US EPA RECORDS CENTER REGION 5
412176

Sauget Area 2 Sites St. Clair County

Site O - L1631210020 ILD 000675029
Site P - L1631210002 ILD 981809293
Site Q - L1631210001 ILD 000605792
Site R - L1631210003 ILD 980606982

SF/HRS

CERCLA

Expanded Site Inspection Analytical Results

RECEIVED
OCT 20 1995
IEPA/DLPC

Illinois Environmental Protection Agency
P. O. Box 19276
Springfield, IL 62794-9276

~~*Confidential Material May be Enclosed*~~

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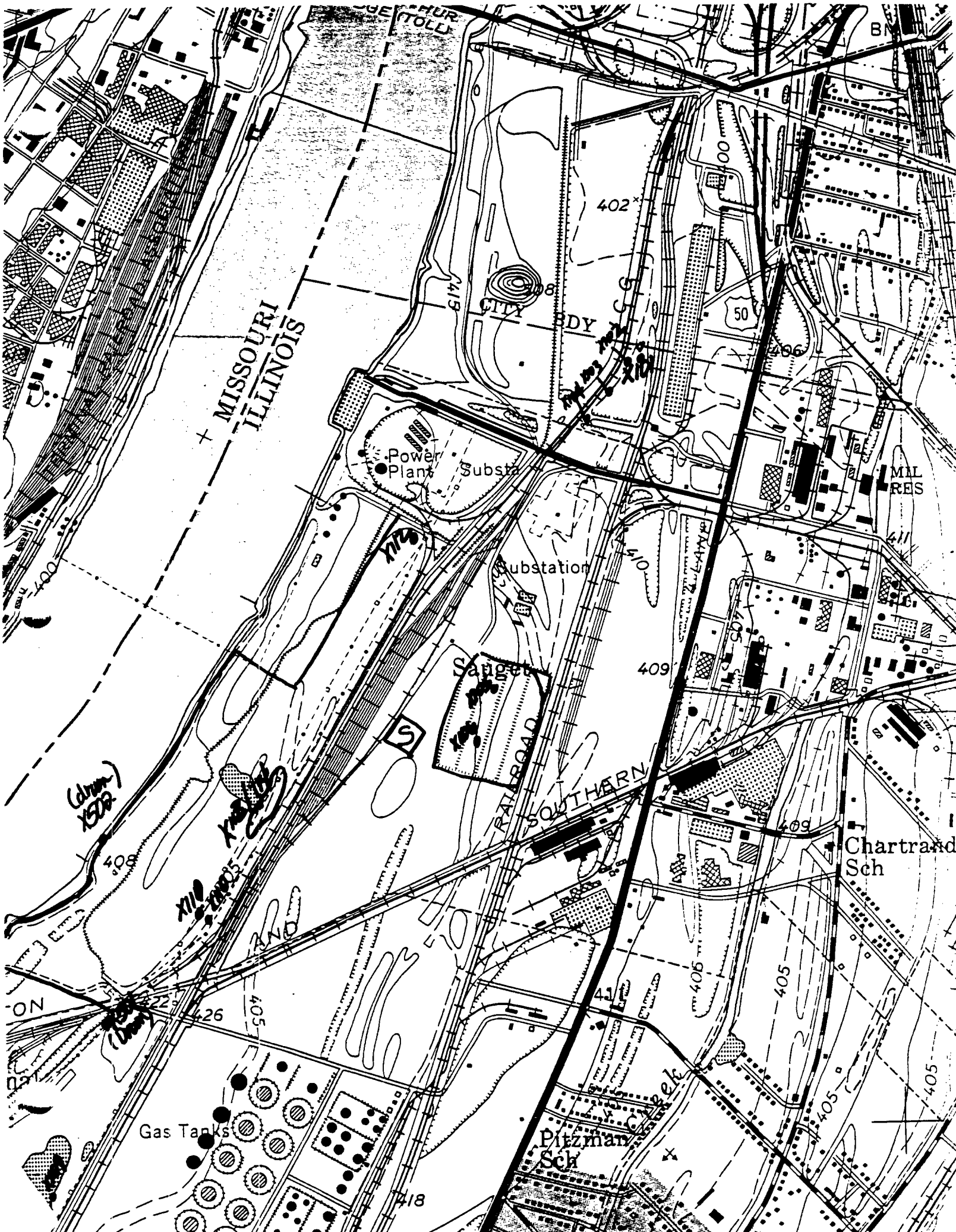
MISSOURI
ILLINOIS
CITY BDY
Power Plant
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Substation
Sanger
SOUTHERN RAILROAD
Chartrand Sch
Gas Tanks
Pitzman Sch
MIL RES
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402
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426

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453639

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0323LC04

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: not dec. 22 Date Analyzed: 03/23/94

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	UJ
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	UJ
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	13 ~~12~~	BJu
67-64-1	Acetone	73	
75-15-0	Carbon Disulfide	16	
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-Dichloroethene (total)	4	J
67-66-3	Chloroform	13	U
107-06-2	1,2-Dichloroethane	13	U
78-93-3	2-Butanone	27	J
71-55-6	1,1,1-Trichloroethane	4	J
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	6	J
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-Trichloroethane	13	U
71-43-2	Benzene	10	J
10061-02-6	trans-1,3-Dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-Methyl-2-Pentanone	36	
591-78-6	2-Hexanone	13	UJ
127-18-4	Tetrachloroethene	140	
79-34-5	1,1,2,2-Tetrachloroethane	13	U
108-88-3	Toluene	110	
108-90-7	Chlorobenzene	42	
100-41-4	Ethylbenzene	50	
100-42-5	Styrene	13	U
1330-20-7	Xylene (total)	260	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453639

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0323LC04

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: not dec. 22 Date Analyzed: 03/23/94

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

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

Number TICs found: 8

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. HYDROCARBON	3.22	49	J
2. 60-29-3	ETHYL ETHER	5.18	9	JN
3. 762-75-4	FORMIC ACID, 1,1-DIMETHYLETH	7.50	7	JN
4.	UNKNOWN ALIP. HYDROCARBON	8.23	27	J
5.	UNKNOWN	9.64	17	J
6. 109-99-9	FURAN, TETRAHYDRO-	10.57	18	JN
7.	UNKNOWN	15.77	11	J
8. 66-25-1	~~HEXANAL~~ unknown	16.90	11	~~JN~~ J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453639

Sample wt/vol: 1.2 (g/mL) G Lab File ID: B0404K03

Level: (low/med) MED Date Received: 03/18/94

% Moisture: 22 decanted: (Y/N) N Date Extracted: 03/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/04/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	11000	U
111-44-4	bis(2-Chloroethyl)Ether	11000	U
95-57-8	2-Chlorophenol	11000	U
541-73-1	1,3-Dichlorobenzene	4200	J
106-46-7	1,4-Dichlorobenzene	370000	E
95-50-1	1,2-Dichlorobenzene	130000	E
95-48-7	2-Methylphenol	11000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	11000	U
106-44-5	4-Methylphenol	11000	U
621-64-7	N-Nitroso-Di-n-Propylamine	11000	U
67-72-1	Hexachloroethane	11000	U
98-95-3	Nitrobenzene	11000	U
78-59-1	Isophorone	11000	U
88-75-5	2-Nitrophenol	11000	U
105-67-9	2,4-Dimethylphenol	11000	U
111-91-1	bis(2-Chloroethoxy)Methane	11000	U
120-83-2	2,4-Dichlorophenol	11000	U
120-82-1	1,2,4-Trichlorobenzene	11000	U
91-20-3	Naphthalene	11000	U
106-47-8	4-Chloroaniline	11000	UJ
87-68-3	Hexachlorobutadiene	11000	U
59-50-7	4-Chloro-3-Methylphenol	11000	U
91-57-6	2-Methylnaphthalene	11000	U
77-47-4	Hexachlorocyclopentadiene	11000	U
88-06-2	2,4,6-Trichlorophenol	11000	U
95-95-4	2,4,5-Trichlorophenol	27000	U
91-58-7	2-Chloronaphthalene	11000	U
88-74-4	2-Nitroaniline	27000	U
131-11-3	Dimethylphthalate	11000	U
208-96-8	Acenaphthylene	11000	U
606-20-2	2,6-Dinitrotoluene	11000	U
99-09-2	3-Nitroaniline	27000	UJ
83-32-9	Acenaphthene	11000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453639

Sample wt/vol: 1.2 (g/mL) G Lab File ID: B0404K03

Level: (low/med) MED Date Received: 03/18/94

% Moisture: 22 decanted: (Y/N) N Date Extracted: 03/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/04/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	27000	U
100-02-7	4-Nitrophenol	27000	U
132-64-9	Dibenzofuran	11000	U
121-14-2	2,4-Dinitrotoluene	11000	U
84-66-2	Diethylphthalate	11000	U
7005-72-3	4-Chlorophenyl-phenylether	11000	U
86-73-7	Fluorene	11000	U
100-10-6	4-Nitroaniline	27000	UJ
534-52-1	4,6-Dinitro-2-methylphenol	27000	U
86-30-6	N-Nitrosodiphenylamine (1)	11000	U
101-55-3	4-Bromophenyl-phenylether	11000	U
118-74-1	Hexachlorobenzene	11000	U
87-86-5	Pentachlorophenol	27000	U
85-01-8	Phenanthrene	11000	U
120-12-7	Anthracene	11000	U
86-74-8	Carbazole	11000	U
84-74-2	Di-n-Butylphthalate	3600	J
206-44-0	Fluoranthene	11000	U
129-00-0	Pyrene	11000	U
85-68-7	Butylbenzylphthalate	11000	U
91-94-1	3,3'-Dichlorobenzidine	11000	U
56-55-3	Benzo(a)Anthracene	11000	U
218-01-9	Chrysene	11000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	11000	U
117-84-0	Di-n-Octyl Phthalate	11000	U
205-99-2	Benzo(b)Fluoranthene	11000	U
207-08-9	Benzo(k)Fluoranthene	11000	U
50-32-8	Benzo(a)Pyrene	11000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	11000	U
53-70-3	Dibenz(a,h)Anthracene	11000	U
191-24-2	Benzo(g,h,i)Perylene	11000	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453639

Sample wt/vol: 1.2 (g/mL) G Lab File ID: B0404K03

Level: (low/med) MED Date Received: 03/18/94

% Moisture: 22 decanted: (Y/N) N Date Extracted: 03/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/04/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.4

Number TICs found: 19

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. HYDROCARBON	31.06	78000	J
2.	UNKNOWN ALIP. HYDROCARBON	31.32	29000	J
3.	UNKNOWN	31.69	19000	J
4.	UNKNOWN ALIP. HYDROCARBON	31.91	36000	J
5.	UNKNOWN	31.99	11000	J
6.	UNKNOWN ALIP. HYDROCARBON	32.07	47000	J
7.	UNKNOWN	32.16	12000	J
8.	UNKNOWN	32.29	8400	J
9.	UNKNOWN	32.34	11000	J
10.	UNKNOWN ALIP. HYDROCARBON	32.46	16000	J
11.	UNKNOWN ALIP. ACID ESTER	32.74	49000	BJ
12.	UNKNOWN ALIP. HYDROCARBON	32.94	13000	J
13.	UNKNOWN ALIP. HYDROCARBON	33.04	56000	J
14.	UNKNOWN	33.32	4400	J
15.	UNKNOWN ALIP. HYDROCARBON	33.42	8700	J
16.	UNKNOWN ALIP. HYDROCARBON	33.69	78000	J
17.	UNKNOWN	33.74	16000	J
18.	UNKNOWN ALIP. HYDROCARBON	34.02	53000	J
19.	UNKNOWN ALIP. HYDROCARBON	35.09	56000	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101DL

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453639

Sample wt/vol: 1.2 (g/mL) G Lab File ID: B0407K08

Level: (low/med) MED Date Received: 03/18/94

% Moisture: 22 decanted: (Y/N) N Date Extracted: 03/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/07/94

Injection Volume: 2.0(uL) Dilution Factor: 25.0

GPC Cleanup: (Y/N) Y pH: 4.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	270000	U
111-44-4	bis(2-Chloroethyl)Ether	270000	U
95-57-8	2-Chlorophenol	270000	U
541-73-1	1,3-Dichlorobenzene	270000	U
106-46-7	1,4-Dichlorobenzene	1300000	
95-50-1	1,2-Dichlorobenzene	120000	J
95-48-7	2-Methylphenol	270000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	270000	U
106-44-5	4-Methylphenol	270000	U
621-64-7	N-Nitroso-Di-n-Propylamine	270000	U
67-72-1	Hexachloroethane	270000	U
98-95-3	Nitrobenzene	270000	U
78-59-1	Isophorone	270000	U
88-75-5	2-Nitrophenol	270000	U
105-67-9	2,4-Dimethylphenol	270000	U
111-91-1	bis(2-Chloroethoxy)Methane	270000	U
120-83-2	2,4-Dichlorophenol	270000	U
120-82-1	1,2,4-Trichlorobenzene	270000	U
91-20-3	Naphthalene	270000	U
106-47-8	4-Chloroaniline	270000	UJ
87-68-3	Hexachlorobutadiene	270000	U
59-50-7	4-Chloro-3-Methylphenol	270000	U
91-57-6	2-Methylnaphthalene	270000	U
77-47-4	Hexachlorocyclopentadiene	270000	U
88-06-2	2,4,6-Trichlorophenol	270000	U
95-95-4	2,4,5-Trichlorophenol	670000	U
91-58-7	2-Chloronaphthalene	270000	U
88-74-4	2-Nitroaniline	670000	UJ
131-11-3	Dimethylphthalate	270000	U
208-96-8	Acenaphthylene	270000	U
606-20-2	2,6-Dinitrotoluene	270000	U
99-09-2	3-Nitroaniline	670000	UJ
83-32-9	Acenaphthene	270000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101DL

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453639

Sample wt/vol: 1.2 (g/mL) G Lab File ID: B0407K08

Level: (low/med) MED Date Received: 03/18/94

% Moisture: 22 decanted: (Y/N) N Date Extracted: 03/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/07/94

Injection Volume: 2.0(uL) Dilution Factor: 25.0

GPC Cleanup: (Y/N) Y pH: 4.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	670000	U
100-02-7	4-Nitrophenol	670000	UJ
132-64-9	Dibenzofuran	270000	U
121-14-2	2,4-Dinitrotoluene	270000	U
84-66-2	Diethylphthalate	270000	U
7005-72-3	4-Chlorophenyl-phenylether	270000	U
86-73-7	Fluorene	270000	U
100-10-6	4-Nitroaniline	670000	UJ
534-52-1	4,6-Dinitro-2-methylphenol	670000	U
86-30-6	N-Nitrosodiphenylamine (1)	270000	UJ
101-55-3	4-Bromophenyl-phenylether	270000	U
118-74-1	Hexachlorobenzene	270000	U
87-86-5	Pentachlorophenol	670000	U
85-01-8	Phenanthrene	270000	U
120-12-7	Anthracene	270000	U
86-74-8	Carbazole	270000	U
84-74-2	Di-n-Butylphthalate	270000	U
206-44-0	Fluoranthene	270000	U
129-00-0	Pyrene	270000	U
85-68-7	Butylbenzylphthalate	270000	U
91-94-1	3,3'-Dichlorobenzidine	270000	U
56-55-3	Benzo(a)Anthracene	270000	U
218-01-9	Chrysene	270000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	270000	U
117-84-0	Di-n-Octyl Phthalate	270000	U
205-99-2	Benzo(b)Fluoranthene	270000	U
207-08-9	Benzo(k)Fluoranthene	270000	U
50-32-8	Benzo(a)Pyrene	270000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	270000	U
53-70-3	Dibenz(a,h)Anthracene	270000	U
191-24-2	Benzo(g,h,i)Perylene	270000	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X101DL

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453639

Sample wt/vol: 1.2 (g/mL) G Lab File ID: B0407K08

Level: (low/med) MED Date Received: 03/18/94

% Moisture: 22 decanted: (Y/N) N Date Extracted: 03/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/07/94

Injection Volume: 2.0(uL) Dilution Factor: 25.0

GPC Cleanup: (Y/N) Y pH: 4.4

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. HYDROCARBON	25.96	92000	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453639

Sample wt/vol: 30.6 (g/mL) G Lab File ID: _____

% Moisture: 22 decanted: (Y/N) N Date Received: 03/18/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/21/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/13/94

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 4.4 Sulfur Cleanup: (Y/N) N

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	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.1	U
72-55-9	4,4'-DDE	32	P
72-20-8	Endrin	4.1	U
33213-65-9	Endosulfan II	4.1	U
50-29-3	4,4'-DDD	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
50-29-3	4,4'-DDT	4.1	U
72-43-5	Methoxychlor	180	P
53494-70-5	Endrin ketone	52	
7421-36-3	Endrin aldehyde	4.1	U
5103-71-9	alpha-Chlordane	32	~~BP~~
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U
12674-11-2	Aroclor-1016	41	U
11104-28-2	Aroclor-1221	84	U
11141-16-5	Aroclor-1232	41	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	41	U
11097-69-1	Aroclor-1254	41	U
11096-82-5	Aroclor-1260	570	~~B~~

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101DL

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453639D

Sample wt/vol: 30.6 (g/mL) G Lab File ID: _____

% Moisture: 22 decanted: (Y/N) N Date Received: 03/18/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/21/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/05/94

Injection Volume: 1.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 4.4 Sulfur Cleanup: (Y/N) N

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	83	~~B~~PD
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	41	U
72-55-9	4,4'-DDE	35	JPD
72-20-8	Endrin	41	U
33213-65-9	Endosulfan II	41	U
50-29-3	4,4'-DDD	12	JPD
1031-07-8	Endosulfan sulfate	41	U
50-29-3	4,4'-DDT	34	~~B~~JPD
72-43-5	Methoxychlor	210	U
53494-70-5	Endrin ketone	41	U
7421-36-3	Endrin aldehyde	41	U
5103-71-9	alpha-Chlordane	9.4	~~B~~JPD
5103-74-2	gamma-Chlordane	21	U
8001-35-2	Toxaphene	2100	U
12674-11-2	Aroclor-1016	410	U
11104-28-2	Aroclor-1221	840	U
11141-16-5	Aroclor-1232	410	U
53469-21-9	Aroclor-1242	410	U
12672-29-6	Aroclor-1248	410	U
11097-69-1	Aroclor-1254	410	U
11096-82-5	Aroclor-1260	570	~~B~~D

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: SAUGET SITES AREA 2

Lab Code: Case No.: SAS No.: SDG No.: 104

Matrix (Soil): Lab Sample ID: B403623

Level (Low/Med): Date Received: 3/18/94

% Solids: 74.2

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	12100			P	
7440-36-0	Antimony	10.1	U	N	P	J
7440-38-2	Arsenic	14.2			FM	
7440-39-3	Barium	226			P	
7440-41-7	Beryllium	0.68	B		P	
7440-43-9	Cadmium	3.0			P	
7440-70-2	Calcium	34400			P	
7440-47-3	Chromium	60.6			P	
7440-48-4	Cobalt	3.1	B		P	
7440-50-8	Copper	33.2			P	
7439-89-6	Iron	57600			P	
7439-92-1	Lead	217			P	
7439-95-4	Magnesium	1160			P	
7439-96-5	Manganese	54.2			P	
7439-97-6	Mercury	5.6			AV	
7440-02-2	Nickel	24.6	U		P	
7440-09-7	Potassium	4840			P	
7782-49-2	Selenium	17.0		S,N	FM	J
7440-22-4	Silver	0.79	U		P	
7440-23-5	Sodium	3280			P	
7440-28-0	Thallium	5.0		S	FM	
7440-62-2	Vanadium	43.9			P	
7440-66-6	Zinc	1310			P	
	Cyanide	2.6			AS	
					AS	

Color Before: Gray Clarity Before: Opaque Texture: Fine

Color After: Colorless Clarity After: Clear Artifacts:

Comments:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453640

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0318LC06

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: not dec. 38 Date Analyzed: 03/18/94

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	UJ
75-00-3	Chloroethane	16	U
75-09-2	Methylene Chloride	4	J
67-64-1	Acetone	37	
75-15-0	Carbon Disulfide	16	U
75-35-4	1,1-Dichloroethene	16	U
75-34-3	1,1-Dichloroethane	160	
540-59-0	1,2-Dichloroethene (total)	22	
67-66-3	Chloroform	16	U
107-06-2	1,2-Dichloroethane	16	U
78-93-3	2-Butanone	9	J
71-55-6	1,1,1-Trichloroethane	130	
56-23-5	Carbon Tetrachloride	16	U
75-27-4	Bromodichloromethane	16	UJ
78-87-5	1,2-Dichloropropane	16	U
10061-01-5	cis-1,3-Dichloropropene	16	U
79-01-6	Trichloroethene	11	J
124-48-1	Dibromochloromethane	16	U
79-00-5	1,1,2-Trichloroethane	4	J
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	16	U
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

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453640

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0318LC06

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: not dec. 38 Date Analyzed: 03/18/94

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

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453640

Sample wt/vol: 30.6 (g/mL) G Lab File ID: B0404K09

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: 38 decanted: (Y/N) N Date Extracted: 03/23/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/04/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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	130	J
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	UJ
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	310	J
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	UJ
83-32-9	Acenaphthene	520	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453640

Sample wt/vol: 30.6 (g/mL) G Lab File ID: B0404K09

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: 38 decanted: (Y/N) N Date Extracted: 03/23/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/04/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

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	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
100-10-6	4-Nitroaniline	1300	UJ
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	160	J
120-12-7	Anthracene	520	U
86-74-8	Carbazole	520	U
84-74-2	Di-n-Butylphthalate	520 ~~390~~	~~BJ~~ U
206-44-0	Fluoranthene	230	J
129-00-0	Pyrene	180	J
85-68-7	Butylbenzylphthalate	520	U
91-94-1	3,3'-Dichlorobenzidine	520	U
56-55-3	Benzo(a)Anthracene	140	J
218-01-9	Chrysene	140	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	160	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	520	U
53-70-3	Dibenz(a,h)Anthracene	520	U
191-24-2	Benzo(g,h,i)Perylene	520	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453640

Sample wt/vol: 30.6 (g/mL) G Lab File ID: B0404K09

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: 38 decanted: (Y/N) N Date Extracted: 03/23/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/04/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 20

