1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD12 SS12

Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.12

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH965.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 21 decanted: (Y/N) N Date Extracted: 07/01/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/09/96

Injection Volume: 2.0(uL) Dilution Factor: 5.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	2100	U
111-44-4	bis(2-Chloroethyl)Ether	2100	U
95-57-8	2-Chlorophenol	2100	U
541-73-1	1,3-Dichlorobenzene	2100	U
106-46-7	1,4-Dichlorobenzene	2100	U
95-50-1	1,2-Dichlorobenzene	2100	U
95-48-7	2-Methylphenol	2100	U
108-60-1	2,2'-oxybis(1-Chloropropane)	2100	U
106-44-5	4-Methylphenol	2100	U
621-64-7	N-Nitroso-di-n-propylamine	2100	U
67-72-1	Hexachloroethane	2100	U
98-95-3	Nitrobenzene	2100	U
78-59-1	Isophorone	2100	U
88-75-5	2-Nitrophenol	2100	U
105-67-9	2,4-Dimethylphenol	2100	U
111-91-1	bis(2-Chloroethoxy)methane	2100	U
120-83-2	2,4-Dichlorophenol	2100	U
120-82-1	1,2,4-Trichlorobenzene	2100	U
91-20-3	Naphthalene	2100	U
106-47-8	4-Chloroaniline	2100	U
87-68-3	Hexachlorobutadiene	2100	U
59-50-7	4-Chloro-3-Methylphenol	2100	U
91-57-6	2-Methylnaphthalene	2100	U
77-47-4	Hexachlorocyclopentadiene	2100	U
88-06-2	2,4,6-Trichlorophenol	2100	U
95-95-4	2,4,5-Trichlorophenol	5200	U
91-58-7	2-Chloronaphthalene	2100	U
88-74-4	2-Nitroaniline	5200	U
131-11-3	Dimethylphthalate	2100	U
208-96-8	Acenaphthylene	2100	U
606-20-2	2,6-Dinitrotoluene	2100	U
99-09-2	3-Nitroaniline	5200	U
83-32-9	Acenaphthene	160	J

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD12 SS12

ab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.12

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH965.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 21 decanted: (Y/N) N Date Extracted: 07/01/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/09/96

Injection Volume: 2.0(uL) Dilution Factor: 5.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	5200	U
100-02-7	4-Nitrophenol	5200	U
132-64-9	Dibenzofuran	2100	U
121-14-2	2,4-Dinitrotoluene	2100	U
84-66-2	Diethylphthalate	2100	U
7005-72-3	4-Chlorophenyl-phenylether	2100	U
86-73-7	Fluorene	170	J
100-01-6	4-Nitroaniline	5200	U
534-52-1	4,6-Dinitro-2-methylphenol	5200	U
86-30-6	N-Nitrosodiphenylamine (1)	2100	U
101-55-3	4-Bromophenyl-phenylether	2100	U
118-74-1	Hexachlorobenzene	2100	U
87-86-5	Pentachlorophenol	5200	U
85-01-8	Phenanthrene	4200	
120-12-7	Anthracene	920	J
86-74-8	Carbazole	170	J
84-74-2	Di-n-butylphthalate	590	J
206-44-0	Fluoranthene	5600	
129-00-0	Pyrene	8600	
85-68-7	Butylbenzylphthalate	160	J
91-94-1	3,3'-Dichlorobenzidine	2100	U
56-55-3	Benzo(a)anthracene	3500	
218-01-9	Chrysene	4000	
117-81-7	bis(2-Ethylhexyl)phthalate	2100 ~~570~~	JB
117-84-0	Di-n-octylphthalate	2100	U
205-99-2	Benzo(b)fluoranthene	2700	
207-08-9	Benzo(k)fluoranthene	3200	
50-32-8	Benzo(a)pyrene	3000	
193-39-5	Indeno(1,2,3-cd)pyrene	1800	J
53-70-3	Dibenz(a,h)anthracene	600	J
191-24-2	Benzo(g,h,i)perylene	2100	

U EM 8/09/96

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EZD12

Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.12

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH965.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 21 decanted: (Y/N) N Date Extracted: 07/01/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/09/96

Injection Volume: 2.0(uL) Dilution Factor: 5.0

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

Number TICs found: 22

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1.		UNKNOWN	2.886	880	J	
2.	141-79-7	3-Penten-2-one, 4-methyl-	2.907	770	NJAB	KM
3.		UNKNOWN	3.167	650	J	
4.	123-42-2	2-Pentanone, 4-hydroxy-4-met	3.292	660	NJAB	KM
5.	0-00-0	4-Hydroxy-5-oxohexanoic acid	4.124	470	NJ	8/04/96
6.		Anthracene, -methyl-	15.629	810	J	
7.		Anthracene, -methyl-	15.703	850	J	
8.		Anthracene, -methyl-	15.914	910	J	
9.		1H-Indene, -phenyl-	15.966	630	J	
10.		UNKNOWN ORGANIC ACID	16.061	1300	J	
11.	35465-71-5	2-Phenylnaphthalene	16.410	720	NJ	
12.	84-65-1	9,10-Anthracenedione	16.484	580	NJ	
13.		Pyrene, -methyl-	18.570	700	J	
14.		Pyrene, -methyl-	18.824	1900	J	
15.		Pyrene, -methyl-	19.090	520	J	
16.		Pyrene, -methyl-	19.313	650	J	
17.	82-05-3	7H-Benz[de]anthracen-7-one	20.162	820	NJ	
18.		Benzo[]fluoranthene	20.491	1100	J	
19.	82-05-3	7H-Benz[de]anthracen-7-one	20.682	550	NJ	
20.		Chrysene, -methyl-	22.041	540	J	
21.		UNKNOWN AMIDE	23.188	1900	JB	KM
22.	0-00-0	1,2:3,4-Dibenzpyrene	29.284	1600	NJ	8/04/96
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD13 SS13

ab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.13

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH974.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 28 decanted: (Y/N) N Date Extracted: 07/01/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/10/96

Injection Volume: 2.0(uL) Dilution Factor: 5.0

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	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	2300	U
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	2300	U
77-47-4	Hexachlorocyclopentadiene	2300	U
88-06-2	2,4,6-Trichlorophenol	2300	U
95-95-4	2,4,5-Trichlorophenol	5800	U
91-58-7	2-Chloronaphthalene	2300	U
88-74-4	2-Nitroaniline	5800	U
131-11-3	Dimethylphthalate	300	J
208-96-8	Acenaphthylene	2300	U
606-20-2	2,6-Dinitrotoluene	2300	U
99-09-2	3-Nitroaniline	5800	U
83-32-9	Acenaphthene	150	J

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD13 SS13

-b Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.13

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH974.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 28 decanted: (Y/N) N Date Extracted: 07/01/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/10/96

Injection Volume: 2.0(uL) Dilution Factor: 5.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	5800	U
100-02-7	4-Nitrophenol	5800	U
132-64-9	Dibenzofuran	2300	U
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	2300	U
100-01-6	4-Nitroaniline	5800	U
534-52-1	4,6-Dinitro-2-methylphenol	5800	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	5800	U
85-01-8	Phenanthrene	3200	
120-12-7	Anthracene	710	J
86-74-8	Carbazole	1100	J
84-74-2	Di-n-butylphthalate	370	J
206-44-0	Fluoranthene	10000	
129-00-0	Pyrene	11000	
85-68-7	Butylbenzylphthalate	150	J
91-94-1	3,3'-Dichlorobenzidine	2300	U
56-55-3	Benzo(a)anthracene	6900	
218-01-9	Chrysene	7800	
117-81-7	bis(2-Ethylhexyl)phthalate	2300 ~~1000~~	JB
117-84-0	Di-n-octylphthalate	2300	U
205-99-2	Benzo(b)fluoranthene	5100	
207-08-9	Benzo(k)fluoranthene	5900	
50-32-8	Benzo(a)pyrene	3800	
193-39-5	Indeno(1,2,3-cd)pyrene	2000	J
53-70-3	Dibenz(a,h)anthracene	1000	J
191-24-2	Benzo(g,h,i)perylene	1600	J

u KM 8/09/96

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EZD13

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.13

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH974.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 28 decanted: (Y/N) N Date Extracted: 07/01/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/10/96

