State of Illinois
ENVIRONMENTAL PROTECTION AGENCY

Mary A. Gade, Director

2200 Churchill Road, Springfield, IL 62794-9276

I.1
2/19/97
158802

217/785-3912

Refer to: L1630200005 -- St. Clair County
Sauget Sites (Area 2) -- Sauget
Superfund/Technical Reports

February 19, 1997

Mr. David Webb
Illinois Department of Public Health
22 Kettle River Road
Edwardsville, Illinois 62025

Dear David:

Attached, please find the analytical results for the sampling event IEPA carried out at "Site S" on March 22, 1995. Site S shows up as a low-lying feature on the topographic map and was called to our attention after an aerial photo from the early 1970s showed what appeared to be a drum disposal area. The analytical data indicates that the wastes are probably still-bottom materials as opposed to the "indigenous" waste types we are familiar with at the Sauget Sites.

Sampling was performed by hand auger in areas screened by a magnetometer that were thought to contain buried drums. Sampling depths ranged from 0 to 5 feet below ground. Although widespread subsurface contamination was identified, surface leachate seeps were present at the southern portion of the site. The total depth of contamination was not determined, nor were the disposal boundaries. The background sample (X101) was taken south of the American Bottoms WWTP. Access to non-background sampling areas (including the X105 and X106 locations)is restricted. The WWTP manager had indicated to me that no plant activities occur in the X105 and X106 areas. He did mention, however that they keep the grass cut in the X103/X104 areas.

As there is a presence of significant contamination at the ground surface (e.g. the vinyl chloride and PCBs), I would like to schedule a site visit with you sometime late next month. It would be a good idea if we could informally discuss the potential risks of exposures to these contaminants with the plant manager at that time.

Please let me know what your thoughts are on this and what your availability might be for this meeting.

Sincerely,

Paul E. Takács, Project Manager
Federal Sites Management Unit
Division of Remediation Management
Bureau of Land

Attachments - Site S Analytical Results/Sample Map

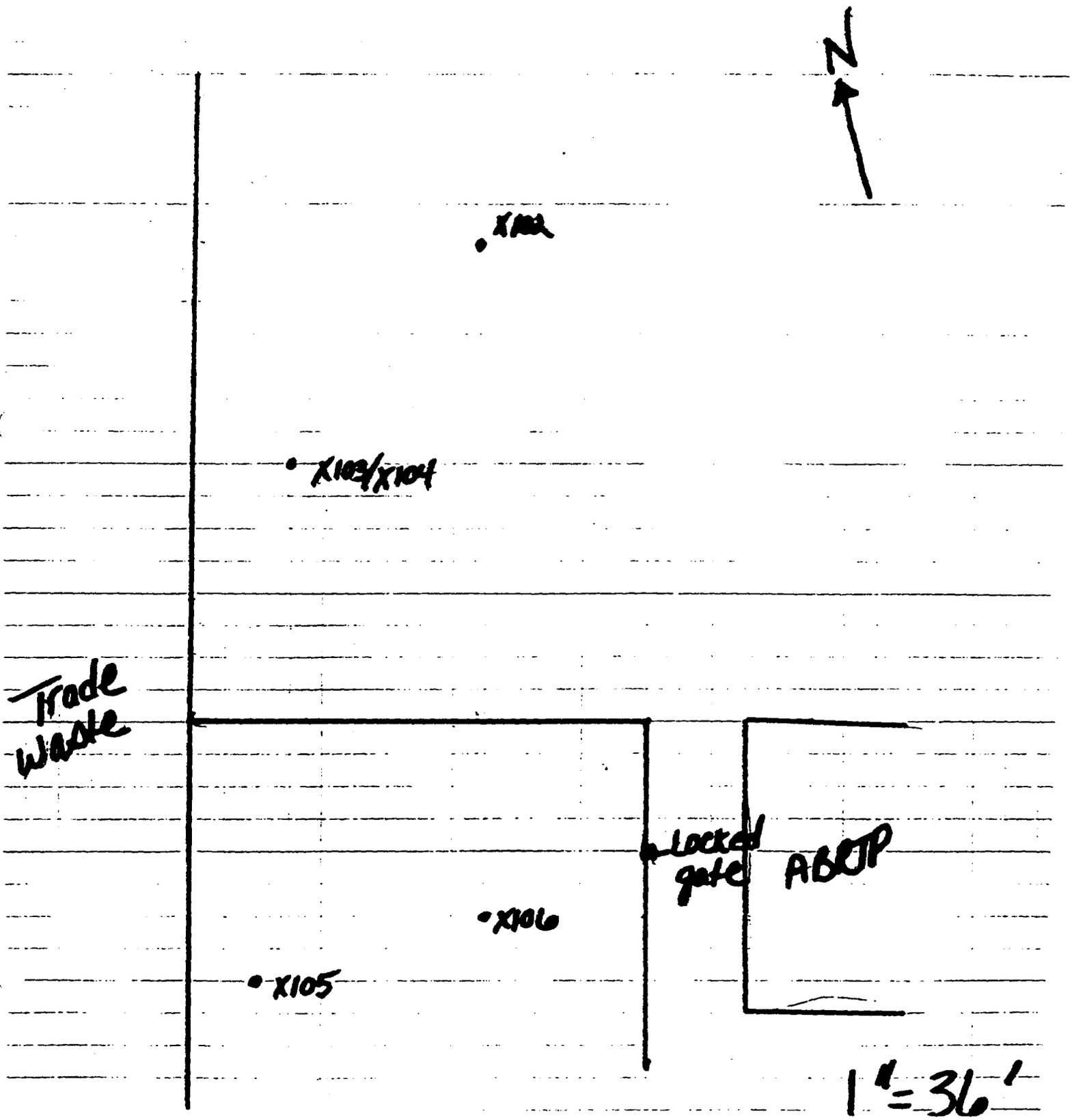
cc: Terry Ayers (w/o attachments)
Division File (w/o attachments)

SCREENED
M M

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY

L 532-0357
ADM 39
054-002

Subject Sunset Site 5
Data Sampling Map - 3/22/95
Reviewed by K. Hubbert Date



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579637

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0328LC04

Level: (low/med) LOW Date Received: 03/23/95

% Moisture: not dec. 12 Date Analyzed: 03/28/95

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	45	~~B~~ U
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	7	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	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579637

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0328LC04

Level: (low/med) LOW Date Received: 03/23/95

% Moisture: not dec. 12 Date Analyzed: 03/28/95

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.

X101

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579637

Sample wt/vol: 30.10 (g/mL) G Lab File ID: B0411E05

Level: (low/med) LOW Date Received: 03/23/95

% Moisture: 12 decanted: (Y/N) N Date Extracted: 03/27/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/11/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	370	U
111-44-4	bis(2-Chloroethyl)Ether	370	U
95-57-8	2-Chlorophenol	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
95-50-1	1,2-Dichlorobenzene	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	2,2'-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-Di-n-Propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
111-91-1	bis(2-Chloroethoxy)Methane	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	UJ
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-Methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	910	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	910	UJ
131-11-3	Dimethylphthalate	370	U
208-96-8	Acenaphthylene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
99-09-2	3-Nitroaniline	910	UJ
83-32-9	Acenaphthene	370	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579637

Sample wt/vol: 30.10 (g/mL) G Lab File ID: B0411E05

Level: (low/med) LOW Date Received: 03/23/95

% Moisture: 12 decanted: (Y/N) N Date Extracted: 03/27/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/11/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	910	UJ
100-02-7	4-Nitrophenol	910	UR
132-64-9	Dibenzofuran	370	U
121-14-2	2,4-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
86-73-7	Fluorene	370	U
100-10-6	4-Nitroaniline	910	UR
534-52-1	4,6-Dinitro-2-methylphenol	910	U
86-30-6	N-Nitrosodiphenylamine (1)	370	UJ
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	910	UJ
85-01-8	Phenanthrene	370	U
120-12-7	Anthracene	370	U
86-74-8	Carbazole	370	U
84-74-2	Di-n-Butylphthalate	370 ~~290~~	J
206-44-0	Fluoranthene	370	U
129-00-0	Pyrene	370	U
85-68-7	Butylbenzylphthalate	370	UJ
91-94-1	3,3'-Dichlorobenzidine	370	UJ
56-55-3	Benzo(a)Anthracene	370	U
218-01-9	Chrysene	370	U
117-81-7	bis(2-Ethylhexyl)Phthalate	370	UJ
117-84-0	Di-n-Octyl Phthalate	370	UJ
205-99-2	Benzo(b)Fluoranthene	370	U
207-08-9	Benzo(k)Fluoranthene	370	U
50-32-8	Benzo(a)Pyrene	370	U
193-39-5	Indeno(1,2,3-cd)Pyrene	370	UJ
53-70-3	Dibenz(a,h)Anthracene	370	UJ
191-24-2	Benzo(g,h,i)Perylene	370	UJ

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579637

Sample wt/vol: 30.10 (g/mL) G Lab File ID: B0411E05

Level: (low/med) LOW Date Received: 03/23/95

% Moisture: 12 decanted: (Y/N) N Date Extracted: 03/27/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/11/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 7

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	10.88	890	BJ
2.	UNK. C3-SUBSTITUTED BENZENE	12.72	97	J
3.	UNKNOWN	13.90	510	J
4.	UNKNOWN ALIP. ACID	27.55	200	BJ
5.	UNKNOWN ALIP. HYDROCARBON	33.20	650	J
6.	UNKNOWN ALIP. HYDROCARBON	35.25	430	J
7.	UNKNOWN ALIP. HYDROCARBON	41.93	1800	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579637

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

% Moisture: 12 decanted: (Y/N) N Date Received: 03/23/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/28/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/11/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	0.10	JP
72-55-9	4,4'-DDE	3.7	U
72-20-8	Endrin	0.90	JP
33213-65-9	Endosulfan II	3.7	U
50-29-3	4,4'-DDD	1.0	JP
1031-07-8	Endosulfan sulfate	0.77	JP
50-29-3	4,4'-DDT	2.6	JP
72-43-5	Methoxychlor	19	U
53494-70-5	Endrin ketone	3.7	U
7421-36-3	Endrin aldehyde	3.7	U
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	0.24	JP
8001-35-2	Toxaphene	190	U
12674-11-2	Aroclor-1016	37	U
11104-28-2	Aroclor-1221	76	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	16	JP
11097-69-1	Aroclor-1254	37	U
11096-82-5	Aroclor-1260	27	J