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	11.14	530	BJ
2.	UNKNOWN ALIP. KETONE	11.80	230	BAJ
3.	UNKNOWN	12.80	700	J
4.	UNKNOWN	14.09	500	J
5.	UNKNOWN	16.47	160	J
6.	UNKNOWN	21.84	300	J
7.	UNKNOWN ALIP. HYDROCARBON	23.34	140	J
8.	UNKNOWN ALIP. ACID	23.47	150	BJ
9.	UNKNOWN ALIP. HYDROCARBON	24.80	530	J
10.	UNKNOWN	27.96	140	J
11.	UNKNOWN ALIP. HYDROCARBON	29.57	140	J
12.	UNKNOWN	31.71	160	J
13.	UNKNOWN ALIP. ACID ESTER	32.76	440	BJ
14.	UNKNOWN ALIP. HYDROCARBON	33.69	210	J
15.	UNKNOWN ALIP. HYDROCARBON	35.91	220	J
16.	UNKNOWN	38.01	130	J
17.	UNKNOWN ALIP. HYDROCARBON	38.92	490	J
18.	UNKNOWN PNA	40.11	180	J
19.	UNKNOWN PCB	40.34	410	J
20.	UNKNOWN ALIP. HYDROCARBON	43.24	480	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453640

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 39 decanted: (Y/N) N Date Received: 03/18/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/21/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/04/94

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.8	U
319-85-7	beta-BHC	2.8	U
319-86-8	delta-BHC	13	~~B~~P
58-89-9	gamma-BHC (Lindane)	3.0	P
76-44-8	Heptachlor	2.8	U
309-00-2	Aldrin	2.8	U
1024-57-3	Heptachlor epoxide	2.8	U
959-98-8	Endosulfan I	2.8	U
60-57-1	Dieldrin	5.4	U
72-55-9	4,4'-DDE	37	P
72-20-8	Endrin	5.4	U
33213-65-9	Endosulfan II	5.4	U
50-29-3	4,4'-DDD	28	P
1031-07-8	Endosulfan sulfate	5.4	U
50-29-3	4,4'-DDT	32	~~B~~P
72-43-5	Methoxychlor	28	U
53494-70-5	Endrin ketone	5.4	U
7421-36-3	Endrin aldehyde	5.4	U
5103-71-9	alpha-Chlordane	2.8	U
5103-74-2	gamma-Chlordane	10	P
8001-35-2	Toxaphene	280	U
12674-11-2	Aroclor-1016	54	U
11104-28-2	Aroclor-1221	110	U
11141-16-5	Aroclor-1232	54	U
53469-21-9	Aroclor-1242	560	
12672-29-6	Aroclor-1248	54	U
11097-69-1	Aroclor-1254	1100	
11096-82-5	Aroclor-1260	1400	~~B~~

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102DL

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453640D

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 39 decanted: (Y/N) N Date Received: 03/18/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/21/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/20/94

Injection Volume: 1.00 (uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	28	U
319-85-7	beta-BHC	28	U
319-86-8	delta-BHC	15	~~B~~JPD
58-89-9	gamma-BHC (Lindane)	28	U
76-44-8	Heptachlor	28	U
309-00-2	Aldrin	28	U
1024-57-3	Heptachlor epoxide	28	U
959-98-8	Endosulfan I	28	U
60-57-1	Dieldrin	54	U
72-55-9	4,4'-DDE	36	JPD
72-20-8	Endrin	54	U
33213-65-9	Endosulfan II	54	U
50-29-3	4,4'-DDD	26	JPD
1031-07-8	Endosulfan sulfate	54	U
50-29-3	4,4'-DDT	23	~~B~~JPD
72-43-5	Methoxychlor	280	U
53494-70-5	Endrin ketone	150	D
7421-36-3	Endrin aldehyde	54	U
5103-71-9	alpha-Chlordane	28	U
5103-74-2	gamma-Chlordane	8.3	JPD
8001-35-2	Toxaphene	2800	U
12674-11-2	Aroclor-1016	540	U
11104-28-2	Aroclor-1221	1100	U
11141-16-5	Aroclor-1232	540	U
53469-21-9	Aroclor-1242	680 ~~690~~	~~D~~ D 04/24/
12672-29-6	Aroclor-1248	540	U
11097-69-1	Aroclor-1254	1300	D
11096-82-5	Aroclor-1260	1500	~~B~~D

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: SAUGET SITES AREA 2

Lab Code: Case No.: SAS No.: SDG No.: 104

Matrix (Soil): Lab Sample ID: B403624

Level (Low/Med): Date Received: 3/18/94

% Solids: 61.8

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	6860			P	
7440-36-0	Antimony	14.4	U	N	P	R J
7440-38-2	Arsenic	34.7			FM	
7440-39-3	Barium	74.8			P	
7440-41-7	Beryllium	3.1			P	
7440-43-9	Cadmium	5.6			P	
7440-70-2	Calcium	22800			P	
7440-47-3	Chromium	27.7			P	
7440-48-4	Cobalt	28.6			P	
7440-50-8	Copper	95.2			P	
7439-89-6	Iron	13300			P	
7439-92-1	Lead	130			P	
7439-95-4	Magnesium	4000			P	
7439-96-5	Manganese	132			P	
7439-97-6	Mercury	1.0			AV	
7440-02-2	Nickel	105			P	
7440-09-7	Potassium	1310	B		P	
7782-49-2	Selenium	6.7		S,N	FM	J
7440-22-4	Silver	1.1	U		P	
7440-23-5	Sodium	553	B		P	
7440-28-0	Thallium	1.9	B		FM	
7440-62-2	Vanadium	44			P	
7440-66-6	Zinc	885			P	
	Cyanide	1.4	U		AS	
					AS	

Color Before: Black Clarity Before: Opaque Texture: Fine

Color After: Colorless Clarity After: Clear Artifacts:

Comments:

FORM I - IN

SOIL

ILM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453641

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0318LC07

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: not dec. 37 Date Analyzed: 03/18/94

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	UJ
75-00-3	Chloroethane	16	U
75-09-2	Methylene Chloride	4	J
67-64-1	Acetone	16	U
75-15-0	Carbon Disulfide	6	J
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	UJ
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	16	U
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

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453641

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0318LC07

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: not dec. 37 Date Analyzed: 03/18/94

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

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453641

Sample wt/vol: 30.2 (g/mL) G Lab File ID: C0407K07

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: 37 decanted: (Y/N) N Date Extracted: 03/23/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/07/94

Injection Volume: 2.0(uL) Dilution Factor: 2.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1000	U
111-44-4	bis(2-Chloroethyl)Ether	1000	U
95-57-8	2-Chlorophenol	1000	U
541-73-1	1,3-Dichlorobenzene	1000	U
106-46-7	1,4-Dichlorobenzene	1000	U
95-50-1	1,2-Dichlorobenzene	1000	U
95-48-7	2-Methylphenol	1000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	1000	UJ
106-44-5	4-Methylphenol	1000	U
621-64-7	N-Nitroso-Di-n-Propylamine	1000	UJ
67-72-1	Hexachloroethane	1000	U
98-95-3	Nitrobenzene	1000	U
78-59-1	Isophorone	1000	U
88-75-5	2-Nitrophenol	1000	UJ
105-67-9	2,4-Dimethylphenol	1000	U
111-91-1	bis(2-Chloroethoxy)Methane	1000	U
120-83-2	2,4-Dichlorophenol	1000	U
120-82-1	1,2,4-Trichlorobenzene	1000	U
91-20-3	Naphthalene	1000	U
106-47-8	4-Chloroaniline	1000	UJ
87-68-3	Hexachlorobutadiene	1000	U
59-50-7	4-Chloro-3-Methylphenol	1000	U
91-57-6	2-Methylnaphthalene	1000	U
77-47-4	Hexachlorocyclopentadiene	1000	U
88-06-2	2,4,6-Trichlorophenol	1000	U
95-95-4	2,4,5-Trichlorophenol	2500	U
91-58-7	2-Chloronaphthalene	1000	U
88-74-4	2-Nitroaniline	2500	U
131-11-3	Dimethylphthalate	1000	U
208-96-8	Acenaphthylene	1000	U
606-20-2	2,6-Dinitrotoluene	1000	U
99-09-2	3-Nitroaniline	2500	UJ
83-32-9	Acenaphthene	1000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453641

Sample wt/vol: 30.2 (g/mL) G Lab File ID: C0407K07

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: 37 decanted: (Y/N) N Date Extracted: 03/23/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/07/94

Injection Volume: 2.0(uL) Dilution Factor: 2.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	2500	U
100-02-7	4-Nitrophenol	2500	U
132-64-9	Dibenzofuran	1000	U
121-14-2	2,4-Dinitrotoluene	1000	U
84-66-2	Diethylphthalate	1000	U
7005-72-3	4-Chlorophenyl-phenylether	1000	U
86-73-7	Fluorene	1000	U
100-10-6	4-Nitroaniline	2500	U
534-52-1	4,6-Dinitro-2-methylphenol	2500	U
86-30-6	N-Nitrosodiphenylamine (1)	1000	UJ
101-55-3	4-Bromophenyl-phenylether	1000	U
118-74-1	Hexachlorobenzene	1000	U
87-86-5	Pentachlorophenol	2500	U
85-01-8	Phenanthrene	570	J
120-12-7	Anthracene	1000	U
86-74-8	Carbazole	1000	U
84-74-2	Di-n-Butylphthalate	1000	~~BJ~~ U
206-44-0	Fluoranthene	860	J
129-00-0	Pyrene	720	J
85-68-7	Butylbenzylphthalate	1000	U
91-94-1	3,3'-Dichlorobenzidine	1000	U
56-55-3	Benzo(a)Anthracene	1000	U
218-01-9	Chrysene	600	J
117-81-7	bis(2-Ethylhexyl)Phthalate	1000	U
117-84-0	Di-n-Octyl Phthalate	1000	U
205-99-2	Benzo(b)Fluoranthene	720	J
207-08-9	Benzo(k)Fluoranthene	530	J
50-32-8	Benzo(a)Pyrene	1000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	790	J
53-70-3	Dibenz(a,h)Anthracene	1000	U
191-24-2	Benzo(g,h,i)Perylene	520	J

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453641

Sample wt/vol: 30.2 (g/mL) G Lab File ID: C0407K07

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: 37 decanted: (Y/N) N Date Extracted: 03/23/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/07/94

Injection Volume: 2.0(uL) Dilution Factor: 2.0

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

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.80	2800	BJ
2. 123-42-2	2PENTANONE,4HYDROXY-4METHYL	8.52	53000	JNBA
3.	UNKNOWN	10.07	1200	BJ
4.	UNKNOWN	11.57	1600	J
5.	UNKNOWN	12.72	1200	J
6.	UNKNOWN	21.94	440	J
7.	UNKNOWN ALIP. ACID	25.11	730	J
8.	UNKNOWN ALIP. HYDROCARBON	25.54	470	J
9.	UNKNOWN ALIP. HYDROCARBON	26.56	410	J
10.	UNKNOWN PCB	27.29	340	J
11.	UNKNOWN	27.92	1400	J
12.	UNKNOWN	28.46	960	J
13.	UNKNOWN	28.59	550	J
14.	UNKNOWN	29.04	340	J
15.	UNKNOWN ALIP. HYDROCARBON	29.36	1000	J
16.	UNKNOWN	29.64	420	J
17.	UNKNOWN	30.22	3200	J
18.	UNKNOWN	30.32	1900	J
19.	UNKNOWN	31.19	690	J
20.	UNKNOWN	31.86	870	J
21.	UNKNOWN	32.31	2100	J
22.	UNKNOWN	33.57	620	J
23.	UNKNOWN	33.84	580	J
24.	UNKNOWN	34.24	400	J
25.	UNKNOWN	34.97	780	J
26.	UNKNOWN ALIP. HYDROCARBON	35.12	8500	J
27.	UNKNOWN	35.64	430	J
28.	UNKNOWN PNA	36.17	800	J
29.	UNKNOWN ALIP. HYDROCARBON	39.21	3400	J
30.	UNKNOWN	47.94	6300	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453641

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 37 decanted: (Y/N) N Date Received: 03/18/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/21/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/07/94

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

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	2.7	U
319-85-7	beta-BHC	2.7	U
319-86-8	delta-BHC	160	~~B~~
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	2.7	U
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
50-29-3	4,4'-DDD	26	P
1031-07-8	Endosulfan sulfate	5.2	U
50-29-3	4,4'-DDT	49	~~B~~P
72-43-5	Methoxychlor	27	U
53494-70-5	Endrin ketone	5.2	U
7421-36-3	Endrin aldehyde	5.2	U
5103-71-9	alpha-Chlordane	2.7	U
5103-74-2	gamma-Chlordane	36	P
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	1500	
12672-29-6	Aroclor-1248	52	U
11097-69-1	Aroclor-1254	3400	
11096-82-5	Aroclor-1260	4000	~~B~~

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103DL

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453641D

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 37 decanted: (Y/N) N Date Received: 03/18/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/21/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/07/94

Injection Volume: 1.00 (uL) Dilution Factor: 10.0

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	27	U
319-85-7	beta-BHC	27	U
319-86-8	delta-BHC	220	~~B~~D
58-89-9	gamma-BHC (Lindane)	27	U
76-44-8	Heptachlor	27	U
309-00-2	Aldrin	27	U
1024-57-3	Heptachlor epoxide	27	U
959-98-8	Endosulfan I	27	U
60-57-1	Dieldrin	52	U
72-55-9	4,4'-DDE	52	U
72-20-8	Endrin	52	U
33213-65-9	Endosulfan II	52	U
50-29-3	4,4'-DDD	16	JPD
1031-07-8	Endosulfan sulfate	52	U
50-29-3	4,4'-DDT	44	~~B~~JPD
72-43-5	Methoxychlor	270	U
53494-70-5	Endrin ketone	52	U
7421-36-3	Endrin aldehyde	52	U
5103-71-9	alpha-Chlordane	27	U
5103-74-2	gamma-Chlordane	37	PD
8001-35-2	Toxaphene	2700	U
12674-11-2	Aroclor-1016	520	U
11104-28-2	Aroclor-1221	1100	U
11141-16-5	Aroclor-1232	520	U
53469-21-9	Aroclor-1242	1600	PD
12672-29-6	Aroclor-1248	520	U
11097-69-1	Aroclor-1254	4000	PD
11096-82-5	Aroclor-1260	4700	~~B~~D

04/26/94

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: SAUGET SITES AREA 2

Lab Code: Case No.: SAS No.: SDG No.: 104

Matrix (Soil): Lab Sample ID: B403625

Level (Low/Med): Date Received: 3/18/94

% Solids: 63.9

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	13200			P	
7440-36-0	Antimony	11.2	U	N	P	J
7440-38-2	Arsenic	27.6			FM	
7440-39-3	Barium	181			P	
7440-41-7	Beryllium	2.7			P	
7440-43-9	Cadmium	13.3			P	
7440-70-2	Calcium	40200			P	
7440-47-3	Chromium	38.5			P	
7440-48-4	Cobalt	21.6			P	
7440-50-8	Copper	187			P	
7439-89-6	Iron	17900			P	
7439-92-1	Lead	332			P	
7439-95-4	Magnesium	8460			P	
7439-96-5	Manganese	299			P	
7439-97-6	Mercury	1.4			AV	
7440-02-2	Nickel	65.6			P	
7440-09-7	Potassium	2170			P	
7782-49-2	Selenium	5.6		S,N	FM	J
7440-22-4	Silver	0.99	B		P	
7440-23-5	Sodium	252	B		P	
7440-28-0	Thallium	2.0			FM	
7440-62-2	Vanadium	59.3			P	
7440-66-6	Zinc	1520			P	
	Cyanide	1.3	U		AS	
					AS	

Color Before: Black Clarity Before: Opaque Texture: Fine

Color After: Colorless Clarity After: Clear Artifacts:

Comments:

FORM I - IN

SOIL

ILM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453642

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0318LC08

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: not dec. 38 Date Analyzed: 03/18/94

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	UJ
74-83-9	Bromomethane	16	UJ
75-01-4	Vinyl Chloride	16	UJ
75-00-3	Chloroethane	16	UJ
75-09-2	Methylene Chloride	5	J
67-64-1	Acetone	16	UJ
75-15-0	Carbon Disulfide	6	J
75-35-4	1,1-Dichloroethene	16	UJ
75-34-3	1,1-Dichloroethane	16	UJ
540-59-0	1,2-Dichloroethene (total)	16	UJ
67-66-3	Chloroform	16	UJ
107-06-2	1,2-Dichloroethane	16	UJ
78-93-3	2-Butanone	16	UJ
71-55-6	1,1,1-Trichloroethane	16	U
56-23-5	Carbon Tetrachloride	16	U
75-27-4	Bromodichloromethane	16	UJ
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	UJ
127-18-4	Tetrachloroethene	16	UJ
79-34-5	1,1,2,2-Tetrachloroethane	16	UJ
108-88-3	Toluene	7	J
108-90-7	Chlorobenzene	16	UJ
100-41-4	Ethylbenzene	16	UJ
100-42-5	Styrene	16	UJ
1330-20-7	Xylene (total)	3	J

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453642

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0318LC08

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: not dec. 38 Date Analyzed: 03/18/94

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

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453642

Sample wt/vol: 30.5 (g/mL) G Lab File ID: C0407K06

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: 38 decanted: (Y/N) N Date Extracted: 04/05/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/07/94

Injection Volume: 2.0(uL) Dilution Factor: 5.0

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

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	UJ
106-44-5	4-Methylphenol	2900	
621-64-7	N-Nitroso-Di-n-Propylamine	2600	UJ
67-72-1	Hexachloroethane	2600	U
98-95-3	Nitrobenzene	2600	U
78-59-1	Isophorone	2600	U
88-75-5	2-Nitrophenol	2600	UJ
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	2600	U
106-47-8	4-Chloroaniline	2600	UJ
87-68-3	Hexachlorobutadiene	2600	U
59-50-7	4-Chloro-3-Methylphenol	2600	U
91-57-6	2-Methylnaphthalene	640	J
77-47-4	Hexachlorocyclopentadiene	2600	U
88-06-2	2,4,6-Trichlorophenol	2600	U
95-95-4	2,4,5-Trichlorophenol	6300	U
91-58-7	2-Chloronaphthalene	2600	U
88-74-4	2-Nitroaniline	6300	U
131-11-3	Dimethylphthalate	2600	U
208-96-8	Acenaphthylene	2600	U
606-20-2	2,6-Dinitrotoluene	2600	U
99-09-2	3-Nitroaniline	6300	UJ
83-32-9	Acenaphthene	2600	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453642

Sample wt/vol: 30.5 (g/mL) G Lab File ID: C0407K06

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: 38 decanted: (Y/N) N Date Extracted: 04/05/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/07/94

Injection Volume: 2.0(uL) Dilution Factor: 5.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	6300	U
100-02-7	4-Nitrophenol	6300	U
132-64-9	Dibenzofuran	2600	U
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	2600	U
100-10-6	4-Nitroaniline	6300	U
534-52-1	4,6-Dinitro-2-methylphenol	6300	U
86-30-6	N-Nitrosodiphenylamine (1)	2600	UJ
101-55-3	4-Bromophenyl-phenylether	2600	U
118-74-1	Hexachlorobenzene	2600	U
87-86-5	Pentachlorophenol	6300	U
85-01-8	Phenanthrene	1700	J
120-12-7	Anthracene	2600	U
86-74-8	Carbazole	2600	U
84-74-2	Di-n-Butylphthalate	2600 ~~940~~	~~BJ~~ U JF
206-44-0	Fluoranthene	2400	J
129-00-0	Pyrene	1700	J
85-68-7	Butylbenzylphthalate	630	J
91-94-1	3,3'-Dichlorobenzidine	2600	U
56-55-3	Benzo(a)Anthracene	1100	J
218-01-9	Chrysene	2200	J
117-81-7	bis(2-Ethylhexyl)Phthalate	920	J
117-84-0	Di-n-Octyl Phthalate	2600	U
205-99-2	Benzo(b)Fluoranthene	3900	
207-08-9	Benzo(k)Fluoranthene	1900	J
50-32-8	Benzo(a)Pyrene	1600	J
193-39-5	Indeno(1,2,3-cd)Pyrene	2600	J
53-70-3	Dibenz(a,h)Anthracene	2600	U
191-24-2	Benzo(g,h,i)Perylene	2000	J

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453642

Sample wt/vol: 30.5 (g/mL) G Lab File ID: C0407K06

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: 38 decanted: (Y/N) N Date Extracted: 04/05/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/07/94

Injection Volume: 2.0(uL) Dilution Factor: 5.0

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

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2PENTANONE,4HYDROXY-4METHYL	8.40	41000	JNBA
2.	UNKNOWN ALIP. HYDROCARBON	19.67	1500	J
3.	UNKNOWN ALIP. HYDROCARBON	20.97	1700	J
4.	UNKNOWN ALIP. HYDROCARBON	22.20	2300	J
5.	UNKNOWN ALIP. HYDROCARBON	22.27	2600	J
6.	UNKNOWN ALIP. HYDROCARBON	23.37	1800	J
7.	UNKNOWN ALIP. HYDROCARBON	24.47	1600	J
8.	UNKNOWN	24.59	1300	J
9.	UNKNOWN PNA	25.06	880	J
10.	UNKNOWN ALIP. ACID	25.09	1400	J
11.	UNKNOWN ALIP. HYDROCARBON	25.52	1300	J
12.	UNKNOWN ALIP. HYDROCARBON	26.54	1200	J
13.	UNKNOWN	28.44	2700	J
14.	UNKNOWN	29.02	870	J
15.	UNKNOWN ALIP. ACID ESTER	29.37	5400	BJ
16.	UNKNOWN	29.64	1200	J
17.	UNKNOWN	30.19	6200	BJ
18.	UNKNOWN	31.17	1500	J
19.	UNKNOWN	32.27	5800	J
20.	UNKNOWN	33.56	1200	J
21.	UNKNOWN	34.21	1900	J
22.	UNKNOWN ALIP. HYDROCARBON	35.09	19000	J
23.	UNKNOWN ALIP. HYDROCARBON	35.17	3700	J
24.	UNKNOWN	35.61	1800	J
25.	UNKNOWN PNA	36.14	5200	J
26.	UNKNOWN	36.37	1300	J
27.	UNKNOWN ALIP. HYDROCARBON	39.16	21000	J
28.	UNKNOWN	39.36	5300	J
29.	UNKNOWN	45.68	11000	J
30.	UNKNOWN	47.94	30000	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453642