Injection Volume: 2.0(uL) Dilution Factor: 5.0

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

Number TICs found: 25

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	2.855	1500	J
2.	25414-22-6	Furan, 2-methoxy-	2.876	890	NJ
3.		UNKNOWN ORGANIC ACID	3.125	1300	J
4.	123-42-2	2-Pentanone, 4-hydroxy-4-met	3.250	960	NJAB
5.		UNKNOWN	4.237	750	JB
6.		Anthracene, -methyl-	15.538	470	J
7.	35465-71-5	2-Phenylnaphthalene	16.251	520	NJ
8.		UNKNOWN PAH	17.598	830	J
9.	243-42-5	Benzo[b]naphtho[2,3-d]furan	18.115	1000	NJ
10.		11H-Benzo[]fluorene	18.400	940	J
11.		Pyrene, -methyl-	18.653	2200	J
12.		Pyrene, -methyl-	18.907	1300	J
13.		UNKNOWN PAH	19.763	990	J
14.	82-05-3	7H-Benz[de]anthracen-7-one	19.964	2500	NJ
15.	239-35-0	Benzo[b]naphtho[2,1-d]thioph	20.207	870	NJ
16.		UNKNOWN PAH	20.302	2100	J
17.		UNKNOWN PAH	20.397	1400	J
18.	82-05-3	7H-Benz[de]anthracen-7-one	20.482	2000	NJ
19.		UNKNOWN PAH	21.361	930	J
20.		Chrysene, -methyl-	21.859	900	J
21.		Benzo[]phenanthrene, -methyl	21.954	820	J
22.		UNKNOWN PAH	23.023	1700	J
23.		Benzo[]fluoranthene	23.584	1600	J
24.	192-97-2	Benzo[e]pyrene	23.944	2700	NJ
25.		UNKNOWN PAH	24.823	1300	J
26.					
27.					
28.					
29.					
30.					

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD14 SS14

b Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.14

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH917.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 38 decanted: (Y/N) N Date Extracted: 06/20/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/08/96

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	530	U
111-44-4	bis(2-Chloroethyl)Ether	530	U
95-57-8	2-Chlorophenol	530	U
541-73-1	1,3-Dichlorobenzene	530	U
106-46-7	1,4-Dichlorobenzene	530	U
95-50-1	1,2-Dichlorobenzene	530	U
95-48-7	2-Methylphenol	530	U
108-60-1	2,2'-oxybis(1-Chloropropane)	530	U
106-44-5	4-Methylphenol	530	U
621-64-7	N-Nitroso-di-n-propylamine	530	U
67-72-1	Hexachloroethane	530	U
98-95-3	Nitrobenzene	530	U
78-59-1	Isophorone	530	U
88-75-5	2-Nitrophenol	530	U
105-67-9	2,4-Dimethylphenol	530	U
111-91-1	bis(2-Chloroethoxy)methane	530	U
120-83-2	2,4-Dichlorophenol	530	U
120-82-1	1,2,4-Trichlorobenzene	530	U
91-20-3	Naphthalene	530	U
106-47-8	4-Chloroaniline	530	U
87-68-3	Hexachlorobutadiene	530	U
59-50-7	4-Chloro-3-Methylphenol	530	U
91-57-6	2-Methylnaphthalene	530	U
77-47-4	Hexachlorocyclopentadiene	530	U
88-06-2	2,4,6-Trichlorophenol	530	U
95-95-4	2,4,5-Trichlorophenol	1300	U
91-58-7	2-Chloronaphthalene	530	U
88-74-4	2-Nitroaniline	1300	U
131-11-3	Dimethylphthalate	530	U
208-96-8	Acenaphthylene	530	U
606-20-2	2,6-Dinitrotoluene	530	U
99-09-2	3-Nitroaniline	1300	U
83-32-9	Acenaphthene	530	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD14 SS14

ab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.14

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH917.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 38 decanted: (Y/N) N Date Extracted: 06/20/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/08/96

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
51-28-5	2,4-Dinitrophenol	1300	U
100-02-7	4-Nitrophenol	1300	U
132-64-9	Dibenzofuran	530	U
121-14-2	2,4-Dinitrotoluene	530	U
84-66-2	Diethylphthalate	530 ~~61~~	JB u KM 8/09/96
7005-72-3	4-Chlorophenyl-phenylether	530	U
86-73-7	Fluorene	530	U
100-01-6	4-Nitroaniline	1300	U
534-52-1	4,6-Dinitro-2-methylphenol	1300	U
86-30-6	N-Nitrosodiphenylamine (1)	530	U
101-55-3	4-Bromophenyl-phenylether	530	U
118-74-1	Hexachlorobenzene	530	U
87-86-5	Pentachlorophenol	1300	U
85-01-8	Phenanthrene	530	U
120-12-7	Anthracene	530	U
86-74-8	Carbazole	530	U
84-74-2	Di-n-butylphthalate	530 ~~220~~	JB u KM 8/09/96
206-44-0	Fluoranthene	530	U
129-00-0	Pyrene	530	U
85-68-7	Butylbenzylphthalate	530	U
91-94-1	3,3'-Dichlorobenzidine	530	U
56-55-3	Benzo(a)anthracene	530	U
218-01-9	Chrysene	530	U
117-81-7	bis(2-Ethylhexyl)phthalate	530 ~~71~~	JB u KM 8/09/96
117-84-0	Di-n-octylphthalate	530	U
205-99-2	Benzo(b)fluoranthene	530	U
207-08-9	Benzo(k)fluoranthene	530	U
50-32-8	Benzo(a)pyrene	530	U
193-39-5	Indeno(1,2,3-cd)pyrene	530	U
53-70-3	Dibenz(a,h)anthracene	530	U
191-24-2	Benzo(g,h,i)perylene	530	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EZD14

Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.14

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH917.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 38 decanted: (Y/N) N Date Extracted: 06/20/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/08/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 31

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1. 141-79-7	3-Penten-2-one, 4-methyl-	2.971	1600	NJAB	u KM
2. 123-42-2	2-Pentanone, 4-hydroxy-4-met	3.386	1500	NJAB	u 8/04/1
3.	-Hydroxy--oxohexanoic acid 1	4.227	210	J	
4.	UNKNOWN	9.931	110	J	
5.	UNKNOWN PHTHALATE	15.333	130	J	
6.	UNKNOWN	15.868	120	J	
7.	UNKNOWN	17.186	110	J	
8.	UNKNOWN	17.842	110	J	
9.	UNKNOWN	18.139	220	J	
10.	UNKNOWN AMIDE	18.224	490	JB	u KM
11.	UNKNOWN AMIDE	18.383	390	JB	u 8/04/1
12.	UNKNOWN	18.467	160	J	
13.	UNKNOWN	19.199	130	J	
14.	UNKNOWN PAH	19.698	400	J	
15.	UNKNOWN	19.772	140	J	
16.	UNKNOWN AMIDE	20.048	68	JB	u KM 8/04/1
17.	UNKNOWN PAH	21.119	380	J	
18.	UNKNOWN	21.342	250	J	
19.	UNKNOWN	21.522	190	J	
20.	UNKNOWN	21.903	190	J	
21.	UNKNOWN	22.136	170	J	
22.	UNKNOWN	22.295	190	J	
23.	UNKNOWN	22.623	240	J	
24.	UNKNOWN	23.828	620	J	
25.	UNKNOWN	24.123	270	J	
26.	UNKNOWN	24.271	370	J	
27.	UNKNOWN	24.461	470	J	
28.	UNKNOWN	24.756	330	J	
29.	UNKNOWN	25.199	480	J	
30.	UNKNOWN	25.672	560	J	