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: SAUGET SITE S

Lab Code: Case No.: SAS No.: SDG No.: 125

Matrix (Soil): Lab Sample ID: B503512

Level (Low/Med): Date Received: 03/24/95

% Solids: 89.4

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	6420			P	
7440-36-0	Antimony	7.6	U	N	P	J
7440-38-2	Arsenic	4.3			FM	
7440-39-3	Barium	150			P	
7440-41-7	Beryllium	0.47	B		P	
7440-43-9	Cadmium	2.1			P	J
7440-70-2	Calcium	15400			P	
7440-47-3	Chromium	11.4			P	
7440-48-4	Cobalt	7.3	B		P	
7440-50-8	Copper	11.4			P	
7439-89-6	Iron	12300			P	
7439-92-1	Lead	13.4			FM	
7439-95-4	Magnesium	5670			P	
7439-96-5	Manganese	305			P	
7439-97-6	Mercury	0.03	U		AV	
7440-02-2	Nickel	18.9			P	
7440-09-7	Potassium	1350			P	
7782-49-2	Selenium	1.1	U	W,N	FM	J
7440-22-4	Silver	1.3	U		P	
7440-23-5	Sodium	118	B		P	
7440-28-0	Thallium	0.22	U		FM	
7440-62-2	Vanadium	20.6			P	
7440-66-6	Zinc	79.7			P	
	Cyanide	0.56	U		CA	
					AS	

Color Before: BROWN Clarity Before: OPAQUE Texture: MEDIUM

Color After: BROWN Clarity After: OPAQUE Artifacts:

Comments:

FORM I - IN

SOIL

ILM03.0

03/95

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579638

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0324LC10

Level: (low/med) LOW Date Received: 03/23/95

% Moisture: not dec. 15 Date Analyzed: 03/24/95

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	UJ
75-09-2	Methylene Chloride	43	~~B~~ C
67-64-1	Acetone	25	~~B~~ C
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	4	J
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	4	J
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	3	J

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579638

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0324LC10

Level: (low/med) LOW Date Received: 03/23/95

% Moisture: not dec. 15 Date Analyzed: 03/24/95

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: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579638

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B0411E10

Level: (low/med) LOW Date Received: 03/23/95

% Moisture: 15 decanted: (Y/N) N Date Extracted: 03/27/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/12/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	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	340	J
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	82	J
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	940	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	940	UJ
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	940	UJ
83-32-9	Acenaphthene	390	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579638

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B0411E10

Level: (low/med) LOW Date Received: 03/23/95

% Moisture: 15 decanted: (Y/N) N Date Extracted: 03/27/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/12/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	940	UJ
100-02-7	4-Nitrophenol	940	U~~J~~R
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	940	UR
534-52-1	4,6-Dinitro-2-methylphenol	940	U
86-30-6	N-Nitrosodiphenylamine (1)	390	UJ
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	940	UJ
85-01-8	Phenanthrene	110	J
120-12-7	Anthracene	390	U
86-74-8	Carbazole	390	U
84-74-2	Di-n-Butylphthalate	1900	~~B~~U
206-44-0	Fluoranthene	170	J
129-00-0	Pyrene	230	J
85-68-7	Butylbenzylphthalate	760	J
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	12000	EJ
117-84-0	Di-n-Octyl Phthalate	390	UJ
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	UJ
53-70-3	Dibenz(a,h)Anthracene	390	UJ
191-24-2	Benzo(g,h,i)Perylene	390	UJ

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579638

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B0411E10

Level: (low/med) LOW Date Received: 03/23/95

% Moisture: 15 decanted: (Y/N) N Date Extracted: 03/27/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/12/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	29.73	1900	J
2.	UNKNOWN	29.87	130	J
3.	UNKNOWN PCB	30.00	630	J
4.	UNKNOWN PCB	30.65	360	J
5.	UNKNOWN	30.73	1200	J
6.	UNKNOWN PCB	30.88	650	J
7.	UNKNOWN	31.22	1100	J
8.	UNKNOWN	31.42	620	J
9.	UNKNOWN	31.62	920	J
10.	UNKNOWN PNA	31.90	710	J
11.	UNKNOWN	31.95	560	J
12.	UNKNOWN	32.07	1200	J
13.	UNKNOWN	32.28	1200	J
14.	UNKNOWN	32.60	710	J
15.	UNKNOWN	32.93	1500	J
16.	UNKNOWN	33.05	170	J
17.	UNKNOWN ALIP. HYDROCARBON	33.27	2500	J
18.	UNKNOWN PHTHALATE	33.83	6500	J
19.	UNKNOWN	34.23	1500	J
20.	UNKNOWN	34.42	590	J
21.	UNKNOWN	34.70	390	J
22.	UNKNOWN	34.78	22000	J
23.	UNKNOWN PHTHALATE	35.05	2100	J
24.	UNKNOWN	35.32	5200	J
25.	UNKNOWN	35.50	540	J
26.	UNKNOWN	35.67	1300	J
27.	UNKNOWN	35.78	650	J
28.	UNKNOWN	36.05	830	J
29.	UNKNOWN	37.02	1700	J
30.	UNKNOWN	37.80	14000	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102DL

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579638

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B0413E08

Level: (low/med) LOW Date Received: 03/23/95

% Moisture: 15 decanted: (Y/N) N Date Extracted: 03/27/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/14/95

Injection Volume: 2.0 (uL) Dilution Factor: 8.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	3100	U
111-44-4	bis(2-Chloroethyl)Ether	3100	U
95-57-8	2-Chlorophenol	3100	U
541-73-1	1,3-Dichlorobenzene	3100	U
106-46-7	1,4-Dichlorobenzene	3100	U
95-50-1	1,2-Dichlorobenzene	3100	U
95-48-7	2-Methylphenol	3100	U
108-60-1	2,2'-oxybis(1-Chloropropane)	3100	U
106-44-5	4-Methylphenol	3100	U
621-64-7	N-Nitroso-Di-n-Propylamine	3100	U
67-72-1	Hexachloroethane	3100	U
98-95-3	Nitrobenzene	3100	U
78-59-1	Isophorone	3100	U
88-75-5	2-Nitrophenol	3100	U
105-67-9	2,4-Dimethylphenol	3100	U
111-91-1	bis(2-Chloroethoxy)Methane	3100	U
120-83-2	2,4-Dichlorophenol	3100	U
120-82-1	1,2,4-Trichlorobenzene	3100	U
91-20-3	Naphthalene	3100	U
106-47-8	4-Chloroaniline	3100	U J
87-68-3	Hexachlorobutadiene	3100	U
59-50-7	4-Chloro-3-Methylphenol	3100	U
91-57-6	2-Methylnaphthalene	3100	U
77-47-4	Hexachlorocyclopentadiene	3100	U
88-06-2	2,4,6-Trichlorophenol	3100	U
95-95-4	2,4,5-Trichlorophenol	7500	U
91-58-7	2-Chloronaphthalene	3100	U
88-74-4	2-Nitroaniline	7500	U
131-11-3	Dimethylphthalate	3100	U
208-96-8	Acenaphthylene	3100	U
606-20-2	2,6-Dinitrotoluene	3100	U
99-09-2	3-Nitroaniline	7500	U J
83-32-9	Acenaphthene	3100	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102DL

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579638

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B0413E08

Level: (low/med) LOW Date Received: 03/23/95

% Moisture: 15 decanted: (Y/N) N Date Extracted: 03/27/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/14/95

Injection Volume: 2.0 (uL) Dilution Factor: 8.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	7500	UJ
100-02-7	4-Nitrophenol	7500	UR
132-64-9	Dibenzofuran	3100	U
121-14-2	2,4-Dinitrotoluene	3100	U
84-66-2	Diethylphthalate	3100	U
7005-72-3	4-Chlorophenyl-phenylether	3100	U
86-73-7	Fluorene	3100	U
100-10-6	4-Nitroaniline	7500	UR
534-52-1	4,6-Dinitro-2-methylphenol	7500	U
86-30-6	N-Nitrosodiphenylamine (1)	3100	UJ
101-55-3	4-Bromophenyl-phenylether	3100	U
118-74-1	Hexachlorobenzene	3100	U
87-86-5	Pentachlorophenol	7500	UJ
85-01-8	Phenanthrene	3100	U
120-12-7	Anthracene	3100	U
86-74-8	Carbazole	3100	U
84-74-2	Di-n-Butylphthalate	3100 ~~1300~~	~~R~~JU
206-44-0	Fluoranthene	3100	U
129-00-0	Pyrene	3100	UJ
85-68-7	Butylbenzylphthalate	3100	UJ
91-94-1	3,3'-Dichlorobenzidine	3100	UJ
56-55-3	Benzo(a)Anthracene	3100	U
218-01-9	Chrysene	3100	U
117-81-7	bis(2-Ethylhexyl)Phthalate	19000	J
117-84-0	Di-n-Octyl Phthalate	3100	UJ
205-99-2	Benzo(b)Fluoranthene	3100	U
207-08-9	Benzo(k)Fluoranthene	3100	U
50-32-8	Benzo(a)Pyrene	3100	U
193-39-5	Indeno(1,2,3-cd)Pyrene	3100	UJ
53-70-3	Dibenz(a,h)Anthracene	3100	UJ
191-24-2	Benzo(g,h,i)Perylene	3100	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X102DL

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579638

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B0413E08

Level: (low/med) LOW Date Received: 03/23/95

% Moisture: 15 decanted: (Y/N) N Date Extracted: 03/27/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/14/95

Injection Volume: 2.0(uL) Dilution Factor: 8.0

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

Number TICs found: 4

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. ACID ESTER	23.62	4800	J
2.	UNKNOWN	29.67	1300	J
3.	UNKNOWN	34.67	14000	J
4.	UNKNOWN	37.68	8900	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579638

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

% Moisture: 15 decanted: (Y/N) N Date Received: 03/23/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/28/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/17/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	11	P
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	8.1	P
60-57-1	Dieldrin	3.9	U
72-55-9	4,4'-DDE	3.9	U
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	3.9	U
50-29-3	4,4'-DDD	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	3.9	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.9	U
7421-36-3	Endrin aldehyde	3.9	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	31	P
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	1300	
11097-69-1	Aroclor-1254	3300	
11096-82-5	Aroclor-1260	1900	P

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102DL

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579638D

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

% Moisture: 15 decanted: (Y/N) N Date Received: 03/23/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/28/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/14/95