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 38 decanted: (Y/N) N Date Received: 03/18/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/21/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/07/94

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

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

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	5.6	P
319-86-8	delta-BHC	2.7	U
58-89-9	gamma-BHC (Lindane)	3.7	P
76-44-8	Heptachlor	2.7	U
309-00-2	Aldrin	2.7	U
1024-57-3	Heptachlor epoxide	2.7	U
959-98-8	Endosulfan I	2.7	U
60-57-1	Dieldrin	5.3	U
72-55-9	4,4'-DDE	5.3	U
72-20-8	Endrin	5.3	U
33213-65-9	Endosulfan II	5.3	U
50-29-3	4,4'-DDD	46	P
1031-07-8	Endosulfan sulfate	5.3	U
50-29-3	4,4'-DDT	140	~~B~~P
72-43-5	Methoxychlor	27	U
53494-70-5	Endrin ketone	5.3	U
7421-36-3	Endrin aldehyde	5.3	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	53	U
11104-28-2	Aroclor-1221	110	U
11141-16-5	Aroclor-1232	53	U
53469-21-9	Aroclor-1242	1700	
12672-29-6	Aroclor-1248	53	U
11097-69-1	Aroclor-1254	3500	
11096-82-5	Aroclor-1260	4600	~~B~~C

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104DL

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453642D

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 38 decanted: (Y/N) N Date Received: 03/18/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/21/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/07/94

Injection Volume: 1.00 (uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	27	U
319-85-7	beta-BHC	27	U
319-86-8	delta-BHC	27	U
58-89-9	gamma-BHC (Lindane)	3.7	JPD
76-44-8	Heptachlor	27	U
309-00-2	Aldrin	27	U
1024-57-3	Heptachlor epoxide	27	U
959-98-8	Endosulfan I	27	U
60-57-1	Dieldrin	53	U
72-55-9	4,4'-DDE	53	U
72-20-8	Endrin	53	U
33213-65-9	Endosulfan II	53	U
50-29-3	4,4'-DDD	190	PD
1031-07-8	Endosulfan sulfate	53	U
50-29-3	4,4'-DDT	190	~~B~~PD
72-43-5	Methoxychlor	270	U
53494-70-5	Endrin ketone	53	U
7421-36-3	Endrin aldehyde	53	U
5103-71-9	alpha-Chlordane	27	U
5103-74-2	gamma-Chlordane	27	U
8001-35-2	Toxaphene	2700	U
12674-11-2	Aroclor-1016	530	U
11104-28-2	Aroclor-1221	1100	U
11141-16-5	Aroclor-1232	530	U
53469-21-9	Aroclor-1242	2000	D
12672-29-6	Aroclor-1248	530	U
11097-69-1	Aroclor-1254	4100	D
11096-82-5	Aroclor-1260	5700	~~B~~DC

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: SAUGET SITES AREA 2

Lab Code: Case No.: SAS No.: SDG No.: 104

Matrix (Soil): Lab Sample ID: B403626

Level (Low/Med): Date Received: 3/18/94

% Solids: 65.6

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	10400			P	
7440-36-0	Antimony	15.6	U	N	P	J
7440-38-2	Arsenic	14.15		S	FM	
7440-39-3	Barium	180			P	
7440-41-7	Beryllium	1.4	B		P	
7440-43-9	Cadmium	32.9			P	
7440-70-2	Calcium	53400			P	
7440-47-3	Chromium	38.2			P	
7440-48-4	Cobalt	17.7			P	
7440-50-8	Copper	231			P	
7439-89-6	Iron	16700			P	
7439-92-1	Lead	378			P	
7439-95-4	Magnesium	8540			P	
7439-96-5	Manganese	389			P	
7439-97-6	Mercury	3.4			AV	
7440-02-2	Nickel	48.8			P	
7440-09-7	Potassium	1590			P	
7782-49-2	Selenium	3.4		S,N	FM	J
7440-22-4	Silver	2.4	B		P	
7440-23-5	Sodium	205	B		P	
7440-28-0	Thallium	0.61	B		FM	
7440-62-2	Vanadium	38.2			P	
7440-66-6	Zinc	4030			P	
	Cyanide	1.3	U		AS	
					AS	

Color Before: Black Clarity Before: Opaque Texture: Fine

Color After: Yellow Clarity After: Clear Artifacts:

Comments:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453643

Sample wt/vol: 4.0 (g/mL) G Lab File ID: B0324LC07

Level: (low/med) MED Date Received: 03/18/94

% Moisture: not dec. ____ Date Analyzed: 03/24/94

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

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 20.0(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	6000	U
74-83-9	Bromomethane	6000	U
75-01-4	Vinyl Chloride	6000	U
75-00-3	Chloroethane	6000	U
75-09-2	Methylene Chloride	6000	U
67-64-1	Acetone	6000	U
75-15-0	Carbon Disulfide	6000	U
75-35-4	1,1-Dichloroethene	6000	U
75-34-3	1,1-Dichloroethane	6000	U
540-59-0	1,2-Dichloroethene (total)	6000	U
67-66-3	Chloroform	3200	J
107-06-2	1,2-Dichloroethane	6000	U
78-93-3	2-Butanone	6000	UJ
71-55-6	1,1,1-Trichloroethane	12000	
56-23-5	Carbon Tetrachloride	6000	U
75-27-4	Bromodichloromethane	6000	U
78-87-5	1,2-Dichloropropane	6000	U
10061-01-5	cis-1,3-Dichloropropene	6000	U
79-01-6	Trichloroethene	3700	J
124-48-1	Dibromochloromethane	6000	U
79-00-5	1,1,2-Trichloroethane	6000	U
71-43-2	Benzene	240000	E
10061-02-6	trans-1,3-Dichloropropene	6000	U
75-25-2	Bromoform	6000	U
108-10-1	4-Methyl-2-Pentanone	30000	
591-78-6	2-Hexanone	6000	UJ
127-18-4	Tetrachloroethene	3000	J
79-34-5	1,1,2,2-Tetrachloroethane	6000	U
108-88-3	Toluene	190000	E
108-90-7	Chlorobenzene	280000	E
100-41-4	Ethylbenzene	630000	E
100-42-5	Styrene	6000	U
1330-20-7	Xylene (total)	540000	E

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453643

Sample wt/vol: 4.0 (g/mL) G Lab File ID: B0324LC07

Level: (low/med) MED Date Received: 03/18/94

% Moisture: not dec. ____ Date Analyzed: 03/24/94

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

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 20.0(uL)

Number TICs found: 10

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. HYDROCARBON	8.25	61000	J
2.	UNKNOWN ALIP. HYDROCARBON	9.65	59000	J
3. 112-58-3	~~HEXANE, 1,1'-OXYBIS-~~ unknown	11.09	85000	JN
4.	UNKNOWN ALIP. HYDROCARBON	11.45	55000	J
5. 51677-41-9	BUTANE, 2-AZIDO-2,3,3-TRIMET	11.97	99000	JN
6.	UNKNOWN ALIP. HYDROCARBON	12.37	120000	J
7.	UNKNOWN ALIP. HYDROCARBON	13.40	130000	J
8.	UNKNOWN	14.24	65000	J
9.	UNKNOWN ALIP. HYDROCARBON	15.24	57000	J
10.	UNKNOWN ALIP. HYDROCARBON	15.70	62000	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105DL

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453643DL

Sample wt/vol: 4.0 (g/mL) G Lab File ID: B0325LC08

Level: (low/med) MED Date Received: 03/18/94

% Moisture: not dec. ____ Date Analyzed: 03/25/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 100.0

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 25.0(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	480000	U
74-83-9	Bromomethane	480000	U
75-01-4	Vinyl Chloride	480000	U
75-00-3	Chloroethane	480000	U
75-09-2	Methylene Chloride	480000	U
67-64-1	Acetone	480000	UJ
75-15-0	Carbon Disulfide	480000	U
75-35-4	1,1-Dichloroethene	480000	U
75-34-3	1,1-Dichloroethane	480000	U
540-59-0	1,2-Dichloroethene (total)	480000	U
67-66-3	Chloroform	480000	U
107-06-2	1,2-Dichloroethane	480000	U
78-93-3	2-Butanone	480000	UJ
71-55-6	1,1,1-Trichloroethane	480000	U
56-23-5	Carbon Tetrachloride	480000	U
75-27-4	Bromodichloromethane	480000	U
78-87-5	1,2-Dichloropropane	480000	U
10061-01-5	cis-1,3-Dichloropropene	480000	U
79-01-6	Trichloroethene	480000	U
124-48-1	Dibromochloromethane	480000	U
79-00-5	1,1,2-Trichloroethane	480000	U
71-43-2	Benzene	450000	DJ
10061-02-6	trans-1,3-Dichloropropene	480000	U
75-25-2	Bromoform	480000	U
108-10-1	4-Methyl-2-Pentanone	480000	UJ
591-78-6	2-Hexanone	480000	UJ
127-18-4	Tetrachloroethene	480000	U
79-34-5	1,1,2,2-Tetrachloroethane	480000	U
108-88-3	Toluene	260000	DJ
108-90-7	Chlorobenzene	460000	DJ
100-41-4	Ethylbenzene	2200000	D
100-42-5	Styrene	480000	U
1330-20-7	Xylene (total)	9800000	D

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X105DL

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453643DL

Sample wt/vol: 4.0 (g/mL) G Lab File ID: B0325LC08

Level: (low/med) MED Date Received: 03/18/94

% Moisture: not dec. ____ Date Analyzed: 03/25/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 100.0

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 25.0(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

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453643

Sample wt/vol: 1.1 (g/mL) G Lab File ID: C0323E09

Level: (low/med) MED Date Received: 03/18/94

% Moisture: _____ decanted: (Y/N) N Date Extracted: 03/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/23/94

Injection Volume: 2.0(uL) Dilution Factor: 20.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	180000	U
111-44-4	bis(2-Chloroethyl)Ether	180000	U
95-57-8	2-Chlorophenol	180000	U
541-73-1	1,3-Dichlorobenzene	180000	U
106-46-7	1,4-Dichlorobenzene	330000	
95-50-1	1,2-Dichlorobenzene	520000	
95-48-7	2-Methylphenol	180000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	180000	U
106-44-5	4-Methylphenol	180000	U
621-64-7	N-Nitroso-Di-n-Propylamine	180000	U
67-72-1	Hexachloroethane	180000	U
98-95-3	Nitrobenzene	180000	U
78-59-1	Isophorone	180000	U
88-75-5	2-Nitrophenol	180000	U
105-67-9	2,4-Dimethylphenol	180000	U
111-91-1	bis(2-Chloroethoxy)Methane	180000	U
120-83-2	2,4-Dichlorophenol	66000	J
120-82-1	1,2,4-Trichlorobenzene	140000	J
91-20-3	Naphthalene	180000	J
106-47-8	4-Chloroaniline	180000	UJ
87-68-3	Hexachlorobutadiene	180000	U
59-50-7	4-Chloro-3-Methylphenol	180000	U
91-57-6	2-Methylnaphthalene	580000	
77-47-4	Hexachlorocyclopentadiene	180000	U
88-06-2	2,4,6-Trichlorophenol	180000	U
95-95-4	2,4,5-Trichlorophenol	460000	U
91-58-7	2-Chloronaphthalene	180000	U
88-74-4	2-Nitroaniline	460000	U
131-11-3	Dimethylphthalate	180000	U
208-96-8	Acenaphthylene	180000	U
606-20-2	2,6-Dinitrotoluene	180000	U
99-09-2	3-Nitroaniline	460000	UJ
83-32-9	Acenaphthene	180000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453643

Sample wt/vol: 1.1 (g/mL) G Lab File ID: C0323E09

Level: (low/med) MED Date Received: 03/18/94

% Moisture: _____ decanted: (Y/N) N Date Extracted: 03/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/23/94

Injection Volume: 2.0(uL) Dilution Factor: 20.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	460000	U
100-02-7	4-Nitrophenol	460000	U
132-64-9	Dibenzofuran	180000	U
121-14-2	2,4-Dinitrotoluene	180000	U
84-66-2	Diethylphthalate	180000	U
7005-72-3	4-Chlorophenyl-phenylether	180000	U
86-73-7	Fluorene	52000	J
100-10-6	4-Nitroaniline	460000	UJ
534-52-1	4,6-Dinitro-2-methylphenol	460000	U
86-30-6	N-Nitrosodiphenylamine (1)	180000	U
101-55-3	4-Bromophenyl-phenylether	180000	U
118-74-1	Hexachlorobenzene	180000	U
87-86-5	Pentachlorophenol	18000000	E
85-01-8	Phenanthrene	660000	
120-12-7	Anthracene	180000	U
86-74-8	Carbazole	180000	U
84-74-2	Di-n-Butylphthalate	180000	U
206-44-0	Fluoranthene	95000	J
129-00-0	Pyrene	940000	
85-68-7	Butylbenzylphthalate	63000	J
91-94-1	3,3'-Dichlorobenzidine	180000	UJ
56-55-3	Benzo(a)Anthracene	400000	
218-01-9	Chrysene	870000	
117-81-7	bis(2-Ethylhexyl)Phthalate	180000	U
117-84-0	Di-n-Octyl Phthalate	180000	UJ
205-99-2	Benzo(b)Fluoranthene	160000	J
207-08-9	Benzo(k)Fluoranthene	180000	U
50-32-8	Benzo(a)Pyrene	160000	J
193-39-5	Indeno(1,2,3-cd)Pyrene	180000	U
53-70-3	Dibenz(a,h)Anthracene	100000	J
191-24-2	Benzo(g,h,i)Perylene	180000	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453643

Sample wt/vol: 1.1 (g/mL) G Lab File ID: C0323E09

Level: (low/med) MED Date Received: 03/18/94

% Moisture: _____ decanted: (Y/N) N Date Extracted: 03/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/23/94

Injection Volume: 2.0(uL) Dilution Factor: 20.0

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

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	C3-SUBSTITUTED BENZENE	11.47	820000	J
2.	UNKNOWN ALIP. HYDROCARBON	11.50	970000	J
3.	C4-SUBSTITUTED BENZENE	12.05	900000	J
4. 138-86-3	~~LIMONENE~~ unknown	12.15	740000	~~JN~~ J
5.	UNKNOWN ALIP. HYDROCARBON	13.34	1300000	J
6. 100-00-5	~~BENZENE, 1-CHLORO-4-NITRO-~~ unk	15.84	1600000	~~JN~~ J
7. 88-73-3	~~BENZENE, 1-CHLORO-2-NITRO-~~ unk	15.97	820000	~~JN~~ J
8.	UNKNOWN ALIP. HYDROCARBON	16.55	1700000	J
9.	UNKNOWN ALIP. HYDROCARBON	18.00	1700000	J
10.	NAPHTHALENE, DIMETHYL	18.65	1000000	J
11. 4901-51-3	~~PHENOL, 2,3,4,5-TETRACHLORO-~~ unk	20.45	590000	~~JN~~ J
12.	UNKNOWN ALIP. HYDROCARBON	20.65	1600000	J
13.	UNKNOWN ALIP. HYDROCARBON	21.87	2000000	J
14.	UNKNOWN ALIP. HYDROCARBON	24.10	110000	J
15.	UNKNOWN ALIP. HYDROCARBON	24.14	1800000	J
16.	ANTHRACENE, METHYL-	24.70	1700000	JN
17.	ANTHRACENE, METHYL-	24.79	1100000	JN
18.	ANTHRACENE, METHYL-	25.00	540000	JN
19.	UNKNOWN ALIP. HYDROCARBON	25.21	1600000	J
20.	UNKNOWN	25.34	500000	J
21.	PHENANTHRENE, DIMETHYL	25.87	490000	JN
22.	PHENANTHRENE, DIMETHYL	25.99	1100000	JN
23.	UNKNOWN	26.21	880000	J
24.	UNKNOWN	26.54	520000	J
25.	UNKNOWN ALIP. HYDROCARBON	28.09	1700000	J
26. 3665-70-1	~~BENZENAMINE,4NITRO-N-NITROSO~~ unk	28.14	4300000	~~JN~~ J
27. 3353-12-6	PYRENE, 4-METHYL-	28.36	1400000	JN
28.	UNKNOWN ALIP. HYDROCARBON	29.01	960000	J
29.	UNKNOWN	29.42	500000	J
30.	UNKNOWN PNA	29.72	840000	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105DL

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453643

Sample wt/vol: 1.1 (g/mL) G Lab File ID: C0329K03

Level: (low/med) MED Date Received: 03/18/94

% Moisture: _____ decanted: (Y/N) N Date Extracted: 03/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/29/94

Injection Volume: 2.0(uL) Dilution Factor: 200.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1800000	U
111-44-4	bis(2-Chloroethyl)Ether	1800000	U
95-57-8	2-Chlorophenol	1800000	U
541-73-1	1,3-Dichlorobenzene	1800000	U
106-46-7	1,4-Dichlorobenzene	1800000	U
95-50-1	1,2-Dichlorobenzene	470000	J
95-48-7	2-Methylphenol	1800000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	1800000	U
106-44-5	4-Methylphenol	1800000	U
621-64-7	N-Nitroso-Di-n-Propylamine	1800000	U
67-72-1	Hexachloroethane	1800000	U
98-95-3	Nitrobenzene	1800000	U
78-59-1	Isophorone	1800000	U
88-75-5	2-Nitrophenol	1800000	U
105-67-9	2,4-Dimethylphenol	1800000	U
111-91-1	bis(2-Chloroethoxy)Methane	1800000	U
120-83-2	2,4-Dichlorophenol	1800000	U
120-82-1	1,2,4-Trichlorobenzene	1800000	U
91-20-3	Naphthalene	1800000	U
106-47-8	4-Chloroaniline	1800000	UJ
87-68-3	Hexachlorobutadiene	1800000	U
59-50-7	4-Chloro-3-Methylphenol	1800000	U
91-57-6	2-Methylnaphthalene	560000	J
77-47-4	Hexachlorocyclopentadiene	1800000	U
88-06-2	2,4,6-Trichlorophenol	1800000	U
95-95-4	2,4,5-Trichlorophenol	4600000	U
91-58-7	2-Chloronaphthalene	1800000	U
88-74-4	2-Nitroaniline	4600000	U
131-11-3	Dimethylphthalate	1800000	U
208-96-8	Acenaphthylene	1800000	U
606-20-2	2,6-Dinitrotoluene	1800000	U
99-09-2	3-Nitroaniline	4600000	U
83-32-9	Acenaphthene	1800000	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105DL

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453643

Sample wt/vol: 1.1 (g/mL) G Lab File ID: C0329K03

Level: (low/med) MED Date Received: 03/18/94

% Moisture: _____ decanted: (Y/N) N Date Extracted: 03/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/29/94

Injection Volume: 2.0(uL) Dilution Factor: 200.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	4600000	U
100-02-7	4-Nitrophenol	4600000	U
132-64-9	Dibenzofuran	1800000	U
121-14-2	2,4-Dinitrotoluene	1800000	U
84-66-2	Diethylphthalate	1800000	U
7005-72-3	4-Chlorophenyl-phenylether	1800000	U
86-73-7	Fluorene	1800000	U
100-10-6	4-Nitroaniline	4600000	UJ
534-52-1	4,6-Dinitro-2-methylphenol	4600000	U
86-30-6	N-Nitrosodiphenylamine (1)	1800000	U
101-55-3	4-Bromophenyl-phenylether	1800000	U
118-74-1	Hexachlorobenzene	1800000	U
87-86-5	Pentachlorophenol	13000000	
85-01-8	Phenanthrene	620000	J
120-12-7	Anthracene	1800000	U
86-74-8	Carbazole	1800000	U
84-74-2	Di-n-Butylphthalate	1800000	U
206-44-0	Fluoranthene	1800000	U
129-00-0	Pyrene	980000	J
85-68-7	Butylbenzylphthalate	1800000	UJ
91-94-1	3,3'-Dichlorobenzidine	1800000	U
56-55-3	Benzo(a)Anthracene	1800000	U
218-01-9	Chrysene	880000	J
117-81-7	bis(2-Ethylhexyl)Phthalate	1800000	U
117-84-0	Di-n-Octyl Phthalate	1800000	U
205-99-2	Benzo(b)Fluoranthene	1800000	U
207-08-9	Benzo(k)Fluoranthene	1800000	U
50-32-8	Benzo(a)Pyrene	1800000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	1800000	U
53-70-3	Dibenz(a,h)Anthracene	1800000	U
191-24-2	Benzo(g,h,i)Perylene	1800000	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X105DL

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453643

Sample wt/vol: 1.1 (g/mL) G Lab File ID: C0329K03

Level: (low/med) MED Date Received: 03/18/94

% Moisture: _____ decanted: (Y/N) N Date Extracted: 03/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/29/94

Injection Volume: 2.0(uL) Dilution Factor: 200.0

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

Number TICs found: 25

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. HYDROCARBON	9.37	610000	J
2.	C3-SUBSTITUTED BENZENE	11.39	720000	J
3.	UNKNOWN ALIP. HYDROCARBON	11.42	890000	J
4.	C4-SUBSTITUTED BENZENE	11.97	710000	J
5.	UNKNOWN ALIP. HYDROCARBON	12.05	680000	J
6.	UNKNOWN ALIP. HYDROCARBON	13.24	1300000	J
7.	BENZENE, CHLORONITRO-	15.75	1100000	JN
8.	BENZENE, CHLORONITRO-	15.87	790000	JN
9.	UNKNOWN ALIP. HYDROCARBON	16.47	1600000	J
10.	UNKNOWN ALIP. HYDROCARBON	17.90	1300000	J
11.	UNKNOWN ALIP. HYDROCARBON	19.27	1200000	J
12.	UNKNOWN ALIP. HYDROCARBON	20.54	1200000	J
13.	UNKNOWN ALIP. HYDROCARBON	21.75	1600000	J
14.	UNKNOWN ALIP. HYDROCARBON	24.02	1400000	J
15.	ANTHRACENE, METHYL-	24.57	1300000	JN
16.	ANTHRACENE, METHYL-	24.64	1500000	JN
17.	UNKNOWN ALIP. HYDROCARBON	25.07	1400000	J
18.	PHENANTHRENE, DIMETHYL	25.76	480000	JN
19.	PHENANTHRENE, DIMETHYL	25.86	1200000	JN
20.	PHENANTHRENE, DIMETHYL	26.07	890000	JN
21.	UNKNOWN ALIP. HYDROCARBON	26.09	1100000	J
22.	UNKNOWN ALIP. HYDROCARBON	27.99	870000	J
23. 3665-70-1	BENZENAMINE, 4NITRO-N-NITROS	28.02	1500000	JN
24.	PYRENE, METHYL	28.21	1300000	JN
25.	UNKNOWN	29.29	460000	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS. No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: 53643DDD

Sample wt/vol: 30.3 (g/mL) G Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N Date Received: 03/18/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/21/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/07/94

Injection Volume: 1.00 (uL) Dilution Factor: 1000

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	1700	U
319-85-7	beta-BHC	1700	U
319-86-8	delta-BHC	1700	U
58-89-9	gamma-BHC (Lindane)	170000 ~~8800~~	~~P~~ UX
76-44-8	Heptachlor	1700	U
309-00-2	Aldrin	1700	U
1024-57-3	Heptachlor epoxide	1700	U
959-98-8	Endosulfan I	1700	U
60-57-1	Dieldrin	3300	U
72-55-9	4,4'-DDE	3300	U
72-20-8	Endrin	3300	U
33213-65-9	Endosulfan II	3300	U
50-29-3	4,4'-DDD	330000 ~~97000~~	UX
1031-07-8	Endosulfan sulfate	3300	U
50-29-3	4,4'-DDT	330000 ~~56000~~	~~BP~~ UX
72-43-5	Methoxychlor	17000	U
53494-70-5	Endrin ketone	330000 ~~12000~~	~~P~~ UX
7421-36-3	Endrin aldehyde	3300	U
5103-71-9	alpha-Chlordane	1700	U
5103-74-2	gamma-Chlordane	1700	U
8001-35-2	Toxaphene	170000	U
12674-11-2	Aroclor-1016	33000	U
11104-28-2	Aroclor-1221	66000	U
11141-16-5	Aroclor-1232	33000	U
53469-21-9	Aroclor-1242	2900000	C
12672-29-6	Aroclor-1248	33000	U
11097-69-1	Aroclor-1254	930000	PC
11096-82-5	Aroclor-1260	530000	~~B~~C

UX Unbeats - check cal narrative

05/05/94 EAS

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105DL

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: 3643DDDD

Sample wt/vol: 30.3 (g/mL) G Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N Date Received: 03/18/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/21/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/07/94

Injection Volume: 1.00 (uL) Dilution Factor: 10000

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	17000	U
319-85-7	beta-BHC	17000	U
319-86-8	delta-BHC	17000	U
58-89-9	gamma-BHC (Lindane)	17000	U
76-44-8	Heptachlor	17000	U
309-00-2	Aldrin	17000	U
1024-57-3	Heptachlor epoxide	17000	U
959-98-8	Endosulfan I	17000	U
60-57-1	Dieldrin	33000	U
72-55-9	4,4'-DDE	33000	U
72-20-8	Endrin	33000	U
33213-65-9	Endosulfan II	33000	U
50-29-3	4,4'-DDD	3300000 ~~69000~~	~~D~~ UX
1031-07-8	Endosulfan sulfate	33000	U
50-29-3	4,4'-DDT	3300000 ~~65000~~	~~BPD~~ UX
72-43-5	Methoxychlor	170000	U
53494-70-5	Endrin ketone	3300000 ~~140000~~	~~PD~~ UX
7421-36-3	Endrin aldehyde	33000	U
5103-71-9	alpha-Chlordane	17000	U
5103-74-2	gamma-Chlordane	17000	U
8001-35-2	Toxaphene	1700000	U
12674-11-2	Aroclor-1016	330000	U
11104-28-2	Aroclor-1221	660000	U
11141-16-5	Aroclor-1232	330000	U
53469-21-9	Aroclor-1242	3600000	PDC
12672-29-6	Aroclor-1248	330000	U
11097-69-1	Aroclor-1254	1600000	PDC
11096-82-5	Aroclor-1260	650000	~~B~~PDC

05/05/94
EK

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: SAUGET SITES AREA 2

Lab Code: Case No.: SAS No.: SDG No.: 104

Matrix (Soil): Lab Sample ID: B403627

Level (Low/Med): Date Received: 3/18/94

% Solids: 77.0

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	2430			P	
7440-36-0	Antimony	61.2		N	P	J
7440-38-2	Arsenic	120.2			FM	
7440-39-3	Barium	1010			P	
7440-41-7	Beryllium	0.25	U		P	
7440-43-9	Cadmium	2370			P	
7440-70-2	Calcium	8950			P	
7440-47-3	Chromium	192			P	
7440-48-4	Cobalt	26.3			P	
7440-50-8	Copper	9160			P	
7439-89-6	Iron	42100			P	
7439-92-1	Lead	7180			P	
7439-95-4	Magnesium	1590			P	
7439-96-5	Manganese	1360			P	
7439-97-6	Mercury	1584			AV	
7440-02-2	Nickel	125			P	
7440-09-7	Potassium	766	B		P	
7782-49-2	Selenium	108		S,N	FM	J
7440-22-4	Silver	29.8			P	
7440-23-5	Sodium	427	B		P	
7440-28-0	Thallium	3.4		S	FM	
7440-62-2	Vanadium	58.6			P	
7440-66-6	Zinc	60400			P	
	Cyanide	6.6			AS	
					AS	

Color Before: Black/Green Clarity Before: Opaque Texture: Fine

Color After: Yellow Clarity After: Clear Artifacts: Oily Odor

Comments:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453644

Sample wt/vol: 4.0 (g/mL) G Lab File ID: B0324LC04

Level: (low/med) MED Date Received: 03/18/94

% Moisture: not dec. 32 Date Analyzed: 03/24/94

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

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	1800	U
74-83-9	Bromomethane	1800	U
75-01-4	Vinyl Chloride	1800	U
75-00-3	Chloroethane	1800	U
75-09-2	Methylene Chloride	660	J
67-64-1	Acetone	1800	U
75-15-0	Carbon Disulfide	1800	U
75-35-4	1,1-Dichloroethene	1800	U
75-34-3	1,1-Dichloroethane	1800	U
540-59-0	1,2-Dichloroethene (total)	1800	U
67-66-3	Chloroform	1800	U
107-06-2	1,2-Dichloroethane	1800	U
78-93-3	2-Butanone	1800	UJ
71-55-6	1,1,1-Trichloroethane	1800	U
56-23-5	Carbon Tetrachloride	1800	U
75-27-4	Bromodichloromethane	1800	U
78-87-5	1,2-Dichloropropane	1800	U
10061-01-5	cis-1,3-Dichloropropene	1800	U
79-01-6	Trichloroethene	1800	U
124-48-1	Dibromochloromethane	1800	U
79-00-5	1,1,2-Trichloroethane	1800	U
71-43-2	Benzene	810	J
10061-02-6	trans-1,3-Dichloropropene	1800	U
75-25-2	Bromoform	1800	U
108-10-1	4-Methyl-2-Pentanone	1800	U
591-78-6	2-Hexanone	1800	UJ
127-18-4	Tetrachloroethene	1800	U
79-34-5	1,1,2,2-Tetrachloroethane	1800	U
108-88-3	Toluene	840	J
108-90-7	Chlorobenzene	15000	
100-41-4	Ethylbenzene	1300	J
100-42-5	Styrene	1800	U
1330-20-7	Xylene (total)	4000	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453644

Sample wt/vol: 4.0 (g/mL) G Lab File ID: B0324LC04

Level: (low/med) MED Date Received: 03/18/94

% Moisture: not dec. 32 Date Analyzed: 03/24/94

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

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (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

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453644

Sample wt/vol: 1.3 (g/mL) G Lab File ID: C0328K03

Level: (low/med) MED Date Received: 03/18/94

% Moisture: 32 decanted: (Y/N) N Date Extracted: 03/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/28/94

Injection Volume: 2.0(uL) Dilution Factor: 10.0

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	41000	J
111-44-4	bis(2-Chloroethyl)Ether	110000	U
95-57-8	2-Chlorophenol	24000	J
541-73-1	1,3-Dichlorobenzene	200000	
106-46-7	1,4-Dichlorobenzene	1500000	E
95-50-1	1,2-Dichlorobenzene	1300000	E
95-48-7	2-Methylphenol	110000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	110000	U
106-44-5	4-Methylphenol	110000	U
621-64-7	N-Nitroso-Di-n-Propylamine	110000	U
67-72-1	Hexachloroethane	110000	U
98-95-3	Nitrobenzene	110000	U
78-59-1	Isophorone	110000	U
88-75-5	2-Nitrophenol	120000	
105-67-9	2,4-Dimethylphenol	110000	U
111-91-1	bis(2-Chloroethoxy)Methane	110000	U
120-83-2	2,4-Dichlorophenol	250000	
120-82-1	1,2,4-Trichlorobenzene	55000	J
91-20-3	Naphthalene	33000	J
106-47-8	4-Chloroaniline	110000	UJ
87-68-3	Hexachlorobutadiene	110000	U
59-50-7	4-Chloro-3-Methylphenol	110000	U
91-57-6	2-Methylnaphthalene	110000	U
77-47-4	Hexachlorocyclopentadiene	110000	U
88-06-2	2,4,6-Trichlorophenol	130000	
95-95-4	2,4,5-Trichlorophenol	280000	U
91-58-7	2-Chloronaphthalene	110000	U
88-74-4	2-Nitroaniline	160000	J
131-11-3	Dimethylphthalate	110000	U
208-96-8	Acenaphthylene	110000	U
606-20-2	2,6-Dinitrotoluene	110000	U
99-09-2	3-Nitroaniline	280000	UJ
83-32-9	Acenaphthene	110000	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453644

Sample wt/vol: 1.3 (g/mL) G Lab File ID: C0328K03

Level: (low/med) MED Date Received: 03/18/94

% Moisture: 32 decanted: (Y/N) N Date Extracted: 03/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/28/94

Injection Volume: 2.0(uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	280000	U
100-02-7	4-Nitrophenol	280000	UJ
132-64-9	Dibenzofuran	110000	U
121-14-2	2,4-Dinitrotoluene	110000	U
84-66-2	Diethylphthalate	110000	U
7005-72-3	4-Chlorophenyl-phenylether	110000	U
86-73-7	Fluorene	110000	U
100-10-6	4-Nitroaniline	280000	UJ
534-52-1	4,6-Dinitro-2-methylphenol	280000	U
86-30-6	N-Nitrosodiphenylamine (1)	110000	U
101-55-3	4-Bromophenyl-phenylether	110000	U
118-74-1	Hexachlorobenzene	110000	U
87-86-5	Pentachlorophenol	930000	EJ
85-01-8	Phenanthrene	110000	U
120-12-7	Anthracene	110000	U
86-74-8	Carbazole	110000	U
84-74-2	Di-n-Butylphthalate	110000	U
206-44-0	Fluoranthene	110000	U
129-00-0	Pyrene	110000	U
85-68-7	Butylbenzylphthalate	5000000	E
91-94-1	3,3'-Dichlorobenzidine	110000	UJ
56-55-3	Benzo(a)Anthracene	110000	U
218-01-9	Chrysene	110000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	110000	U
117-84-0	Di-n-Octyl Phthalate	110000	U
205-99-2	Benzo(b)Fluoranthene	110000	U
207-08-9	Benzo(k)Fluoranthene	110000	U
50-32-8	Benzo(a)Pyrene	110000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	110000	U
53-70-3	Dibenz(a,h)Anthracene	110000	UJ
191-24-2	Benzo(g,h,i)Perylene	110000	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453644

Sample wt/vol: 1.3 (g/mL) G Lab File ID: C0328K03

Level: (low/med) MED Date Received: 03/18/94

% Moisture: 32 decanted: (Y/N) N Date Extracted: 03/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/28/94

Injection Volume: 2.0(uL) Dilution Factor: 10.0

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. 108-41-8	BENZENE,1CHLORO-3METHYL	10.55	350000	JN
2.	C4-SUBSTITUTED BENZENE	11.99	300000	J
3. 1743-61-9	~~CYCLOHEXENE,4ETHENYL-1,4DIME~~ unk	12.09	300000	~~JN~~ J
4. 95-66-9	BENZENE,1CHLORO-2,4DIMETHYL	12.69	120000	JN
5.	BENZENE,CHLORONITRO	15.59	270000	JN
6.	BENZENE,CHLORONITRO	15.75	2200000	JN
7.	BENZENE,CHLORONITRO	15.90	2300000	JN
8. 3209-22-1	~~BENZENE,1,2DICHLORO-3NITRO~~ unk	18.04	1200000	~~JN~~ J
9. 89-61-2	~~BENZENE,1,4DICHLORO-2NITRO~~ unk	18.20	140000	~~JN~~ J
10. 4901-51-3	PHENOL, 2,3,4,5-TETRACHLORO	20.35	110000	JN
11.	UNKNOWN	21.77	86000	J
12.	UNKNOWN	22.85	78000	J
13.	UNKNOWN	24.37	180000	J
14. 119-75-5	BENZENAMINE, 2NITRO-N-PHENYL	25.24	660000	JN
15.	UNKNOWN	25.47	110000	J
16.	UNKNOWN	26.02	99000	J
17.	UNKNOWN	26.36	160000	J
18.	UNKNOWN	26.72	74000	J
19.	UNKNOWN	26.84	270000	J
20. 3665-70-1	~~BENZENAMINE,4NITRO-N-NITROSO~~ unk	28.07	4700000	~~JN~~ J
21.	UNKNOWN	28.34	220000	J
22.	UNKNOWN AROMATIC HYDROCARBON	28.96	130000	J
23. 115-86-6	TRIPHENYLESTERPHOSPHORICACID	29.34	3600000	JN
24.	UNKNOWN	29.44	130000	J
25.	UNKNOWN	30.02	90000	J
26.	UNKNOWN	31.07	64000	J
27.	UNKNOWN	31.12	300000	J
28.	UNKNOWN	31.24	150000	J
29.	UNKNOWN	32.61	440000	J
30. 523-31-9	DIBENZYL PHTHALATE	33.06	910000	JN

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106DL

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453644

Sample wt/vol: 1.3 (g/mL) G Lab File ID: C0328K07

Level: (low/med) MED Date Received: 03/18/94

% Moisture: 32 decanted: (Y/N) N Date Extracted: 03/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/28/94

Injection Volume: 2.0(uL) Dilution Factor: 200.0

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	2300000	U
111-44-4	bis(2-Chloroethyl)Ether	2300000	U
95-57-8	2-Chlorophenol	2300000	U
541-73-1	1,3-Dichlorobenzene	2300000	U
106-46-7	1,4-Dichlorobenzene	1700000	J
95-50-1	1,2-Dichlorobenzene	1300000	J
95-48-7	2-Methylphenol	2300000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	2300000	U
106-44-5	4-Methylphenol	2300000	U
621-64-7	N-Nitroso-Di-n-Propylamine	2300000	U
67-72-1	Hexachloroethane	2300000	U
98-95-3	Nitrobenzene	2300000	U
78-59-1	Isophorone	2300000	U
88-75-5	2-Nitrophenol	2300000	U
105-67-9	2,4-Dimethylphenol	2300000	U
111-91-1	bis(2-Chloroethoxy)Methane	2300000	U
120-83-2	2,4-Dichlorophenol	2300000	U
120-82-1	1,2,4-Trichlorobenzene	2300000	U
91-20-3	Naphthalene	2300000	U
106-47-8	4-Chloroaniline	2300000	UJ
87-68-3	Hexachlorobutadiene	2300000	U
59-50-7	4-Chloro-3-Methylphenol	2300000	U
91-57-6	2-Methylnaphthalene	2300000	U
77-47-4	Hexachlorocyclopentadiene	2300000	U
88-06-2	2,4,6-Trichlorophenol	2300000	U
95-95-4	2,4,5-Trichlorophenol	5700000	U
91-58-7	2-Chloronaphthalene	2300000	U
88-74-4	2-Nitroaniline	5700000	U
131-11-3	Dimethylphthalate	2300000	U
208-96-8	Acenaphthylene	2300000	U
606-20-2	2,6-Dinitrotoluene	2300000	U
99-09-2	3-Nitroaniline	5700000	UJ
83-32-9	Acenaphthene	2300000	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106DL

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453644

Sample wt/vol: 1.3 (g/mL) G Lab File ID: C0328K07

Level: (low/med) MED Date Received: 03/18/94

% Moisture: 32 decanted: (Y/N) N Date Extracted: 03/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/28/94

Injection Volume: 2.0(uL) Dilution Factor: 200.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	5700000	U
100-02-7	4-Nitrophenol	5700000	UJ
132-64-9	Dibenzofuran	2300000	U
121-14-2	2,4-Dinitrotoluene	2300000	U
84-66-2	Diethylphthalate	2300000	U
7005-72-3	4-Chlorophenyl-phenylether	2300000	U
86-73-7	Fluorene	2300000	U
100-10-6	4-Nitroaniline	5700000	UJ
534-52-1	4,6-Dinitro-2-methylphenol	5700000	U
86-30-6	N-Nitrosodiphenylamine (1)	2300000	U
101-55-3	4-Bromophenyl-phenylether	2300000	U
118-74-1	Hexachlorobenzene	2300000	UJ
87-86-5	Pentachlorophenol	340000	J
85-01-8	Phenanthrene	2300000	U
120-12-7	Anthracene	2300000	U
86-74-8	Carbazole	2300000	U
84-74-2	Di-n-Butylphthalate	2300000	U
206-44-0	Fluoranthene	2300000	U
129-00-0	Pyrene	2300000	U
85-68-7	Butylbenzylphthalate	12000000	
91-94-1	3,3'-Dichlorobenzidine	2300000	UJ
56-55-3	Benzo(a)Anthracene	2300000	U
218-01-9	Chrysene	2300000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	2300000	U
117-84-0	Di-n-Octyl Phthalate	2300000	U
205-99-2	Benzo(b)Fluoranthene	2300000	U
207-08-9	Benzo(k)Fluoranthene	2300000	U
50-32-8	Benzo(a)Pyrene	2300000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	2300000	U
53-70-3	Dibenz(a,h)Anthracene	2300000	UJ
191-24-2	Benzo(g,h,i)Perylene	2300000	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X106DL

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453644

Sample wt/vol: 1.3 (g/mL) G Lab File ID: C0328K07

Level: (low/med) MED Date Received: 03/18/94

% Moisture: 32 decanted: (Y/N) N Date Extracted: 03/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/28/94

Injection Volume: 2.0(uL) Dilution Factor: 200.0

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

Number TICs found: 4

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	BENZENE,CHLORONITRO	15.77	1400000	JN
2.	BENZENE,CHLORONITRO	15.89	2700000	JN
3. 836-30-6	BENZENAMINE,4NITRO-N-PHENYL	28.06	2900000	JN
4. 115-86-6	TRIPHENYLESTERPHOSPHORICACID	29.32	5400000	JN

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: 453644DD

Sample wt/vol: 30.3 (g/mL) G Lab File ID: _____

% Moisture: 32 decanted: (Y/N) N Date Received: 03/18/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/21/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/05/94

Injection Volume: 1.00 (uL) Dilution Factor: 100

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	250	U
319-85-7	beta-BHC	25000 ~~4400~~	~~P~~ UX
319-86-8	delta-BHC	250	U
58-89-9	gamma-BHC (Lindane)	25000 ~~2300~~	~~P~~ UX
76-44-8	Heptachlor	250	U
309-00-2	Aldrin	250	U
1024-57-3	Heptachlor epoxide	250	U
959-98-8	Endosulfan I	250	U
60-57-1	Dieldrin	480	U
72-55-9	4,4'-DDE	480	U
72-20-8	Endrin	480	U
33213-65-9	Endosulfan II	480	U
50-29-3	4,4'-DDD	480	U
1031-07-8	Endosulfan sulfate	480	U
50-29-3	4,4'-DDT	48000 ~~19000~~	~~BP~~ UX
72-43-5	Methoxychlor	2500	U
53494-70-5	Endrin ketone	48000 ~~1300~~	UX
7421-36-3	Endrin aldehyde	480	U
5103-71-9	alpha-Chlordane	250	U
5103-74-2	gamma-Chlordane	25000 ~~1300~~	UX
8001-35-2	Toxaphene	25000	U
12674-11-2	Aroclor-1016	4800	U
11104-28-2	Aroclor-1221	9800	U
11141-16-5	Aroclor-1232	4800	U
53469-21-9	Aroclor-1242	170000	C
12672-29-6	Aroclor-1248	4800	U
11097-69-1	Aroclor-1254	100000	C
11096-82-5	Aroclor-1260	95000	~~B~~C

05/05/94 gjs

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106DL

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS.No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: 53644DDD

Sample wt/vol: 30.3 (g/mL) G Lab File ID: _____

% Moisture: 32 decanted: (Y/N) N Date Received: 03/18/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/21/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/12/94

Injection Volume: 1.00 (uL) Dilution Factor: 1000

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2500	U
319-85-7	beta-BHC	2500	U
319-86-8	delta-BHC	2500	U
58-89-9	gamma-BHC (Lindane)	2500	U
76-44-8	Heptachlor	2500	U
309-00-2	Aldrin	2500	U
1024-57-3	Heptachlor epoxide	2500	U
959-98-8	Endosulfan I	2500	U
60-57-1	Dieldrin	4800	U
72-55-9	4,4'-DDE	4800	U
72-20-8	Endrin	4800	U
33213-65-9	Endosulfan II	4800	U
50-29-3	4,4'-DDD	4800	U
1031-07-8	Endosulfan sulfate	4800	U
50-29-3	4,4'-DDT	480000 ~~16000~~	~~BPD~~ UX
72-43-5	Methoxychlor	25000	U
53494-70-5	Endrin ketone	4800	U
7421-36-3	Endrin aldehyde	4800	U
5103-71-9	alpha-Chlordane	2500	U
5103-74-2	gamma-Chlordane	2000	DJ
8001-35-2	Toxaphene	250000	U
12674-11-2	Aroclor-1016	48000	U
11104-28-2	Aroclor-1221	98000	U
11141-16-5	Aroclor-1232	48000	U
53469-21-9	Aroclor-1242	140000	DC
12672-29-6	Aroclor-1248	48000	U
11097-69-1	Aroclor-1254	73000	DC
11096-82-5	Aroclor-1260	180000	~~BPC~~

05/05/94
SB

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: SAUGET SITES AREA 2

Lab Code: Case No.: SAS No.: SDG No.: 104

Matrix (Soil): Lab Sample ID: B403628

Level (Low/Med): Date Received: 3/18/94

% Solids: 75.9

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	8470			P	
7440-36-0	Antimony	13.2	U	N	P	J
7440-38-2	Arsenic	10.9		S	FM	
7440-39-3	Barium	360			P	
7440-41-7	Beryllium	0.51	B		P	
7440-43-9	Cadmium	11.9			P	
7440-70-2	Calcium	11800			P	
7440-47-3	Chromium	34.6			P	
7440-48-4	Cobalt	5.6	B		P	
7440-50-8	Copper	332			P	
7439-89-6	Iron	14400			P	
7439-92-1	Lead	99.4			P	
7439-95-4	Magnesium	5530			P	
7439-96-5	Manganese	259			P	
7439-97-6	Mercury	14.4			AV	
7440-02-2	Nickel	81.7			P	
7440-09-7	Potassium	925.9 ~~310~~	~~U~~ CB		P	
7782-49-2	Selenium	2.3		S,N	FM	J
7440-22-4	Silver	1.7	B		P	
7440-23-5	Sodium	184	B		P	
7440-28-0	Thallium	0.26	U		FM	
7440-62-2	Vanadium	25.3			P	
7440-66-6	Zinc	934			P	
	Cyanide	1.1	U		AS	
					AS	

Color Before: Gray Clarity Before: Opaque Texture: Fine

Color After: Orange Clarity After: Clear Artifacts:

Comments:

FORM I - IN

SOIL

ILM03.0

B000009

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453645

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0318LC04

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: not dec. 44 Date Analyzed: 03/18/94

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X107

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453645

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0318LC04

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: not dec. 44 Date Analyzed: 03/18/94

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

EPA SAMPLE NO.

X107

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453645

Sample wt/vol: 30.6 (g/mL) G Lab File ID: C0328K12

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: 44 decanted: (Y/N) N Date Extracted: 03/23/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/28/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

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	UJ
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	UJ
83-32-9	Acenaphthene	580	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453645

Sample wt/vol: 30.6 (g/mL) G Lab File ID: C0328K12

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: 44 decanted: (Y/N) N Date Extracted: 03/23/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/28/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

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	UJ
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
100-10-6	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	UJ
85-01-8	Phenanthrene	580	U
120-12-7	Anthracene	580	U
86-74-8	Carbazole	580	U
84-74-2	Di-n-Butylphthalate	910	~~B~~U
206-44-0	Fluoranthene	440	J
129-00-0	Pyrene	560	J
85-68-7	Butylbenzylphthalate	580	U
91-94-1	3,3'-Dichlorobenzidine	580	UJ
56-55-3	Benzo(a)Anthracene	410	J
218-01-9	Chrysene	290	J
117-81-7	bis(2-Ethylhexyl)Phthalate	580	U
117-84-0	Di-n-Octyl Phthalate	580	U
205-99-2	Benzo(b)Fluoranthene	410	J
207-08-9	Benzo(k)Fluoranthene	580	U
50-32-8	Benzo(a)Pyrene	580	U
193-39-5	Indeno(1,2,3-cd)Pyrene	580	U
53-70-3	Dibenz(a,h)Anthracene	580	UJ
191-24-2	Benzo(g,h,i)Perylene	580	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X107

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453645

Sample wt/vol: 30.6 (g/mL) G Lab File ID: C0328K12

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: 44 decanted: (Y/N) N Date Extracted: 03/23/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/28/94

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.	UNKNOWN	7.48	2300	BJ
2. 123-42-2	2PENTANONE,4HYDROXY-4METHYL	8.25	44000	JNBA
3.	UNKNOWN	9.72	1300	BJ
4.	UNKNOWN	11.22	1300	J
5.	UNKNOWN	24.60	550	J
6.	UNKNOWN ALIP. ACID	24.69	570	J
7.	UNKNOWN PCB	25.94	720	J
8.	UNKNOWN PCB	26.37	520	J
9.	UNKNOWN PCB	26.82	1100	J
10.	UNKNOWN PCB	27.62	1100	J
11.	UNKNOWN PCB	28.11	1100	J
12.	UNKNOWN PCB	28.14	1400	J
13.	UNKNOWN PCB	28.57	1100	J
14.	UNKNOWN PCB	28.69	380	J
15.	UNKNOWN ALIP. ACID ESTER	28.96	640	BJ
16.	UNKNOWN PCB	29.16	1500	J
17.	UNKNOWN PCB	29.49	390	J
18.	UNKNOWN ALIP. HYDROCARBON	29.77	1400	J
19.	UNKNOWN	29.82	720	J
20.	UNKNOWN PCB	30.52	640	J
21.	UNKNOWN ALIP. HYDROCARBON	31.67	1200	J
22.	UNKNOWN	33.44	710	J
23.	UNKNOWN ALIP. HYDROCARBON	34.24	5400	J
24.	UNKNOWN	34.36	1700	J
25.	UNKNOWN	34.44	1500	J
26.	UNKNOWN	35.41	960	J
27.	UNKNOWN PNA	35.42	640	J
28.	UNKNOWN ALIP. HYDROCARBON	37.94	5700	J
29.	UNKNOWN	40.02	4000	J
30.	UNKNOWN	44.04	2000	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453645

Sample wt/vol: 30.4 (g/mL) G Lab File ID: _____

% Moisture: 44 decanted: (Y/N) N Date Received: 03/18/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/21/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/05/94

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	3.0	U
319-85-7	beta-BHC	3.0	U
319-86-8	delta-BHC	4.5	~~BP~~
58-89-9	gamma-BHC (Lindane)	3.0	U
76-44-8	Heptachlor	3.0	U
309-00-2	Aldrin	3.0	U
1024-57-3	Heptachlor epoxide	3.0	U
959-98-8	Endosulfan I	3.0	U
60-57-1	Dieldrin	5.8	U
72-55-9	4,4'-DDE	5.8	U
72-20-8	Endrin	5.8	U
33213-65-9	Endosulfan II	5.8	U
50-29-3	4,4'-DDD	27	P
1031-07-8	Endosulfan sulfate	5.8	U
50-29-3	4,4'-DDT	27	~~BP~~
72-43-5	Methoxychlor	30	U
53494-70-5	Endrin ketone	49	P
7421-36-3	Endrin aldehyde	5.8	U
5103-71-9	alpha-Chlordane	3.0	U
5103-74-2	gamma-Chlordane	44	P
8001-35-2	Toxaphene	300	U
12674-11-2	Aroclor-1016	58	U
11104-28-2	Aroclor-1221	120	U
11141-16-5	Aroclor-1232	58	U
53469-21-9	Aroclor-1242	1300	P
12672-29-6	Aroclor-1248	58	U
11097-69-1	Aroclor-1254	6200	C
11096-82-5	Aroclor-1260	7700 ~~7600~~	~~B~~C

MCN 4/25/94

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107DL

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453645D

Sample wt/vol: 30.4 (g/mL) G Lab File ID: _____

% Moisture: 44 decanted: (Y/N) N Date Received: 03/18/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/21/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/12/94

Injection Volume: 1.00 (uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	30	U
319-85-7	beta-BHC	30	U
319-86-8	delta-BHC	5.4	~~B~~JPD
58-89-9	gamma-BHC (Lindane)	30	U
76-44-8	Heptachlor	30	U
309-00-2	Aldrin	30	U
1024-57-3	Heptachlor epoxide	30	U
959-98-8	Endosulfan I	30	U
60-57-1	Dieldrin	58	U
72-55-9	4,4'-DDE	58	U
72-20-8	Endrin	58	U
33213-65-9	Endosulfan II	58	U
50-29-3	4,4'-DDD	45	JPD
1031-07-8	Endosulfan sulfate	58	U
50-29-3	4,4'-DDT	13	~~B~~JPD
72-43-5	Methoxychlor	300	U
53494-70-5	Endrin ketone	37	JPD
7421-36-3	Endrin aldehyde	58	U
5103-71-9	alpha-Chlordane	30	U
5103-74-2	gamma-Chlordane	42	PD
8001-35-2	Toxaphene	3000	U
12674-11-2	Aroclor-1016	580	U
11104-28-2	Aroclor-1221	1200	U
11141-16-5	Aroclor-1232	580	U
53469-21-9	Aroclor-1242	1900	D
12672-29-6	Aroclor-1248	580	U
11097-69-1	Aroclor-1254	8200	DC
11096-82-5	Aroclor-1260	8300	~~B~~DC

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: SAUGET SITES AREA 2

Lab Code: Case No.: SAS No.: SDG No.: -104-

Matrix (Soil): Lab Sample ID: B403629

Level (Low/Med): Date Received: 3/18/94

% Solids: -58.9-

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	22000			P	
7440-36-0	Antimony	17.1	U	N	P	J
7440-38-2	Arsenic	5.12			FM	
7440-39-3	Barium	196			P	
7440-41-7	Beryllium	1.1	U		P	
7440-43-9	Cadmium	3.8			P	
7440-70-2	Calcium	10100			P	
7440-47-3	Chromium	31.2			P	
7440-48-4	Cobalt	9.6	B		P	
7440-50-8	Copper	46.3			P	
7439-89-6	Iron	24400			P	
7439-92-1	Lead	72.4			FM	
7439-95-4	Magnesium	6350			P	
7439-96-5	Manganese	287			P	
7439-97-6	Mercury	0.13	B		AV	
7440-02-2	Nickel	32.8	U		P	
7440-09-7	Potassium	2840			P	
7782-49-2	Selenium	0.39	B	W,N	FM	J
7440-22-4	Silver	1.3	U		P	
7440-23-5	Sodium	183	B		P	
7440-28-0	Thallium	0.33	U		FM	
7440-62-2	Vanadium	50.8			P	
7440-66-6	Zinc	321			P	
	Cyanide	1.4	U		AS	
					AS	

Color Before: -Gray- Clarity Before: -Opaque- Texture: -Fine-

Color After: -Colorless- Clarity After: -Clear- Artifacts:

Comments:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X108

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453646

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0318LC05

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: not dec. 32 Date Analyzed: 03/18/94

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	UJ
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	UJ
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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X108

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453646

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0318LC05

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: not dec. 32 Date Analyzed: 03/18/94

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

EPA SAMPLE NO.

X108

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453646

Sample wt/vol: 30.3 (g/mL) G Lab File ID: B0404K07

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: 32 decanted: (Y/N) N Date Extracted: 03/23/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/04/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	480	U
111-44-4	bis(2-Chloroethyl)Ether	480	U
95-57-8	2-Chlorophenol	480	U
541-73-1	1,3-Dichlorobenzene	480	U
106-46-7	1,4-Dichlorobenzene	480	U
95-50-1	1,2-Dichlorobenzene	480	U
95-48-7	2-Methylphenol	480	U
108-60-1	2,2'-oxybis(1-Chloropropane)	480	U
106-44-5	4-Methylphenol	480	U
621-64-7	N-Nitroso-Di-n-Propylamine	480	U
67-72-1	Hexachloroethane	480	U
98-95-3	Nitrobenzene	480	U
78-59-1	Isophorone	340	J
88-75-5	2-Nitrophenol	480	U
105-67-9	2,4-Dimethylphenol	480	U
111-91-1	bis(2-Chloroethoxy)Methane	480	U
120-83-2	2,4-Dichlorophenol	480	U
120-82-1	1,2,4-Trichlorobenzene	480	U
91-20-3	Naphthalene	120	J
106-47-8	4-Chloroaniline	480	UJ
87-68-3	Hexachlorobutadiene	480	U
59-50-7	4-Chloro-3-Methylphenol	480	U
91-57-6	2-Methylnaphthalene	480	U
77-47-4	Hexachlorocyclopentadiene	480	U
88-06-2	2,4,6-Trichlorophenol	480	U
95-95-4	2,4,5-Trichlorophenol	1200	U
91-58-7	2-Chloronaphthalene	480	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	480	U
208-96-8	Acenaphthylene	480	U
606-20-2	2,6-Dinitrotoluene	480	U
99-09-2	3-Nitroaniline	1200	UJ
83-32-9	Acenaphthene	480	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X108

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453646

Sample wt/vol: 30.3 (g/mL) G Lab File ID: B0404K07

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: 32 decanted: (Y/N) N Date Extracted: 03/23/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/04/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200	U
100-02-7	4-Nitrophenol	1200	U
132-64-9	Dibenzofuran	480	U
121-14-2	2,4-Dinitrotoluene	480	U
84-66-2	Diethylphthalate	480	U
7005-72-3	4-Chlorophenyl-phenylether	480	U
86-73-7	Fluorene	480	U
100-10-6	4-Nitroaniline	1200	UJ
534-52-1	4,6-Dinitro-2-methylphenol	1200	U
86-30-6	N-Nitrosodiphenylamine (1)	480	U
101-55-3	4-Bromophenyl-phenylether	480	U
118-74-1	Hexachlorobenzene	480	U
87-86-5	Pentachlorophenol	160	J
85-01-8	Phenanthrene	480	U
120-12-7	Anthracene	480	U
86-74-8	Carbazole	480	U
84-74-2	Di-n-Butylphthalate	1200	~~B~~ U
206-44-0	Fluoranthene	110	J
129-00-0	Pyrene	100	J
85-68-7	Butylbenzylphthalate	480	U
91-94-1	3,3'-Dichlorobenzidine	480	U
56-55-3	Benzo(a)Anthracene	98	J
218-01-9	Chrysene	480	U
117-81-7	bis(2-Ethylhexyl)Phthalate	2000	
117-84-0	Di-n-Octyl Phthalate	480	U
205-99-2	Benzo(b)Fluoranthene	480	U
207-08-9	Benzo(k)Fluoranthene	480	U
50-32-8	Benzo(a)Pyrene	480	U
193-39-5	Indeno(1,2,3-cd)Pyrene	480	U
53-70-3	Dibenz(a,h)Anthracene	480	U
191-24-2	Benzo(g,h,i)Perylene	480	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X108

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453646

Sample wt/vol: 30.3 (g/mL) G Lab File ID: B0404K07

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: 32 decanted: (Y/N) N Date Extracted: 03/23/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/04/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. ACID	27.97	1400	J
2.	UNKNOWN PCB	28.32	2000	J
3.	UNKNOWN PCB	29.91	1700	J
4.	UNKNOWN PCB	30.41	2800	J
5.	UNKNOWN PCB	31.07	1200	J
6.	UNKNOWN PCB	31.31	2000	J
7.	UNKNOWN PCB	31.84	1800	J
8.	UNKNOWN PCB	31.89	2100	J
9.	UNKNOWN PCB	32.36	1400	J
10.	UNKNOWN PCB	32.51	900	J
11.	UNKNOWN PCB	32.67	300	J
12.	UNKNOWN ALIP. ACID ESTER	32.76	770	BJ
13.	UNKNOWN PCB	33.02	2100	J
14.	UNKNOWN PCB	33.39	440	J
15.	UNKNOWN	33.69	460	J
16.	UNKNOWN	33.74	1100	J
17.	UNKNOWN PCB	33.96	350	J
18.	UNKNOWN PCB	34.59	820	J
19.	UNKNOWN	35.31	480	J
20.	UNKNOWN	35.44	410	J
21.	UNKNOWN	35.84	1000	J
22.	UNKNOWN ALIP. HYDROCARBON	35.92	1400	J
23.	UNKNOWN	35.94	680	J
24.	UNKNOWN	36.09	460	J
25.	UNKNOWN	36.24	1700	J
26.	UNKNOWN	36.67	1200	J
27.	UNKNOWN	36.79	390	J
28.	UNKNOWN	36.87	490	J
29.	UNKNOWN	37.34	630	J
30.	UNKNOWN ALIP. HYDROCARBON	38.96	12000	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X108

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453646D

Sample wt/vol: 30.2 (g/mL) G Lab File ID: _____

% Moisture: 32 decanted: (Y/N) N Date Received: 03/18/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/21/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/05/94

Injection Volume: 1.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.3 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		13	~~B~~JP
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		25	U
959-98-8	Endosulfan I		25	U
60-57-1	Dieldrin		380	P
72-55-9	4,4'-DDE		48	U
72-20-8	Endrin		48	U
33213-65-9	Endosulfan II		48	U
50-29-3	4,4'-DDD		69	P
1031-07-8	Endosulfan sulfate		62	P
50-29-3	4,4'-DDT		82	~~B~~P
72-43-5	Methoxychlor		250	U
53494-70-5	Endrin ketone		120	P
7421-36-3	Endrin aldehyde		48	U
5103-71-9	alpha-Chlordane	4800	~~600~~	~~B~~ ux
5103-74-2	gamma-Chlordane		140	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		480	U
11096-82-5	Aroclor-1260		17000	~~B~~C

04/28/94

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X108DL

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: 453646DD

Sample wt/vol: 30.2 (g/mL) G Lab File ID: _____

% Moisture: 32 decanted: (Y/N) N Date Received: 03/18/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/21/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/05/94

Injection Volume: 1.00 (uL) Dilution Factor: 100

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
319-84-6	alpha-BHC		250	U
319-85-7	beta-BHC		250	U
319-86-8	delta-BHC		250	U
58-89-9	gamma-BHC (Lindane)		250	U
76-44-8	Heptachlor		250	U
309-00-2	Aldrin		250	U
1024-57-3	Heptachlor epoxide		250	U
959-98-8	Endosulfan I		250	U
60-57-1	Dieldrin		410	JPD
72-55-9	4,4'-DDE		480	U
72-20-8	Endrin		480	U
33213-65-9	Endosulfan II		480	U
50-29-3	4,4'-DDD		43	JPD
1031-07-8	Endosulfan sulfate		30	JPD
50-29-3	4,4'-DDT		480	U
72-43-5	Methoxychlor		2500	U
53494-70-5	Endrin ketone		70	JPD
7421-36-3	Endrin aldehyde		480	U
5103-71-9	alpha-Chlordane	25000	~~710~~	~~BD~~ uX
5103-74-2	gamma-Chlordane		140	JP
8001-35-2	Toxaphene		25000	U
12674-11-2	Aroclor-1016		4800	U
11104-28-2	Aroclor-1221		9800	U
11141-16-5	Aroclor-1232		4800	U
53469-21-9	Aroclor-1242		4800	U
12672-29-6	Aroclor-1248		4800	U
11097-69-1	Aroclor-1254		4800	U
11096-82-5	Aroclor-1260		19000	~~B~~DC

04/28/94 SKS

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X108

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: SAUGET SITES AREA 2

Lab Code: Case No.: SAS No.: SDG No.: 104

Matrix (Soil): Lab Sample ID: B403630

Level (Low/Med): Date Received: 3/18/94

% Solids: 70.5

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	15100			P	
7440-36-0	Antimony	12.4	U	N	P	J
7440-38-2	Arsenic	4.74			FM	
7440-39-3	Barium	283			P	
7440-41-7	Beryllium	0.82	B		P	
7440-43-9	Cadmium	13.1			P	
7440-70-2	Calcium	7890			P	
7440-47-3	Chromium	93.7			P	
7440-48-4	Cobalt	8.7	B		P	
7440-50-8	Copper	62.7			P	
7439-89-6	Iron	21200			P	
7439-92-1	Lead	218			P	
7439-95-4	Magnesium	4800			P	
7439-96-5	Manganese	253			P	
7439-97-6	Mercury	0.11	B		AV	
7440-02-2	Nickel	33.9			P	
7440-09-7	Potassium	2220			P	
7782-49-2	Selenium	1.4		S,N	FM	J
7440-22-4	Silver	1.4	B		P	
7440-23-5	Sodium	158	B		P	
7440-28-0	Thallium	0.27	U		FM	
7440-62-2	Vanadium	34.4			P	
7440-66-6	Zinc	609			P	
	Cyanide	1.2	U		AS	
					AS	

Color Before: Gray Clarity Before: Opaque Texture: Fine

Color After: Colorless Clarity After: Clear Artifacts:

Comments:

FORM I - IN

SOIL

ILM03.0

B000011

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453647

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0318LC12

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: not dec. 23 Date Analyzed: 03/18/94

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	UJ
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	4	J
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	UJ
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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X109

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453647

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0318LC12

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: not dec. 23 Date Analyzed: 03/18/94

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

EPA SAMPLE NO.