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EZD14

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.14

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH917.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 38 decanted: (Y/N) N Date Extracted: 06/20/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/08/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 31

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN PAH	26.249	440	J
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
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19.					
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22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD15 SS15

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.15

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH918.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 43 decanted: (Y/N) N Date Extracted: 06/20/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/08/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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	580	U
111-44-4	bis(2-Chloroethyl)Ether	580	U
95-57-8	2-Chlorophenol	580	U
541-73-1	1,3-Dichlorobenzene	580	U
106-46-7	1,4-Dichlorobenzene	580	U
95-50-1	1,2-Dichlorobenzene	580	U
95-48-7	2-Methylphenol	580	U
108-60-1	2,2'-oxybis(1-Chloropropane)	580	U
106-44-5	4-Methylphenol	580	U
621-64-7	N-Nitroso-di-n-propylamine	580	U
67-72-1	Hexachloroethane	580	U
98-95-3	Nitrobenzene	580	U
78-59-1	Isophorone	580	U
88-75-5	2-Nitrophenol	580	U
105-67-9	2,4-Dimethylphenol	580	U
111-91-1	bis(2-Chloroethoxy)methane	580	U
120-83-2	2,4-Dichlorophenol	580	U
120-82-1	1,2,4-Trichlorobenzene	580	U
91-20-3	Naphthalene	580	U
106-47-8	4-Chloroaniline	580	U
87-68-3	Hexachlorobutadiene	580	U
59-50-7	4-Chloro-3-Methylphenol	580	U
91-57-6	2-Methylnaphthalene	580	U
77-47-4	Hexachlorocyclopentadiene	580	U
88-06-2	2,4,6-Trichlorophenol	580	U
95-95-4	2,4,5-Trichlorophenol	1400	U
91-58-7	2-Chloronaphthalene	580	U
88-74-4	2-Nitroaniline	1400	U
131-11-3	Dimethylphthalate	580	U
208-96-8	Acenaphthylene	580	U
606-20-2	2,6-Dinitrotoluene	580	U
99-09-2	3-Nitroaniline	1400	U
83-32-9	Acenaphthene	580	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD15 SS15

ab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.15

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH918.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 43 decanted: (Y/N) N Date Extracted: 06/20/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/08/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1400	U
100-02-7	4-Nitrophenol	1400	U
132-64-9	Dibenzofuran	580	U
121-14-2	2,4-Dinitrotoluene	580	U
84-66-2	Diethylphthalate	580	U
7005-72-3	4-Chlorophenyl-phenylether	580	U
86-73-7	Fluorene	580	U
100-01-6	4-Nitroaniline	1400	U
534-52-1	4,6-Dinitro-2-methylphenol	1400	U
86-30-6	N-Nitrosodiphenylamine (1)	580	U
101-55-3	4-Bromophenyl-phenylether	580	U
118-74-1	Hexachlorobenzene	580	U
87-86-5	Pentachlorophenol	1400	U
85-01-8	Phenanthrene	150	J
120-12-7	Anthracene	580	U
86-74-8	Carbazole	580	U
84-74-2	Di-n-butylphthalate	580 ~~250~~	JB u KM 8/09/96
206-44-0	Fluoranthene	490	J
129-00-0	Pyrene	430	J
85-68-7	Butylbenzylphthalate	580	U
91-94-1	3,3'-Dichlorobenzidine	580	U
56-55-3	Benzo(a)anthracene	240	J
218-01-9	Chrysene	390	J
117-81-7	bis(2-Ethylhexyl)phthalate	640	B
117-84-0	Di-n-octylphthalate	580	U
205-99-2	Benzo(b)fluoranthene	450	J
207-08-9	Benzo(k)fluoranthene	250	J
50-32-8	Benzo(a)pyrene	170	J
193-39-5	Indeno(1,2,3-cd)pyrene	170	J
53-70-3	Dibenz(a,h)anthracene	580	U
191-24-2	Benzo(g,h,i)perylene	180	J

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EZD15

Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.15

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH918.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 43 decanted: (Y/N) N Date Extracted: 06/20/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/08/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 29

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1. 141-79-7	3-Penten-2-one, 4-methyl-	2.974	1600	NJAB	u KM
2. 123-42-2	2-Pentanone, 4-hydroxy-4-met	3.380	1600	NJAB	u 8/0/1
3. 0-00-0	4-Hydroxy-5-oxohexanoic acid	4.232	180	NJ	
4.	UNKNOWN	5.427	120	J	
5. 98-86-2	Acetophenone	5.707	180	NJ	
6. 85-44-9	Phthalic anhydride	8.831	120	NJ	
7.	UNKNOWN	9.931	120	J	
8.	UNKNOWN	14.253	230	J	
9.	UNKNOWN ORGANIC ACID	16.221	610	J	
10.	UNKNOWN AMIDE	18.227	130	JB	u KM
11.	UNKNOWN AMIDE	18.397	150	JB	u 8/0/1
12.	UNKNOWN PAH	18.991	300	J	
13.	UNKNOWN AMIDE	20.053	1500	JB	u KM 8/0/1c
14. 82-05-3	7H-Benz[de]anthracen-7-one	20.309	270	NJ	
15. 82-05-3	7H-Benz[de]anthracen-7-one	20.808	140	NJ	
16.	UNKNOWN PAH	21.904	120	J	
17.	UNKNOWN PAH	22.319	170	J	
18.	UNKNOWN	22.564	140	J	
19.	UNKNOWN	22.628	130	J	
20.	UNKNOWN AMIDE	23.362	1400	JB	u KM 8/0/1
21.	UNKNOWN	23.829	380	J	
22. 192-97-2	Benzo[e]pyrene	24.307	590	NJ	
23.	UNKNOWN PAH	24.455	330	J	
24.	UNKNOWN PAH	24.763	380	J	
25.	UNKNOWN	25.186	370	J	
26.	UNKNOWN	25.545	270	J	
27.	UNKNOWN PAH	25.672	560	J	
28.	UNKNOWN PAH	26.241	560	J	
29.	UNKNOWN	28.870	530	J	
30.					

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD16 SS16

ab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.16

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH958.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 36 decanted: (Y/N) N Date Extracted: 06/20/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/09/96

Injection Volume: 2.0(uL) Dilution Factor: 5.0

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	2600	U
111-44-4	bis(2-Chloroethyl)Ether	2600	U
95-57-8	2-Chlorophenol	2600	U
541-73-1	1,3-Dichlorobenzene	2600	U
106-46-7	1,4-Dichlorobenzene	2600	U
95-50-1	1,2-Dichlorobenzene	2600	U
95-48-7	2-Methylphenol	2600	U
108-60-1	2,2'-oxybis(1-Chloropropane)	2600	U
106-44-5	4-Methylphenol	2600	U
621-64-7	N-Nitroso-di-n-propylamine	2600	U
67-72-1	Hexachloroethane	2600	U
98-95-3	Nitrobenzene	2600	U
78-59-1	Isophorone	2600	U
88-75-5	2-Nitrophenol	2600	U
105-67-9	2,4-Dimethylphenol	2600	U
111-91-1	bis(2-Chloroethoxy)methane	2600	U
120-83-2	2,4-Dichlorophenol	2600	U
120-82-1	1,2,4-Trichlorobenzene	2600	U
91-20-3	Naphthalene	570	J
106-47-8	4-Chloroaniline	2600	U
87-68-3	Hexachlorobutadiene	2600	U
59-50-7	4-Chloro-3-Methylphenol	2600	U
91-57-6	2-Methylnaphthalene	140	J
77-47-4	Hexachlorocyclopentadiene	2600	U
88-06-2	2,4,6-Trichlorophenol	2600	U
95-95-4	2,4,5-Trichlorophenol	6500	U
91-58-7	2-Chloronaphthalene	2600	U
88-74-4	2-Nitroaniline	6500	U
131-11-3	Dimethylphthalate	530	J
208-96-8	Acenaphthylene	2600	U
606-20-2	2,6-Dinitrotoluene	2600	U
99-09-2	3-Nitroaniline	6500	U
83-32-9	Acenaphthene	1100	J

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD16 SS16

b Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.16

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH958.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 36 decanted: (Y/N) N Date Extracted: 06/20/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/09/96

Injection Volume: 2.0(uL) Dilution Factor: 5.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	6500	U
100-02-7	4-Nitrophenol	6500	U
132-64-9	Dibenzofuran	310	J
121-14-2	2,4-Dinitrotoluene	2600	U
84-66-2	Diethylphthalate	2600	U
7005-72-3	4-Chlorophenyl-phenylether	2600	U
86-73-7	Fluorene	420	J
100-01-6	4-Nitroaniline	6500	U
534-52-1	4,6-Dinitro-2-methylphenol	6500	U
86-30-6	N-Nitrosodiphenylamine (1)	2600	U
101-55-3	4-Bromophenyl-phenylether	2600	U
118-74-1	Hexachlorobenzene	2600	U
87-86-5	Pentachlorophenol	6500	U
85-01-8	Phenanthrene	6700	
120-12-7	Anthracene	1600	J
86-74-8	Carbazole	1600	J
84-74-2	Di-n-butylphthalate	2600 ~~790~~	JB u KM 8/09/96
206-44-0	Fluoranthene	9400	
129-00-0	Pyrene	12000	
85-68-7	Butylbenzylphthalate	450	J
91-94-1	3,3'-Dichlorobenzidine	2600	U
56-55-3	Benzo(a)anthracene	7200	
218-01-9	Chrysene	7500	
117-81-7	bis(2-Ethylhexyl)phthalate	2600 ~~1900~~	JB u KM 8/09/96
117-84-0	Di-n-octylphthalate	2600	U
205-99-2	Benzo(b)fluoranthene	7000	
207-08-9	Benzo(k)fluoranthene	5000	
50-32-8	Benzo(a)pyrene	4200	
193-39-5	Indeno(1,2,3-cd)pyrene	3900	
53-70-3	Dibenz(a,h)anthracene	1800	J
191-24-2	Benzo(g,h,i)perylene	4300	

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EZD16

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.16

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH958.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 36 decanted: (Y/N) N Date Extracted: 06/20/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/09/96

Injection Volume: 2.0(uL) Dilution Factor: 5.0

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

Number TICs found: 26

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	141-79-7	3-Penten-2-one, 4-methyl-	2.900	1700	NJAB
2.	123-42-2	2-Pentanone, 4-hydroxy-4-met	3.294	2600	NJAB
3.	98-86-2	Acetophenone	5.572	800	NJ
4.		UNKNOWN PAH	14.936	1400	J
5.		Phenanthrene, -methyl-	15.732	1100	J
6.		UNKNOWN PAH	15.817	640	J
7.	203-64-5	4H-Cyclopenta[def]phenanthre	15.933	2400	NJ
8.		UNKNOWN	16.050	1900	J
9.		UNKNOWN ORGANIC ACID	16.157	3100	J
10.		Naphthalene, -phenyl-	16.454	980	J
11.	84-65-1	9,10-Anthracenedione	16.518	580	NJ
12.		UNKNOWN	16.678	1700	J
13.		UNKNOWN	17.061	850	J
14.		UNKNOWN ORGANIC ACID	18.116	740	J
15.		11H-Benzo[]fluorene	18.916	780	J
16.	78-51-3	Ethanol, 2-butoxy-, phosphat	20.347	3800	NJ
17.		UNKNOWN	20.668	3100	J
18.	82-05-3	7H-Benz[de]anthracen-7-one	20.754	3400	NJ
19.		UNKNOWN PAH	21.342	3100	J
20.		UNKNOWN	21.695	4800	J
21.		UNKNOWN	21.760	4000	J
22.		UNKNOWN PAH	21.942	5600	J
23.		UNKNOWN	22.617	3000	J
24.		UNKNOWN PAH	24.599	5200	J
25.		UNKNOWN	25.017	4900	J
26.	0-00-0	1,2:3,4-Dibenzpyrene	29.271	3000	NJ
27.					
28.					
29.					
30.					

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD17 SS17

Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.17

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH959.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 37 decanted: (Y/N) N Date Extracted: 06/20/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/09/96

Injection Volume: 2.0(uL) Dilution Factor: 10.0

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	5200	U
111-44-4	bis(2-Chloroethyl)Ether	5200	U
95-57-8	2-Chlorophenol	5200	U
541-73-1	1,3-Dichlorobenzene	5200	U
106-46-7	1,4-Dichlorobenzene	5200	U
95-50-1	1,2-Dichlorobenzene	5200	U
95-48-7	2-Methylphenol	5200	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5200	U
106-44-5	4-Methylphenol	5200	U
621-64-7	N-Nitroso-di-n-propylamine	5200	U
67-72-1	Hexachloroethane	5200	U
98-95-3	Nitrobenzene	5200	U
78-59-1	Isophorone	5200	U
88-75-5	2-Nitrophenol	5200	U
105-67-9	2,4-Dimethylphenol	5200	U
111-91-1	bis(2-Chloroethoxy)methane	5200	U
120-83-2	2,4-Dichlorophenol	5200	U
120-82-1	1,2,4-Trichlorobenzene	5200	U
91-20-3	Naphthalene	4300	J
106-47-8	4-Chloroaniline	5200	U
87-68-3	Hexachlorobutadiene	5200	U
59-50-7	4-Chloro-3-Methylphenol	5200	U
91-57-6	2-Methylnaphthalene	9200	
77-47-4	Hexachlorocyclopentadiene	5200	U
88-06-2	2,4,6-Trichlorophenol	5200	U
95-95-4	2,4,5-Trichlorophenol	13000	U
91-58-7	2-Chloronaphthalene	5200	U
88-74-4	2-Nitroaniline	13000	U
131-11-3	Dimethylphthalate	5200	U
208-96-8	Acenaphthylene	5200	U
606-20-2	2,6-Dinitrotoluene	5200	U
99-09-2	3-Nitroaniline	13000	U
83-32-9	Acenaphthene	1100	J

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD17 SS17

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.17

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH959.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 37 decanted: (Y/N) N Date Extracted: 06/20/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/09/96

Injection Volume: 2.0(uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	13000	U
100-02-7	4-Nitrophenol	13000	U
132-64-9	Dibenzofuran	780	J
121-14-2	2,4-Dinitrotoluene	5200	U
84-66-2	Diethylphthalate	5200	U
7005-72-3	4-Chlorophenyl-phenylether	5200	U
86-73-7	Fluorene	1400	J
100-01-6	4-Nitroaniline	13000	U
534-52-1	4,6-Dinitro-2-methylphenol	13000	U
86-30-6	N-Nitrosodiphenylamine (1)	5200	U
101-55-3	4-Bromophenyl-phenylether	5200	U
118-74-1	Hexachlorobenzene	5200	U
87-86-5	Pentachlorophenol	13000	U
85-01-8	Phenanthrene	13000	
120-12-7	Anthracene	3200	J
86-74-8	Carbazole	2600	J
84-74-2	Di-n-butylphthalate	16000	B
206-44-0	Fluoranthene	22000	
129-00-0	Pyrene	26000	
85-68-7	Butylbenzylphthalate	610	J
91-94-1	3,3'-Dichlorobenzidine	5200	U
56-55-3	Benzo(a)anthracene	16000	
218-01-9	Chrysene	23000	
117-81-7	bis(2-Ethylhexyl)phthalate	5000	JB
117-84-0	Di-n-octylphthalate	5200	U
205-99-2	Benzo(b)fluoranthene	32000	
207-08-9	Benzo(k)fluoranthene	15000	
50-32-8	Benzo(a)pyrene	16000	
193-39-5	Indeno(1,2,3-cd)pyrene	12000	
53-70-3	Dibenz(a,h)anthracene	8000	
191-24-2	Benzo(g,h,i)perylene	12000	

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EZD17

› Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.17

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH959.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 37 decanted: (Y/N) N Date Extracted: 06/20/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/09/96

Injection Volume: 2.0(uL) Dilution Factor: 10.0

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

Number TICs found: 35

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Benzene, -trimethyl-	4.757	5400	J
2.		Benzene, -methyl--propyl-	5.362	3100	J
3.		Benzene, -methyl--(-methylet	5.435	4700	J
4.		Benzene, -ethyl--dimethyl-	5.664	4500	J
5.		Benzene, -ethyl--dimethyl-	5.748	4300	J
6.		Benzene, -tetramethyl-	6.113	2300	J
7.		Benzene, -tetramethyl-	6.166	2800	J
8.		UNKNOWN	6.406	2400	J
9.		-Dihydro-1methylindene	6.552	3800	J
10.		UNKNOWN	6.625	1100	J
11.		Naphthalene, -tetrahydro-	6.709	1200	J
12.		Benzene, -dimethyl--(-methyl	7.096	1800	J
13.		1H-Indene, -dihydro--dimethy	7.127	1200	J
14.		UNKNOWN	7.566	1500	J
15.		1H-Indene, 2,3-dihydro--dime	7.776	1300	J
16.		Benzene, -dimethyl-(-methyle	8.163	1400	J
17.	264-09-5	Benzocycloheptatriene	8.404	7500	NJ
18.		Naphthalene, -tetrahydro--di	9.609	1500	J
19.		Naphthalene, -ethyl-	9.651	1500	J
20.		Naphthalene, -dimethyl-	9.787	7900	J
21.		Naphthalene, -dimethyl-	9.987	6900	J
22.		Naphthalene, -dimethyl-	10.029	2200	J
23.		Naphthalene, -dimethyl-	10.239	2500	J
24.		Anthracene, -methyl-	15.644	2800	J
25.		Anthracene, -methyl-	15.708	2200	J
26.		UNKNOWN PAH	15.909	2300	J
27.		UNKNOWN ORGANIC ACID	16.078	2800	J
28.		Naphthalene, -phenyl-	16.417	1900	J
29.		11H-Benzo[]fluorene	18.860	5100	J
30.	82-05-3	7H-Benz[de]anthracen-7-one	20.182	13000	NJ

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EZD17

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.17

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH959.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 37 decanted: (Y/N) N Date Extracted: 06/20/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/09/96

Injection Volume: 2.0(uL) Dilution Factor: 10.0

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

Number TICs found: 35

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	82-05-3	7H-Benz[de]anthracen-7-one	20.705	9000	NJ
2.		Triphenylene, -methyl-	22.072	9400	J
3.		UNKNOWN PAH	26.084	14000	J
4.	0-00-0	1,2:3,4-Dibenzpyrene	29.290	9200	NJ
5.		UNKNOWN PAH	29.642	8800	J
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD18 SS18

Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.18

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH975.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 9 decanted: (Y/N) N Date Extracted: 07/01/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/10/96

Injection Volume: 2.0(uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	3600	U
111-44-4	bis(2-Chloroethyl)Ether	3600	U
95-57-8	2-Chlorophenol	3600	U
541-73-1	1,3-Dichlorobenzene	3600	U
106-46-7	1,4-Dichlorobenzene	3600	U
95-50-1	1,2-Dichlorobenzene	3600	U
95-48-7	2-Methylphenol	3600	U
108-60-1	2,2'-oxybis(1-Chloropropane)	3600	U
106-44-5	4-Methylphenol	3600	U
621-64-7	N-Nitroso-di-n-propylamine	3600	U
67-72-1	Hexachloroethane	3600	U
98-95-3	Nitrobenzene	3600	U
78-59-1	Isophorone	3600	U
88-75-5	2-Nitrophenol	3600	U
105-67-9	2,4-Dimethylphenol	3600	U
111-91-1	bis(2-Chloroethoxy)methane	3600	U
120-83-2	2,4-Dichlorophenol	3600	U
120-82-1	1,2,4-Trichlorobenzene	3600	U
91-20-3	Naphthalene	260	J
106-47-8	4-Chloroaniline	3600	U
87-68-3	Hexachlorobutadiene	3600	U
59-50-7	4-Chloro-3-Methylphenol	3600	U
91-57-6	2-Methylnaphthalene	3600	U
77-47-4	Hexachlorocyclopentadiene	3600	U
88-06-2	2,4,6-Trichlorophenol	3600	U
95-95-4	2,4,5-Trichlorophenol	9100	U
91-58-7	2-Chloronaphthalene	3600	U
88-74-4	2-Nitroaniline	9100	U
131-11-3	Dimethylphthalate	3600	U
208-96-8	Acenaphthylene	3600	U
606-20-2	2,6-Dinitrotoluene	3600	U
99-09-2	3-Nitroaniline	9100	U
83-32-9	Acenaphthene	620	J

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD18 SS18

ab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.18

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH975.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 9 decanted: (Y/N) N Date Extracted: 07/01/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/10/96

Injection Volume: 2.0(uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	9100	U
100-02-7	4-Nitrophenol	9100	U
132-64-9	Dibenzofuran	490	J
121-14-2	2,4-Dinitrotoluene	3600	U
84-66-2	Diethylphthalate	3600	U
7005-72-3	4-Chlorophenyl-phenylether	3600	U
86-73-7	Fluorene	530	J
100-01-6	4-Nitroaniline	9100	U
534-52-1	4,6-Dinitro-2-methylphenol	9100	U
86-30-6	N-Nitrosodiphenylamine (1)	3600	U
101-55-3	4-Bromophenyl-phenylether	3600	U
118-74-1	Hexachlorobenzene	3600	U
87-86-5	Pentachlorophenol	9100	U
85-01-8	Phenanthrene	6900	
120-12-7	Anthracene	1000	J
86-74-8	Carbazole	980	J
84-74-2	Di-n-butylphthalate	1800	J
206-44-0	Fluoranthene	10000	
129-00-0	Pyrene	7800	
85-68-7	Butylbenzylphthalate	2500	J
91-94-1	3,3'-Dichlorobenzidine	3600	U
56-55-3	Benzo(a)anthracene	5800	
218-01-9	Chrysene	7300	
117-81-7	bis(2-Ethylhexyl)phthalate	4600	B
117-84-0	Di-n-octylphthalate	3600	U
205-99-2	Benzo(b)fluoranthene	6300	
207-08-9	Benzo(k)fluoranthene	5000	
50-32-8	Benzo(a)pyrene	4200	
193-39-5	Indeno(1,2,3-cd)pyrene	3000	J
53-70-3	Dibenz(a,h)anthracene	1600	J
191-24-2	Benzo(g,h,i)perylene	3500	J

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EZD18

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.18

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH975.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 9 decanted: (Y/N) N Date Extracted: 07/01/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/10/96

Injection Volume: 2.0(uL) Dilution Factor: 10.0

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

Number TICs found: 19

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	123-42-2	2-Pentanone, 4-hydroxy-4-met	3.240	820	NJA
2.		UNKNOWN	4.238	940	JB
3.		UNKNOWN ORGANIC ACID	6.647	1200	J
4.		UNKNOWN ORGANIC ACID	7.825	2000	J
5.		Anthracene, -methyl-	15.478	1000	J
6.		UNKNOWN ORGANIC ACID	15.931	4300	J
7.		UNKNOWN ORGANIC ACID	17.865	3500	J
8.	72-55-9	p,p'-DDE	18.278	1300	NJ
9.		11H-Benzo[]fluorene	18.670	3300	J
10.	82-05-3	7H-Benz[de]anthracen-7-one	19.975	2600	NJ
11.	239-35-0	Benzo[b]naphtho[2,1-d]thioph	20.209	1300	NJ
12.		UNKNOWN PAH	20.315	1200	J
13.	82-05-3	7H-Benz[de]anthracen-7-one	20.495	1600	NJ
14.		Chrysene, -methyl-	21.962	1200	J
15.	205-82-3	Benzo[j]fluoranthene	23.611	2400	NJ
16.	192-97-2	Benzo[e]pyrene	23.963	4600	NJ
17.		UNKNOWN PAH	24.835	3400	J
18.		UNKNOWN PAH	25.867	4200	J
19.	191-07-1	Coronene	29.799	2000	NJ
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u KM 8/09/

2F
SOIL PESTICIDE SURROGATE RECOVERY

:b Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

GC Column(1): DB-1701 ID: 0.32(mm) GC Column(2): DB-17 - - ID: 0.32(mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLKSF	78	75	81	81			0
02	EZD01	0D	0D	3530D	3301D			0
03	EZD02	0D	0D	1804D	2000D			0
04	EZD03	0D	0D	2940D	4636D			0
05	EZD04	0D	0D	13721D	6328D			0
06	EZD06	83	97	30	105			0
07	EZD07	0D	0D	0D	4538D			0
08	EZD08	73	72	902D	538D			0
09	EZD09	0D	0D	376D	897D			0
10	EZD10	71	71	365D	635D			0
11	EZD15	51	48	232D	125			0
12	EZD17	48	40	502D	571D			0
13	EZD18	0D	0D	1306D	0D			0
14	EZD14	66	63	87	74			0
15	EZD13	76	72	42	121			0
16	EZD12	68	67	194D	153D			0
17	EZD01MS	114	119	790D	1178D			0
18	EZD01MSD	85	86	1069D	936D			0
19	EZD05	71	73	577D	548D			0
20	EZD11	91	96	9543D	497D			0
21	EZD16	84	83	466D	446D			0
22								
23								
24								
25								
26								
27								
28								
29								
30								

QC LIMITS

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

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

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix Spike - EPA Sample NO.: EZD01

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
gamma-BHC(Lindane)	20.1	0	0	0 *	46-127
Heptachlor	20.1	0	0	0 *	35-130
Aldrin	20.1	0	0	0 *	34-132
Dieldrin	40.2	0	660	1644 *	31-134
Endrin	40.2	0	184	458 *	42-139
4,4'-DDT	40.2	0	159	395 *	23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC(Lindane)	20.1	0	0 *	0	50	46-127
Heptachlor	20.1	0	0 *	0	31	35-130
Aldrin	20.1	0	0 *	0	43	34-132
Dieldrin	40.2	347	865 *	62 *	38	31-134
Endrin	40.2	202	503 *	9	45	42-139
4,4'-DDT	40.2	0	0 *	200 *	50	23-134

Column to be used to flag recovery values

* Values outside of QC limits

RPD: 2 out of 6 outside limits
Spike Recovery: 12 out of 12 outside limits

Comments:

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKSF

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Lab Sample ID: PBLKSF Lab File ID: 15_00621

Matrix: (soil/water) SOIL Extraction: (SepF/Cont/Sonc) SONC

Sulfur Cleanup: (Y/N) N Date Extracted: 06/20/96

Date Analyzed (1): 07/12/96 Date Analyzed (2): 07/12/96

Time Analyzed (1): 0338 Time Analyzed (2): 0338

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-1701 ID: 0.32(mm) GC Column (2): DB-17 ID: 0.32(mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	EZD01	25973.01	07/12/96	07/12/96
02	EZD02	25973.02	07/12/96	07/12/96
03	EZD03	25973.03	07/12/96	07/12/96
04	EZD04	25973.04	07/12/96	07/12/96
05	EZD06	25973.06	07/12/96	07/12/96
06	EZD07	25973.07	07/12/96	07/12/96
07	EZD08	25973.08	07/16/96	07/16/96
08	EZD09	25973.09	07/16/96	07/16/96
09	EZD10	25973.10	07/16/96	07/16/96
10	EZD15	25973.15	07/16/96	07/16/96
11	EZD17	25973.17	07/16/96	07/16/96
12	EZD18	25973.18	07/16/96	07/16/96
13	EZD14	25973.14	07/17/96	07/17/96
14	EZD13	25973.13	07/17/96	07/17/96
15	EZD12	25973.12	07/17/96	07/17/96
16	EZD01MS	25973.01MS	07/17/96	07/17/96
17	EZD01MSD	25973.01MSD	07/17/96	07/17/96
18	EZD05	25973.05	07/19/96	07/19/96
19	EZD11	25973.11	07/19/96	07/19/96
20	EZD16	25973.16	07/19/96	07/19/96
21				
22				
23				
24				
25				
26				

Comments:

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKSF

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

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

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

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/20/96

Concentrated Extract Volume: 5000(uL) Date Analyzed: 07/12/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

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	33	U

2563

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD01 SS1

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.01

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

% Moisture: 17 decanted: (Y/N) N Date Received: 06/12/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/20/96

Concentrated Extract Volume: 5000(uL) Date Analyzed: 07/12/96

Injection Volume: 1.0(uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) Y pH: 6.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	200	U
319-85-7	beta-BHC	200	U
319-86-8	delta-BHC	200	U
58-89-9	gamma-BHC (Lindane)	200	U
76-44-8	Heptachlor	200	U
309-00-2	Aldrin	200	U
1024-57-3	Heptachlor epoxide	200	U
959-98-8	Endosulfan I	200	U
60-57-1	Dieldrin	270	PJ
72-55-9	4,4'-DDE	280	PJ
72-20-8	Endrin	400	U
33213-65-9	Endosulfan II	400	U
72-54-8	4,4'-DDD	400	U
1031-07-8	Endosulfan sulfate	400	U
50-29-3	4,4'-DDT	400	U
72-43-5	Methoxychlor	2000	U
53494-70-5	Endrin ketone	400	U
7421-93-4	Endrin aldehyde	400	U
5103-71-9	alpha-Chlordane	690	P
5103-74-2	gamma-Chlordane	2000	
8001-35-2	Toxaphene	20000	U
12674-11-2	Aroclor-1016	4000	U
11104-28-2	Aroclor-1221	8100	U
11141-16-5	Aroclor-1232	4000	U
53469-21-9	Aroclor-1242	4000	U
12672-29-6	Aroclor-1248	4000	U
11097-69-1	Aroclor-1254	3700	J
11096-82-5	Aroclor-1260	4000	U

2019

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD02 SS2

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.02

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

% Moisture: 32 decanted: (Y/N) N Date Received: 06/12/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/20/96

Concentrated Extract Volume: 5000(uL) Date Analyzed: 07/12/96

Injection Volume: 1.0(uL) Dilution Factor: 50.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	120	U
319-85-7	beta-BHC	120	U
319-86-8	delta-BHC	120	U
58-89-9	gamma-BHC (Lindane)	120	U
76-44-8	Heptachlor	120	U
309-00-2	Aldrin	120	U
1024-57-3	Heptachlor epoxide	140	P
959-98-8	Endosulfan I	120	U
60-57-1	Dieldrin	300	P
72-55-9	4,4'-DDE	410	P
72-20-8	Endrin	1700	P
33213-65-9	Endosulfan II	620	P
72-54-8	4,4'-DDD	240	U
1031-07-8	Endosulfan sulfate	420	P
50-29-3	4,4'-DDT	240	U
72-43-5	Methoxychlor	1200	U
53494-70-5	Endrin ketone	240	U
7421-93-4	Endrin aldehyde	240	U
5103-71-9	alpha-Chlordane	540	
5103-74-2	gamma-Chlordane	120	P
8001-35-2	Toxaphene	12000	U
12674-11-2	Aroclor-1016	2400	U
11104-28-2	Aroclor-1221	4900	U
11141-16-5	Aroclor-1232	2400	U
53469-21-9	Aroclor-1242	2400	U
12672-29-6	Aroclor-1248	2400	U
11097-69-1	Aroclor-1254	24000	
11096-82-5	Aroclor-1260	2400	U

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EPA SAMPLE NO.

EZD03 SS3

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.03

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

% Moisture: 29 decanted: (Y/N) N Date Received: 06/12/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/20/96

Concentrated Extract Volume: 5000(uL) Date Analyzed: 07/12/96

Injection Volume: 1.0(uL) Dilution Factor: 100.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	240	U
319-85-7	beta-BHC	240	U
319-86-8	delta-BHC	240	U
58-89-9	gamma-BHC (Lindane)	240	U
76-44-8	Heptachlor	240	U
309-00-2	Aldrin	240	U
1024-57-3	Heptachlor epoxide	420	
959-98-8	Endosulfan I	240	U
60-57-1	Dieldrin	550	P
72-55-9	4,4'-DDE	1400	
72-20-8	Endrin	3000	P
33213-65-9	Endosulfan II	970	P
72-54-8	4,4'-DDD	460	U
1031-07-8	Endosulfan sulfate	460	U
50-29-3	4,4'-DDT	460	U
72-43-5	Methoxychlor	2400	U
53494-70-5	Endrin ketone	94	PJ
7421-93-4	Endrin aldehyde	400	J
5103-71-9	alpha-Chlordane	1300	
5103-74-2	gamma-Chlordane	240	P
8001-35-2	Toxaphene	24000	U
12674-11-2	Aroclor-1016	4600	U
11104-28-2	Aroclor-1221	9400	U
11141-16-5	Aroclor-1232	4600	U
53469-21-9	Aroclor-1242	4600	U
12672-29-6	Aroclor-1248	4600	U
11097-69-1	Aroclor-1254	47000	
11096-82-5	Aroclor-1260	4600	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD04 SS4

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.04

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

% Moisture: 25 decanted: (Y/N) N Date Received: 06/12/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/20/96

Concentrated Extract Volume: 5000(uL) Date Analyzed: 07/12/96

Injection Volume: 1.0(uL) Dilution Factor: 100.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	230	U
319-85-7	beta-BHC	230	U
319-86-8	delta-BHC	230	U
58-89-9	gamma-BHC (Lindane)	230	U
76-44-8	Heptachlor	230	U
309-00-2	Aldrin	230	U
1024-57-3	Heptachlor epoxide	230	P
959-98-8	Endosulfan I	230	U
60-57-1	Dieldrin	640	P
72-55-9	4,4'-DDE	660	P
72-20-8	Endrin	3700	P
33213-65-9	Endosulfan II	1300	P
72-54-8	4,4'-DDD	440	U
1031-07-8	Endosulfan sulfate	460	P
50-29-3	4,4'-DDT	440	U
72-43-5	Methoxychlor	2300	U
53494-70-5	Endrin ketone	440	U
7421-93-4	Endrin aldehyde	240	PJ
5103-71-9	alpha-Chlordane	1400	
5103-74-2	gamma-Chlordane	280	P
8001-35-2	Toxaphene	23000	U
12674-11-2	Aroclor-1016	4400	U
11104-28-2	Aroclor-1221	8900	U
11141-16-5	Aroclor-1232	4400	U
53469-21-9	Aroclor-1242	4400	U
12672-29-6	Aroclor-1248	4400	U
11097-69-1	Aroclor-1254	57000	
11096-82-5	Aroclor-1260	4400	U

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EPA SAMPLE NO.

EZD05 SS5

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.05

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

% Moisture: 13 decanted: (Y/N) N Date Received: 06/12/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/20/96

Concentrated Extract Volume: 5000(uL) Date Analyzed: 07/19/96

Injection Volume: 1.0(uL) Dilution Factor: 5.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	9.8	U
319-85-7	beta-BHC	9.8	U
319-86-8	delta-BHC	9.8	U
58-89-9	gamma-BHC (Lindane)	9.8	U
76-44-8	Heptachlor	9.8	U
309-00-2	Aldrin	9.8	U
1024-57-3	Heptachlor epoxide	9.8	U
959-98-8	Endosulfan I	9.8	U
60-57-1	Dieldrin	19	U
72-55-9	4,4'-DDE	19	P
72-20-8	Endrin	64	
33213-65-9	Endosulfan II	54	P
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	98	U
53494-70-5	Endrin ketone	19	U
7421-93-4	Endrin aldehyde	19	U
5103-71-9	alpha-Chlordane	58	P
5103-74-2	gamma-Chlordane	87	P
8001-35-2	Toxaphene	980	U
12674-11-2	Aroclor-1016	190	U
11104-28-2	Aroclor-1221	380	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	920	P
11096-82-5	Aroclor-1260	190	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD06 SS6

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.06

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

% Moisture: 32 decanted: (Y/N) N Date Received: 06/12/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/20/96

Concentrated Extract Volume: 5000(uL) Date Analyzed: 07/12/96

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 8.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	25	U
319-85-7	beta-BHC	25	U
319-86-8	delta-BHC	25	U
58-89-9	gamma-BHC (Lindane)	25	U
76-44-8	Heptachlor	25	U
309-00-2	Aldrin	25	U
1024-57-3	Heptachlor epoxide	12	PJ
959-98-8	Endosulfan I	25	U
60-57-1	Dieldrin	5.7	PJ
72-55-9	4,4'-DDE	280	
72-20-8	Endrin	440	
33213-65-9	Endosulfan II	200	P
72-54-8	4,4'-DDD	48	P
1031-07-8	Endosulfan sulfate	41	J
50-29-3	4,4'-DDT	22	PJ
72-43-5	Methoxychlor	250	U
53494-70-5	Endrin ketone	13	J
7421-93-4	Endrin aldehyde	39	PJ
5103-71-9	alpha-Chlordane	160	P
5103-74-2	gamma-Chlordane	55	P
8001-35-2	Toxaphene	2500	U
12674-11-2	Aroclor-1016	480	U
11104-28-2	Aroclor-1221	980	U
11141-16-5	Aroclor-1232	480	U
53469-21-9	Aroclor-1242	480	U
12672-29-6	Aroclor-1248	480	U
11097-69-1	Aroclor-1254	7100	P
11096-82-5	Aroclor-1260	480	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD07 SS7

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.07

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

% Moisture: 26 decanted: (Y/N) N Date Received: 06/12/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/20/96

Concentrated Extract Volume: 5000(uL) Date Analyzed: 07/12/96

Injection Volume: 1.0(uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) Y pH: 8.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	230	U
319-85-7	beta-BHC	230	U
319-86-8	delta-BHC	230	U
58-89-9	gamma-BHC (Lindane)	230	U
76-44-8	Heptachlor	230	U
309-00-2	Aldrin	230	U
1024-57-3	Heptachlor epoxide	350	
959-98-8	Endosulfan I	230	U
60-57-1	Dieldrin	760	P
72-55-9	4,4'-DDE	1000	P
72-20-8	Endrin	2400	P
33213-65-9	Endosulfan II	840	P
72-54-8	4,4'-DDD	440	U
1031-07-8	Endosulfan sulfate	350	PJ
50-29-3	4,4'-DDT	440	U
72-43-5	Methoxychlor	2300	U
53494-70-5	Endrin ketone	57	PJ
7421-93-4	Endrin aldehyde	78	PJ
5103-71-9	alpha-Chlordane	1200	
5103-74-2	gamma-Chlordane	230	U
8001-35-2	Toxaphene	23000	U
12674-11-2	Aroclor-1016	4400	U
11104-28-2	Aroclor-1221	9000	U
11141-16-5	Aroclor-1232	4400	U
53469-21-9	Aroclor-1242	4400	U
12672-29-6	Aroclor-1248	4400	U
11097-69-1	Aroclor-1254	42000	P
11096-82-5	Aroclor-1260	4400	U

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EPA SAMPLE NO.

EZD08 SS8

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.08

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

% Moisture: 26 decanted: (Y/N) N Date Received: 06/12/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/20/96

Concentrated Extract Volume: 5000(uL) Date Analyzed: 07/16/96

Injection Volume: 1.0(uL) Dilution Factor: 5.0

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

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	6.7	PJ
959-98-8	Endosulfan I	11	U
60-57-1	Dieldrin	22	U
72-55-9	4,4'-DDE	62	P
72-20-8	Endrin	170	P
33213-65-9	Endosulfan II	130	P
72-54-8	4,4'-DDD	32	P
1031-07-8	Endosulfan sulfate	150	P
50-29-3	4,4'-DDT	32	P
72-43-5	Methoxychlor	40	PJ
53494-70-5	Endrin ketone	22	U
7421-93-4	Endrin aldehyde	22	U
5103-71-9	alpha-Chlordane	96	P
5103-74-2	gamma-Chlordane	30	P
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	3200	P
11096-82-5	Aroclor-1260	220	U

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EPA SAMPLE NO.

EZD09 SS9

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.09

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

% Moisture: 29 decanted: (Y/N) N Date Received: 06/12/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/20/96

Concentrated Extract Volume: 5000(uL) Date Analyzed: 07/16/96

Injection Volume: 1.0(uL) Dilution Factor: 20.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	48	U
319-85-7	beta-BHC	48	U
319-86-8	delta-BHC	48	U
58-89-9	gamma-BHC (Lindane)	48	U
76-44-8	Heptachlor	48	U
309-00-2	Aldrin	48	U
1024-57-3	Heptachlor epoxide	26	PJ
959-98-8	Endosulfan I	48	U
60-57-1	Dieldrin	120	P
72-55-9	4,4'-DDE	620	
72-20-8	Endrin	470	P
33213-65-9	Endosulfan II	220	P
72-54-8	4,4'-DDD	240	P
1031-07-8	Endosulfan sulfate	93	U
50-29-3	4,4'-DDT	540	P
72-43-5	Methoxychlor	480	U
53494-70-5	Endrin ketone	93	U
7421-93-4	Endrin aldehyde	160	P
5103-71-9	alpha-Chlordane	280	
5103-74-2	gamma-Chlordane	63	P
8001-35-2	Toxaphene	4800	U
12674-11-2	Aroclor-1016	930	U
11104-28-2	Aroclor-1221	1900	U
11141-16-5	Aroclor-1232	930	U
53469-21-9	Aroclor-1242	930	U
12672-29-6	Aroclor-1248	930	U
11097-69-1	Aroclor-1254	9200	
11096-82-5	Aroclor-1260	930	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD10 SS10

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.10

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

% Moisture: 24 decanted: (Y/N) N Date Received: 06/12/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/20/96

Concentrated Extract Volume: 5000(uL) Date Analyzed: 07/16/96

Injection Volume: 1.0(uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
58-89-9	gamma-BHC (Lindane)	22	U
76-44-8	Heptachlor	22	U
309-00-2	Aldrin	22	U
1024-57-3	Heptachlor epoxide	22	U
959-98-8	Endosulfan I	22	U
60-57-1	Dieldrin	43	U
72-55-9	4,4'-DDE	120	P
72-20-8	Endrin	140	P
33213-65-9	Endosulfan II	43	U
72-54-8	4,4'-DDD	70	P
1031-07-8	Endosulfan sulfate	22	PJ
50-29-3	4,4'-DDT	250	P
72-43-5	Methoxychlor	220	U
53494-70-5	Endrin ketone	43	U
7421-93-4	Endrin aldehyde	43	U
5103-71-9	alpha-Chlordane	69	
5103-74-2	gamma-Chlordane	24	P
8001-35-2	Toxaphene	2200	U
12674-11-2	Aroclor-1016	430	U
11104-28-2	Aroclor-1221	880	U
11141-16-5	Aroclor-1232	430	U
53469-21-9	Aroclor-1242	430	U
12672-29-6	Aroclor-1248	430	U
11097-69-1	Aroclor-1254	2600	P
11096-82-5	Aroclor-1260	430	U

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EPA SAMPLE NO.

EZD11 SS11

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.11

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

% Moisture: 16 decanted: (Y/N) N Date Received: 06/12/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/20/96

Concentrated Extract Volume: 5000(uL) Date Analyzed: 07/19/96

Injection Volume: 1.0(uL) Dilution Factor: 5.0

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

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)	27	P
76-44-8	Heptachlor	6.8	PJ
309-00-2	Aldrin	10	U
1024-57-3	Heptachlor epoxide	10	U
959-98-8	Endosulfan I	34	P
60-57-1	Dieldrin	20	U
72-55-9	4,4'-DDE	96	P
72-20-8	Endrin	63	P
33213-65-9	Endosulfan II	20	U
72-54-8	4,4'-DDD	150	P
1031-07-8	Endosulfan sulfate	20	U
50-29-3	4,4'-DDT	130	
72-43-5	Methoxychlor	1300	
53494-70-5	Endrin ketone	120	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

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD12 SS12

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.12

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

% Moisture: 21 decanted: (Y/N) N Date Received: 06/12/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/20/96

Concentrated Extract Volume: 5000(uL) Date Analyzed: 07/17/96

Injection Volume: 1.0(uL) Dilution Factor: 5.0

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

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	21	U
72-55-9	4,4'-DDE	10	PJ
72-20-8	Endrin	21	U
33213-65-9	Endosulfan II	11	PJ
72-54-8	4,4'-DDD	21	U
1031-07-8	Endosulfan sulfate	39	
50-29-3	4,4'-DDT	21	U
72-43-5	Methoxychlor	110	U
53494-70-5	Endrin ketone	7.8	PJ
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	420	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	500	P
11096-82-5	Aroclor-1260	210	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD13 SS13

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.13

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

% Moisture: 28 decanted: (Y/N) N Date Received: 06/12/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/20/96

Concentrated Extract Volume: 5000(uL) Date Analyzed: 07/17/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

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	4.6	P
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	4.0	P
959-98-8	Endosulfan I	2.4	U
60-57-1	Dieldrin	4.6	U
72-55-9	4,4'-DDE	11	P
72-20-8	Endrin	6.9	P
33213-65-9	Endosulfan II	24	P
72-54-8	4,4'-DDD	20	P
1031-07-8	Endosulfan sulfate	47	P
50-29-3	4,4'-DDT	4.9	
72-43-5	Methoxychlor	34	P
53494-70-5	Endrin ketone	37	
7421-93-4	Endrin aldehyde	21	
5103-71-9	alpha-Chlordane	3.7	P
5103-74-2	gamma-Chlordane	6.5	P
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	520	
11096-82-5	Aroclor-1260	46	U