Injection Volume: 1.00 (uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	20	U
319-85-7	beta-BHC	14	JPD
319-86-8	delta-BHC	20	U
58-89-9	gamma-BHC (Lindane)	20	U
76-44-8	Heptachlor	20	U
309-00-2	Aldrin	20	U
1024-57-3	Heptachlor epoxide	20	U
959-98-8	Endosulfan I	20	U
60-57-1	Dieldrin	39	U
72-55-9	4,4'-DDE	39	U
72-20-8	Endrin	39	U
33213-65-9	Endosulfan II	39	U
50-29-3	4,4'-DDD	39	U
1031-07-8	Endosulfan sulfate	39	U
50-29-3	4,4'-DDT	39	U
72-43-5	Methoxychlor	200	U
53494-70-5	Endrin ketone	39	U
7421-36-3	Endrin aldehyde	39	U
5103-71-9	alpha-Chlordane	20	U
5103-74-2	gamma-Chlordane	44	PD
8001-35-2	Toxaphene	2000	U
12674-11-2	Aroclor-1016	390	U
11104-28-2	Aroclor-1221	790	U
11141-16-5	Aroclor-1232	390	U
53469-21-9	Aroclor-1242	390	U
12672-29-6	Aroclor-1248	1800	D
11097-69-1	Aroclor-1254	3800	D
11096-82-5	Aroclor-1260	1800	PD

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: SAUGET SITE S
Lab Code: Case No.: SAS No.: SDG No.: 125
Matrix (Soil): Lab Sample ID: B503513
Level (Low/Med): Date Received: 03/24/95
% Solids: 84.4

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6700			P
7440-36-0	Antimony	6.7	U	N	P J
7440-38-2	Arsenic	4.0			FM
7440-39-3	Barium	116			P
7440-41-7	Beryllium	0.41	B		P
7440-43-9	Cadmium	12.1			P
7440-70-2	Calcium	12500			P
7440-47-3	Chromium	56.9			P
7440-48-4	Cobalt	10.2			P
7440-50-8	Copper	31.8			P
7439-89-6	Iron	12000			P
7439-92-1	Lead	324			P
7439-95-4	Magnesium	5730			P
7439-96-5	Manganese	273			P
7439-97-6	Mercury	0.36			AV
7440-02-2	Nickel	17.7			P
7440-09-7	Potassium	867	B		P
7782-49-2	Selenium	1.2	U	N	FM J
7440-22-4	Silver	1.2	U		P
7440-23-5	Sodium	102	B		P
7440-28-0	Thallium	0.24	U		FM
7440-62-2	Vanadium	22.4			P
7440-66-6	Zinc	327			P
	Cyanide	1.0			CA
					AS

Color Before: BROWN Clarity Before: OPAQUE Texture: MEDIUM
Color After: BROWN Clarity After: OPAQUE Artifacts:
Comments:

FORM I - IN
SOIL

ILM03.0
03/95

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579639

Sample wt/vol: 4.0 (g/mL) G Lab File ID: B0327LC08

Level: (low/med) MED Date Received: 03/23/95

% Moisture: not dec. 19 Date Analyzed: 03/27/95

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	1500	U
74-83-9	Bromomethane	1500	U
75-01-4	Vinyl Chloride	1500	U
75-00-3	Chloroethane	1500	U
75-09-2	Methylene Chloride	1500 ~~890~~	~~BJ~~ U
67-64-1	Acetone	1500	U
75-15-0	Carbon Disulfide	1500	U
75-35-4	1,1-Dichloroethene	1500	U
75-34-3	1,1-Dichloroethane	1500	U
540-59-0	1,2-Dichloroethene (total)	1500	U
67-66-3	Chloroform	1500	U
107-06-2	1,2-Dichloroethane	1500	U
78-93-3	2-Butanone	1500	U
71-55-6	1,1,1-Trichloroethane	1500	U
56-23-5	Carbon Tetrachloride	1500	U
75-27-4	Bromodichloromethane	1500	U
78-87-5	1,2-Dichloropropane	1500	U
10061-01-5	cis-1,3-Dichloropropene	1500	U
79-01-6	Trichloroethene	1500	U
124-48-1	Dibromochloromethane	1500	U
79-00-5	1,1,2-Trichloroethane	1500	U
71-43-2	Benzene	1500	U
10061-02-6	trans-1,3-Dichloropropene	1500	U
75-25-2	Bromoform	1500	U
108-10-1	4-Methyl-2-Pentanone	4800	
591-78-6	2-Hexanone	1500	U
127-18-4	Tetrachloroethene	1500	U
79-34-5	1,1,2,2-Tetrachloroethane	1500	U
108-88-3	Toluene	7800	
108-90-7	Chlorobenzene	1500	U
100-41-4	Ethylbenzene	4500	
100-42-5	Styrene	1500	U
1330-20-7	Xylene (total)	27000	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579639

Sample wt/vol: 4.0 (g/mL) G Lab File ID: B0327LC08

Level: (low/med) MED Date Received: 03/23/95

% Moisture: not dec. 19 Date Analyzed: 03/27/95

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: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. HYDROCARBON	17.09	1900	J
2.	UNKNOWN ALIP. HYDROCARBON	17.59	3600	J
3.	UNKNOWN ALIP. HYDROCARBON	17.80	2200	J
4.	UNKNOWN ALIP. HYDROCARBON	18.24	5500	J
5.	UNKNOWN	19.04	2100	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579639

Sample wt/vol: 1.00 (g/mL) G Lab File ID: B0413E07

Level: (low/med) MED Date Received: 03/23/95

% Moisture: 19 decanted: (Y/N) N Date Extracted: 03/31/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/14/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

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	10000	J
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	31000	U
91-58-7	2-Chloronaphthalene	12000	U
88-74-4	2-Nitroaniline	31000	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	31000	UJ
83-32-9	Acenaphthene	12000	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579639

Sample wt/vol: 1.00 (g/mL) G Lab File ID: B0413E07

Level: (low/med) MED Date Received: 03/23/95

% Moisture: 19 decanted: (Y/N) N Date Extracted: 03/31/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/14/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	31000	U J
100-02-7	4-Nitrophenol	31000	U ~~J~~ R
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	31000	U R
534-52-1	4,6-Dinitro-2-methylphenol	31000	U
86-30-6	N-Nitrosodiphenylamine (1)	12000	U J
101-55-3	4-Bromophenyl-phenylether	12000	U
118-74-1	Hexachlorobenzene	12000	U
87-86-5	Pentachlorophenol	31000	U J
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 J
85-68-7	Butylbenzylphthalate	4600	J
91-94-1	3,3'-Dichlorobenzidine	12000	U J
56-55-3	Benzo(a)Anthracene	12000	U
218-01-9	Chrysene	12000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	64000	J
117-84-0	Di-n-Octyl Phthalate	2700	J
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 J
53-70-3	Dibenz(a,h)Anthracene	12000	U J
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.

X103

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579639

Sample wt/vol: 1.00 (g/mL) G Lab File ID: B0413E07

Level: (low/med) MED Date Received: 03/23/95

% Moisture: 19 decanted: (Y/N) N Date Extracted: 03/31/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/14/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 29

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. HYDROCARBON	10.45	62000	J
2.	UNKNOWN ALIP. HYDROCARBON	11.27	52000	J
3.	UNKNOWN ALIP. HYDROCARBON	11.92	77000	J
4.	UNK. C3-SUBSTITUTED BENZENE	11.98	150000	J
5.	UNK. C3-SUBSTITUTED BENZENE	12.15	93000	J
6.	UNK. C3-SUBSTITUTED BNEZENE	12.40	54000	J
7.	UNKNOWN ALIP. HYDROCARBON	12.75	210000	J
8.	UNKNOWN ALIP. HYDROCARBON	13.23	99000	J
9.	UNK. C3-SUBSTITUTED BENZENE	13.37	94000	J
10.	UNKNOWN ALIP. HYDROCARBON	13.58	63000	J
11.	UNK. C4-SUBSTITUTED BENZENE	14.05	110000	J
12.	UNK. C4-SUBSTITUTED BENZENE	14.50	110000	J
13.	UNK. C4-SUBSTITUTED BENZENE	14.63	110000	J
14.	UNKNOWN ALIP. HYDROCARBON	14.78	250000	J
15.	UNK. C4-SUBSTITUTED BENZENE	15.08	30000	J
16.	UNK. C4-SUBSTITUTED BENZENE	15.27	64000	J
17.	UNK. C4-SUBSTITUTED BENZENE	15.35	93000	J
18.	UNKNOWN	15.58	32000	J
19.	UNKNOWN	15.90	16000	J
20.	UNKNOWN ALIP. HYDROCARBON	17.90	46000	J
21.	UNKNOWN ALIP. HYDROCARBON	18.37	95000	J
22.	UNKNOWN	19.23	36000	J
23.	UNKNOWN ALIP. HYDROCARBON	19.63	66000	J
24.	UNKNOWN ALIP. HYDROCARBON	19.98	160000	J
25.	UNKNOWN	20.73	11000	J
26.	UNKNOWN	20.80	12000	J
27.	UNKNOWN ALIP. HYDROCARBON	20.88	24000	J
28.	UNKNOWN ALIP. HYDROCARBON	20.93	95000	J
29.	UNKNOWN ALIP. HYDROCARBON	21.50	100000	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579639

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

% Moisture: 19 decanted: (Y/N) N Date Received: 03/23/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/28/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/14/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	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	1.4	JP
60-57-1	Dieldrin	4.8	P
72-55-9	4,4'-DDE	4.0	U
72-20-8	Endrin	24	P
33213-65-9	Endosulfan II	4.0	U
50-29-3	4,4'-DDD	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	4.0	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.0	U
7421-36-3	Endrin aldehyde	2.7	JP
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	1.5	JP
8001-35-2	Toxaphene	210	U
12674-11-2	Aroclor-1016	40	U
11104-28-2	Aroclor-1221	82	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	40	U
12672-29-6	Aroclor-1248	420	
11097-69-1	Aroclor-1254	230	
11096-82-5	Aroclor-1260	160	

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: SAUGET SITE S
Lab Code: Case No.: SAS No.: SDG No.: 125
Matrix (Soil): Lab Sample ID: B503514
Level (Low/Med): Date Received: 03/24/95
% Solids: 84.0