X109

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453647

Sample wt/vol: 30.5 (g/mL) G Lab File ID: C0328K11

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: 23 decanted: (Y/N) N Date Extracted: 03/23/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/28/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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	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	UJ
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	UJ
83-32-9	Acenaphthene	420	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453647

Sample wt/vol: 30.5 (g/mL) G Lab File ID: C0328K11

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: 23 decanted: (Y/N) N Date Extracted: 03/23/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/28/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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	1000	U
100-02-7	4-Nitrophenol	1000	UJ
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
100-10-6	4-Nitroaniline	1000	UJ
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	UJ
85-01-8	Phenanthrene	420	U
120-12-7	Anthracene	420	U
86-74-8	Carbazole	420	U
84-74-2	Di-n-Butylphthalate	820	~~B~~ U
206-44-0	Fluoranthene	420	U
129-00-0	Pyrene	420	U
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	UJ
56-55-3	Benzo(a)Anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	bis(2-Ethylhexyl)Phthalate	420	U
117-84-0	Di-n-Octyl Phthalate	420	U
205-99-2	Benzo(b)Fluoranthene	420	U
207-08-9	Benzo(k)Fluoranthene	420	U
50-32-8	Benzo(a)Pyrene	420	U
193-39-5	Indeno(1,2,3-cd)Pyrene	420	U
53-70-3	Dibenz(a,h)Anthracene	420	UJ
191-24-2	Benzo(g,h,i)Perylene	420	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X109

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453647

Sample wt/vol: 30.5 (g/mL) G Lab File ID: C0328K11

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: 23 decanted: (Y/N) N Date Extracted: 03/23/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/28/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 12

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.48	1800	BJ
2.	UNKNOWN ALIP. HYDROCARBON	7.95	300	BJ
3. 123-42-2	2PENTANONE,4HYDROXY-4METHYL	8.25	38000	JNBA
4.	UNKNOWN	8.50	530	BJ
5.	UNKNOWN	9.72	990	J
6.	UNKNOWN ALIP. KETONE	10.35	400	BAJ
7.	UNKNOWN	11.24	1100	J
8.	UNKNOWN	12.39	870	J
9.	UNKNOWN ALIP. HYDROCARBON	19.27	190	BJ
10.	UNKNOWN ALIP. ACID	24.67	220	J
11.	UNKNOWN	27.27	95	BJ
12.	UNKNOWN ALIP. ACID ESTER	28.96	400	BJ

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109RE

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453647

Sample wt/vol: 30.4 (g/mL) G Lab File ID: _____

% Moisture: 23 decanted: (Y/N) N Date Received: 03/18/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/05/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/12/94

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

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	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	10	P
72-55-9	4,4'-DDE	4.2	U
72-20-8	Endrin	47	~~BP~~
33213-65-9	Endosulfan II	4.2	U
50-29-3	4,4'-DDD	2.6 ~~2.5~~	JP
1031-07-8	Endosulfan sulfate	1.5	JP
50-29-3	4,4'-DDT	2.4	JP
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.6	P
7421-36-3	Endrin aldehyde	4.2	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.7	P
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	42	U
11104-28-2	Aroclor-1221	86	U
11141-16-5	Aroclor-1232	42	U
53469-21-9	Aroclor-1242	110	
12672-29-6	Aroclor-1248	42	U
11097-69-1	Aroclor-1254	570 ~~580~~	
11096-82-5	Aroclor-1260	450 ~~460~~	~~B~~

MCN Alaska

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: SAUGET SITES AREA 2

Lab Code: Case No.: SAS No.: SDG No.: 104

Matrix (Soil): Lab Sample ID: B403631

Level (Low/Med): Date Received: 3/18/94

% Solids: 74.4

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	5110			P	
7440-36-0	Antimony	13.2	U	N	P	J
7440-38-2	Arsenic	2.5	B		FM	
7440-39-3	Barium	72.8			P	
7440-41-7	Beryllium	0.30	B		P	
7440-43-9	Cadmium	0.77	U		P	
7440-70-2	Calcium	4170			P	
7440-47-3	Chromium	7.9			P	
7440-48-4	Cobalt	3.2	B		P	
7440-50-8	Copper	5.9	B		P	
7439-89-6	Iron	8650			P	
7439-92-1	Lead	12.1			FM	
7439-95-4	Magnesium	2890			P	
7439-96-5	Manganese	94.7			P	
7439-97-6	Mercury	0.03	U		AV	
7440-02-2	Nickel	13.7	U		P	
7440-09-7	Potassium	855	B		P	
7782-49-2	Selenium	0.26	U	W,N	FM	R
7440-22-4	Silver	1.0	U		P	
7440-23-5	Sodium	99.5	B		P	
7440-28-0	Thallium	0.26	U		FM	
7440-62-2	Vanadium	15.5			P	
7440-66-6	Zinc	57.8			P	
	Cyanide	1.1	U		AS	
					AS	

Color Before: Brown Clarity Before: Opaque Texture: Medium

Color After: Colorless Clarity After: Clear Artifacts:

Comments:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X110

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453648

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0318LC16

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: not dec. 25 Date Analyzed: 03/18/94

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	UJ
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	8	J
67-64-1	Acetone	110	
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	200	
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
75-27-4	Bromodichloromethane	13	UJ
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	4	J
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	3	J
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
1330-20-7	Xylene (total)	3	J

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X110

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453648

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0318LC16

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: not dec. 25 Date Analyzed: 03/18/94

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

EPA SAMPLE NO.

X110

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453648

Sample wt/vol: 1.1 (g/mL) G Lab File ID: B0404K05

Level: (low/med) MED Date Received: 03/18/94

% Moisture: 25 decanted: (Y/N) N Date Extracted: 03/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/04/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	12000	U
111-44-4	bis(2-Chloroethyl)Ether	12000	U
95-57-8	2-Chlorophenol	12000	U
541-73-1	1,3-Dichlorobenzene	12000	U
106-46-7	1,4-Dichlorobenzene	12000	U
95-50-1	1,2-Dichlorobenzene	12000	U
95-48-7	2-Methylphenol	12000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	12000	U
106-44-5	4-Methylphenol	12000	U
621-64-7	N-Nitroso-Di-n-Propylamine	12000	U
67-72-1	Hexachloroethane	12000	U
98-95-3	Nitrobenzene	12000	U
78-59-1	Isophorone	12000	U
88-75-5	2-Nitrophenol	12000	U
105-67-9	2,4-Dimethylphenol	12000	U
111-91-1	bis(2-Chloroethoxy)Methane	12000	U
120-83-2	2,4-Dichlorophenol	12000	U
120-82-1	1,2,4-Trichlorobenzene	12000	U
91-20-3	Naphthalene	12000	U
106-47-8	4-Chloroaniline	12000	UJ
87-68-3	Hexachlorobutadiene	12000	U
59-50-7	4-Chloro-3-Methylphenol	12000	U
91-57-6	2-Methylnaphthalene	12000	U
77-47-4	Hexachlorocyclopentadiene	12000	U
88-06-2	2,4,6-Trichlorophenol	12000	U
95-95-4	2,4,5-Trichlorophenol	30000	U
91-58-7	2-Chloronaphthalene	12000	U
88-74-4	2-Nitroaniline	30000	U
131-11-3	Dimethylphthalate	12000	U
208-96-8	Acenaphthylene	12000	U
606-20-2	2,6-Dinitrotoluene	12000	U
99-09-2	3-Nitroaniline	30000	UJ
83-32-9	Acenaphthene	12000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X110

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453648

Sample wt/vol: 1.1 (g/mL) G Lab File ID: B0404K05

Level: (low/med) MED Date Received: 03/18/94

% Moisture: 25 decanted: (Y/N) N Date Extracted: 03/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/04/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	30000	U
100-02-7	4-Nitrophenol	30000	U
132-64-9	Dibenzofuran	12000	U
121-14-2	2,4-Dinitrotoluene	12000	U
84-66-2	Diethylphthalate	12000	U
7005-72-3	4-Chlorophenyl-phenylether	12000	U
86-73-7	Fluorene	12000	U
100-10-6	4-Nitroaniline	30000	UJ
534-52-1	4,6-Dinitro-2-methylphenol	30000	U
86-30-6	N-Nitrosodiphenylamine (1)	12000	U
101-55-3	4-Bromophenyl-phenylether	12000	U
118-74-1	Hexachlorobenzene	12000	U
87-86-5	Pentachlorophenol	30000	U
85-01-8	Phenanthrene	12000	U
120-12-7	Anthracene	12000	U
86-74-8	Carbazole	12000	U
84-74-2	Di-n-Butylphthalate	12000	U
206-44-0	Fluoranthene	12000	U
129-00-0	Pyrene	12000	U
85-68-7	Butylbenzylphthalate	12000	U
91-94-1	3,3'-Dichlorobenzidine	12000	U
56-55-3	Benzo(a)Anthracene	12000	U
218-01-9	Chrysene	12000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	12000	U
117-84-0	Di-n-Octyl Phthalate	12000	U
205-99-2	Benzo(b)Fluoranthene	12000	U
207-08-9	Benzo(k)Fluoranthene	12000	U
50-32-8	Benzo(a)Pyrene	12000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	12000	U
53-70-3	Dibenz(a,h)Anthracene	12000	U
191-24-2	Benzo(g,h,i)Perylene	12000	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X110

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453648

Sample wt/vol: 1.1 (g/mL) G Lab File ID: B0404K05

Level: (low/med) MED Date Received: 03/18/94

% Moisture: 25 decanted: (Y/N) N Date Extracted: 03/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/04/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 15

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	31.96	7400	J
2.	UNKNOWN ALIP. HYDROCARBON	31.99	60000	J
3.	UNKNOWN ALIP. HYDROCARBON	32.22	12000	J
4.	UNKNOWN	32.44	6000	J
5.	UNKNOWN	32.82	23000	J
6.	UNKNOWN	32.97	5400	J
7.	UNKNOWN	33.04	26000	J
8.	UNKNOWN	33.12	10000	J
9.	UNKNOWN	33.24	5800	J
10.	UNKNOWN	33.34	6700	J
11.	UNKNOWN	33.41	23000	J
12.	UNKNOWN	33.51	4400	J
13.	UNKNOWN ALIP. HYDROCARBON	33.76	79000	J
14.	UNKNOWN	33.82	6700	J
15.	UNKNOWN ALIP. HYDROCARBON	34.34	64000	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X110

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453648

Sample wt/vol: 30.5 (g/mL) G Lab File ID: _____

% Moisture: 25 decanted: (Y/N) N Date Received: 03/18/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/21/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/12/94

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	JP
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	43	~~B~~
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
50-29-3	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
7421-36-3	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	3800	
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	2200	
11096-82-5	Aroclor-1260	1700	~~B~~

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X110DL

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453648D

Sample wt/vol: 30.5 (g/mL) G Lab File ID: _____

% Moisture: 25 decanted: (Y/N) N Date Received: 03/18/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/21/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/12/94

Injection Volume: 1.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.5 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	45	BD
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	48	PD
72-20-8	Endrin	43	U
33213-65-9	Endosulfan II	43	U
50-29-3	4,4'-DDD	96	PD
1031-07-8	Endosulfan sulfate	43	U
50-29-3	4,4'-DDT	43	U
72-43-5	Methoxychlor	220	U
53494-70-5	Endrin ketone	130	D
7421-36-3	Endrin aldehyde	43	U
5103-71-9	alpha-Chlordane	22	U
5103-74-2	gamma-Chlordane	22	U
8001-35-2	Toxaphene	2400	D
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	2200	D
11096-82-5	Aroclor-1260	1400	BD

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X110

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: SAUGET SITES AREA 2

Lab Code: Case No.: SAS No.: SDG No.: 104

Matrix (Soil): Lab Sample ID: B403632

Level (Low/Med): Date Received: 3/18/94

% Solids: 77.5

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	1350			P	
7440-36-0	Antimony	10.9	U	N	P	J
7440-38-2	Arsenic	0.96	B		FM	
7440-39-3	Barium	108			P	
7440-41-7	Beryllium	0.21	U		P	
7440-43-9	Cadmium	0.64	U		P	
7440-70-2	Calcium	90900			P	
7440-47-3	Chromium	6.6			P	
7440-48-4	Cobalt	2.6	U		P	
7440-50-8	Copper	6.4			P	
7439-89-6	Iron	1600			P	
7439-92-1	Lead	26.0			FM	
7439-95-4	Magnesium	1260			P	
7439-96-5	Manganese	38.9			P	
7439-97-6	Mercury	0.17	B		AV	
7440-02-2	Nickel	2.3	U		P	
7440-09-7	Potassium	316	B		P	
7782-49-2	Selenium	1.9		W,N	FM	J
7440-22-4	Silver	0.85	U		P	
7440-23-5	Sodium	1070	B		P	
7440-28-0	Thallium	0.24	U		FM	
7440-62-2	Vanadium	11.5			P	
7440-66-6	Zinc	65.7			P	
	Cyanide	1.1	U		AS	
					AS	

Color Before: Yellow Clarity Before: Opaque Texture: Fine

Color After: Green Clarity After: Clear Artifacts:

Comments:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X111

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D353649

Sample wt/vol: 4.0 (g/mL) G Lab File ID: B0324LC16

Level: (low/med) MED Date Received: 03/18/94

% Moisture: not dec. 55 Date Analyzed: 03/24/94

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

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	2700	U
74-83-9	Bromomethane	2700	U
75-01-4	Vinyl Chloride	2700	U
75-00-3	Chloroethane	2700	U
75-09-2	Methylene Chloride	1100	J
67-64-1	Acetone	2700	U
75-15-0	Carbon Disulfide	2700	U
75-35-4	1,1-Dichloroethene	2700	U
75-34-3	1,1-Dichloroethane	2700	U
540-59-0	1,2-Dichloroethene (total)	2700	U
67-66-3	Chloroform	2700	U
107-06-2	1,2-Dichloroethane	2700	U
78-93-3	2-Butanone	2700	UJ
71-55-6	1,1,1-Trichloroethane	2700	U
56-23-5	Carbon Tetrachloride	2700	U
75-27-4	Bromodichloromethane	2700	U
78-87-5	1,2-Dichloropropane	2700	U
10061-01-5	cis-1,3-Dichloropropene	2700	U
79-01-6	Trichloroethene	2700	U
124-48-1	Dibromochloromethane	2700	U
79-00-5	1,1,2-Trichloroethane	2700	U
71-43-2	Benzene	2700	U
10061-02-6	trans-1,3-Dichloropropene	2700	U
75-25-2	Bromoform	2700	U
108-10-1	4-Methyl-2-Pentanone	2700	U
591-78-6	2-Hexanone	2700	UJ
127-18-4	Tetrachloroethene	2700	U
79-34-5	1,1,2,2-Tetrachloroethane	2700	U
108-88-3	Toluene	2700	U
108-90-7	Chlorobenzene	2700	U
100-41-4	Ethylbenzene	2700	U
100-42-5	Styrene	2700	U
1330-20-7	Xylene (total)	2700	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X111

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D353649

Sample wt/vol: 4.0 (g/mL) G Lab File ID: B0324LC16

Level: (low/med) MED Date Received: 03/18/94

% Moisture: not dec. 55 Date Analyzed: 03/24/94

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

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (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

EPA SAMPLE NO.

X111

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453649

Sample wt/vol: 1.1 (g/mL) G Lab File ID: C0323E05

Level: (low/med) MED Date Received: 03/18/94

% Moisture: 55 decanted: (Y/N) N Date Extracted: 03/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/23/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	20000	U
111-44-4	bis(2-Chloroethyl)Ether	20000	U
95-57-8	2-Chlorophenol	20000	U
541-73-1	1,3-Dichlorobenzene	20000	U
106-46-7	1,4-Dichlorobenzene	20000	U
95-50-1	1,2-Dichlorobenzene	20000	U
95-48-7	2-Methylphenol	20000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	20000	U
106-44-5	4-Methylphenol	20000	U
621-64-7	N-Nitroso-Di-n-Propylamine	20000	U
67-72-1	Hexachloroethane	20000	U
98-95-3	Nitrobenzene	20000	U
78-59-1	Isophorone	20000	U
88-75-5	2-Nitrophenol	20000	U
105-67-9	2,4-Dimethylphenol	20000	U
111-91-1	bis(2-Chloroethoxy)Methane	20000	U
120-83-2	2,4-Dichlorophenol	20000	U
120-82-1	1,2,4-Trichlorobenzene	20000	U
91-20-3	Naphthalene	20000	U
106-47-8	4-Chloroaniline	20000	UJ
87-68-3	Hexachlorobutadiene	20000	U
59-50-7	4-Chloro-3-Methylphenol	20000	U
91-57-6	2-Methylnaphthalene	20000	U
77-47-4	Hexachlorocyclopentadiene	20000	U
88-06-2	2,4,6-Trichlorophenol	20000	U
95-95-4	2,4,5-Trichlorophenol	50000	U
91-58-7	2-Chloronaphthalene	20000	U
88-74-4	2-Nitroaniline	50000	U
131-11-3	Dimethylphthalate	20000	U
208-96-8	Acenaphthylene	20000	U
606-20-2	2,6-Dinitrotoluene	20000	U
99-09-2	3-Nitroaniline	50000	UJ
83-32-9	Acenaphthene	20000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X111

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453649

Sample wt/vol: 1.1 (g/mL) G Lab File ID: C0323E05

Level: (low/med) MED Date Received: 03/18/94

% Moisture: 55 decanted: (Y/N) N Date Extracted: 03/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/23/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	50000	U
100-02-7	4-Nitrophenol	50000	UJ
132-64-9	Dibenzofuran	20000	U
121-14-2	2,4-Dinitrotoluene	20000	U
84-66-2	Diethylphthalate	20000	U
7005-72-3	4-Chlorophenyl-phenylether	20000	U
86-73-7	Fluorene	20000	U
100-10-6	4-Nitroaniline	50000	UJ
534-52-1	4,6-Dinitro-2-methylphenol	50000	U
86-30-6	N-Nitrosodiphenylamine (1)	20000	U
101-55-3	4-Bromophenyl-phenylether	20000	U
118-74-1	Hexachlorobenzene	20000	U
87-86-5	Pentachlorophenol	50000	U
85-01-8	Phenanthrene	20000	U
120-12-7	Anthracene	20000	U
86-74-8	Carbazole	20000	U
84-74-2	Di-n-Butylphthalate	20000	U
206-44-0	Fluoranthene	20000	U
129-00-0	Pyrene	20000	U
85-68-7	Butylbenzylphthalate	20000	U
91-94-1	3,3'-Dichlorobenzidine	20000	UJ
56-55-3	Benzo(a)Anthracene	20000	U
218-01-9	Chrysene	20000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	20000	U
117-84-0	Di-n-Octyl Phthalate	20000	UJ
205-99-2	Benzo(b)Fluoranthene	20000	U
207-08-9	Benzo(k)Fluoranthene	20000	U
50-32-8	Benzo(a)Pyrene	20000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	20000	U
53-70-3	Dibenz(a,h)Anthracene	20000	U
191-24-2	Benzo(g,h,i)Perylene	20000	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X111

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453649

Sample wt/vol: 1.1 (g/mL) G Lab File ID: C0323E05

Level: (low/med) MED Date Received: 03/18/94

% Moisture: 55 decanted: (Y/N) N Date Extracted: 03/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/23/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 27

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2PENTANONE,4HYDROXY-4METHYL	8.07	17000	JNBA
2.	UNKNOWN ALIP. HYDROCARBON	17.99	9000	J
3.	UNKNOWN ALIP. HYDROCARBON	19.35	20000	J
4.	UNKNOWN ALIP. HYDROCARBON	20.64	9600	J
5.	UNKNOWN ALIP. HYDROCARBON	21.85	19000	J
6.	UNKNOWN ALIP. ACID	22.55	37000	J
7.	UNKNOWN	23.00	7900	J
8.	UNKNOWN NITRILE	24.20	50000	J
9.	UNKNOWN ALIP. ACID ESTER	24.40	49000	J
10.	UNKNOWN ALIP. ACID	24.84	720000	J
11.	UNKNOWN	26.02	5100	J
12.	UNKNOWN	26.16	35000	J
13.	UNKNOWN NITRILE	26.32	29000	J
14.	UNKNOWN	26.64	170000	J
15.	UNKNOWN	26.71	110000	J
16.	UNKNOWN ALIP. ACID	26.82	23000	J
17.	UNKNOWN	27.62	13000	J
18.	UNKNOWN ALIP. HYDROCARBON	28.09	6400	J
19.	UNKNOWN	28.41	25000	J
20.	UNKNOWN	28.76	22000	J
21.	UNKNOWN ALIP. ACID ESTER	29.02	14000	BJ
22.	UNKNOWN	33.56	16000	J
23.	UNKNOWN	33.94	7600	J
24.	UNKNOWN	35.56	44000	J
25.	UNKNOWN	37.47	70000	J
26.	UNKNOWN	39.84	130000	J
27.	UNKNOWN	42.71	44000	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X111

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453649

Sample wt/vol: 30.4 (g/mL) G Lab File ID: _____

% Moisture: 55 decanted: (Y/N) N Date Received: 03/18/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/21/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/13/94

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	3.7	U
319-85-7	beta-BHC	3.7	U
319-86-8	delta-BHC	46	BP
58-89-9	gamma-BHC (Lindane)	3.7	U
76-44-8	Heptachlor	3.7	U
309-00-2	Aldrin	3.7	U
1024-57-3	Heptachlor epoxide	3.7	U
959-98-8	Endosulfan I	3.7	U
60-57-1	Dieldrin	7.2	U
72-55-9	4,4'-DDE	74	P
72-20-8	Endrin	7.2	U
33213-65-9	Endosulfan II	7.2	U
50-29-3	4,4'-DDD	28	P
1031-07-8	Endosulfan sulfate	7.2	U
50-29-3	4,4'-DDT	64	BP
72-43-5	Methoxychlor	37	U
53494-70-5	Endrin ketone	130	P
7421-36-3	Endrin aldehyde	7.2	U
5103-71-9	alpha-Chlordane	3.7	U
5103-74-2	gamma-Chlordane	15	P
8001-35-2	Toxaphene	370	U
12674-11-2	Aroclor-1016	72	U
11104-28-2	Aroclor-1221	150	U
11141-16-5	Aroclor-1232	72	U
53469-21-9	Aroclor-1242	870	
12672-29-6	Aroclor-1248	72	U
11097-69-1	Aroclor-1254	1800	
11096-82-5	Aroclor-1260	2900	B

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X111DL

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453649D

Sample wt/vol: 30.4 (g/mL) G Lab File ID: _____

% Moisture: 55 decanted: (Y/N) N Date Received: 03/18/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/21/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/07/94

Injection Volume: 1.00 (uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	37	U
319-85-7	beta-BHC	37	U
319-86-8	delta-BHC	84	BPD
58-89-9	gamma-BHC (Lindane)	37	U
76-44-8	Heptachlor	37	U
309-00-2	Aldrin	37	U
1024-57-3	Heptachlor epoxide	37	U
959-98-8	Endosulfan I	37	U
60-57-1	Dieldrin	72	U
72-55-9	4,4'-DDE	62	JPD
72-20-8	Endrin	72	U
33213-65-9	Endosulfan II	72	U
50-29-3	4,4'-DDD	68	JPD
1031-07-8	Endosulfan sulfate	72	U
50-29-3	4,4'-DDT	76	BPD
72-43-5	Methoxychlor	370	U
53494-70-5	Endrin ketone	72	U
7421-36-3	Endrin aldehyde	72	U
5103-71-9	alpha-Chlordane	37	U
5103-74-2	gamma-Chlordane	19	JPD
8001-35-2	Toxaphene	3700	U
12674-11-2	Aroclor-1016	720	U
11104-28-2	Aroclor-1221	1500	U
11141-16-5	Aroclor-1232	720	U
53469-21-9	Aroclor-1242	1100	D
12672-29-6	Aroclor-1248	720	U
11097-69-1	Aroclor-1254	1800	D
11096-82-5	Aroclor-1260	3600	BD

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X111

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: SAUGET SITES AREA 2

Lab Code: Case No.: SAS No.: SDG No.: 104

Matrix (Soil): Lab Sample ID: B403633

Level (Low/Med): Date Received: 3/18/94

% Solids: 50.3

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	9470			P	
7440-36-0	Antimony	17.6	U	N	P	J
7440-38-2	Arsenic	8.8		S	FM	
7440-39-3	Barium	323			P	
7440-41-7	Beryllium	0.55	B		P	
7440-43-9	Cadmium	5.2			P	
7440-70-2	Calcium	108000			P	
7440-47-3	Chromium	19.2			P	
7440-48-4	Cobalt	6.3			P	
7440-50-8	Copper	97.7			P	
7439-89-6	Iron	13100			P	
7439-92-1	Lead	132			P	
7439-95-4	Magnesium	9190			P	
7439-96-5	Manganese	182			P	
7439-97-6	Mercury	4.9			AV	
7440-02-2	Nickel	32.8	U		P	
7440-09-7	Potassium	3300			P	
7782-49-2	Selenium	1.9		S,N	FM	J
7440-22-4	Silver	1.4	U		P	
7440-23-5	Sodium	227	B		P	
7440-28-0	Thallium	0.28	U		FM	
7440-62-2	Vanadium	27.2			P	
7440-66-6	Zinc	798			P	
	Cyanide	1.6	U		AS	
					AS	

Color Before: Black Clarity Before: Opaque Texture: Fine

Color After: Yellow Clarity After: Clear Artifacts:

Comments:

FORM I - IN

SOIL

ILM03.0

B000014

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X112

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453650

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0322LC05

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: not dec. 15 Date Analyzed: 03/22/94

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	12	UJ
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	UJ
75-09-2	Methylene Chloride	127	~~BJ~~ U
67-64-1	Acetone	130	
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	19	
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	3	J
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	3	J
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)	9	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X112

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453650

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0322LC05

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: not dec. 15 Date Analyzed: 03/22/94

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

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

Number TICs found: 4

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.17	9	J
2.	UNKNOWN	9.32	21	J
3.	UNKNOWN ALIP. HYDROCARBON	12.80	10	J
4. 123-19-3	~~4-HEPTANONE~~ unknown	18.79	9	~~JN~~ J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X112

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453650

Sample wt/vol: 1.1 (g/mL) G Lab File ID: C0328K05

Level: (low/med) MED Date Received: 03/18/94

% Moisture: 15 decanted: (Y/N) N Date Extracted: 03/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/28/94

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	54000	U
111-44-4	bis(2-Chloroethyl)Ether	54000	U
95-57-8	2-Chlorophenol	54000	U
541-73-1	1,3-Dichlorobenzene	54000	U
106-46-7	1,4-Dichlorobenzene	54000	U
95-50-1	1,2-Dichlorobenzene	54000	U
95-48-7	2-Methylphenol	54000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	54000	U
106-44-5	4-Methylphenol	54000	U
621-64-7	N-Nitroso-Di-n-Propylamine	54000	U
67-72-1	Hexachloroethane	54000	U
98-95-3	Nitrobenzene	54000	U
78-59-1	Isophorone	54000	U
88-75-5	2-Nitrophenol	54000	U
105-67-9	2,4-Dimethylphenol	54000	U
111-91-1	bis(2-Chloroethoxy)Methane	54000	U
120-83-2	2,4-Dichlorophenol	54000	U
120-82-1	1,2,4-Trichlorobenzene	54000	U
91-20-3	Naphthalene	54000	U
106-47-8	4-Chloroaniline	54000	UJ
87-68-3	Hexachlorobutadiene	54000	U
59-50-7	4-Chloro-3-Methylphenol	54000	U
91-57-6	2-Methylnaphthalene	54000	U
77-47-4	Hexachlorocyclopentadiene	54000	U
88-06-2	2,4,6-Trichlorophenol	54000	U
95-95-4	2,4,5-Trichlorophenol	130000	U
91-58-7	2-Chloronaphthalene	54000	U
88-74-4	2-Nitroaniline	130000	U
131-11-3	Dimethylphthalate	54000	U
208-96-8	Acenaphthylene	54000	U
606-20-2	2,6-Dinitrotoluene	54000	U
99-09-2	3-Nitroaniline	130000	UJ
83-32-9	Acenaphthene	54000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X112

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453650

Sample wt/vol: 1.1 (g/mL) G Lab File ID: C0328K05

Level: (low/med) MED Date Received: 03/18/94

% Moisture: 15 decanted: (Y/N) N Date Extracted: 03/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/28/94

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	130000	U
100-02-7	4-Nitrophenol	130000	UJ
132-64-9	Dibenzofuran	54000	U
121-14-2	2,4-Dinitrotoluene	54000	U
84-66-2	Diethylphthalate	54000	U
7005-72-3	4-Chlorophenyl-phenylether	54000	U
86-73-7	Fluorene	54000	U
100-10-6	4-Nitroaniline	130000	UJ
534-52-1	4,6-Dinitro-2-methylphenol	130000	U
86-30-6	N-Nitrosodiphenylamine (1)	54000	U
101-55-3	4-Bromophenyl-phenylether	54000	U
118-74-1	Hexachlorobenzene	54000	U
87-86-5	Pentachlorophenol	130000	UJ
85-01-8	Phenanthrene	54000	U
120-12-7	Anthracene	54000	U
86-74-8	Carbazole	54000	U
84-74-2	Di-n-Butylphthalate	54000	U
206-44-0	Fluoranthene	54000	U
129-00-0	Pyrene	54000	U
85-68-7	Butylbenzylphthalate	54000	U
91-94-1	3,3'-Dichlorobenzidine	54000	UJ
56-55-3	Benzo(a)Anthracene	54000	U
218-01-9	Chrysene	54000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	54000	U
117-84-0	Di-n-Octyl Phthalate	54000	U
205-99-2	Benzo(b)Fluoranthene	54000	U
207-08-9	Benzo(k)Fluoranthene	54000	U
50-32-8	Benzo(a)Pyrene	54000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	54000	U
53-70-3	Dibenz(a,h)Anthracene	54000	UJ
191-24-2	Benzo(g,h,i)Perylene	54000	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X112

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453650

Sample wt/vol: 1.1 (g/mL) G Lab File ID: C0328K05

Level: (low/med) MED Date Received: 03/18/94

% Moisture: 15 decanted: (Y/N) N Date Extracted: 03/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/28/94

Injection Volume: 2.0(uL) Dilution Factor: 5.0

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

Number TICs found: 28

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 4537-14-8	BENZENE,1-PENTYLHEXYL	21.10	1000000	JN
2. 4536-86-1	BENZENE,1-PROPYLOCTYL	21.29	850000	JN
3. 4536-88-3	BENZENE,1-METHYLDECYL	22.00	900000	JN
4. 2719-62-2	BENZENE,1-PENTYLHEPTYL	22.29	2000000	JN
5. 2719-63-3	BENZENE,1-BUTYLOCTYL	22.35	880000	JN
6. 2719-64-4	BENZENE,1-PROPYLNONYL	22.50	1200000	JN
7. 2400-00-2	BENZENE,1-ETHYLDECYL	22.77	1300000	JN
8. 2719-61-1	BENZENE,1-METHYLUNDECYL	23.22	1400000	JN
9. 4534-49-0	BENZENE,1-PENTYLOCTYL	23.42	2500000	JN
10. 4534-50-3	BENZENE,1-BUTYLNONYL	23.50	1200000	JN
11. 4534-51-4	BENZENE,1-PROPYLDECYL	23.65	1400000	JN
12. 4534-52-5	BENZENE,1-ETHYLUNDECYL	23.94	1600000	JN
13. 2719-61-1	BENZENE,1-METHYLUNDECYL	24.37	1400000	JN
14. 4534-54-7	BENZENE,1-HEXYLOCTYL	24.47	2100000	JN
15.	UNKNOWN MSB	24.59	750000	J
16.	UNKNOWN MSB	24.75	840000	J
17.	UNKNOWN MSB	25.04	970000	J
18. 4534-59-2	BENZENE,1-METHYLTRIDECYL	25.46	850000	JN
19.	UNKNOWN ALIP. HYDROCARBON	28.24	380000	J
20.	UNKNOWN ALIP. HYDROCARBON	28.37	580000	J
21.	UNKNOWN	28.96	360000	J
22.	UNKNOWN	29.17	120000	J
23.	UNKNOWN	29.26	520000	J
24.	UNKNOWN	29.49	190000	J
25.	UNKNOWN	29.57	73000	J
26.	UNKNOWN ALIP. HYDROCARBON	29.82	780000	J
27.	UNKNOWN	30.11	350000	J
28.	UNKNOWN ALIP. HYDROCARBON	30.29	430000	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X112

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: 453650DD

Sample wt/vol: 30.8 (g/mL) G Lab File ID: _____

% Moisture: 15 decanted: (Y/N) N Date Received: 03/18/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/21/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/12/94

Injection Volume: 1.00 (uL) Dilution Factor: 100

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		190	U
319-85-7	beta-BHC		190	U
319-86-8	delta-BHC	19000	~~1500~~	~~BP~~ uX
58-89-9	gamma-BHC (Lindane)		190	U
76-44-8	Heptachlor		190	U
309-00-2	Aldrin		190	U
1024-57-3	Heptachlor epoxide		190	U
959-98-8	Endosulfan I		190	U
60-57-1	Dieldrin		380	U
72-55-9	4,4'-DDE		380	U
72-20-8	Endrin		380	U
33213-65-9	Endosulfan II		380	U
50-29-3	4,4'-DDD	38000	~~640~~	~~P~~ uX
1031-07-8	Endosulfan sulfate		380	U
50-29-3	4,4'-DDT		260	~~B~~JP
72-43-5	Methoxychlor	190000	~~1000~~	~~JP~~ uX
53494-70-5	Endrin ketone	38000	~~1100~~	~~P~~ uX
7421-36-3	Endrin aldehyde		380	U
5103-71-9	alpha-Chlordane		190	U
5103-74-2	gamma-Chlordane		330	P
8001-35-2	Toxaphene		19000	U
12674-11-2	Aroclor-1016		3800	U
11104-28-2	Aroclor-1221		7700	U
11141-16-5	Aroclor-1232		3800	U
53469-21-9	Aroclor-1242		80000	C
12672-29-6	Aroclor-1248		3800	U
11097-69-1	Aroclor-1254		69000	C
11096-82-5	Aroclor-1260		42000	~~B~~C

05/05/94
SB

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X112DL

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS. No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: 53650DDD

Sample wt/vol: 30.8 (g/mL) G Lab File ID: _____

% Moisture: 15 decanted: (Y/N) N Date Received: 03/18/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/21/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/13/94

Injection Volume: 1.00 (uL) Dilution Factor: 1000

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	1900	U
319-85-7	beta-BHC	1900	U
319-86-8	delta-BHC	190000 ~~2100~~	~~BPD~~ UX
58-89-9	gamma-BHC (Lindane)	1900	U
76-44-8	Heptachlor	1900	U
309-00-2	Aldrin	1900	U
1024-57-3	Heptachlor epoxide	1900	U
959-98-8	Endosulfan I	1900	U
60-57-1	Dieldrin	3800	U
72-55-9	4,4'-DDE	3800	U
72-20-8	Endrin	3800	U
33213-65-9	Endosulfan II	3800	U
50-29-3	4,4'-DDD	380000 ~~270~~	~~JPD~~ UX
1031-07-8	Endosulfan sulfate	3800	U
50-29-3	4,4'-DDT	3800	U
72-43-5	Methoxychlor	19000	U
53494-70-5	Endrin ketone	380000 ~~220~~	~~JPD~~ UX
7421-36-3	Endrin aldehyde	3800	U
5103-71-9	alpha-Chlordane	1900	U
5103-74-2	gamma-Chlordane	400	JPD
8001-35-2	Toxaphene	190000	U
12674-11-2	Aroclor-1016	38000	U
11104-28-2	Aroclor-1221	77000	U
11141-16-5	Aroclor-1232	38000	U
53469-21-9	Aroclor-1242	100000	DC
12672-29-6	Aroclor-1248	38000	U
11097-69-1	Aroclor-1254	89000	DC
11096-82-5	Aroclor-1260	46000	~~B~~DC

05/05/94

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X112

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: SAUGET SITES AREA 2

Lab Code: Case No.: SAS No.: SDG No.: 104

Matrix (Soil): Lab Sample ID: B403634

Level (Low/Med): Date Received: 3/18/94

% Solids: 94.1

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	1960			P	
7440-36-0	Antimony	7.8	U	N	P	J
7440-38-2	Arsenic	3.9			FM	
7440-39-3	Barium	134			P	
7440-41-7	Beryllium	0.23	B		P	
7440-43-9	Cadmium	3.0			P	
7440-70-2	Calcium	12000			P	
7440-47-3	Chromium	7.4			P	
7440-48-4	Cobalt	2.7			P	
7440-50-8	Copper	37.8			P	
7439-89-6	Iron	4160			P	
7439-92-1	Lead	39.1			FM	
7439-95-4	Magnesium	1760			P	
7439-96-5	Manganese	104			P	
7439-97-6	Mercury	0.53			AV	
7440-02-2	Nickel	12.3	U		P	
7440-09-7	Potassium	397	B		P	
7782-49-2	Selenium	0.25	B	W,N	FM	J
7440-22-4	Silver	0.61	U		P	
7440-23-5	Sodium	337	B		P	
7440-28-0	Thallium	0.19	U	W	FM	J
7440-62-2	Vanadium	15.9			P	
7440-66-6	Zinc	349			P	
	Cyanide	0.88	U		AS	
					AS	

Color Before: Black Clarity Before: Opaque Texture:

Color After: Orange Clarity After: Clear Artifacts: Tar-Like

Comments: Substance

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X113

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453651

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0318LC14

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: not dec. 39 Date Analyzed: 03/18/94

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	UJ
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	UJ
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	16	U
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

EPA SAMPLE NO.

X113

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453651

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0318LC14

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: not dec. 39 Date Analyzed: 03/18/94

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

EPA SAMPLE NO.

X113

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453651

Sample wt/vol: 30.4 (g/mL) G Lab File ID: C0329K04

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: 39 decanted: (Y/N) N Date Extracted: 03/23/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/29/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

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	UJ
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.

X113

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453651

Sample wt/vol: 30.4 (g/mL) G Lab File ID: C0329K04

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: 39 decanted: (Y/N) N Date Extracted: 03/23/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/29/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

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	U
7005-72-3	4-Chlorophenyl-phenylether	530	U
86-73-7	Fluorene	530	U
100-10-6	4-Nitroaniline	1300	UJ
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	170	J
120-12-7	Anthracene	530	U
86-74-8	Carbazole	530	U
84-74-2	Di-n-Butylphthalate	1200	~~B~~ U
206-44-0	Fluoranthene	300	J
129-00-0	Pyrene	340	J
85-68-7	Butylbenzylphthalate	530	UJ
91-94-1	3,3'-Dichlorobenzidine	530	U
56-55-3	Benzo(a)Anthracene	340	J
218-01-9	Chrysene	230	J
117-81-7	bis(2-Ethylhexyl)Phthalate	530	U
117-84-0	Di-n-Octyl Phthalate	530	U
205-99-2	Benzo(b)Fluoranthene	340	J
207-08-9	Benzo(k)Fluoranthene	130	J
50-32-8	Benzo(a)Pyrene	250	J
193-39-5	Indeno(1,2,3-cd)Pyrene	250	J
53-70-3	Dibenz(a,h)Anthracene	530	U
191-24-2	Benzo(g,h,i)Perylene	270	J

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X113

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453651

Sample wt/vol: 30.4 (g/mL) G Lab File ID: C0329K04

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: 39 decanted: (Y/N) N Date Extracted: 03/23/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/29/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.47	2400	BJ
2. 123-42-2	2PENTANONE,4HYDROXY-4METHYL	8.25	50000	JNBA
3.	UNKNOWN	9.72	1300	BJ
4.	UNKNOWN ALIP. KETONE	10.34	860	BAJ
5.	UNKNOWN	11.22	1500	J
6.	UNKNOWN	12.35	670	J
7.	UNKNOWN	22.75	740	J
8.	UNKNOWN	24.14	940	J
9.	UNKNOWN	24.52	800	J
10.	UNKNOWN	24.59	970	J
11.	UNKNOWN ALIP. ACID	24.69	860	J
12.	UNKNOWN ALIP. HYDROCARBON	26.11	370	J
13.	UNKNOWN PNA	27.96	350	J
14.	UNKNOWN ALIP. HYDROCARBON	27.99	490	J
15.	UNKNOWN ALIP. ACID ESTER	28.94	780	BJ
16.	UNKNOWN ALIP. HYDROCARBON	29.77	620	J
17.	UNKNOWN	29.82	740	J
18.	UNKNOWN	31.37	210	J
19.	UNKNOWN ALIP. HYDROCARBON	31.64	690	J
20.	UNKNOWN	31.81	500	J
21.	UNKNOWN	32.51	760	J
22.	UNKNOWN	33.32	310	J
23.	UNKNOWN	33.41	420	J
24.	UNKNOWN	33.79	390	J
25.	UNKNOWN ALIP. HYDROCARBON	34.21	2400	J
26.	UNKNOWN	34.44	1700	J
27.	UNKNOWN	35.36	1600	J
28.	UNKNOWN ALIP. HYDROCARBON	37.87	2100	J
29.	UNKNOWN	39.54	990	J
30.	UNKNOWN	43.99	1500	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X113

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453651

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 39 decanted: (Y/N) N Date Received: 03/18/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/21/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/05/94

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.8	U
319-85-7	beta-BHC	2.8	U
319-86-8	delta-BHC	6.0	~~BP~~
58-89-9	gamma-BHC (Lindane)	0.36	JP
76-44-8	Heptachlor	2.8	U
309-00-2	Aldrin	2.8	U
1024-57-3	Heptachlor epoxide	2.8	U
959-98-8	Endosulfan I	2.8	U
60-57-1	Dieldrin	5.4	U
72-55-9	4,4'-DDE	23	
72-20-8	Endrin	5.4	U
33213-65-9	Endosulfan II	5.4	U
50-29-3	4,4'-DDD	17	P
1031-07-8	Endosulfan sulfate	5.4	U
50-29-3	4,4'-DDT	16	~~BP~~
72-43-5	Methoxychlor	28	U
53494-70-5	Endrin ketone	5.4	U
7421-36-3	Endrin aldehyde	5.4	U
5103-71-9	alpha-Chlordane	2.8	U
5103-74-2	gamma-Chlordane	6.0	P
8001-35-2	Toxaphene	280	U
12674-11-2	Aroclor-1016	54	U
11104-28-2	Aroclor-1221	110	U
11141-16-5	Aroclor-1232	54	U
53469-21-9	Aroclor-1242	220 ~~230~~	
12672-29-6	Aroclor-1248	54	U
11097-69-1	Aroclor-1254	550	
11096-82-5	Aroclor-1260	710	~~B~~

MCN 4/25/94

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X113

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: SAUGET SITES AREA 2

Lab Code: Case No.: SAS No.: SDG No.: 104

Matrix (Soil): Lab Sample ID: B403635

Level (Low/Med): Date Received: 3/18/94

% Solids: 61.0

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	13800			P	
7440-36-0	Antimony	11.6	U	N	P	J
7440-38-2	Arsenic	8.3			FM	
7440-39-3	Barium	230			P	
7440-41-7	Beryllium	0.74	B		P	
7440-43-9	Cadmium	3.5			P	
7440-70-2	Calcium	7700			P	
7440-47-3	Chromium	21.2			P	
7440-48-4	Cobalt	7.2	B		P	
7440-50-8	Copper	56.6			P	
7439-89-6	Iron	24500			P	
7439-92-1	Lead	63.0			P	
7439-95-4	Magnesium	3980			P	
7439-96-5	Manganese	283			P	
7439-97-6	Mercury	0.51			AV	
7440-02-2	Nickel	27.0	U		P	
7440-09-7	Potassium	2380			P	
7782-49-2	Selenium	0.31	U	W,N	FM	~~CS~~ R
7440-22-4	Silver	0.91	U		P	
7440-23-5	Sodium	217	B		P	
7440-28-0	Thallium	0.31	U		FM	
7440-62-2	Vanadium	34.7			P	
7440-66-6	Zinc	495			P	
	Cyanide	1.4	U		AS	
					AS	

Color Before: Gray Clarity Before: Opaque Texture: Fine

Color After: Green Clarity After: Clear Artifacts:

Comments:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X114

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453652

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0318LC15

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: not dec. 37 Date Analyzed: 03/18/94

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	UJ
75-00-3	Chloroethane	16	U
75-09-2	Methylene Chloride	3	J
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	UJ
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	16	U
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

EPA SAMPLE NO.

X114

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453652

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0318LC15

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: not dec. 37 Date Analyzed: 03/18/94

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

EPA SAMPLE NO.

X114

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453652

Sample wt/vol: 30.4 (g/mL) G Lab File ID: B0404K08

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: 37 decanted: (Y/N) N Date Extracted: 03/23/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/04/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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	UJ
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	UJ
83-32-9	Acenaphthene	520	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X114

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453652

Sample wt/vol: 30.4 (g/mL) G Lab File ID: B0404K08

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: 37 decanted: (Y/N) N Date Extracted: 03/23/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/04/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

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	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
100-10-6	4-Nitroaniline	1300	UJ
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	110	J
120-12-7	Anthracene	520	U
86-74-8	Carbazole	520	U
84-74-2	Di-n-Butylphthalate	1300	~~B~~ U
206-44-0	Fluoranthene	190	J
129-00-0	Pyrene	200	J
85-68-7	Butylbenzylphthalate	520	U
91-94-1	3,3'-Dichlorobenzidine	520	U
56-55-3	Benzo(a)Anthracene	230	J
218-01-9	Chrysene	190	J
117-81-7	bis(2-Ethylhexyl)Phthalate	180	J
117-84-0	Di-n-Octyl Phthalate	520	U
205-99-2	Benzo(b)Fluoranthene	220	J
207-08-9	Benzo(k)Fluoranthene	160	J
50-32-8	Benzo(a)Pyrene	210	J
193-39-5	Indeno(1,2,3-cd)Pyrene	520	U
53-70-3	Dibenz(a,h)Anthracene	520	U
191-24-2	Benzo(g,h,i)Perylene	520	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X114

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453652

Sample wt/vol: 30.4 (g/mL) G Lab File ID: B0404K08

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: 37 decanted: (Y/N) N Date Extracted: 03/23/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/04/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 28

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2PENTANONE,4HYDROXY-4METHYL	9.52	26000	JNBA
2.	UNKNOWN	11.14	1100	BJ
3.	UNKNOWN ALIP. KETONE	11.80	670	BAJ
4.	UNKNOWN	12.80	900	J
5.	UNKNOWN	14.09	740	J
6.	UNKNOWN ALIP. ACID	23.47	440	BJ
7.	UNKNOWN	27.39	570	J
8.	UNKNOWN	27.87	1000	J
9.	UNKNOWN ALIP. ACID	27.96	750	J
10.	UNKNOWN ALIP. HYDROCARBON	31.71	580	J
11. 3665-70-1	BENZENAMINE,4NITRO-N-NITROSO	31.72	970	JN
12.	UNKNOWN ALIP. ACID ESTER	32.76	740	BJ
13.	UNKNOWN ALIP. HYDROCARBON	33.69	1200	J
14.	UNKNOWN	33.72	1400	J
15.	UNKNOWN ALIP. HYDROCARBON	34.72	150	J
16.	UNKNOWN ALIP. HYDROCARBON	35.91	810	J
17.	UNKNOWN ALIP. HYDROCARBON	36.06	540	J
18.	UNKNOWN	36.36	140	J
19.	UNKNOWN	36.92	570	J
20.	UNKNOWN ALIP. HYDROCARBON	37.29	200	J
21.	UNKNOWN	37.86	280	J
22.	UNKNOWN	38.01	310	J
23.	UNKNOWN	38.44	410	J
24.	UNKNOWN ALIP. HYDROCARBON	38.94	2100	J
25.	UNKNOWN	39.19	1500	J
26.	UNKNOWN PNA	40.12	430	J
27.	UNKNOWN	40.31	780	J
28.	UNKNOWN ALIP. HYDROCARBON	43.24	1800	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X114

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453652

Sample wt/vol: 30.3 (g/mL) G Lab File ID: _____

% Moisture: 37 decanted: (Y/N) N Date Received: 03/18/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/21/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/05/94

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

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	2.7	U
319-85-7	beta-BHC	2.7	U
319-86-8	delta-BHC	4.8	~~B~~P
58-89-9	gamma-BHC (Lindane)	1.2	JP
76-44-8	Heptachlor	2.7	U
309-00-2	Aldrin	2.7	U
1024-57-3	Heptachlor epoxide	2.7	U
959-98-8	Endosulfan I	2.7	U
60-57-1	Dieldrin	5.2	U
72-55-9	4,4'-DDE	23	
72-20-8	Endrin	5.2	U
33213-65-9	Endosulfan II	5.2	U
50-29-3	4,4'-DDD	14	P
1031-07-8	Endosulfan sulfate	5.2	U
50-29-3	4,4'-DDT	13	~~B~~P
72-43-5	Methoxychlor	27	U
53494-70-5	Endrin ketone	5.2	U
7421-36-3	Endrin aldehyde	5.2	U
5103-71-9	alpha-Chlordane	2.7	U
5103-74-2	gamma-Chlordane	5.4	P
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	190	
12672-29-6	Aroclor-1248	52	U
11097-69-1	Aroclor-1254	580	
11096-82-5	Aroclor-1260	720	~~B~~

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X114

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: SAUGET SITES AREA 2

Lab Code: Case No.: SAS No.: SDG No.: 104

Matrix (Soil): Lab Sample ID: B403636

Level (Low/Med): Date Received: 3/18/94

% Solids: 62.4

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	15300			P	
7440-36-0	Antimony	11.1	U	N	P	J
7440-38-2	Arsenic	7.7			FM	
7440-39-3	Barium	250			P	
7440-41-7	Beryllium	0.79	B		P	
7440-43-9	Cadmium	3.0			P	
7440-70-2	Calcium	7720			P	
7440-47-3	Chromium	22.5			P	
7440-48-4	Cobalt	8.4	B		P	
7440-50-8	Copper	55.1			P	
7439-89-6	Iron	25800			P	
7439-92-1	Lead	66.3			P	
7439-95-4	Magnesium	4300			P	
7439-96-5	Manganese	278			P	
7439-97-6	Mercury	~~0.23~~ 0.54			AV	
7440-02-2	Nickel	30.0			P	
7440-09-7	Potassium	2520			P	
7782-49-2	Selenium	0.30	U	W,N	FM	R
7440-22-4	Silver	0.87	U		P	
7440-23-5	Sodium	224	B		P	
7440-28-0	Thallium	0.30	U		FM	
7440-62-2	Vanadium	37.6			P	
7440-66-6	Zinc	498			P	
	Cyanide	1.3	U		AS	
					AS	

Color Before: Gray Clarity Before: Opaque Texture: Fine

Color After: Green Clarity After: Clear Artifacts:

Comments:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X501

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453653

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0322LC04

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: not dec. 16 Date Analyzed: 03/22/94

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	UJ
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	UJ
75-09-2	Methylene Chloride	15	~~B~~ U
67-64-1	Acetone	29	
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	7	J
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	6	J
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	53	
100-42-5	Styrene	3	J
1330-20-7	Xylene (total)	220	

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X501

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453653

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0322LC04

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: not dec. 16 Date Analyzed: 03/22/94

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.	UNKNOWN	8.03	9	J
2.	UNKNOWN	11.84	200	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X501

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453653

Sample wt/vol: 30.2 (g/mL) G Lab File ID: C0328K10

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: 16 decanted: (Y/N) N Date Extracted: 03/23/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/28/94

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	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	UJ
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	950	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	950	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	950	UJ
83-32-9	Acenaphthene	390	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X501

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453653

Sample wt/vol: 30.2 (g/mL) G Lab File ID: C0328K10

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: 16 decanted: (Y/N) N Date Extracted: 03/23/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/28/94

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
51-28-5	2,4-Dinitrophenol	950	U
100-02-7	4-Nitrophenol	950	UJ
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
100-10-6	4-Nitroaniline	950	UJ
534-52-1	4,6-Dinitro-2-methylphenol	950	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	950	UJ
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
86-74-8	Carbazole	390	U
84-74-2	Di-n-Butylphthalate	550	~~B~~ U
206-44-0	Fluoranthene	390	U
129-00-0	Pyrene	390	U
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	UJ
56-55-3	Benzo(a)Anthracene	390	U
218-01-9	Chrysene	390	U
117-81-7	bis(2-Ethylhexyl)Phthalate	390	U
117-84-0	Di-n-Octyl Phthalate	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	UJ
191-24-2	Benzo(g,h,i)Perylene	390	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X501

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453653

Sample wt/vol: 30.2 (g/mL) G Lab File ID: C0328K10

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: 16 decanted: (Y/N) N Date Extracted: 03/23/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/28/94

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.	UNKNOWN ALIP. KETONE	7.02	420	BAJ
2.	UNKNOWN	7.48	1900	BJ
3.	UNKNOWN ALIP. HYDROCARBON	7.95	260	BJ
4. 123-42-2	2PENTANONE,4HYDROXY-4METHYL	8.25	37000	JNBA
5.	UNKNOWN	8.50	410	BJ
6.	UNKNOWN	9.72	1000	BJ
7.	UNKNOWN ALIP. KETONE unknown	10.34	660	BAJ
8. 2568-91-4	~~PROPANE,1,1'[METHYLENEBIS(OX~~	10.94	8200	~~JN~~
9.	UNKNOWN	11.24	1200	J
10.	UNKNOWN	12.37	610	J
11. 34180-11-5	PROPANE,1(CHLOROMETHOXY)2MET	14.34	6400	JN
12.	UNKNOWN	15.02	140	J
13.	UNKNOWN	17.09	1600	J
14.	UNKNOWN	17.54	2400	J
15.	UNKNOWN	17.97	92	J
16.	UNKNOWN	19.20	170	J
17.	UNKNOWN	19.29	370	J
18.	UNKNOWN	19.57	160	J
19.	UNKNOWN	19.92	180	J
20.	UNKNOWN	21.14	300	J
21.	UNKNOWN	21.44	3400	J
22.	UNKNOWN	21.97	520	J
23.	UNKNOWN	23.37	570	J
24.	UNKNOWN	25.27	650	J
25.	UNKNOWN	27.04	380	J
26.	UNKNOWN	27.27	140	J
27.	UNKNOWN ALIP. ACID ESTER	28.94	510	BJ
28.	UNKNOWN ALIP. HYDROCARBON	31.64	220	J
29.	UNKNOWN ALIP. HYDROCARBON	32.01	210	J
30.	UNKNOWN ALIP. HYDROCARBON	35.52	950	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X501

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453653

Sample wt/vol: 30.4 (g/mL) G Lab File ID: _____

% Moisture: 16 decanted: (Y/N) N Date Received: 03/18/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/21/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/05/94

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

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

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	0.63	JP
72-55-9	4,4'-DDE	3.9	U
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	3.9	U
50-29-3	4,4'-DDD	0.13	JP
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
7421-36-3	Endrin aldehyde	3.9	U
5103-71-9	alpha-Chlordane	2.0 ~~0.73~~	~~BJ~~ U
5103-74-2	gamma-Chlordane	0.40	JP
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 ~~22~~	~~BJ~~ U

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X501

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: SAUGET SITES AREA 2

Lab Code: Case No.: SAS No.: SDG No.: -104

Matrix (Soil): Lab Sample ID: B403638

Level (Low/Med): Date Received: 3/18/94

% Solids: 86.2

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	165			P	
7440-36-0	Antimony	8.5	U	N	P	J
7440-38-2	Arsenic	0.21	U		FM	J
7440-39-3	Barium	2.7	B		P	
7440-41-7	Beryllium	0.17	U		P	
7440-43-9	Cadmium	0.50	U		P	
7440-70-2	Calcium	130	B		P	
7440-47-3	Chromium	0.50	U		P	
7440-48-4	Cobalt	2.0	U		P	
7440-50-8	Copper	1.2	B		P	
7439-89-6	Iron	903			P	
7439-92-1	Lead	25.5			FM	
7439-95-4	Magnesium	39.7	B		P	
7439-96-5	Manganese	7.3			P	
7439-97-6	Mercury	0.03	U		AV	
7440-02-2	Nickel	3.6	B		P	
7440-09-7	Potassium	199	U		P	
7782-49-2	Selenium	0.22	U	N	FM	R
7440-22-4	Silver	0.66	U		P	
7440-23-5	Sodium	115	B		P	
7440-28-0	Thallium	0.22	U		FM	
7440-62-2	Vanadium	0.65	B		P	
7440-66-6	Zinc	4.52 ~~4152~~ ~~4.15~~			P	
	Cyanide	0.96	U		AS	
					AS	

Color Before: Brown Clarity Before: Opaque Texture: Course

Color After: Colorless Clarity After: Clear Artifacts:

Comments:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X502

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453654

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0322LC06

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: not dec. 6 Date Analyzed: 03/22/94

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	UJ
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	UJ
75-09-2	Methylene Chloride	14	~~B~~ u
67-64-1	Acetone	11	
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	12	
71-55-6	1,1,1-Trichloroethane	3	J
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	4	J
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

EPA SAMPLE NO.

X502

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453654

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0322LC06

Level: (low/med) LOW Date Received: 03/18/94

% Moisture: not dec. 6 Date Analyzed: 03/22/94

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

EPA SAMPLE NO.

X502

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453654

Sample wt/vol: 1.3 (g/mL) G Lab File ID: C0323E10

Level: (low/med) MED Date Received: 03/18/94

% Moisture: 6 decanted: (Y/N) N Date Extracted: 03/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/23/94

Injection Volume: 2.0(uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y pH: 11.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	160000	U
111-44-4	bis(2-Chloroethyl)Ether	160000	U
95-57-8	2-Chlorophenol	160000	U
541-73-1	1,3-Dichlorobenzene	160000	U
106-46-7	1,4-Dichlorobenzene	160000	U
95-50-1	1,2-Dichlorobenzene	160000	U
95-48-7	2-Methylphenol	160000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	160000	U
106-44-5	4-Methylphenol	160000	U
621-64-7	N-Nitroso-Di-n-Propylamine	160000	U
67-72-1	Hexachloroethane	160000	U
98-95-3	Nitrobenzene	160000	U
78-59-1	Isophorone	160000	U
88-75-5	2-Nitrophenol	160000	U
105-67-9	2,4-Dimethylphenol	160000	U
111-91-1	bis(2-Chloroethoxy)Methane	160000	U
120-83-2	2,4-Dichlorophenol	160000	U
120-82-1	1,2,4-Trichlorobenzene	160000	U
91-20-3	Naphthalene	160000	U
106-47-8	4-Chloroaniline	160000	UJ
87-68-3	Hexachlorobutadiene	160000	U
59-50-7	4-Chloro-3-Methylphenol	160000	U
91-57-6	2-Methylnaphthalene	160000	U
77-47-4	Hexachlorocyclopentadiene	160000	U
88-06-2	2,4,6-Trichlorophenol	160000	U
95-95-4	2,4,5-Trichlorophenol	410000	U
91-58-7	2-Chloronaphthalene	160000	U
88-74-4	2-Nitroaniline	410000	U
131-11-3	Dimethylphthalate	160000	U
208-96-8	Acenaphthylene	160000	U
606-20-2	2,6-Dinitrotoluene	160000	U
99-09-2	3-Nitroaniline	410000	UJ
83-32-9	Acenaphthene	160000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X502

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453654

Sample wt/vol: 1.3 (g/mL) G Lab File ID: C0323E10

Level: (low/med) MED Date Received: 03/18/94

% Moisture: 6 decanted: (Y/N) N Date Extracted: 03/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/23/94

Injection Volume: 2.0(uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y pH: 11.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	410000	U
100-02-7	4-Nitrophenol	410000	UJ
132-64-9	Dibenzofuran	160000	U
121-14-2	2,4-Dinitrotoluene	160000	U
84-66-2	Diethylphthalate	160000	U
7005-72-3	4-Chlorophenyl-phenylether	160000	U
86-73-7	Fluorene	160000	U
100-10-6	4-Nitroaniline	410000	UJ
534-52-1	4,6-Dinitro-2-methylphenol	410000	U
86-30-6	N-Nitrosodiphenylamine (1)	160000	U
101-55-3	4-Bromophenyl-phenylether	160000	U
118-74-1	Hexachlorobenzene	160000	U
87-86-5	Pentachlorophenol	410000	U
85-01-8	Phenanthrene	160000	U
120-12-7	Anthracene	160000	U
86-74-8	Carbazole	160000	U
84-74-2	Di-n-Butylphthalate	160000	U
206-44-0	Fluoranthene	160000	U
129-00-0	Pyrene	160000	U
85-68-7	Butylbenzylphthalate	160000	U
91-94-1	3,3'-Dichlorobenzidine	160000	UJ
56-55-3	Benzo(a)Anthracene	160000	U
218-01-9	Chrysene	160000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	160000	U
117-84-0	Di-n-Octyl Phthalate	160000	UJ
205-99-2	Benzo(b)Fluoranthene	160000	U
207-08-9	Benzo(k)Fluoranthene	160000	U
50-32-8	Benzo(a)Pyrene	160000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	160000	U
53-70-3	Dibenz(a,h)Anthracene	160000	U
191-24-2	Benzo(g,h,i)Perylene	160000	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X502

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: D453654

Sample wt/vol: 1.3 (g/mL) G Lab File ID: C0323E10

Level: (low/med) MED Date Received: 03/18/94

% Moisture: 6 decanted: (Y/N) N Date Extracted: 03/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/23/94

Injection Volume: 2.0(uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y pH: 11.8

Number TICs found: 27

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN PCB	26.32	2500000	J
2.	UNKNOWN PCB	26.39	3600000	J
3.	UNKNOWN PCB	26.49	3100000	J
4.	UNKNOWN PCB	26.87	6000000	J
5.	UNKNOWN PCB	26.94	1000000	J
6.	UNKNOWN PCB	27.54	1700000	J
7.	UNKNOWN PCB	27.76	4400000	J
8.	UNKNOWN PCB	27.99	1100000	J
9.	UNKNOWN PCB	28.27	10000000	J
10.	UNKNOWN PCB	28.71	5500000	J
11.	UNKNOWN PCB	28.86	9400000	J
12.	UNKNOWN PCB	28.97	930000	J
13.	UNKNOWN PCB	29.31	14000000	J
14.	UNKNOWN PCB	29.62	2300000	J
15.	UNKNOWN PCB	29.72	2100000	J
16.	UNKNOWN PCB	29.87	5300000	J
17.	UNKNOWN PCB	30.12	4600000	J
18.	UNKNOWN PCB	30.37	6300000	J
19.	UNKNOWN PCB	30.74	24000000	J
20.	UNKNOWN PCB	31.36	7200000	J
21.	UNKNOWN PCB	31.51	24000000	J
22.	UNKNOWN PCB	31.64	4700000	J
23.	UNKNOWN PCB	31.81	8800000	J
24.	UNKNOWN PCB	32.12	4100000	J
25.	UNKNOWN PCB	33.26	27000000	J
26.	UNKNOWN PCB	33.37	1700000	J
27.	UNKNOWN PCB	34.46	9500000	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X502

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: 53654DDD

Sample wt/vol: 30.4 (g/mL) G Lab File ID: _____

% Moisture: 6 decanted: (Y/N) N Date Received: 03/18/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/21/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/05/94

Injection Volume: 1.00 (uL) Dilution Factor: 1400

GPC Cleanup: (Y/N) Y pH: 11.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2500	U
319-85-7	beta-BHC	2500	U
319-86-8	delta-BHC	2500	U
58-89-9	gamma-BHC (Lindane)	2500	U
76-44-8	Heptachlor	2500	U
309-00-2	Aldrin	2500	U
1024-57-3	Heptachlor epoxide	2500	U
959-98-8	Endosulfan I	2500	U
60-57-1	Dieldrin	250000 ~~72000~~	~~P~~UX
72-55-9	4,4'-DDE	4900	U
72-20-8	Endrin	4900	U
33213-65-9	Endosulfan II	4900	U
50-29-3	4,4'-DDD	490000 ~~25000~~	~~P~~UX
1031-07-8	Endosulfan sulfate	4900	U
50-29-3	4,4'-DDT	4900	U
72-43-5	Methoxychlor	25000	U
53494-70-5	Endrin ketone	4900	U
7421-36-3	Endrin aldehyde	4900	U
5103-71-9	alpha-Chlordane	2500	U
5103-74-2	gamma-Chlordane	250000 ~~61000~~	~~P~~UX
8001-35-2	Toxaphene	250000	U
12674-11-2	Aroclor-1016	49000	U
11104-28-2	Aroclor-1221	98000	U
11141-16-5	Aroclor-1232	49000	U
53469-21-9	Aroclor-1242	7400000	PC
12672-29-6	Aroclor-1248	49000	U
11097-69-1	Aroclor-1254	49000	U
11096-82-5	Aroclor-1260	44000000	BC

04/28/94 gts

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X502DL

Lab Name: ILLINOIS EPA Contract: 1631210001

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: 453639

Matrix: (soil/water) SOIL Lab Sample ID: 654DDDDD

Sample wt/vol: 30.4 (g/mL) G Lab File ID: _____

% Moisture: 6 decanted: (Y/N) N Date Received: 03/18/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/21/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/12/94

Injection Volume: 1.00 (uL) Dilution Factor: 140000

GPC Cleanup: (Y/N) Y pH: 11.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	250000	U
319-85-7	beta-BHC	250000	U
319-86-8	delta-BHC	250000	U
58-89-9	gamma-BHC (Lindane)	250000	U
76-44-8	Heptachlor	250000	U
309-00-2	Aldrin	250000	U
1024-57-3	Heptachlor epoxide	250000	U
959-98-8	Endosulfan I	250000	U
60-57-1	Dieldrin	25000000 ~~69000~~	~~JPD~~ UX
72-55-9	4,4'-DDE	490000	U
72-20-8	Endrin	490000	U
33213-65-9	Endosulfan II	490000	U
50-29-3	4,4'-DDD	490000	U
1031-07-8	Endosulfan sulfate	490000	U
50-29-3	4,4'-DDT	490000	U
72-43-5	Methoxychlor	2500000	U
53494-70-5	Endrin ketone	49000000 ~~230000~~	~~JPD~~ UX
7421-36-3	Endrin aldehyde	490000	U
5103-71-9	alpha-Chlordane	250000	U
5103-74-2	gamma-Chlordane	25000000 ~~69000~~	~~JPD~~ UX
8001-35-2	Toxaphene	25000000	U
12674-11-2	Aroclor-1016	4900000	U
11104-28-2	Aroclor-1221	9800000	U
11141-16-5	Aroclor-1232	4900000	U
53469-21-9	Aroclor-1242	9800000	PDC
12672-29-6	Aroclor-1248	4900000	U
11097-69-1	Aroclor-1254	4900000	U
11096-82-5	Aroclor-1260	61000000	~~B~~DC

04/28/94 EJB

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X502

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: SAUGET SITES AREA 2

Lab Code: Case No.: SAS No.: SDG No.: 104

Matrix (Soil): Lab Sample ID: B403637

Level (Low/Med): Date Received: 3/18/94

% Solids: 94.0

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	228			P	
7440-36-0	Antimony	10.1	U	N	P	J
7440-38-2	Arsenic	0.23	U		FM	J
7440-39-3	Barium	4.0	B		P	
7440-41-7	Beryllium	0.20	U		P	
7440-43-9	Cadmium	0.60	U		P	
7440-70-2	Calcium	71600			P	
7440-47-3	Chromium	6.5			P	
7440-48-4	Cobalt	2.4	U		P	
7440-50-8	Copper	7.5			P	
7439-89-6	Iron	76100			P	
7439-92-1	Lead	11.5			FM	
7439-95-4	Magnesium	607	B		P	
7439-96-5	Manganese	50.6			P	
7439-97-6	Mercury	0.03	U		AV	
7440-02-2	Nickel	17.8			P	
7440-09-7	Potassium	239	U		P	
7782-49-2	Selenium	0.23	U	W,N	FM	R
7440-22-4	Silver	0.80	U		P	
7440-23-5	Sodium	26.8	U		P	
7440-28-0	Thallium	0.23	U	W	FM	J
7440-62-2	Vanadium	2.0	B		P	
7440-66-6	Zinc	33.6			P	
	Cyanide	0.89	U		AS	
					AS	

Color Before: Brown Clarity Before: Opaque Texture: Course

Color After: Green Clarity After: Clear Artifacts:

Comments: