: SDG No.: 09121

Matrix: (soil/water) WATER Lab Sample ID: 09121

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C0257

Level: (low/med) LOW Date Received: 06/17/98

% Moisture: not dec. Date Analyzed: 06/24/98

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	BJ
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

B6AWO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9801.347 SAS No.:

SDG No.: 09121

Matrix: (soil/water) WATER

Lab Sample ID: 09121

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: C0257

Level: (low/med) LOW

Date Received: 06/17/98

% Moisture: not dec.

Date Analyzed: 06/24/98

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

VBLKS1

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9801.347 SAS No.:

SDG No.: 09121

Matrix: (soil/water) SOIL

Lab Sample ID: VBLKS1

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: J8551

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 06/18/98

GC Column: DB-624

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	10	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	10	U
124-48-1-----	Dibromochloromethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-88-3-----	Toluene	10	U
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

VB LKS1

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9801.347 SAS No.:

SDG No.: 09121

Matrix: (soil/water) SOIL

Lab Sample ID: VBLKS1

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: J8551

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 06/18/98

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

VBLKS2

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9801.347 SAS No.:

SDG No.: 09121

Matrix: (soil/water) SOIL

Lab Sample ID: VBLKS2

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: J8574

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 06/23/98

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	10	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	10	U
124-48-1-----	Dibromochloromethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-88-3-----	Toluene	10	U
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

VBLKS2

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9801.347 SAS No.:

SDG No.: 09121

Matrix: (soil/water) SOIL

Lab Sample ID: VBLKS2

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: J8574

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 06/23/98

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

SS14ASD

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9801.347 SAS No.:

SDG No.: 09121

Matrix: (soil/water) SOIL

Lab Sample ID: 09132

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: B7269

Level: (low/med) LOW

Date Received: 06/17/98

% Moisture: 15 decanted: (Y/N) N

Date Extracted: 06/19/98

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 06/26/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

91-20-3-----	Naphthalene	390	U
91-57-6-----	2-Methylnaphthalene	390	U
208-96-8-----	Acenaphthylene	390	U
83-32-9-----	Acenaphthene	390	U
86-73-7-----	Fluorene	390	U
85-01-8-----	Phenanthrene	390	U
120-12-7-----	Anthracene	390	U
206-44-0-----	Fluoranthene	390	U
129-00-0-----	Pyrene	390	U
56-55-3-----	Benzo (a) Anthracene	390	U
218-01-9-----	Chrysene	390	U
205-99-2-----	Benzo (b) Fluoranthene	390	U
207-08-9-----	Benzo (k) Fluoranthene	390	U
50-32-8-----	Benzo (a) Pyrene	390	U
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

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

10/95

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

SS14ASD

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9801.347 SAS No.:

SDG No.: 09121

Matrix: (soil/water) SOIL

Lab Sample ID: 09132

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: B7269

Level: (low/med) LOW

Date Received: 06/17/98

% Moisture: 15 decanted: (Y/N) N

Date Extracted: 06/19/98

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 06/26/98

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.9

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown carboxylic acid	25.06	310	J
2.	Unknown oxygenated hydrocarb	33.29	350	J
3.	Unknown oxygenated hydrocarb	34.42	110	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

SS20ASD

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9801.347 SAS No.:

SDG No.: 09121

Matrix: (soil/water) SOIL

Lab Sample ID: 09133

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: B7300

Level: (low/med) LOW

Date Received: 06/17/98

% Moisture: 17 decanted: (Y/N) N

Date Extracted: 06/19/98

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 06/30/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.5

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

91-20-3-----	Naphthalene	310	J
91-57-6-----	2-Methylnaphthalene	71	J
208-96-8-----	Acenaphthylene	400	U
83-32-9-----	Acenaphthene	230	J
86-73-7-----	Fluorene	250	J
85-01-8-----	Phenanthrene	1800	
120-12-7-----	Anthracene	350	J
206-44-0-----	Fluoranthene	1800	
129-00-0-----	Pyrene	1500	
56-55-3-----	Benzo(a)Anthracene	700✓	
218-01-9-----	Chrysene	730✓	
205-99-2-----	Benzo(b)Fluoranthene	950-	
207-08-9-----	Benzo(k)Fluoranthene	400✓	U
50-32-8-----	Benzo(a)Pyrene	660✓	
193-39-5-----	Indeno(1,2,3-cd)Pyrene	420	
53-70-3-----	Dibenz(a,h)Anthracene	240✓	J
191-24-2-----	Benzo(g,h,i)Perylene	410	

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

10/95

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

SS20ASD

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9801.347 SAS No.:

SDG No.: 09121

Matrix: (soil/water) SOIL

Lab Sample ID: 09133

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: B7300

Level: (low/med) LOW

Date Received: 06/17/98

% Moisture: 17 decanted: (Y/N) N

Date Extracted: 06/19/98

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 06/30/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 8.5

Number TICs found: 27

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	8.44	130	J
2.	Unknown terpene	9.08	130	J
3. 132-64-9	Dibenzofuran	18.77	150	JN
4.	Unknown	20.41	210	J
5. 132-65-0	Dibenzothiophene	22.46	920	JN
6. 86-74-8	Carbazole	23.69	1600	JN
7.	Unknown PAH	24.43	970	J
8.	Unknown PAH	24.53	1200	J
9.	Unknown PAH	24.79	2400	J
10.	Unknown oxygenated PAH	25.56	1400	J
11.	Unknown	27.18	99	J
12.	Unknown carboxylic acid	27.65	1100	J
13.	Unknown oxygenated hydrocarb	27.90	220	J
14.	Unknown PAH	28.51	220	J
15.	Unknown PAH	28.71	220	J
16.	Unknown oxygenated hydrocarb	29.88	720	J
17.	Unknown oxygenated hydrocarb	30.13	210	J
18.	Unknown	30.57	340	J
19.	Unknown	31.60	210	J
20.	Benzocarbazole isomer	32.11	100	J
21.	Unknown PAH	32.55	210	J
22.	Unknown PAH	32.81	120	J
23.	Unknown	33.67	330	J
24.	Unknown	34.27	340	J
25.	Unknown PAH	35.24	490	J
26.	Unknown	37.65	230	J
27.	Unknown	44.04	210	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

SBLKS1

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9801.347 SAS No.:

SDG No.: 09121

Matrix: (soil/water) SOIL

Lab Sample ID: SBLKS1

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: B7267

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N) N

Date Extracted: 06/19/98

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 06/26/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

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

CAS NO.

COMPOUND

Q

91-20-3-----	Naphthalene	330	U
91-57-6-----	2-Methylnaphthalene	330	U
208-96-8-----	Acenaphthylene	330	U
83-32-9-----	Acenaphthene	330	U
86-73-7-----	Fluorene	330	U
85-01-8-----	Phenanthrene	330	U
120-12-7-----	Anthracene	330	U
206-44-0-----	Fluoranthene	330	U
129-00-0-----	Pyrene	330	U
56-55-3-----	Benzo(a)Anthracene	330	U
218-01-9-----	Chrysene	330	U
205-99-2-----	Benzo(b)Fluoranthene	330	U
207-08-9-----	Benzo(k)Fluoranthene	330	U
50-32-8-----	Benzo(a)Pyrene	330	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	330	U
53-70-3-----	Dibenz(a,h)Anthracene	330	U
191-24-2-----	Benzo(g,h,i)Perylene	330	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

10/95

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.

SBLKS1

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9801.347 SAS No.:

SDG No.: 09121

Matrix: (soil/water) SOIL

Lab Sample ID: SBLKS1

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: B7267

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N) N

Date Extracted: 06/19/98

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 06/26/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HA0207ASD

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9801.347

SAS No.:

SDG No.: 09121

Matrix: (soil/water) SOIL

Lab Sample ID: 9127

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 14 decanted: (Y/N) N

Date Received: 06/17/98

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 06/19/98

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 07/01/98

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.8

Sulfur Cleanup: (Y/N) Y

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

319-84-6-----	alpha-BHC	2.0	U
319-85-7-----	beta-BHC	2.0	U
319-86-8-----	delta-BHC	2.0	U
58-89-9-----	gamma-BHC (Lindane)	2.0	U
76-44-8-----	Heptachlor	2.0	U
309-00-2-----	Aldrin	2.0	U
1024-57-3-----	Heptachlor epoxide	2.0	U
959-98-8-----	Endosulfan I	2.0	U
60-57-1-----	Dieldrin	3.8	U
72-55-9-----	4,4'-DDE	3.8	U
72-20-8-----	Endrin	3.8	U
33213-65-9-----	Endosulfan II	3.8	U
72-54-8-----	4,4'-DDD	3.8	U
1031-07-8-----	Endosulfan sulfate	3.8	U
50-29-3-----	4,4'-DDT	3.8	U
72-43-5-----	Methoxychlor	20	U
53494-70-5-----	Endrin ketone	3.8	U
7421-93-4-----	Endrin aldehyde	3.8	U
5103-71-9-----	alpha-Chlordane	2.0	U
5103-74-2-----	gamma-Chlordane	2.0	U
8001-35-2-----	Toxaphene	200	U
12674-11-2-----	Aroclor-1016	38	U
11104-28-2-----	Aroclor-1221	78	U
11141-16-5-----	Aroclor-1232	38	U
53469-21-9-----	Aroclor-1242	38	U
12672-29-6-----	Aroclor-1248	38	U
11097-69-1-----	Aroclor-1254	38	U
11096-82-5-----	Aroclor-1260	41	P

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

HA0213ASD

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9801.347

SAS No.:

SDG No.: 09121

Matrix: (soil/water) SOIL

Lab Sample ID: 9128

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 0 decanted: (Y/N) N

Date Received: 06/17/98

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 06/19/98

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 07/01/98

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.0

Sulfur Cleanup: (Y/N) Y

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

319-84-6-----	alpha-BHC	1.7	U
319-85-7-----	beta-BHC	1.7	U
319-86-8-----	delta-BHC	1.7	U
58-89-9-----	gamma-BHC (Lindane)	1.7	U
76-44-8-----	Heptachlor	1.7	U
309-00-2-----	Aldrin	1.7	U
1024-57-3-----	Heptachlor epoxide	1.7	U
959-98-8-----	Endosulfan I	1.7	U
60-57-1-----	Dieldrin	3.3	U
72-55-9-----	4,4'-DDE	3.3	U
72-20-8-----	Endrin	3.3	U
33213-65-9-----	Endosulfan II	3.3	U
72-54-8-----	4,4'-DDD	3.3	U
1031-07-8-----	Endosulfan sulfate	3.3	U
50-29-3-----	4,4'-DDT	3.3	U
72-43-5-----	Methoxychlor	17	U
53494-70-5-----	Endrin ketone	3.3	U
7421-93-4-----	Endrin aldehyde	3.3	U
5103-71-9-----	alpha-Chlordane	1.7	U
5103-74-2-----	gamma-Chlordane	1.7	U
8001-35-2-----	Toxaphene	170	U
12674-11-2-----	Aroclor-1016	33	U
11104-28-2-----	Aroclor-1221	67	U
11141-16-5-----	Aroclor-1232	33	U
53469-21-9-----	Aroclor-1242	33	U
12672-29-6-----	Aroclor-1248	33	U
11097-69-1-----	Aroclor-1254	33	U
11096-82-5-----	Aroclor-1260	32	JP

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

HA0502ASD

Lab Name: E & E INC. Contract: _____

Lab Code: EANDE Case No.: 9801.347 SAS No.: _____ SDG No.: 09121

Matrix: (soil/water) SOIL Lab Sample ID: 9129

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 24 decanted: (Y/N) N Date Received: 06/17/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/19/98

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/01/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.9 Sulfur Cleanup: (Y/N) Y

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

319-84-6-----	alpha-BHC	2.2	U
319-85-7-----	beta-BHC	2.2	U
319-86-8-----	delta-BHC	2.2	U
58-89-9-----	gamma-BHC (Lindane)	2.2	U
76-44-8-----	Heptachlor	2.2	U
309-00-2-----	Aldrin	2.2	U
1024-57-3-----	Heptachlor epoxide	2.2	U
959-98-8-----	Endosulfan I	2.2	U
60-57-1-----	Dieldrin	4.3	U
72-55-9-----	4,4'-DDE	4.3	U
72-20-8-----	Endrin	4.3	U
33213-65-9-----	Endosulfan II	4.3	U
72-54-8-----	4,4'-DDD	4.3	U
1031-07-8-----	Endosulfan sulfate	4.3	U
50-29-3-----	4,4'-DDT	4.3	U
72-43-5-----	Methoxychlor	22	U
53494-70-5-----	Endrin ketone	4.3	U
7421-93-4-----	Endrin aldehyde	4.3	U
5103-71-9-----	alpha-Chlordane	2.2	U
5103-74-2-----	gamma-Chlordane	2.2	U
8001-35-2-----	Toxaphene	220	U
12674-11-2-----	Aroclor-1016	43	U
11104-28-2-----	Aroclor-1221	88	U
11141-16-5-----	Aroclor-1232	43	U
53469-21-9-----	Aroclor-1242	43	U
12672-29-6-----	Aroclor-1248	43	U
11097-69-1-----	Aroclor-1254	43	U
11096-82-5-----	Aroclor-1260	26	JP

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

HA1106ASD

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9801.347

SAS No.:

SDG No.: 09121

Matrix: (soil/water) SOIL

Lab Sample ID: 9130

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 11 decanted: (Y/N) N

Date Received: 06/17/98

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 06/19/98

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 07/01/98

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.5

Sulfur Cleanup: (Y/N) Y

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

319-84-6-----	alpha-BHC	1.9	U
319-85-7-----	beta-BHC	1.9	U
319-86-8-----	delta-BHC	1.9	U
58-89-9-----	gamma-BHC (Lindane)	1.9	U
76-44-8-----	Heptachlor	1.9	U
309-00-2-----	Aldrin	1.9	U
1024-57-3-----	Heptachlor epoxide	1.9	U
959-98-8-----	Endosulfan I	1.9	U
60-57-1-----	Dieldrin	3.7	U
72-55-9-----	4,4'-DDE	3.7	U
72-20-8-----	Endrin	3.7	U
33213-65-9-----	Endosulfan II	3.7	U
72-54-8-----	4,4'-DDD	3.7	U
1031-07-8-----	Endosulfan sulfate	3.7	U
50-29-3-----	4,4'-DDT	3.7	U
72-43-5-----	Methoxychlor	19	U
53494-70-5-----	Endrin ketone	3.7	U
7421-93-4-----	Endrin aldehyde	3.7	U
5103-71-9-----	alpha-Chlordane	1.9	U
5103-74-2-----	gamma-Chlordane	1.9	U
8001-35-2-----	Toxaphene	190	U
12674-11-2-----	Aroclor-1016	37	U
11104-28-2-----	Aroclor-1221	75	U
11141-16-5-----	Aroclor-1232	37	U
53469-21-9-----	Aroclor-1242	37	U
12672-29-6-----	Aroclor-1248	37	U
11097-69-1-----	Aroclor-1254	37	U
11096-82-5-----	Aroclor-1260	1400	

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

HA1107ASD

b Name: E & E INC. Contract:
 Lab Code: EANDE Case No.: 9801.347 SAS No.: SDG No.: 09121
 Matrix: (soil/water) SOIL Lab Sample ID: 9131
 Sample wt/vol: 30.0 (g/mL) G Lab File ID:
 % Moisture: 15 decanted: (Y/N) N Date Received: 06/17/98
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/19/98
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/01/98
 Injection Volume: 2.00 (uL) Dilution Factor: 1.00
 GPC Cleanup: (Y/N) Y pH: 8.2 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.9	U
72-55-9	4,4'-DDE	3.9	U
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4'-DDD	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	3.9	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.9	U
7421-93-4	Endrin aldehyde	3.9	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	79	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U
11096-82-5	Aroclor-1260	1700	

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

PBLKS1

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9801.347

SAS No.:

SDG No.: 09121

Matrix: (soil/water) SOIL

Lab Sample ID: 1206-156-1

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: decanted: (Y/N)

Date Received:

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 06/19/98

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 07/01/98

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y

pH: 7.0

Sulfur Cleanup: (Y/N) Y

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

CAS NO.

COMPOUND

Q

319-84-6-----	alpha-BHC	1.7	U
319-85-7-----	beta-BHC	1.7	U
319-86-8-----	delta-BHC	1.7	U
58-89-9-----	gamma-BHC (Lindane)	1.7	U
76-44-8-----	Heptachlor	1.7	U
309-00-2-----	Aldrin	1.7	U
1024-57-3-----	Heptachlor epoxide	1.7	U
959-98-8-----	Endosulfan I	1.7	U
60-57-1-----	Dieldrin	3.3	U
72-55-9-----	4,4'-DDE	3.3	U
72-20-8-----	Endrin	3.3	U
33213-65-9-----	Endosulfan II	3.3	U
72-54-8-----	4,4'-DDD	3.3	U
1031-07-8-----	Endosulfan sulfate	3.3	U
50-29-3-----	4,4'-DDT	3.3	U
72-43-5-----	Methoxychlor	17	U
53494-70-5-----	Endrin ketone	3.3	U
7421-93-4-----	Endrin aldehyde	3.3	U
5103-71-9-----	alpha-Chlordane	1.7	U
5103-74-2-----	gamma-Chlordane	1.7	U
8001-35-2-----	Toxaphene	170	U
12674-11-2-----	Aroclor-1016	33	U
11104-28-2-----	Aroclor-1221	67	U
11141-16-5-----	Aroclor-1232	33	U
53469-21-9-----	Aroclor-1242	33	U
12672-29-6-----	Aroclor-1248	33	U
11097-69-1-----	Aroclor-1254	33	U
11096-82-5-----	Aroclor-1260	33	U

1
INORGANIC ANALYSES DATA SHEET

DEC SAMPLE NO.

LA03

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____
 Lab Code: EANDE Case No.: 9801.347 SAS No.: _____ SDG No.: LA03
 Matrix (soil/water): SOIL Lab Sample ID: 9134
 Level (low/med): LOW Date Received: 06/17/98
 % Solids: 84.1

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

[illegible]

Color Before: _____ Clarity Before: _____ Texture: CY _____
Color After: Y _____ Clarity After: C _____ Artifacts: YES _____

Comments:

CLIENT SAMPLE ID: GPEF-LA03-SO

FORM I - IN

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1
INORGANIC ANALYSES DATA SHEET

LA06

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____
Lab Code: EANDE Case No.: 9801.347 SAS No.: _____ SDG No.: LA03
Matrix (soil/water): SOIL Lab Sample ID: 9135
Level (low/med): LOW Date Received: 06/17/98
% Solids: 90.7

[illegible]

Color Before: _____ Clarity Before: _____ Texture: G
Color After: Y Clarity After: C Artifacts: YES

CLIENT SAMPLE ID: GPEF-LA06-SO

10/95

1

INORGANIC ANALYSES DATA SHEET

LA10

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____
 Lab Code: EANDE Case No.: 9801.347 SAS No.: _____ SDG No.: LA03
 Matrix (soil/water): SOIL Lab Sample ID: 9136
 Level (low/med): LOW Date Received: 06/17/98
 % Solids: 82.1

[illegible]

Color Before: _____ Clarity Before: _____ Texture: G
Color After: Y Clarity After: C Artifacts: YES

CLIENT SAMPLE ID: GPEF-LA10-SO

1

INORGANIC ANALYSES DATA SHEET

L02

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____
 Lab Code: EANDE Case No.: 9801.347 SAS No.: _____ SDG No.: LA03
 Matrix (soil/water): SOIL Lab Sample ID: 9137
 Level (low/med): LOW Date Received: 06/17/98
 % Solids: 90.4

[illegible]

Color Before: _____ Clarity Before: _____ Texture: G _____
Color After: Y Clarity After: C Artifacts: YES _____

CLIENT SAMPLE ID: GPEF-L02-S0

10/95

1
INORGANIC ANALYSES DATA SHEET

L03

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____
 Lab Code: EANDE Case No.: 9801.347 SAS No.: _____ SDG No.: LA03
 Matrix (soil/water): SOIL Lab Sample ID: 9138
 Level (low/med): LOW Date Received: 06/17/98
 % Solids: 89.0

[illegible]

Color Before: _____ Clarity Before: _____ Texture: CY _____
Color After: Y Clarity After: C Artifacts: YES _____

CLIENT_SAMPLE_ID: __GPEF-L03-SO__

1

INORGANIC ANALYSES DATA SHEET

L11

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____
 Lab Code: EANDE Case No.: 9801.347 SAS No.: _____ SDG No.: LA03
 Matrix (soil/water): SOIL Lab Sample ID: 9139
 Level (low/med): LOW Date Received: 06/17/98
 % Solids: 85.2

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

[illegible]

Color Before: _____ Clarity Before: _____ Texture: G _____
Color After: Y _____ Clarity After: C _____ Artifacts: YES _____

Comments:

CLIENT SAMPLE ID: GPEF-L11-SO

1
INORGANIC ANALYSES DATA SHEET

L14

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

[illegible]

Color Before: _____ Clarity Before: _____ Texture: G _____
Color After: Y Clarity After: C Artifacts: YES

Comments:

CLIENT SAMPLE ID: GPEF-L14-SO

1
INORGANIC ANALYSES DATA SHEET

L15

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____
 Lab Code: EANDE Case No.: 9801.347 SAS No.: _____ SDG No.: LA03
 Matrix (soil/water): SOIL Lab Sample ID: 9141
 Level (low/med): LOW Date Received: 06/17/98
 % Solids: 67.5

[illegible]

Color Before: _____ Clarity Before: _____ Texture: G _____
Color After: Y Clarity After: C Artifacts: YES

CLIENT SAMPLE ID: GPEF-L15-S0

10/95

1
INORGANIC ANALYSES DATA SHEET

DEC SAMPLE NO.

L20

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____
 Lab Code: EANDE Case No.: 9801.347 SAS No.: _____ SDG No.: LA03
 Matrix (soil/water): SOIL Lab Sample ID: 9142
 Level (low/med): LOW Date Received: 06/17/98
 % Solids: 73.4

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

[illegible]

Color Before: _____ Clarity Before: _____ Texture: G _____
Color After: Y _____ Clarity After: C _____ Artifacts: YES _____

Comments:

CLIENT SAMPLE ID: GPEF-L20-SO

FORM I - IN

10/95

1
INORGANIC ANALYSES DATA SHEET

L21

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____
Lab Code: EANDE Case No.: 9801.347 SAS No.: _____ SDG No.: LA03
Matrix (soil/water): SOIL Lab Sample ID: 9143
Level (low/med): LOW Date Received: 06/17/98
% Solids: 73.8

[illegible]

Color Before: _____ Clarity Before: _____ Texture: G _____
Color After: Y Clarity After: C Artifacts: YES

CLIENT SAMPLE ID: GPEF-L21-SO

1
INORGANIC ANALYSES DATA SHEET

L24

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

[illegible]

Comments:

CLIENT SAMPLE ID: GPEF-L24-SO

1
INORGANIC ANALYSES DATA SHEET

L26

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____
 Lab Code: EANDE Case No.: 9801.347 SAS No.: _____ SDG No.: LA03
 Matrix (soil/water): SOIL Lab Sample ID: 9145
 Level (low/med): LOW Date Received: 06/17/98
 % Solids: 74.5

[illegible]

Color Before: _____ Clarity Before: _____ Texture: CY _____
Color After: Y _____ Clarity After: C _____ Artifacts: YES _____

CLIENT SAMPLE ID: GPEF-L26-SO

1
INORGANIC ANALYSES DATA SHEET

DEC SAMPLE NO.

L27

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____
Lab Code: EANDE Case No.: 9801.347 SAS No.: _____ SDG No.: LA03
Matrix (soil/water): SOIL Lab Sample ID: 9148
Level (low/med): LOW Date Received: 06/17/98
% Solids: 71.5

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

[illegible]

Color Before: _____ Clarity Before: _____ Texture: G _____
 Color After: CL _____ Clarity After: C _____ Artifacts: YES _____

Comments: _____ CLIENT SAMPLE ID: GPEF-L27-SD

FORM I - IN

10/95

1
INORGANIC ANALYSES DATA SHEET

L27A

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____
 Lab Code: EANDE Case No.: 9801.347 SAS No.: _____ SDG No.: LA03
 Matrix (soil/water): SOIL Lab Sample ID: 9146
 Level (low/med): LOW Date Received: 06/17/98
 % Solids: 70.3

[illegible]

Color Before: _____ Clarity Before: _____ Texture: G _____
Color After: CL _____ Clarity After: C _____ Artifacts: YES _____

CLIENT SAMPLE ID: GPEF-L27A-SO

1
INORGANIC ANALYSES DATA SHEET

L27B

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

[illegible]

Comments:

CLIENT SAMPLE ID: GPEF-L27B-SO

1

INORGANIC ANALYSES DATA SHEET

L31

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____
 Lab Code: EANDE Case No.: 9801.347 SAS No.: _____ SDG No.: LA03
 Matrix (soil/water): SOIL Lab Sample ID: 9149
 Level (low/med): LOW Date Received: 06/17/98
 % Solids: 66.1

[illegible]

Color Before: _____ Clarity Before: _____ Texture: CY _____
Color After: Y _____ Clarity After: C _____ Artifacts: YES _____

Comments:

CLIENT SAMPLE ID: GPEF-L31-SO

C

Asbestos Analysis Results



C. Asbestos Test Results

Laboratory Report

Client: Ecology & Environment, Inc.
4493 Walden Avenue
Lancaster, NY 14085

Laboratory Project # NY710167

Project Manager: Paul Chopra

Start Date: 10/14/97

Report Date: 10/16/97

Attention: Jon Nickerman

Project Ref # BY-6000

Purchase Order #

Project: Bulk Samples for Asbestos Analysis

Buffalo - 3 Brown Fields

Analysis Type: Bulk Asbestos Analysis by Polarized Light Microscopy

Authorized Signature

Paul G. Chopra, Laboratory Manager

Analysis Results Table

Client Sample	CLI Sample #	Sample Location / Description Material Description(s)	Asbestos Content	Analyst Comment Non-Asbestos Content	Analyst - Date
The following 7 samples were submitted by Ecology & Environment, Inc. on 10/14/97 and analyzed in accordance with PLM - ELAP Method 198.1					
DPLS-01-A0101497	319416	Roof material 100% Black roof shingle	No Asbestos Detected using PLM	44% Cellulose 20% Fiberglass 36% Non-Fibrous Material	PF 10/16/97
No asbestos detected in sample - NOB Material					
DPLS-02-A0101497	319417	Plaster 100% White fibrous	No Asbestos Detected using PLM	10% Cellulose 19% Fiberglass 71% Non-Fibrous Material	PF 10/16/97
No asbestos detected in sample					
DPLS-03-A0101497	319418	Roofing material 100% Black roof shingle	No Asbestos Detected using PLM	46% Cellulose 22% Fiberglass 32% Non-Fibrous Material	PF 10/16/97
No asbestos detected in sample - NOB Material					
DPLS-04-A0101497	319419	Transite siding 100% Gray transite	31% Chrysotile	19% Fiberglass 50% Non-Fibrous Material	PF 10/16/97
31% asbestos in composite sample					
DPEF-01-A0101497	319420	Ceiling tile 100% Beige ceiling tile	No Asbestos Detected using PLM	40% Cellulose 27% Fiberglass 33% Non-Fibrous Material	PF 10/16/97
No asbestos detected in sample					



1815 Love Road
Grand Island, NY 14072
716-773-7625 FAX 716-773-7624

NIST NVLAP Lab # 1208-01
NYS DOH ELAP Lab # 10954

Analysis Results Table

Client Sample	CLI Sample #	Sample Location / Description Material Description(s)	Asbestos Content	Analyst Comment Non-Asbestos Content	Analyst - Date
DPEF-02-A0101497	319421	Roofing material 100% Black roof shingle	No Asbestos Detected using PLM	41% Cellulose 20% Fiberglass 39% Non-Fibrous Material	PF 10/16/97
No asbestos detected in sample - NOB Material					
DPEF-03-A0101497	319422	Roofing material 100% Black roofing	No Asbestos Detected using PLM	45% Cellulose 18% Fiberglass 37% Non-Fibrous Material	PF 10/16/97
No asbestos detected in sample - NOB Material					

Additional testing is recommended for any material which contains <1% asbestos or NOB (non-friable organically bound) bulk materials which are negative or <1% asbestos. Analysis by Polarized Light Microscopy (PLM) has a degree of uncertainty that is dependent on the sample matrix, non-asbestos minerals present, size of the asbestos present, the sample homogeneity and analyst variability. PLM coefficients of variance range from approx. 1.8, at the quantitation limit of 1%, to 0.1 at high fiber concentrations. All PLM analyses must be reviewed with these factors taken into consideration. These results are submitted pursuant to Chopra-Lee, Inc.'s current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results or recommendations are used or interpreted. These results pertain only to the items tested. Any reproduction of this document must include the entire document in order for the report to be valid. Certification by NIST through NVLAP or New York State through ELAP does not constitute government endorsement of this testing facility. Unless notified in writing to return the samples



1815 Love Road
Grand Island, NY 14072
716-773-7625 FAX 716-773-7624

NIST NVLAP Lab # 1208-01
NYS DOH ELAP Lab # 10954

Laboratory Report

Client: Ecology & Environment, Inc.
4493 Walden Avenue
Lancaster, NY 14086

Laboratory Project # NY710167

Project Manager: Paul Chopra

Start Date: 10/14/97

Report Date: 11/4/97

Attention: Jon Nickerman

Project Reference # BY-6000

Purchase Order #

Project: Bulk Samples for Asbestos Analysis

Buffalo - 3 Brown Fields

Analysis Type: Non-Friable Organically Bound Bulk (NOB) Material
Analysis by Transmission Electron Microscopy (TEM)

Authorized Signature

Paul S. Chopra, Laboratory Manager

Analysis Results Table

Client Sample # Sample Location / Type	Lab Sample #	Sample Description	% Organic	% Acid Soluble	% Acid Insoluble	% Asbestos by type	Total % Asbestos	Analyst Date
Samples Provided by Ecology & Environment, Inc., Received on 10/30/97, samples were prepared and analyzed in accordance with TEM - ELAP Method 198.4 (NOB)								
DPLS-01- A0101497 Roof material	324001	Roofing material	49.1%	16.2%	34.7%	No Asbestos Detected		DM 11/4/97
DPLS-03- A0101497 Roofing material	324002	Roofing material	59.5%	21.5%	19.0%	<1 % Chrysotile	Trace Asbestos Detected	DM 11/4/97
DPEF-02- A0101497 Roofing material	324003	Roofing material	55.3%	20.4%	24.3%		No Asbestos Detected	DM 11/4/97
DPEF-03- A0101497 Roofing material	324004	Roofing material	66.2%	11.1%	22.8%	<1 % Chrysotile	Trace Asbestos Detected	DM 11/4/97



1815 Love Road
Grand Island, NY 14072
716-773-7625 fax 716-773-7624

NYS DOH ELAP Lab # 10954

Analysis Results Table

Client Sample #	Lab Sample #	Sample Description	% Organic	% Acid Soluble	% Acid Insoluble	% Asbestos by type	Total % Asbestos	Analyst Date

These results are submitted pursuant to Chopra-Lee, Inc.'s current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. These results pertain only to the items tested. Certification by New York State through ELAP does not constitute government endorsement of this testing facility. Unless notified in writing to return the samples covered by this report, Chopra-Lee, Inc. will store what remains of the samples for a period of 15 days before discarding, unless otherwise required by law.



1815 Love Road
Grand Island, NY 14072
716-773-7625 fax 716-773-7624

NYS DOH ELAP Lab # 10954

Page # 2 of 2
Report Date 11/4/97
Laboratory # NY710167
Client: Ecology & Environment, Inc

D

Geotechnical Analysis Results



D. Geotechnical Analysis Results

November 3, 1997
File: 1300.24



Mr. Jon Nickerson
Ecology and Environment, Inc.
368 Pleasant View Drive
Lancaster, New York 14086

Re: Geotechnical Laboratory Testing Services
Buffalo Brownfield Sites
Buffalo, New York

364 Nagel Drive
Buffalo, New York
14225
716-685-2300
FAX 716-685-3629

Dear Mr. Nickerson:

GZA GeoEnvironmental of New York (GZA) has completed testing six samples collected by Ecology and Environment, Inc. (E&E) from the Buffalo Brownfield Sites - Buffalo, New York which were delivered under chain of custody to our Buffalo, New York office. The laboratory testing services were conducted in general accordance with your Letter Agreement BY-6962 dated October 22, 1997.

GZA has laboratory tested samples as requested by E&E. The testing program included the following tests: moisture content, particle-size analysis and bulk density determinations.

Enclosed please find one copy of sheets entitled "Geotechnical Laboratory Test Procedures", "Geotechnical Laboratory Testing Data Summary", "Particle-Size Analysis" and "Legend for Geotechnical Laboratory Summary".

GZA appreciates the opportunity to be of service to E&E on this project. Please do not hesitate to contact us with any question or if you require any additional information.

Very truly yours,

GZA GEOENVIRONMENTAL OF NEW YORK

A handwritten signature in black ink, reading "Robert A. Redenbach".

Robert A. Redenbach
Geotechnical Laboratory Supervisor

A handwritten signature in black ink, reading "Ernest R. Hanna".

Ernest R. Hanna, P.E.
Associate Principal

Enclosures

GEOTECHNICAL LABORATORY TEST PROCEDURES

BUFFALO BROWNFIELD SITES

BUFFALO, NEW YORK

File No. 1300.24

November 3, 1997



1. The following tests were conducted in general accordance with the noted ASTM test method:

<u>DESIGNATION</u>	<u>TEST METHOD</u>
ASTM D 422-63	Particle-Size Analysis of Soils
ASTM D 2216-92	Laboratory Determination of Water (Moisture) Content of Soil and Rock
ASTM D 2487-92	Classification of Soils for Engineering Purposes (Unified Classification System) (see Item 2)
ASTM D 2488-93	Description and Identification of Soils (Visual-Manual Procedure) (see Item 3)
ASTM D 2937-94	Density of Soil in Place by the Drive Cylinder Method (see Item 4)
ASTM D 4318-93	Liquid Limit, Plastic Limit, and Plasticity Index of Soils

2. Soil description for samples tested for particle-size analysis and Atterberg limits are based upon particle-size analysis results and determination of the liquid limit, plastic limit and plasticity index.
3. Soil description for samples not tested for particle-size analysis and Atterberg limits are based upon visual examination of particle-size characteristics and a representative portion of the sample used to estimate the plasticity index.
4. Bulk density determinations were conducted on samples collected with thin-walled Shelby tubes.
5. The test results are presented on the Geotechnical Laboratory Testing Data Summary sheet, Particle-Size Analysis sheets, Particle-Size Analysis - Moisture-Density Relationship sheet and Hydraulic Conductivity Using a Flexible Wall Permeameter sheet which follow.

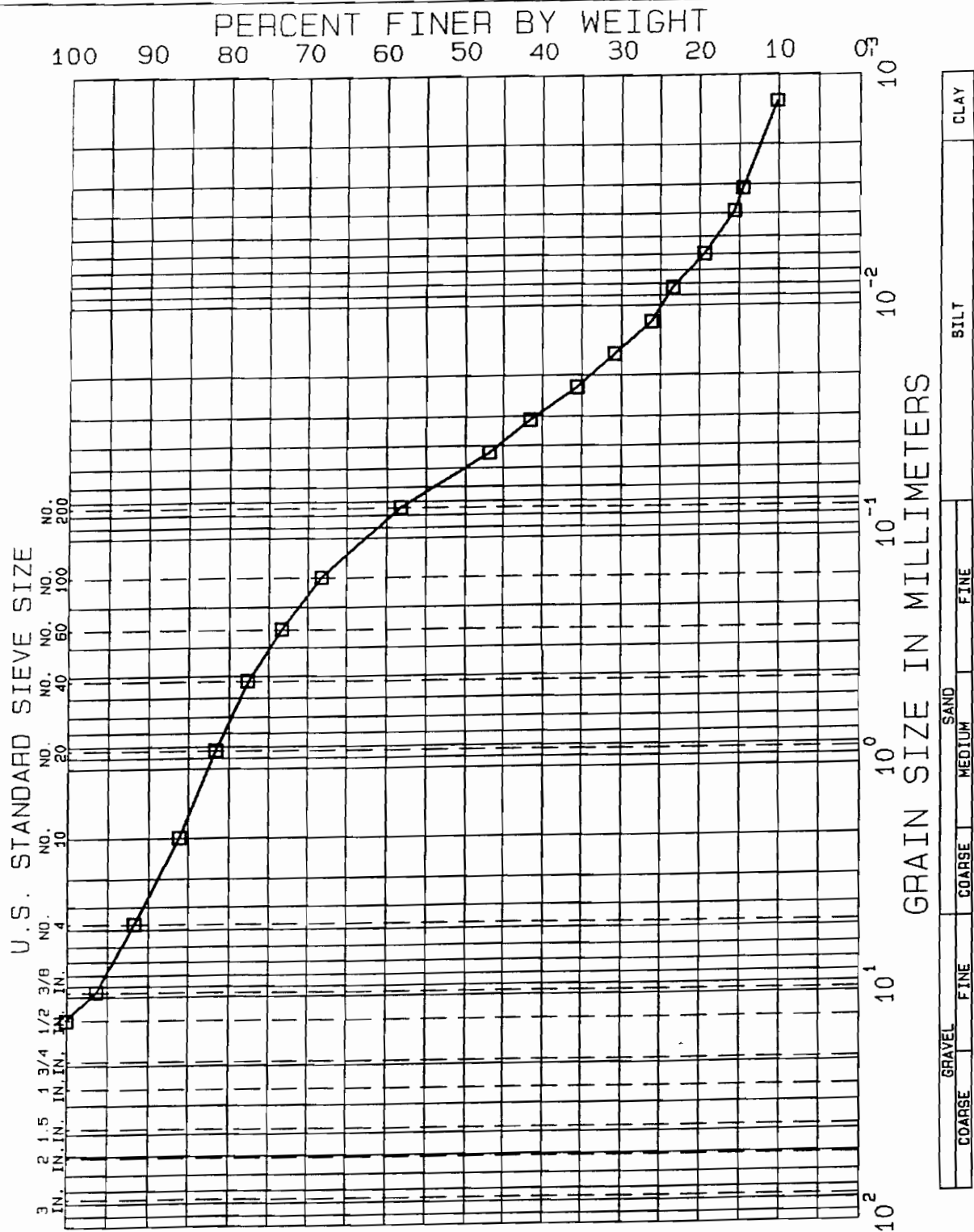
GEOTECHNICAL LABORATORY TESTING DATA SUMMARY

PROJECT NAME: BUFFALO BROWNFIELD SITES - BUFFALO, NEW YORK
 PROJECT NO. 1300.24
 CLIENT: ECOLOGY & ENVIRONMENT, INC.

MATERIAL SOURCE: PROJECT SITE
 DATE REPORTED: 11/3/97

WORK ORDER NO. 3143

IDENTIFICATION	WATER CONTENT %	ATTERBERG LIMITS			GRAIN SIZE ANALYSIS			BULK DENSITY		PERMEABILITY TEST					LABORATORY LOG AND SOIL DESCRIPTION
		LL %	PL %	PI	SIEVE -200 %	HYD. -2 μ %		DRY UNIT WEIGHT pcf	WET UNIT WEIGHT pcf	PERME- ABILITY cm/sec.	TYPE OF TEST	σ_c psf	DRY UNIT WT pcf	WATER CONTENT %	
MWEF-01-BS0101397	11.1	16	13	3	58	12									Brown Sandy Silt (ML)
MWEF-02-S010097	16.6							115.7	134.9						Dark brown Sandy Silty Clay (CL-ML)
MWKA-05-BS0101097	17.9	40	18	22	90	44									Strong brown Lean Clay (CL)
MWKA-05-S0101097	16.7							116.7	136.1						Dark yellowish brown Lean Clay (CL)
MWLS-02-BS0100897	19.2	39	18	21	69	25									Dark brown Sandy Lean Clay (CL)
MWLS-02-S0101397	19.0							108.7	129.4						Strong brown Sandy Lean Clay (CL)
Notes: 1) See Legend for Geotechnical Laboratory Testing Data Summary. 2) See Geotechnical Laboratory Test Procedures for specific test procedures completed.															



TEST NO.		MATERIAL SOURCE		SAMPLE DESCRIPTION	
3.1		MMEF-01-BS0101397		Brown Sandy Silt (ML)	

Test Procedure Information:

Sample separated on a No. 4 sieve. Sample dispersed with a mechanical stirring device, Type A, for 1 minute.

**BUFFALO BROWNFIELD SITES
BUFFALO, NEW YORK
PARTICLE-SIZE ANALYSIS**

SAMPLE NO. **MMEF-01-BS0101397**
DEPTH **ZS**
TECH. **RAR**
REVIEWER

WORK ORDER NO. **3143**
DATE **10/23/97**
FILE **1300.24**

**LEGEND FOR GEOTECHNICAL
LABORATORY TESTING DATA SUMMARY**

WATER CONTENT (ASTM D 2216)

%	=	WATER CONTENT IN PERCENT OF AS RECEIVED SAMPLE

ATTERBERG LIMITS (ASTM D 4318)

LL %	=	LIQUID LIMIT IN PERCENT

PL %	=	PLASTIC LIMIT IN PERCENT

PI	=	PLASTICITY INDEX

GRAIN SIZE ANALYSIS (ASTM D 422)

SIEVE -200 %	=	PERCENT FINES, MATERIAL FINER THAN NO. 200 SIEVE (0.074 MM)

HYD. -2 μ %	=	PERCENT FINER THAN 2 MICRONS

BULK DENSITY (ASTM D 2937)

DRY DENSITY pcf	=	DRY DENSITY IN POUNDS PER CUBIC FOOT

WET DENSITY pcf	=	WET DENSITY IN POUNDS PER CUBIC FOOT

PERMEABILITY TEST (ASTM D 5084)

PERMEABILITY cm/sec.	=	PERMEABILITY MEASURED IN CENTIMETERS PER SECOND

TYPE OF TEST	K _r	=	RECONSTITUTED (REMOLDED) SAMPLE
	K	=	UNDISTURBED SAMPLE

$\bar{\sigma}_c$ psf	=	EFFECTIVE CONFINING PRESSURE DURING PERMEABILITY TEST IN POUNDS PER SQUARE FOOT

DRY UNIT WT. pcf	=	INITIAL DRY DENSITY OF TEST SAMPLE IN POUNDS PER CUBIC FOOT

WATER CONTENT %	=	INITIAL WATER CONTENT OF TEST SAMPLE IN PERCENT

**GZA GeoEnvironmental of New York
Engineers and Scientists**

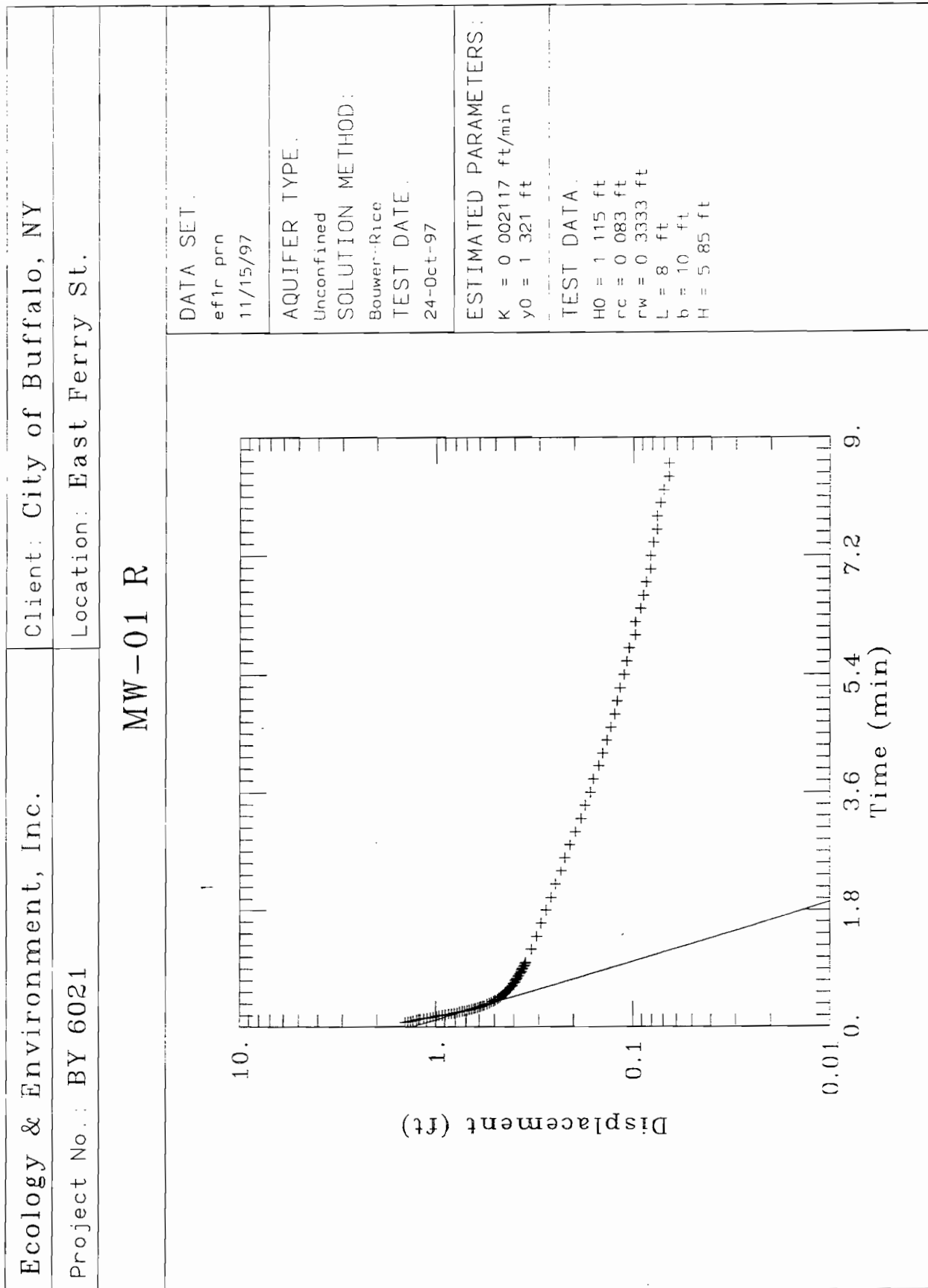
NOV 03 1997

E

Aquifer Test Data

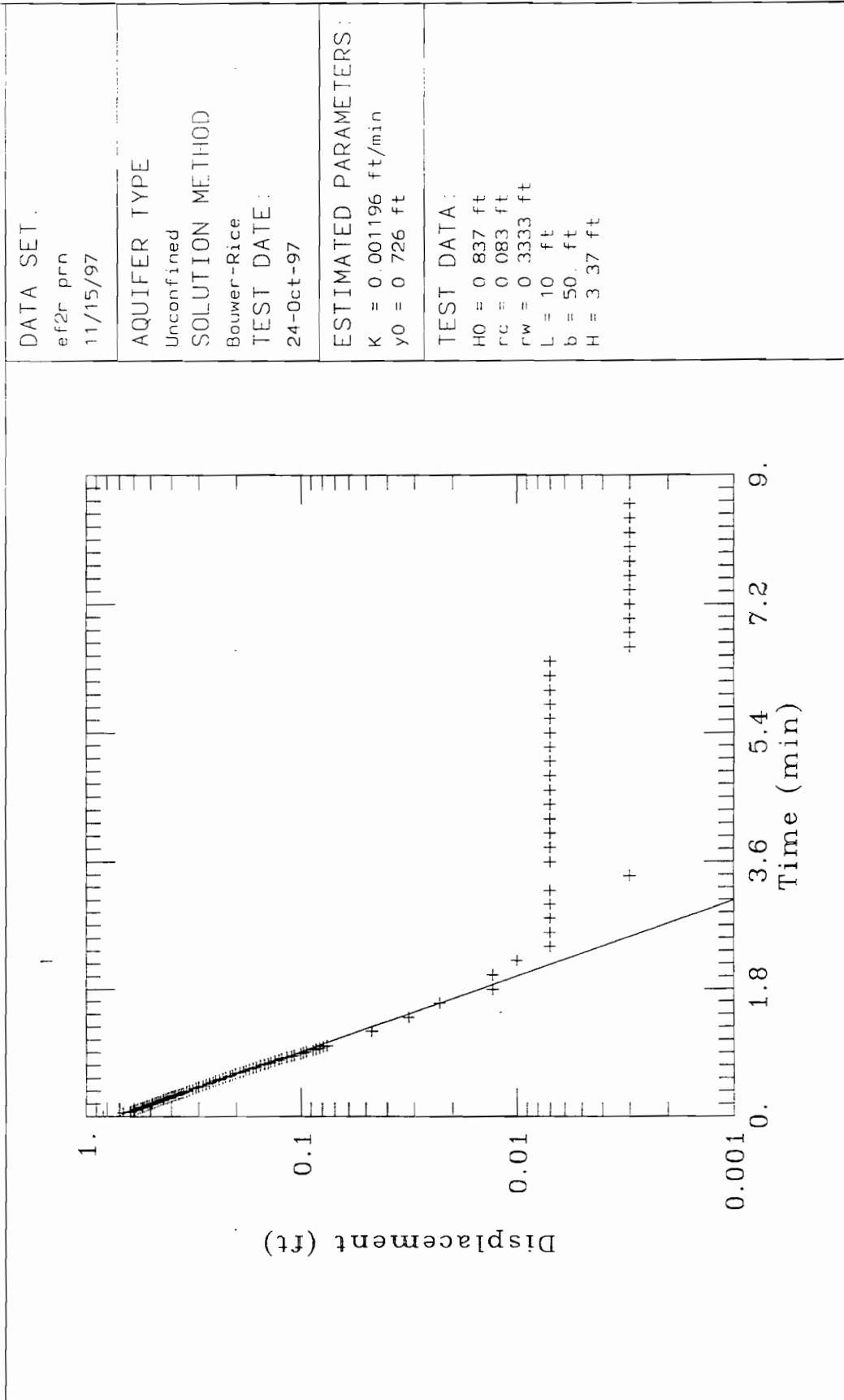


E. Aquifer Test Data



Ecology & Environment, Inc.	Client: City of Buffalo, NY
Project No.: BY 6021	Location: East Ferry St.

MW-02 R

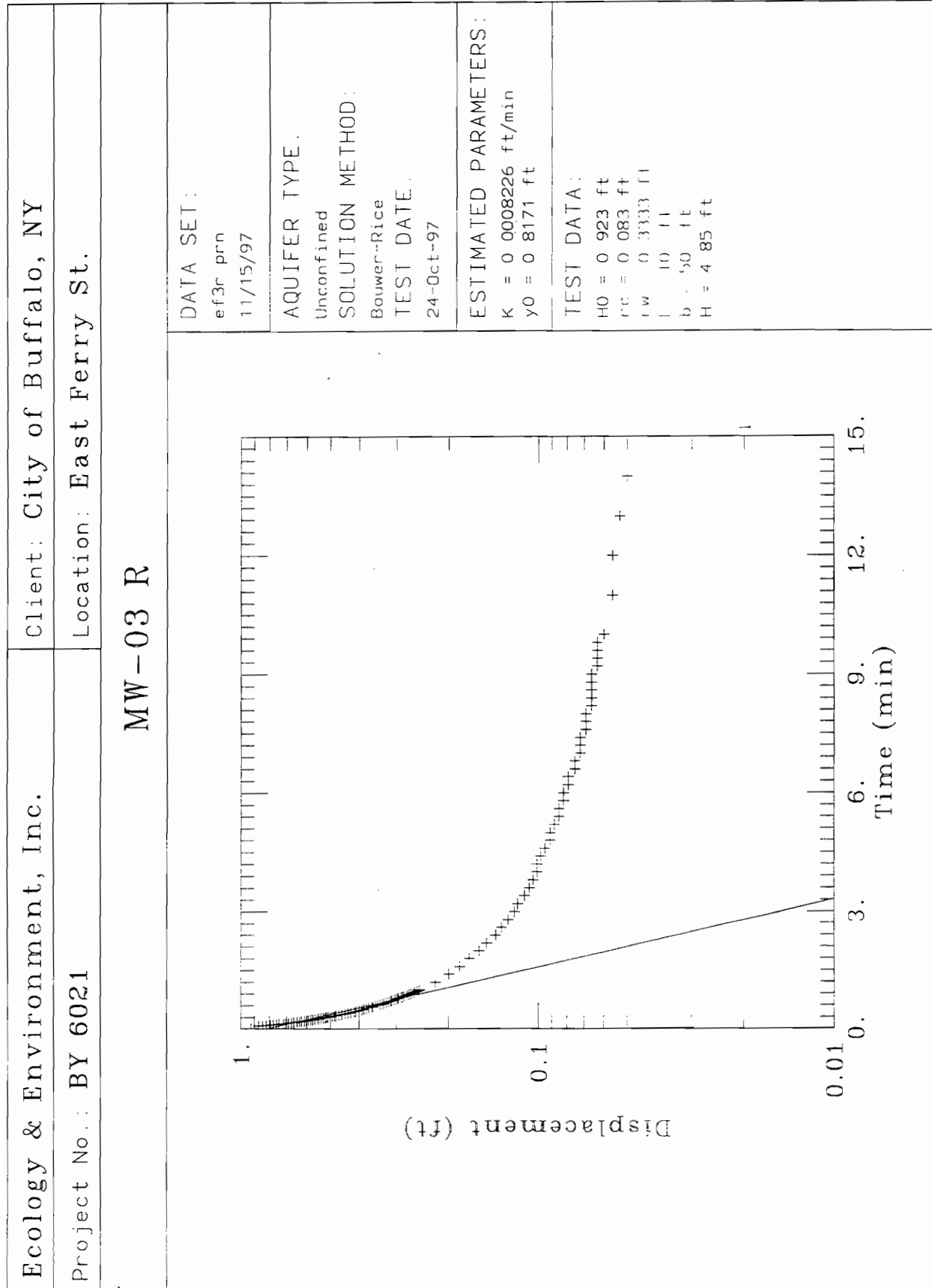


DATA SET.
ef2r prn
11/15/97

AQUIFER TYPE
Unconfined
SOLUTION METHOD
Bouwer-Rice
TEST DATE:
24-Oct-97

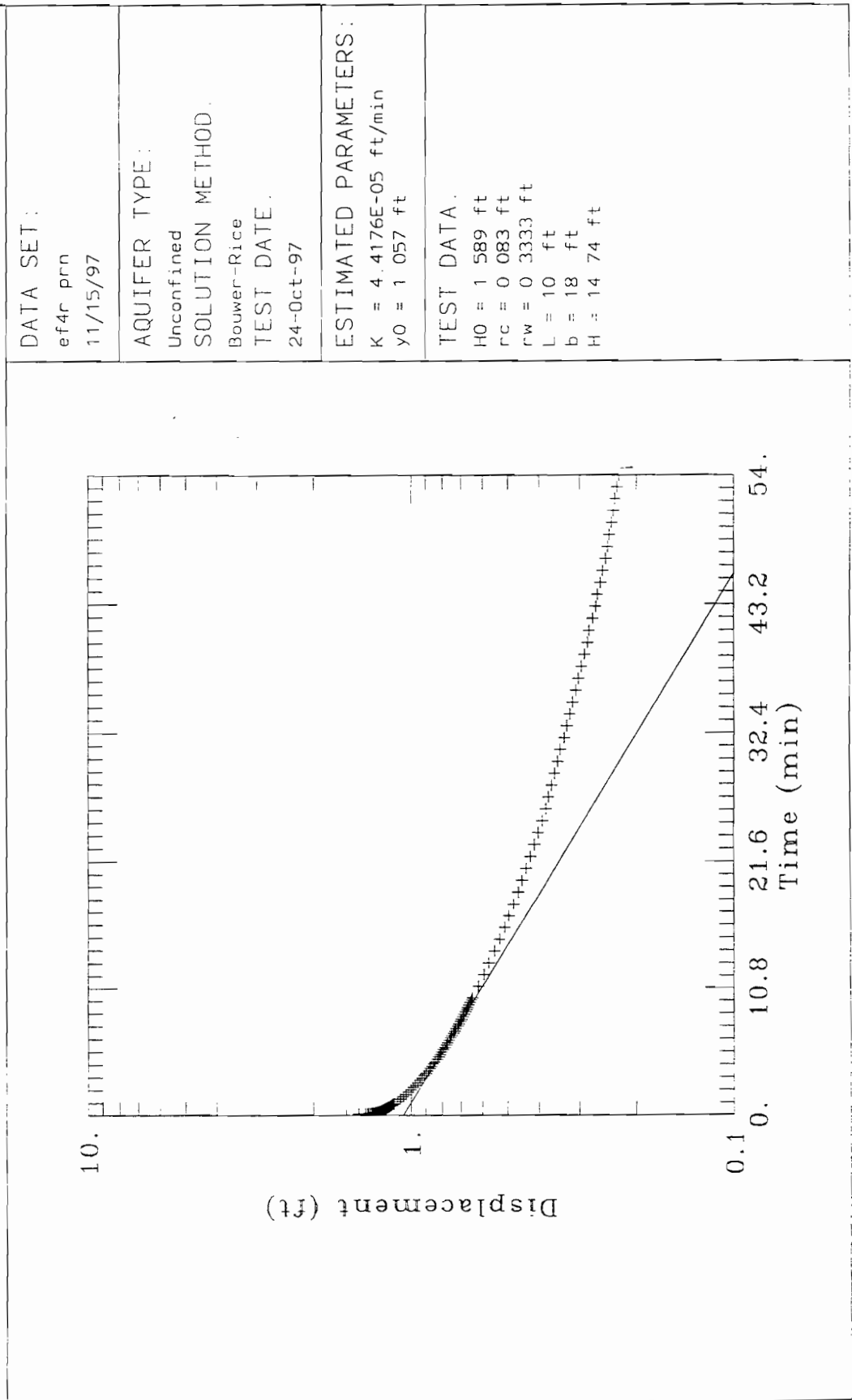
ESTIMATED PARAMETERS:
K = 0.001196 ft/min
y0 = 0.726 ft

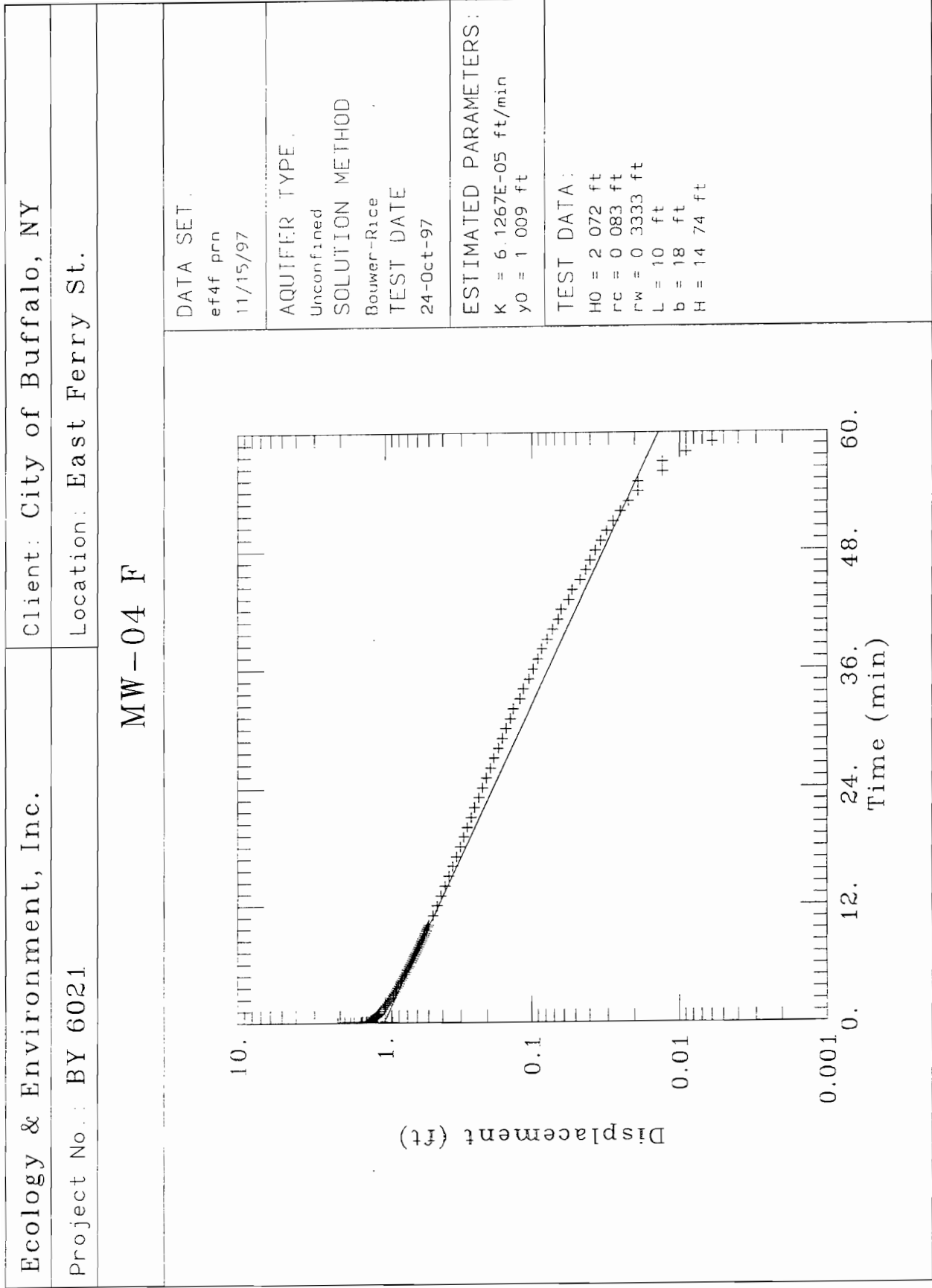
TEST DATA:
H0 = 0.837 ft
rc = 0.083 ft
rw = 0.3333 ft
L = 10 ft
b = 50 ft
H = 3.37 ft



Ecology & Environment, Inc.	Client: City of Buffalo, NY
Project No.: BY 6021	Location: East Ferry St.

MW-04 R





F

Photo Logs



Ecology and Environment, Inc.

PHOTOGRAPHIC RECORD

SITE NAME: 858 East Ferry Street
SITE LOCATION: Buffalo, New York
JOB NUMBER: BY6902

Photo Number: F-6

Subject: Television pile in Cell 9. Two aliquots of composite sample SS-19 were collected from beneath this pile.

Photographer: Jon Nickerson

Date/Time: 10/14/97 10:13

Direction: Northwest



Ecology and Environment, Inc.

PHOTOGRAPHIC RECORD

SITE NAME: 858 East Ferry Street
SITE LOCATION: Buffalo, New York
JOB NUMBER: BY6902

Photo Number: F-6, R-4

Subject: Tire pile in in Cell 9. Note: MW-2 in foreground and north end of concrete overpass in background. Two aliquots of composite surface soil sample SS-18 were collected beneath this portion of this large tire pile.

Photographer: Robert Meyers

Date/Time: 10/23/97 14:01

Direction: Facing east



Ecology and Environment, Inc.

PHOTOGRAPHIC RECORD

SITE NAME: 858 East Ferry Street
SITE LOCATION: Buffalo, New York
JOB NUMBER: BY6902

Photo Number: F-5

Subject: Green transite shingles in Cell 6. Transite is an assumed asbestos-containing material.

Photographer: Jon Nickerson

Date/Time: 10/14/97 10:10

Direction: Facing east



Ecology and Environment, Inc.

PHOTOGRAPHIC RECORD

SITE NAME: 858 East Ferry Street
SITE LOCATION: Buffalo, New York
JOB NUMBER: BY6902

Photo Number: F-25

Subject: Gas tanks located in Cell 12 at northwest corner of site. Composite surface soil sample SS-16 was collected beneath these and other tanks.

Photographer: Jon Nickerson

Date/Time: 10/3/97 13:36

Direction: Facing southwest