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8540			P
7440-36-0	Antimony	6.4	U	N	P
7440-38-2	Arsenic	5.1			FM
7440-39-3	Barium	179			P
7440-41-7	Beryllium	0.68	B		P
7440-43-9	Cadmium	1.5			P
7440-70-2	Calcium	10500			P
7440-47-3	Chromium	15.3			P
7440-48-4	Cobalt	7.1	B		P
7440-50-8	Copper	20.7			P
7439-89-6	Iron	16800			P
7439-92-1	Lead	44.0			FM
7439-95-4	Magnesium	4570			P
7439-96-5	Manganese	312			P
7439-97-6	Mercury	0.05	B		AV
7440-02-2	Nickel	18.6			P
7440-09-7	Potassium	1400			P
7782-49-2	Selenium	1.2	U	W,N	FM
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	183	B		P
7440-28-0	Thallium	0.24	U		FM
7440-62-2	Vanadium	23.1			P
7440-66-6	Zinc	109			P
	Cyanide	0.59	U		CA
					AS

Color Before: BLACK Clarity Before: OPAQUE Texture: MEDIUM
Color After: YELLOW Clarity After: CLEAR Artifacts:
Comments:

1A

)LATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

:NOIS EPA Contract: 1630200024

,D Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

'water) SOIL Lab Sample ID: D579640

4.1 (g/mL) G Lab File ID: B0327LC10

'/med) MED Date Received: 03/23/95

t dec. 17 Date Analyzed: 03/27/95

624 ID: 0.530 (mm) Dilution Factor: 1.0

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

COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------Chloromethane	1400	U
---------Bromomethane	1400	U
---------Vinyl Chloride	1400	U
---------Chloroethane	1400	U
---------Methylene Chloride	1400 ~~520~~	~~B~~ J U
---------Acetone	1400	U
---------Carbon Disulfide	1400	U
---------1,1-Dichloroethene	1400	U
---------1,1-Dichloroethane	1400	U
0---------1,2-Dichloroethene (total)	1400	U
---------Chloroform	1400	U
2---------1,2-Dichloroethane	1400	U
---------2-Butanone	1400	U
---------1,1,1-Trichloroethane	1400	U
---------Carbon Tetrachloride	1400	U
---------Bromodichloromethane	1400	U
---------1,2-Dichloropropane	1400	U
1-5------cis-1,3-Dichloropropene	1400	U
---------Trichloroethene	1400	U
1---------Dibromochloromethane	1400	U
---------1,1,2-Trichloroethane	1400	U
---------Benzene	1400	U
2-6------trans-1,3-Dichloropropene	1400	U
---------Bromoform	1400	U
1---------4-Methyl-2-Pentanone	4500	
5---------2-Hexanone	1400	U
1---------Tetrachloroethene	1400	U
---------1,1,2,2-Tetrachloroethane	1400	U
3---------Toluene	8100	
7---------Chlorobenzene	1400	U
1---------Ethylbenzene	3300	
5---------Styrene	1400	U
-7--------Xylene (total)	21000	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X104

.me: ILLINOIS EPA Contract: 1630200024

›de: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

:: (soil/water) SOIL Lab Sample ID: D579640

: wt/vol: 4.1 (g/mL) G Lab File ID: B0327LC10

: (low/med) MED Date Received: 03/23/95

sture: not dec. 17 Date Analyzed: 03/27/95

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

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

er TICs found: 3

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

NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN ALIP. HYDROCARBON	17.60	1700	J
	UNKNOWN ALIP. HYDROCARBON	17.82	1100	J
	UNKNOWN	19.04	950	J

1B

,E ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

'A Contract: 1630200024

:ase No.: SAUGE2 SAS No.: _____ SDG No.: 579637

SOIL Lab Sample ID: D579640

1.00 (g/mL) G Lab File ID: B0418E10

MED Date Received: 03/23/95

decanted: (Y/N) N Date Extracted: 03/31/95

Volume: 500.0 (uL) Date Analyzed: 04/19/95

2.0(uL) Dilution Factor: 1.0

Y pH: 7.3

COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
--Phenol	12000	U
--bis(2-Chloroethyl)Ether	12000	U
--2-Chlorophenol	12000	U
--1,3-Dichlorobenzene	12000	U
--1,4-Dichlorobenzene	12000	U
--1,2-Dichlorobenzene	12000	U
--2-Methylphenol	12000	U
--2,2'-oxybis(1-Chloropropane)	12000	U
--4-Methylphenol	12000	U
--N-Nitroso-Di-n-Propylamine	12000	U
--Hexachloroethane	12000	U
--Nitrobenzene	12000	U
--Isophorone	12000	U
--2-Nitrophenol	12000	U
--2,4-Dimethylphenol	12000	U
--bis(2-Chloroethoxy)Methane	12000	U
--2,4-Dichlorophenol	12000	U
--1,2,4-Trichlorobenzene	12000	U
--Naphthalene	3600	J
--4-Chloroaniline	12000	U J
--Hexachlorobutadiene	12000	U
--4-Chloro-3-Methylphenol	12000	U
--2-Methylnaphthalene	12000	U
--Hexachlorocyclopentadiene	12000	U
--2,4,6-Trichlorophenol	12000	U
--2,4,5-Trichlorophenol	30000	U
--2-Chloronaphthalene	12000	U
--2-Nitroaniline	30000	U
--Dimethylphthalate	12000	U
--Acenaphthylene	12000	U
--2,6-Dinitrotoluene	12000	U
--3-Nitroaniline	30000	U J
--Acenaphthene	12000	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579640

Sample wt/vol: 1.00 (g/mL) G Lab File ID: B0418E10

Level: (low/med) MED Date Received: 03/23/95

% Moisture: 17 decanted: (Y/N) N Date Extracted: 03/31/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/19/95

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	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	J
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.

X104

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579640

Sample wt/vol: 1.00 (g/mL) G Lab File ID: B0418E10

Level: (low/med) MED Date Received: 03/23/95

% Moisture: 17 decanted: (Y/N) N Date Extracted: 03/31/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/19/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 29

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. HYDROCARBON	10.45	7900	J
2.	UNKNOWN	11.25	8500	J
3.	UNKNOWN ALIP. HYDROCARBON	11.43	5700	J
4.	UNKNOWN ALIP. HYDROCARBON	11.75	4800	J
5.	UNKNOWN ALIP. HYDROCARBON	11.88	12000	J
6.	UNK. C3-SUBSTITUTED BENZENE	11.97	22000	J
7.	UNK. C3-SUBSTITUTED BENZENE	12.12	15000	J
8.	UNK. C3-SUBSTITUTED BENZENE	12.38	7600	J
9.	UNKNOWN ALIP. HYDROCARBON	12.73	33000	J
10.	UNKNOWN ALIP. HYDROCARBON	13.20	14000	J
11.	UNK. C3-SUBSTITUTED BENZENE	13.33	15000	J
12.	UNKNOWN ALIP. HYDROCARBON	13.57	11000	J
13.	UNK. C4-SUBSTITUTED BENZENE	13.92	12000	J
14.	UNKNOWN	13.98	5900	J
15.	UNK. C4-SUBSTITUTED BENZENE	14.05	18000	J
16.	UNKNOWN ALIP. HYDROCARBON	14.20	4900	J
17.	UNK. C4-SUBSTITUTED BENZENE	14.62	19000	J
18.	UNKNOWN ALIP. HYDROCARBON	14.77	44000	J
19.	UNK. C4-SUBSTITUTED BENZENE	15.07	6100	J
20.	UNK. C4-SUBSTITUTED BENZENE	15.25	12000	J
21.	UNK. C4-SUBSTITUTED BENZENE	15.33	17000	J
22.	UNKNOWN	15.57	6300	J
23.	UNKNOWN ALIP. HYDROCARBON	17.90	11000	J
24.	UNKNOWN	19.23	7900	J
25.	UNKNOWN ALIP. HYDROCARBON	19.40	5000	J
26.	UNKNOWN ALIP. HYDROCARBON	19.97	32000	J
27.	UNKNOWN ALIP. HYDROCARBON	20.93	20000	J
28.	UNKNOWN ALIP. HYDROCARBON	21.48	23000	J
29.	UNKNOWN ALIP. HYDROCARBON	22.92	6800	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579640

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

% Moisture: 17 decanted: (Y/N) N Date Received: 03/23/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/28/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/14/95

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	2.0	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	0.44	JP
60-57-1	Dieldrin	0.90	JP
72-55-9	4,4'-DDE	4.0	U
72-20-8	Endrin	5.7	
33213-65-9	Endosulfan II	4.0	U
50-29-3	4,4'-DDD	1.8	JP
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	4.0	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	4.0	U
7421-36-3	Endrin aldehyde	4.0	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	0.35	JP
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	40	U
11104-28-2	Aroclor-1221	80	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	40	U
12672-29-6	Aroclor-1248	74	P
11097-69-1	Aroclor-1254	45	
11096-82-5	Aroclor-1260	56	P

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: SAUGET SITE S
Lab Code: Case No.: SAS No.: SDG No.: 125
Matrix (Soil): Lab Sample ID: B503515
Level (Low/Med): Date Received: 03/24/95
% Solids: 83.4

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9390			P
7440-36-0	Antimony	8.7	~~B~~ U	N	P J
7440-38-2	Arsenic	5.0			FM
7440-39-3	Barium	193			P
7440-41-7	Beryllium	0.62	B		P
7440-43-9	Cadmium	1.0			P J
7440-70-2	Calcium	10400			P
7440-47-3	Chromium	14.1 JC			P
7440-48-4	Cobalt	6.7 ~~7.0~~	B		P
7440-50-8	Copper	15.6			P
7439-89-6	Iron	15200			P
7439-92-1	Lead	30.2			FM
7439-95-4	Magnesium	5540			P
7439-96-5	Manganese	381			P
7439-97-6	Mercury	0.04	B		AV
7440-02-2	Nickel	18.3			P
7440-09-7	Potassium	1560			P
7782-49-2	Selenium	1.2	U	W,N	FM J
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	169	B		P
7440-28-0	Thallium	0.24	U		FM
7440-62-2	Vanadium	25.5			P
7440-66-6	Zinc	83.3			P
	Cyanide	0.60	U		CA
					AS

Color Before: BROWN Clarity Before: OPAQUE Texture: MEDIUM
Color After: YELLOW Clarity After: CLEAR Artifacts:
Comments:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579641

Sample wt/vol: 4.2 (g/mL) G Lab File ID: B0327LC04

Level: (low/med) MED Date Received: 03/23/95

% Moisture: not dec. 15 Date Analyzed: 03/27/95

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	1300	U
74-83-9	Bromomethane	1300	U
75-01-4	Vinyl Chloride	1400	
75-00-3	Chloroethane	1200	J
75-09-2	Methylene Chloride	1300 ~~760~~	~~B~~ J U
67-64-1	Acetone	1300	U
75-15-0	Carbon Disulfide	1300	U
75-35-4	1,1-Dichloroethene	1300	U
75-34-3	1,1-Dichloroethane	6500	
540-59-0	1,2-Dichloroethene (total)	310	J
67-66-3	Chloroform	550	J
107-06-2	1,2-Dichloroethane	1300	U
78-93-3	2-Butanone	1300	U
71-55-6	1,1,1-Trichloroethane	8100	
56-23-5	Carbon Tetrachloride	1300	U
75-27-4	Bromodichloromethane	1300	U
78-87-5	1,2-Dichloropropane	1300	U
10061-01-5	cis-1,3-Dichloropropene	1300	U
79-01-6	Trichloroethene	350	J
124-48-1	Dibromochloromethane	1300	U
79-00-5	1,1,2-Trichloroethane	1300	U
71-43-2	Benzene	1800	
10061-02-6	trans-1,3-Dichloropropene	1300	U
75-25-2	Bromoform	1300	U
108-10-1	4-Methyl-2-Pentanone	70000	E
591-78-6	2-Hexanone	1300	U
127-18-4	Tetrachloroethene	8600	
79-34-5	1,1,2,2-Tetrachloroethane	1300	U
108-88-3	Toluene	1300	U
108-90-7	Chlorobenzene	1300	U
100-41-4	Ethylbenzene	120000	E
100-42-5	Styrene	1300	U
1330-20-7	Xylene (total)	180000	E

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579641

Sample wt/vol: 4.2 (g/mL) G Lab File ID: B0327LC04

Level: (low/med) MED Date Received: 03/23/95

% Moisture: not dec. 15 Date Analyzed: 03/27/95

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: 10

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. HYDROCARBON	12.47	3400	J
2.	UNKNOWN ALIP. HYDROCARBON	13.47	5200	J
3.	UNKNOWN	14.70	2200	J
4.	UNKNOWN	15.57	140000	J
5.	UNKNOWN ALIP. HYDROCARBON	15.77	2200	J
6.	UNKNOWN ALIP. HYDROCARBON	15.95	2200	J
7.	UNKNOWN ALIP. HYDROCARBON	17.02	3900	J
8.	UNKNOWN	17.10	4300	J
9.	UNKNOWN ALIP. HYDROCARBON	17.60	6400	J
10.	UNKNOWN ALIP. HYDROCARBON	17.82	3600	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105DL

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579641DL

Sample wt/vol: 4.2 (g/mL) G Lab File ID: B0329LC08

Level: (low/med) MED Date Received: 03/23/95

% Moisture: not dec. 15 Date Analyzed: 03/29/95

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 50.0

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	67000	U
74-83-9	Bromomethane	67000	U
75-01-4	Vinyl Chloride	67000	U
75-00-3	Chloroethane	67000	U
75-09-2	Methylene Chloride	67000 ~~93000~~	~~B~~JU
67-64-1	Acetone	67000	U
75-15-0	Carbon Disulfide	67000	U
75-35-4	1,1-Dichloroethene	67000	U
75-34-3	1,1-Dichloroethane	67000	U
540-59-0	1,2-Dichloroethene (total)	67000	U
67-66-3	Chloroform	67000	U
107-06-2	1,2-Dichloroethane	67000	U
78-93-3	2-Butanone	67000	U
71-55-6	1,1,1-Trichloroethane	14000	J
56-23-5	Carbon Tetrachloride	67000	U
75-27-4	Bromodichloromethane	67000	U
78-87-5	1,2-Dichloropropane	67000	U
10061-01-5	cis-1,3-Dichloropropene	67000	U
79-01-6	Trichloroethene	67000	U
124-48-1	Dibromochloromethane	67000	U
79-00-5	1,1,2-Trichloroethane	67000	U
71-43-2	Benzene	67000	U
10061-02-6	trans-1,3-Dichloropropene	67000	U
75-25-2	Bromoform	67000	U
108-10-1	4-Methyl-2-Pentanone	93000	
591-78-6	2-Hexanone	67000	U
127-18-4	Tetrachloroethene	67000	U
79-34-5	1,1,2,2-Tetrachloroethane	67000	U
108-88-3	Toluene	990000	
108-90-7	Chlorobenzene	67000	U
100-41-4	Ethylbenzene	450000	
100-42-5	Styrene	67000	U
1330-20-7	Xylene (total)	620000	

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X105DL

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579641DL

Sample wt/vol: 4.2 (g/mL) G Lab File ID: B0329LC08

Level: (low/med) MED Date Received: 03/23/95

% Moisture: not dec. 15 Date Analyzed: 03/29/95

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 50.0

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

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. HYDROCARBON	12.35	7100	DJ
2.	UNKNOWN ALIP. HYDROCARBON	13.40	7800	DJ

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579641

Sample wt/vol: 1.00 (g/mL) G Lab File ID: B0413E10

Level: (low/med) MED Date Received: 03/23/95

% Moisture: 15 decanted: (Y/N) N Date Extracted: 03/31/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/14/95

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

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	120000	U
111-44-4	bis(2-Chloroethyl)Ether	120000	U
95-57-8	2-Chlorophenol	120000	U
541-73-1	1,3-Dichlorobenzene	120000	U
106-46-7	1,4-Dichlorobenzene	120000	U
95-50-1	1,2-Dichlorobenzene	120000	U
95-48-7	2-Methylphenol	120000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	120000	U
106-44-5	4-Methylphenol	120000	U
621-64-7	N-Nitroso-Di-n-Propylamine	120000	U
67-72-1	Hexachloroethane	120000	U
98-95-3	Nitrobenzene	120000	U
78-59-1	Isophorone	120000	U
88-75-5	2-Nitrophenol	120000	U
105-67-9	2,4-Dimethylphenol	120000	U
111-91-1	bis(2-Chloroethoxy)Methane	120000	U
120-83-2	2,4-Dichlorophenol	120000	U
120-82-1	1,2,4-Trichlorobenzene	120000	U
91-20-3	Naphthalene	200000	
106-47-8	4-Chloroaniline	120000	UJ
87-68-3	Hexachlorobutadiene	120000	U
59-50-7	4-Chloro-3-Methylphenol	120000	U
91-57-6	2-Methylnaphthalene	50000	J
77-47-4	Hexachlorocyclopentadiene	120000	U
88-06-2	2,4,6-Trichlorophenol	120000	U
95-95-4	2,4,5-Trichlorophenol	290000	U
91-58-7	2-Chloronaphthalene	120000	U
88-74-4	2-Nitroaniline	290000	U
131-11-3	Dimethylphthalate	120000	U
208-96-8	Acenaphthylene	120000	U
606-20-2	2,6-Dinitrotoluene	120000	U
99-09-2	3-Nitroaniline	290000	UJ
83-32-9	Acenaphthene	120000	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579641

Sample wt/vol: 1.00 (g/mL) G Lab File ID: B0413E10

Level: (low/med) MED Date Received: 03/23/95

% Moisture: 15 decanted: (Y/N) N Date Extracted: 03/31/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/14/95

Injection Volume: 2.0(uL) Dilution Factor: 10.0

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	290000	U J
100-02-7	4-Nitrophenol	290000	U R
132-64-9	Dibenzofuran	120000	U
121-14-2	2,4-Dinitrotoluene	120000	U
84-66-2	Diethylphthalate	120000	U
7005-72-3	4-Chlorophenyl-phenylether	120000	U
86-73-7	Fluorene	120000	U
100-10-6	4-Nitroaniline	290000	U R
534-52-1	4,6-Dinitro-2-methylphenol	290000	U
86-30-6	N-Nitrosodiphenylamine (1)	120000	U J
101-55-3	4-Bromophenyl-phenylether	120000	U
118-74-1	Hexachlorobenzene	120000	U
87-86-5	Pentachlorophenol	290000	U J
85-01-8	Phenanthrene	120000	U
120-12-7	Anthracene	120000	U
86-74-8	Carbazole	120000	U
84-74-2	Di-n-Butylphthalate	230000	
206-44-0	Fluoranthene	120000	U
129-00-0	Pyrene	120000	U J
85-68-7	Butylbenzylphthalate	37000	J
91-94-1	3,3'-Dichlorobenzidine	120000	U J
56-55-3	Benzo(a)Anthracene	120000	U
218-01-9	Chrysene	120000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	2800000	E J
117-84-0	Di-n-Octyl Phthalate	120000	U J
205-99-2	Benzo(b)Fluoranthene	120000	U
207-08-9	Benzo(k)Fluoranthene	120000	U
50-32-8	Benzo(a)Pyrene	120000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	120000	U J
53-70-3	Dibenz(a,h)Anthracene	120000	U J
191-24-2	Benzo(g,h,i)Perylene	120000	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: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579641

Sample wt/vol: 1.00 (g/mL) G Lab File ID: B0413E10

Level: (low/med) MED Date Received: 03/23/95

% Moisture: 15 decanted: (Y/N) N Date Extracted: 03/31/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/14/95

Injection Volume: 2.0(uL) Dilution Factor: 10.0

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 ALIP. HYDROCARBON	10.45	77000	J
2.	UNKNOWN ALIP. HYDROCARBON	11.90	99000	J
3.	UNK. C3-SUBSTITUTED BENZENE	11.98	180000	J
4.	UNKNOWN ALIP. KETONE	12.10	240000	J
5.	UNKNOWN ALIP. HYDROCARBON	12.73	320000	J
6.	UNKNOWN ALIP. HYDROCARBON	13.22	140000	J
7.	UNK. C3-SUBSTITUTED BENZENE	13.35	150000	J
8.	UNKNOWN	13.68	110000	J
9.	UNK. C4-SUBSTITUTED BENZENE	14.05	290000	J
10.	UNKNOWN ALIP. HYDROCARBON	14.20	71000	J
11.	UNK. C4-SUBSTITUTED BENZENE	14.27	70000	J
12.	UNK. C4-SUBSTITUTED BENZENE	14.45	160000	J
13.	UNK. C4-SUBSTITUTED BENZENE	14.63	360000	J
14.	UNK. C4-SUBSTITUTED BENZENE	15.08	120000	J
15.	UNK. C4-SUBSTITUTED BENZENE	15.25	260000	J
16.	UNK. C4-SUBSTITUTED BENZENE	15.35	370000	J
17.	UNK. C5-SUBSTITUTED BENZENE	15.90	63000	J
18.	UNK. C5-SUBSTITUTED BENZENE	16.07	91000	J
19.	UNK. C5-SUBSTITUTED BENZENE	16.22	100000	J
20.	UNK. C5-SUBSTITUTED BENZENE	16.78	170000	J
21.	UNKNOWN ALIP. HYDROCARBON	18.37	140000	J
22.	UNKNOWN ALIP. HYDROCARBON	19.98	190000	J
23.	UNKNOWN ALIP. HYDROCARBON	20.93	88000	J
24.	UNKNOWN ALIP. HYDROCARBON	21.50	140000	J
25.	UNKNOWN ALIP. HYDROCARBON	22.93	120000	J
26.	UNKNOWN ALIP. ACID ESTER	23.63	1200000	J
27.	UNKNOWN ALIP. HYDROCARBON	24.28	150000	J
28.	UNKNOWN ALIP. ACID	25.07	220000	J
29.	UNKNOWN ALIP. ACID	27.55	720000	J
30.	UNKNOWN	29.62	190000	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105DL

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579641

Sample wt/vol: 1.00 (g/mL) G Lab File ID: B0414E03

Level: (low/med) MED Date Received: 03/23/95

% Moisture: 15 decanted: (Y/N) N Date Extracted: 03/31/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/14/95

Injection Volume: 2.0 (uL) Dilution Factor: 50.0

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	590000	UR
111-44-4	bis(2-Chloroethyl)Ether	590000	UR
95-57-8	2-Chlorophenol	590000	UR
541-73-1	1,3-Dichlorobenzene	590000	UR
106-46-7	1,4-Dichlorobenzene	590000	UR
95-50-1	1,2-Dichlorobenzene	590000	UR
95-48-7	2-Methylphenol	590000	UR
108-60-1	2,2'-oxybis(1-Chloropropane)	590000	UR
106-44-5	4-Methylphenol	590000	UR
621-64-7	N-Nitroso-Di-n-Propylamine	590000	UR
67-72-1	Hexachloroethane	590000	UR
98-95-3	Nitrobenzene	590000	UR
78-59-1	Isophorone	590000	UR
88-75-5	2-Nitrophenol	590000	UR
105-67-9	2,4-Dimethylphenol	590000	UR
111-91-1	bis(2-Chloroethoxy)Methane	590000	UR
120-83-2	2,4-Dichlorophenol	590000	UR
120-82-1	1,2,4-Trichlorobenzene	590000	UR
91-20-3	Naphthalene	130000	J
106-47-8	4-Chloroaniline	590000	UJR
87-68-3	Hexachlorobutadiene	590000	UR
59-50-7	4-Chloro-3-Methylphenol	590000	UR
91-57-6	2-Methylnaphthalene	590000	UR
77-47-4	Hexachlorocyclopentadiene	590000	UR
88-06-2	2,4,6-Trichlorophenol	590000	UR
95-95-4	2,4,5-Trichlorophenol	1500000	UR
91-58-7	2-Chloronaphthalene	590000	UR
88-74-4	2-Nitroaniline	1500000	UR
131-11-3	Dimethylphthalate	590000	UR
208-96-8	Acenaphthylene	590000	UR
606-20-2	2,6-Dinitrotoluene	590000	UR
99-09-2	3-Nitroaniline	1500000	UJ
83-32-9	Acenaphthene	590000	UR

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105DL

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579641

Sample wt/vol: 1.00 (g/mL) G Lab File ID: B0414E03

Level: (low/med) MED Date Received: 03/23/95

% Moisture: 15 decanted: (Y/N) N Date Extracted: 03/31/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/14/95

Injection Volume: 2.0 (uL) Dilution Factor: 50.0

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	1500000	U J R	CK
100-02-7	4-Nitrophenol	1500000	U R	
132-64-9	Dibenzofuran	590000	U R	
121-14-2	2,4-Dinitrotoluene	590000	U R	
84-66-2	Diethylphthalate	590000	U R	
7005-72-3	4-Chlorophenyl-phenylether	590000	U R	
86-73-7	Fluorene	590000	U R	
100-10-6	4-Nitroaniline	1500000	U R	
534-52-1	4,6-Dinitro-2-methylphenol	1500000	U R	
86-30-6	N-Nitrosodiphenylamine (1)	590000	U J R	CB
101-55-3	4-Bromophenyl-phenylether	590000	U R	
118-74-1	Hexachlorobenzene	590000	U R	
87-86-5	Pentachlorophenol	1500000	U J R	CB
85-01-8	Phenanthrene	590000	U R	
120-12-7	Anthracene	590000	U R	
86-74-8	Carbazole	590000	U R	
84-74-2	Di-n-Butylphthalate	150000	J	
206-44-0	Fluoranthene	590000	U R	
129-00-0	Pyrene	590000	U J R	CB
85-68-7	Butylbenzylphthalate	590000	U J R	CB
91-94-1	3,3'-Dichlorobenzidine	590000	U R	
56-55-3	Benzo(a)Anthracene	590000	U R	
218-01-9	Chrysene	590000	U R	
117-81-7	bis(2-Ethylhexyl)Phthalate	2200000	J	
117-84-0	Di-n-Octyl Phthalate	590000	U J R	CB
205-99-2	Benzo(b)Fluoranthene	590000	U R	
207-08-9	Benzo(k)Fluoranthene	590000	U R	
50-32-8	Benzo(a)Pyrene	590000	U R	
193-39-5	Indeno(1,2,3-cd)Pyrene	590000	U J R	CB
53-70-3	Dibenz(a,h)Anthracene	590000	U J R	CB
191-24-2	Benzo(g,h,i)Perylene	590000	U R	

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X105DL

ame: ILLINOIS EPA Contract: 1630200024

ode: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

x: (soil/water) SOIL Lab Sample ID: D579641

e wt/vol: 1.00 (g/mL) G Lab File ID: B0414E03

: (low/med) MED Date Received: 03/23/95

sture: 15 decanted: (Y/N) N Date Extracted: 03/31/95

ntrated Extract Volume: 500.0 (uL) Date Analyzed: 04/14/95

tion Volume: 2.0 (uL) Dilution Factor: 50.0

leanup: (Y/N) Y pH: 7.1

r TICs found: 8

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

S NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN ALIP. KETONE	12.12	140000	J
	UNK. C3-SUBSTITUTED BENZENE	12.72	190000	J
	UNKNOWN ALIP. HYDROCARBON	12.73	260000	J
	UNK. C4-SUBSTITUTED BENZENE	14.07	190000	J
	UNKNOWN ALIP. HYDROCARBON	14.77	340000	J
	UNK. C4-SUBSTITUTED BENZENE	15.27	160000	J
	UNK. C4-SUBSTITUTED BENZENE	15.35	250000	J
	UNKNOWN ALIP. ACID ESTER	23.63	620000	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579641D

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

% Moisture: 15 decanted: (Y/N) N Date Received: 03/23/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/28/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/17/95

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	20	U
319-85-7	beta-BHC	13	JP
319-86-8	delta-BHC	20	U
58-89-9	gamma-BHC (Lindane)	20	U
76-44-8	Heptachlor	20	U
309-00-2	Aldrin	20	U
1024-57-3	Heptachlor epoxide	20	U
959-98-8	Endosulfan I	26	P
60-57-1	Dieldrin	39	U
72-55-9	4,4'-DDE	39	U
72-20-8	Endrin	39	U
33213-65-9	Endosulfan II	120	P
50-29-3	4,4'-DDD	39	U
1031-07-8	Endosulfan sulfate	7.8	JP
50-29-3	4,4'-DDT	39	U
72-43-5	Methoxychlor	200	U
53494-70-5	Endrin ketone	39	U
7421-36-3	Endrin aldehyde	39	U
5103-71-9	alpha-Chlordane	20	U
5103-74-2	gamma-Chlordane	35	P
8001-35-2	Toxaphene	2000	U
12674-11-2	Aroclor-1016	390	U
11104-28-2	Aroclor-1221	780	U
11141-16-5	Aroclor-1232	390	U
53469-21-9	Aroclor-1242	390	U
12672-29-6	Aroclor-1248	4200	PC
11097-69-1	Aroclor-1254	6800	C
11096-82-5	Aroclor-1260	4000 ~~3900~~	PC

MCN 4/24/95

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105DL

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: 579641DD

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

% Moisture: 15 decanted: (Y/N) N Date Received: 03/23/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/28/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/18/95

Injection Volume: 1.00 (uL) Dilution Factor: 100

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	200	U
319-85-7	beta-BHC	200	U
319-86-8	delta-BHC	200	U
58-89-9	gamma-BHC (Lindane)	200	U
76-44-8	Heptachlor	200	U
309-00-2	Aldrin	200	U
1024-57-3	Heptachlor epoxide	200	U
959-98-8	Endosulfan I	30	JPD
60-57-1	Dieldrin	390	U
72-55-9	4,4'-DDE	390	U
72-20-8	Endrin	390	U
33213-65-9	Endosulfan II	170	JPD
50-29-3	4,4'-DDD	54	JPD
1031-07-8	Endosulfan sulfate	390	U
50-29-3	4,4'-DDT	390	U
72-43-5	Methoxychlor	2000	U
53494-70-5	Endrin ketone	390	U
7421-36-3	Endrin aldehyde	390	U
5103-71-9	alpha-Chlordane	200	U
5103-74-2	gamma-Chlordane	40	JPD
8001-35-2	Toxaphene	20000	U
12674-11-2	Aroclor-1016	3900	U
11104-28-2	Aroclor-1221	7800	U
11141-16-5	Aroclor-1232	3900	U
53469-21-9	Aroclor-1242	3900	U
12672-29-6	Aroclor-1248	5900	PDC
11097-69-1	Aroclor-1254	8700	DC
11096-82-5	Aroclor-1260	4800	PDC

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: SAUGET SITE S

Lab Code: Case No.: SAS No.: SDG No.: -125

Matrix (Soil): Lab Sample ID: -B503516

Level (Low/Med): Date Received: 03/24/95

% Solids: -87.6-

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6710			P
7440-36-0	Antimony	5.8	U	N	P J
7440-38-2	Arsenic	5.2		S	FM
7440-39-3	Barium	137			P
7440-41-7	Beryllium	0.40	B		P
7440-43-9	Cadmium	2.7			P J
7440-70-2	Calcium	32500			P
7440-47-3	Chromium	52.1			P
7440-48-4	Cobalt	8.6			P
7440-50-8	Copper	48.0			P
7439-89-6	Iron	10800			P
7439-92-1	Lead	242			P
7439-95-4	Magnesium	4750			P
7439-96-5	Manganese	283			P
7439-97-6	Mercury	1.1			AV
7440-02-2	Nickel	11.9			P
7440-09-7	Potassium	1050			P
7782-49-2	Selenium	1.1	U	W,N	FM J
7440-22-4	Silver	1.0 JC	U	JC	P
7440-23-5	Sodium	90.2 ~~52.1~~	~~U~~ B		P
7440-28-0	Thallium	0.23	U		FM
7440-62-2	Vanadium	18.3			P
7440-66-6	Zinc	162			P
	Cyanide	0.57	U		CA
					AS

Color Before: BROWN Clarity Before: OPAQUE Texture: MEDIUM

Color After: BROWN Clarity After: OPAQUE Artifacts:

Comments:

FORM I - IN

SOIL

ILM03.0

03/95

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579642

Sample wt/vol: 4.1 (g/mL) G Lab File ID: B0327LC06

Level: (low/med) MED Date Received: 03/23/95

% Moisture: not dec. ____ Date Analyzed: 03/27/95

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	1200	U
74-83-9	Bromomethane	1200	U
75-01-4	Vinyl Chloride	1200	U
75-00-3	Chloroethane	1200	U
75-09-2	Methylene Chloride	1200 ~~250~~	~~B~~JU
67-64-1	Acetone	1200	U
75-15-0	Carbon Disulfide	1200	U
75-35-4	1,1-Dichloroethene	1200	U
75-34-3	1,1-Dichloroethane	670	J
540-59-0	1,2-Dichloroethene (total)	550	J
67-66-3	Chloroform	1200	U
107-06-2	1,2-Dichloroethane	1200	U
78-93-3	2-Butanone	1200	U
71-55-6	1,1,1-Trichloroethane	12000	
56-23-5	Carbon Tetrachloride	1200	U
75-27-4	Bromodichloromethane	1200	U
78-87-5	1,2-Dichloropropane	1200	U
10061-01-5	cis-1,3-Dichloropropene	1200	U
79-01-6	Trichloroethene	2800	
124-48-1	Dibromochloromethane	1200	U
79-00-5	1,1,2-Trichloroethane	1200	U
71-43-2	Benzene	1200	U
10061-02-6	trans-1,3-Dichloropropene	1200	U
75-25-2	Bromoform	1200	U
108-10-1	4-Methyl-2-Pentanone	1200	U
591-78-6	2-Hexanone	1200	U
127-18-4	Tetrachloroethene	720	J
79-34-5	1,1,2,2-Tetrachloroethane	1200	U
108-88-3	Toluene	31000	E
108-90-7	Chlorobenzene	1200	U
100-41-4	Ethylbenzene	19000	
100-42-5	Styrene	1200	U
1330-20-7	Xylene (total)	93000	E

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579642

Sample wt/vol: 4.1 (g/mL) G Lab File ID: B0327LC06

Level: (low/med) MED Date Received: 03/23/95

% Moisture: not dec. ____ Date Analyzed: 03/27/95

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: 10

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. HYDROCARBON	12.37	420	J
2.	UNKNOWN ALIP. HYDROCARBON	13.40	1000	J
3.	UNKNOWN ALIP. HYDROCARBON	15.72	1300	J
4.	UNKNOWN ALIP. HYDROCARBON	15.90	870	J
5.	UNKNOWN ALIP. HYDROCARBON	16.99	1200	J
6.	UNKNOWN	17.09	1800	J
7.	UNKNOWN ALIP. HYDROCARBON	17.50	1300	J
8.	UNKNOWN ALIP. HYDROCARBON	17.59	2400	J
9.	UNKNOWN ALIP. HYDROCARBON	17.80	1300	J
10.	UNKNOWN ALIP. HYDROCARBON	19.04	870	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106DL

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579642DL

Sample wt/vol: 4.1 (g/mL) G Lab File ID: B0327LC12

Level: (low/med) MED Date Received: 03/23/95

% Moisture: not dec. ____ Date Analyzed: 03/27/95

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 10.0

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

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	12000	U
74-83-9	Bromomethane	12000	U
75-01-4	Vinyl Chloride	12000	U
75-00-3	Chloroethane	12000	U
75-09-2	Methylene Chloride	12000 ~~2600~~	BDJ U
67-64-1	Acetone	12000	U
75-15-0	Carbon Disulfide	12000	U
75-35-4	1,1-Dichloroethene	12000	U
75-34-3	1,1-Dichloroethane	12000	U
540-59-0	1,2-Dichloroethene (total)	12000	U
67-66-3	Chloroform	12000	U
107-06-2	1,2-Dichloroethane	12000	U
78-93-3	2-Butanone	12000	U
71-55-6	1,1,1-Trichloroethane	14000	DJ
56-23-5	Carbon Tetrachloride	12000	U
75-27-4	Bromodichloromethane	12000	U
78-87-5	1,2-Dichloropropane	12000	U
10061-01-5	cis-1,3-Dichloropropene	12000	U
79-01-6	Trichloroethene	3500	DJ
124-48-1	Dibromochloromethane	12000	U
79-00-5	1,1,2-Trichloroethane	12000	U
71-43-2	Benzene	12000	U
10061-02-6	trans-1,3-Dichloropropene	12000	U
75-25-2	Bromoform	12000	U
108-10-1	4-Methyl-2-Pentanone	12000	U
591-78-6	2-Hexanone	12000	U
127-18-4	Tetrachloroethene	12000	U
79-34-5	1,1,2,2-Tetrachloroethane	12000	U
108-88-3	Toluene	51000	DJ
108-90-7	Chlorobenzene	12000	U
100-41-4	Ethylbenzene	24000	DJ
100-42-5	Styrene	12000	U
1330-20-7	Xylene (total)	170000	DJ

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X106DL

: ILLINOIS EPA Contract: 1630200024

: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

(soil/water) SOIL Lab Sample ID: D579642DL

t/vol: 4.1 (g/mL) G Lab File ID: B0327LC12

(low/med) MED Date Received: 03/23/95

re: not dec. ____ Date Analyzed: 03/27/95

n: DB-624 ID: 0.530 (mm) Dilution Factor: 10.0

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

TICs found: 3

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

UMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN	13.30	1200	DJ
	UNKNOWN ALIP. HYDROCARBON	17.62	6200	DJ
	UNKNOWN ALIP. HYDROCARBON	17.84	3500	DJ

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579642

Sample wt/vol: 1.00 (g/mL) G Lab File ID: B0413E11

Level: (low/med) MED Date Received: 03/23/95

% Moisture: _____ decanted: (Y/N) N Date Extracted: 03/31/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/14/95

Injection Volume: 2.0(uL) Dilution Factor: 10.0

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	250000	U J
100-02-7	4-Nitrophenol	250000	U R
132-64-9	Dibenzofuran	100000	U
121-14-2	2,4-Dinitrotoluene	100000	U
84-66-2	Diethylphthalate	100000	U
7005-72-3	4-Chlorophenyl-phenylether	100000	U
86-73-7	Fluorene	100000	U
100-10-6	4-Nitroaniline	250000	U ~~J~~ R CB
534-52-1	4,6-Dinitro-2-methylphenol	250000	U
86-30-6	N-Nitrosodiphenylamine (1)	100000	U J
101-55-3	4-Bromophenyl-phenylether	100000	U
118-74-1	Hexachlorobenzene	100000	U
87-86-5	Pentachlorophenol	250000	U J
85-01-8	Phenanthrene	81000	J
120-12-7	Anthracene	100000	U
86-74-8	Carbazole	100000	U
84-74-2	Di-n-Butylphthalate	1200000	E
206-44-0	Fluoranthene	100000	U
129-00-0	Pyrene	31000	J
85-68-7	Butylbenzylphthalate	490000	J
91-94-1	3,3'-Dichlorobenzidine	100000	U J
56-55-3	Benzo(a)Anthracene	100000	U
218-01-9	Chrysene	100000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	5600000	E J
117-84-0	Di-n-Octyl Phthalate	310000	J
205-99-2	Benzo(b)Fluoranthene	100000	U
207-08-9	Benzo(k)Fluoranthene	100000	U
50-32-8	Benzo(a)Pyrene	100000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	100000	U J
53-70-3	Dibenz(a,h)Anthracene	100000	U J
191-24-2	Benzo(g,h,i)Perylene	100000	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: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579642

Sample wt/vol: 1.00 (g/mL) G Lab File ID: B0413E11

Level: (low/med) MED Date Received: 03/23/95

% Moisture: _____ decanted: (Y/N) N Date Extracted: 03/31/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/14/95

Injection Volume: 2.0(uL) Dilution Factor: 10.0

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

Number TICs found: 21

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. HYDROCARBON	14.80	1700000	J
2.	UNK. C4-SUBSTITUTED BENZENE	15.28	700000	J
3.	UNKNOWN ALIP. HYDROCARBON	21.52	830000	J
4.	UNKNOWN ALIP. ACID ESTER	23.72	9100000	J
5.	UNKNOWN ALIP. ACID	27.63	2300000	J
6.	UNKNOWN	29.77	6800000	J
7.	UNKNOWN ALIP. ACID	29.93	660000	J
8.	UNKNOWN	30.10	630000	J
9.	UNKNOWN	31.53	790000	J
10.	UNKNOWN	31.93	4000000	J
11.	UNKNOWN ALIP. HYDROCARBON	32.27	930000	J
12.	UNKNOWN ALIP. ACID ESTER	32.90	640000	J
13.	UNKNOWN	33.23	810000	J
14.	UNKNOWN	33.32	640000	J
15.	UNKNOWN	34.22	980000	J
16.	UNKNOWN PHTHALATE	34.40	1800000	J
17.	UNKNOWN PHTHALATE	34.83	1100000	J
18.	UNKNOWN PHTHALATE	35.02	2600000	J
19.	UNKNOWN	35.17	1700000	J
20.	UNKNOWN ALIP. ACID ESTER	35.25	450000	J
21.	UNKNOWN	36.00	1000000	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106DL

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579642

Sample wt/vol: 1.00 (g/mL) G Lab File ID: B0414E05

Level: (low/med) MED Date Received: 03/23/95

% Moisture: _____ decanted: (Y/N) N Date Extracted: 03/31/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/14/95

Injection Volume: 2.0 (uL) Dilution Factor: 250.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	2500000	UR
111-44-4	bis(2-Chloroethyl)Ether	2500000	UR
95-57-8	2-Chlorophenol	2500000	UR
541-73-1	1,3-Dichlorobenzene	2500000	UR
106-46-7	1,4-Dichlorobenzene	2500000	UR
95-50-1	1,2-Dichlorobenzene	2500000	UR
95-48-7	2-Methylphenol	2500000	UR
108-60-1	2,2'-oxybis(1-Chloropropane)	2500000	UR
106-44-5	4-Methylphenol	2500000	UR
621-64-7	N-Nitroso-Di-n-Propylamine	2500000	UR
67-72-1	Hexachloroethane	2500000	UR
98-95-3	Nitrobenzene	2500000	UR
78-59-1	Isophorone	2500000	UR
88-75-5	2-Nitrophenol	2500000	UR
105-67-9	2,4-Dimethylphenol	2500000	UR
111-91-1	bis(2-Chloroethoxy)Methane	2500000	UR
120-83-2	2,4-Dichlorophenol	2500000	UR
120-82-1	1,2,4-Trichlorobenzene	2500000	UR
91-20-3	Naphthalene	2500000	UR
106-47-8	4-Chloroaniline	2500000	UJ
87-68-3	Hexachlorobutadiene	2500000	UR
59-50-7	4-Chloro-3-Methylphenol	2500000	UR
91-57-6	2-Methylnaphthalene	2500000	UR
77-47-4	Hexachlorocyclopentadiene	2500000	UR
88-06-2	2,4,6-Trichlorophenol	2500000	UR
95-95-4	2,4,5-Trichlorophenol	6200000	UR
91-58-7	2-Chloronaphthalene	2500000	UR
88-74-4	2-Nitroaniline	6200000	UR
131-11-3	Dimethylphthalate	2500000	UR
208-96-8	Acenaphthylene	2500000	UR
606-20-2	2,6-Dinitrotoluene	2500000	UR
99-09-2	3-Nitroaniline	6200000	UJ
83-32-9	Acenaphthene	2500000	UR

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106DL

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579642

Sample wt/vol: 1.00 (g/mL) G Lab File ID: B0414E05

Level: (low/med) MED Date Received: 03/23/95

% Moisture: _____ decanted: (Y/N) N Date Extracted: 03/31/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/14/95

Injection Volume: 2.0(uL) Dilution Factor: 250.0

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	6200000	UJR	CB
100-02-7	4-Nitrophenol	6200000	UR	
132-64-9	Dibenzofuran	2500000	UR	
121-14-2	2,4-Dinitrotoluene	2500000	UR	
84-66-2	Diethylphthalate	2500000	UR	
7005-72-3	4-Chlorophenyl-phenylether	2500000	UR	
86-73-7	Fluorene	2500000	UR	
100-10-6	4-Nitroaniline	6200000	UR	
534-52-1	4,6-Dinitro-2-methylphenol	6200000	UR	
86-30-6	N-Nitrosodiphenylamine (1)	2500000	UJR	CB
101-55-3	4-Bromophenyl-phenylether	2500000	UR	
118-74-1	Hexachlorobenzene	2500000	UR	
87-86-5	Pentachlorophenol	6200000	UJR	CB
85-01-8	Phenanthrene	2500000	UR	
120-12-7	Anthracene	2500000	UR	
86-74-8	Carbazole	2500000	UR	
84-74-2	Di-n-Butylphthalate	1500000	J	
206-44-0	Fluoranthene	2500000	UR	
129-00-0	Pyrene	2500000	UJR	CB
85-68-7	Butylbenzylphthalate	500000	J	
91-94-1	3,3'-Dichlorobenzidine	2500000	UR	
56-55-3	Benzo(a)Anthracene	2500000	UR	
218-01-9	Chrysene	2500000	UR	
117-81-7	bis(2-Ethylhexyl)Phthalate	20000000	J	
117-84-0	Di-n-Octyl Phthalate	550000	J	
205-99-2	Benzo(b)Fluoranthene	2500000	UR	
207-08-9	Benzo(k)Fluoranthene	2500000	UR	
50-32-8	Benzo(a)Pyrene	2500000	UR	
193-39-5	Indeno(1,2,3-cd)Pyrene	2500000	UJR	CB
53-70-3	Dibenz(a,h)Anthracene	2500000	UJR	CB
191-24-2	Benzo(g,h,i)Perylene	2500000	UR	

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X106DL

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579642

Sample wt/vol: 1.00 (g/mL) G Lab File ID: B0414E05

Level: (low/med) MED Date Received: 03/23/95

% Moisture: _____ decanted: (Y/N) N Date Extracted: 03/31/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/14/95

Injection Volume: 2.0(uL) Dilution Factor: 250.0

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

Number TICs found: 7

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	12.77	850000	J
2.	UNK. C4-SUBSTITUTED BENZENE	14.67	910000	J
3.	UNKNOWN ALIP. HYDROCARBON	14.80	1600000	J
4.	UNK. C4-SUBSTITUTED BENZENE	15.28	620000	J
5.	UNK. C4-SUBSTITUTED BENZENE	15.38	1000000	J
6.	UNK. C4-SUBSTITUTED BENZENE	16.02	870000	J
7.	UNKNOWN ALIP. HYDROCARBON	24.32	680000	J

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579642

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

% Moisture: — decanted: (Y/N) N Date Received: 03/23/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/28/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/17/95

Injection Volume: 1.00 (uL) Dilution Factor: 36.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	60	U
319-85-7	beta-BHC	6000 ~~610~~	~~P~~ U
319-86-8	delta-BHC	6000 ~~1700~~	~~P~~ U
58-89-9	gamma-BHC (Lindane)	60	U
76-44-8	Heptachlor	60	U
309-00-2	Aldrin	60	U
1024-57-3	Heptachlor epoxide	60	U
959-98-8	Endosulfan I	6000 ~~250~~	~~P~~ U
60-57-1	Dieldrin	120	U
72-55-9	4,4'-DDE	120	U
72-20-8	Endrin	120	U
33213-65-9	Endosulfan II	120	U
50-29-3	4,4'-DDD	12000 ~~420~~	~~P~~ U
1031-07-8	Endosulfan sulfate	12000 ~~680~~	~~P~~ U
50-29-3	4,4'-DDT	120	U
72-43-5	Methoxychlor	600	U
53494-70-5	Endrin ketone	120	U
7421-36-3	Endrin aldehyde	120	U
5103-71-9	alpha-Chlordane	60	U
5103-74-2	gamma-Chlordane	590	~~P~~ U
8001-35-2	Toxaphene	6000	U
12674-11-2	Aroclor-1016	1200	U
11104-28-2	Aroclor-1221	2400	U
11141-16-5	Aroclor-1232	1200	U
53469-21-9	Aroclor-1242	1200	U
12672-29-6	Aroclor-1248	85000	PC
11097-69-1	Aroclor-1254	69000	C
11096-82-5	Aroclor-1260	41000	PC

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106DL

Lab Name: ILLINOIS EPA Contract: 1630200024

Lab Code: SPFLD Case No.: SAUGE2 SAS No.: _____ SDG No.: 579637

Matrix: (soil/water) SOIL Lab Sample ID: D579642D

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

% Moisture: — decanted: (Y/N) N Date Received: 03/23/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/28/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/14/95

Injection Volume: 1.00 (uL) Dilution Factor: 360

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	600	U
319-85-7	beta-BHC	60000 ~~1200~~	~~PD~~ U
319-86-8	delta-BHC	60000 ~~600~~	U
58-89-9	gamma-BHC (Lindane)	600	U
76-44-8	Heptachlor	600	U
309-00-2	Aldrin	600	U
1024-57-3	Heptachlor epoxide	600	U
959-98-8	Endosulfan I	60000 ~~390~~	~~JPD~~ U
60-57-1	Dieldrin	1200	U
72-55-9	4,4'-DDE	1200	U
72-20-8	Endrin	1200	U
33213-65-9	Endosulfan II	1300	~~PD~~ U
50-29-3	4,4'-DDD	120000 ~~1200~~	U
1031-07-8	Endosulfan sulfate	120000 ~~530~~	~~JPD~~ U
50-29-3	4,4'-DDT	1200	U
72-43-5	Methoxychlor	6000	U
53494-70-5	Endrin ketone	1200	U
7421-36-3	Endrin aldehyde	1200	U
5103-71-9	alpha-Chlordane	600	U
5103-74-2	gamma-Chlordane	770	~~PD~~ U
8001-35-2	Toxaphene	60000	U
12674-11-2	Aroclor-1016	12000	U
11104-28-2	Aroclor-1221	24000	U
11141-16-5	Aroclor-1232	12000	U
53469-21-9	Aroclor-1242	12000	U
12672-29-6	Aroclor-1248	120000	PDC
11097-69-1	Aroclor-1254	88000	DC
11096-82-5	Aroclor-1260	62000	DC

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: SAUGET SITE S

Lab Code: Case No.: SAS No.: SDG No.: 125

Matrix (Soil): Lab Sample ID: B503517

Level (Low/Med): Date Received: 03/24/95

% Solids: 94.5

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	327			P	
7440-36-0	Antimony	9.5	~~B~~ U	N	P	J
7440-38-2	Arsenic	0.76	B	W	FM	J
7440-39-3	Barium	34.5			P	
7440-41-7	Beryllium	0.16	U		P	
7440-43-9	Cadmium	4.0			P	J
7440-70-2	Calcium	9270			P	
7440-47-3	Chromium	98			P	
7440-48-4	Cobalt	20.5			P	
7440-50-8	Copper	139			P	
7439-89-6	Iron	888			P	
7439-92-1	Lead	392			P	
7439-95-4	Magnesium	1180			P	
7439-96-5	Manganese	24.9			P	
7439-97-6	Mercury	3.5			AV	
7440-02-2	Nickel	5.0	B		P	
7440-09-7	Potassium	271	U		P	
7782-49-2	Selenium	1.5	B	N	FM	J
7440-22-4	Silver	0.99	U		P	
7440-23-5	Sodium	50.0	U		P	
7440-28-0	Thallium	0.42	U		FM	
7440-62-2	Vanadium	2.3	B		P	
7440-66-6	Zinc	283			P	
	Cyanide	0.53	U		CA	
					AS	

Color Before: BROWN Clarity Before: OPAQUE Texture: VERY VISCOUS, PAINT LIKE

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments: