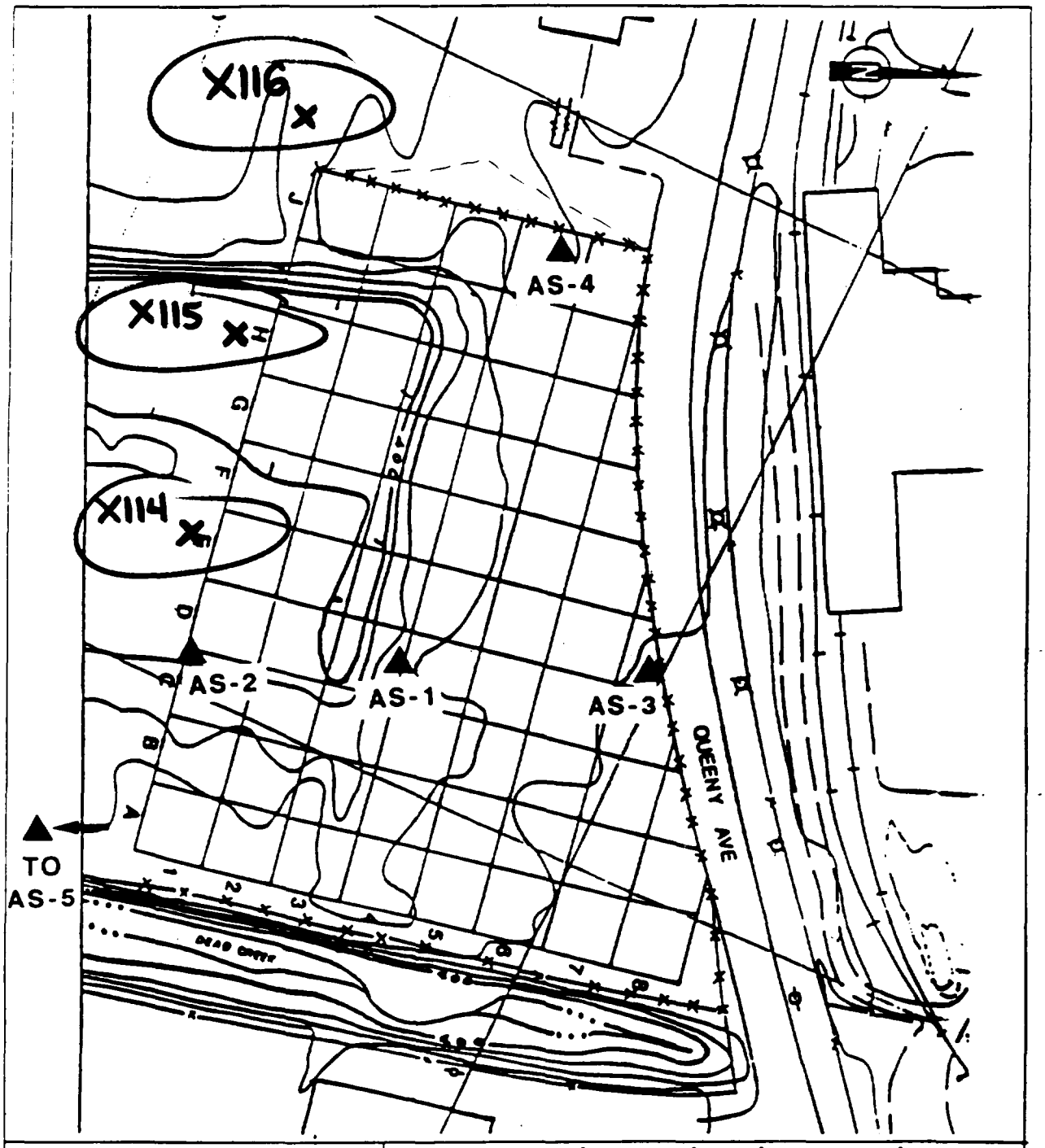
SITE G

G

IEPA



LEGEND

▲ SUMMA AIR SAMPLE

✱✱✱ FENCELINE

ecology and environment, inc.
Technical Assistance Team
Region V
111 West Jackson Blvd.
Chicago, IL 60604

TITLE: SAMPLE LOCATION MAP - 6/6/94	FIGURE #: 4
SITE: SAUGET AREA 1 - SITE G	SCALE: NOT TO SCALE
CITY: SAUGET / STATE: ILLINOIS	PAN: EIL0836SAA

1630200005/St. Clair
Sauget Sites
S. Fi Tech

ARDL Inc.
applied research & development laboratory

CHEMISTRY · BIOLOGY · PHYSIOLOGY
ENGINEERING · ENVIRONMENTAL ANALYSIS

9 December 1994

Mr. Ron Turpin
Division of Laboratories # 4
Illinois Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

RECEIVED
DEC 12 1994
IEPA/DLPC

SUBJECT: Data Package Submittal
Facility: Sauget SA 1 & 2
ARDL ID No.: 2344
Site Inventory No.: 1630200005
Due Date: 12/12/94

Dear Mr. Turpin:

Enclosed please find ARDL's data package for analyses performed on samples delivered to our laboratory on 11/12/94. The data package consists of the following:

1. Letter of Transmittal
2. Tabulated Analytical Results
3. Chain-of-Custody Documentation
4. Data Package - Paginated and submitted in the following order:

   a. Volume 1 - Inorganic Analysis Data Package
   b. Volume 2 - Organic Sample Data Summary Package
   c. Volume 3 - Volatiles Analysis Data Package
   d. Volume 4 - Semi-Volatiles Analysis Data Package
   e. Volume 5 - Pesticide/PCB Analysis Data Package

I have forwarded one (1) copy of the sample results for this package to Sue Doubet, IEPA.

We appreciate the opportunity to be of service to the IEPA.

Thank you.

Sincerely yours,

Daniel J. Gillespie
Technical Services Manager

DJG/jcm

Enclosure

P.O. Box 1566 · Mt. Vernon Airport, Route 15 East · Mt. Vernon, Illinois 62864 · (618) 244-3235 · FAX (618) 244-1149

SDMS US EPA REGION V

COLOR-RESOLUTION - 2

IMAGERY INSERT FORM

The following page(s) of this document include color or resolution variations. Unless otherwise noted, these pages are available in monochrome. The original document is available for viewing at the Superfund Records Center.

SITE NAME	SAUGET AREA 1
DOC ID #	160127
DESCRIPTION OF ITEM(S)	CHAIN OF CUSTODY FORMS
PRP	RMD
DOCUMENT VARIATION	___ **COLOR** **OR** _X_ **RESOLUTION**
DATE OF ITEM(S)	6/6/94
NO. OF ITEMS	3
PHASE	SAN
OPERABLE UNITS	
PHASE (AR DOCUMENTS ONLY)	____ Remedial ___ Removal ___ Deletion Docket ____Original ____ Update # ____ Volume ___ of ___
COMMENT(S)	

HAIN OF CUSTODY

Date Sealed: 11/8/94 By: RLm

acility
ame : SAUGET SITE AREA #1 + #2
ocation: COLLINSVILLE
ounty: ST. CLAIR

Site Inventory # : 1630200005
Site Billing Code: IDPH/MONICA REBBE
Project Manager : PAUL TARACS

Laboratory #			
ARDL 23443	X114	11-10-94	11:15 a.m.

Sample Comments: Brown - waste material

Collector Comments:

Sampler Signature: Tom Miller Division/Company: IEPA/FOS

CONTAINER				ANALYSIS	
No.	Code	Size	Preser		(Y/N)
2	14	2oz	N	VOA	N
1	19	16ozO	N	BNA,PEST/PCB	N
1	286	16ozI	N	TOTAL METALS,CYANIDE,	N
	287		N	SULFIDE,SULFATE	N

CHAIN OF CUSTODY CONDITIONS

I certify that I received the sample shipping container with the shipping container sealed and intact.

Received by (print): PAUL TARACS Signature: Paul E. Taracs

11-10-94 7:43AM 9945 0

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Monica Rebbe Signature: Monica Rebbe

Date: 11-10-94 Time: 12:55 p.m. Seal #: 9946

Sealed at (Lab): IEPA \ ARDL

Courier - Sample Delivery: Courier

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times, or locked in a secured area.

Opened by (print): DONNA COCKRUM Signature: Donna Cockrum

Date: 11/10/94 Time: 1700 Seal #: 9946 Intact? Y/N

Lab Name: ARDL INC Comments:

HAIN OF CUSTODY

Date Sealed: 11/8/94 By: RL

acility
ame : SAUGET SITE AREA #1 + #2
egion: COLLINSVILLE
ounty: ST.CLAIR

Site Inventory # : 1630200005
Site Billing Code: IDPH/MONICA REBBE
Project Manager : PAUL TACKACS

Laboratory #: ARDL 23443

X114 11-10-94 11:15 a.m.

Brown - waste material

ollector Comments:

Tom Miller Division/Company IEPA/FOS

CONTAINER				ANALYSIS	
No.	Code	Size	Preser		(Y/N)
2	14	2oz	N	VOA	N
1	19	16ozO	N	BNA,PEST/PCB	N
1	286	16ozI	N	TOTAL METALS,CYANIDE,	N
	287		N	SULFIDE,SULFATE	N

certify that I received the sample shipping container with the shipping container sealed and intact.

PAUL TARACS Signature: Paul E. Tackacs

11-10-94 7:43AM 9945 0

certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the ample shipping container and that I sealed the sample shipping container at the date and time listed below.

Monica Rebbe Signature: Monica Rebbe

11-10-94 Time: 12:55 p.m. 9946

IEPA \ ARDL

Courier - Sample Delivery: Courier

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): DONNA COCHRUM Signature: Donna Cochrum

Date: 11/10/94 Time: 1700 Seal #: 9946 Intact: (Y)/N

Lab Name: ARDL, INC. Comment:

CHAIN OF CUSTODY

Date Sealed: 11/8/94 By: [illegible]

Facility
Name : SAUGET SITE AREA #1 + #2
Region: COLLINSVILLE
County: ST. CLAIR

Site Inventory # : IL5020005
Site Billing Code: IDPH/MONICA REBBE
Project Manager : PAUL TAKACS

Laboratory #	Sample	Sample Date	Sample Time
ARDL 1344-4	X115	11-10-94	11:30 a.m.

Sample Appearance : Brown - waste material

Collector Comments:

Sampler Signature : Tom Miller Division/Company IEPA/FOS

CONTAINER				ANALYSIS	FILTERED
No.	Code	Size	Preser		(Y/N)
2	14	2oz	N	VOA	N
1	19	16ozU	N	BNA, PEST/PCB	N
1	286	16ozI	N	TOTAL METALS, CYANIDE,	N
	287		N	SULFIDE, SULFATE	N

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Received by (print): PAUL TAKACS Signature: [signature]

Date: 11-10-94 Time: 7:43AM Seal #: 9945 Intact: Y/N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sampler (print): Monica Rebbe Signature: [signature]

Date: 11-10-94 Time: 12:55 p.m. Seal #: 9946

Transfer to Custody: IEPA \ ARDL

Courier - Sample Delivery: Courier

I certify that I received the sample shipping container from the courier listed above, with the shipping container sealed and intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): DONNA COCKLEUM Signature: [signature]

Date: 11-10-94 Time: 1700 Seal # 9946 Intact: (Y) N

Lab Name: ARDL, INC. Comments:

CHAIN OF CUSTODY

Date Sealed: 11/8/94 By: [illegible]

Facility
Name : SAUGET SITE AREA #1 + #2
Region: COLLINSVILLE
County: ST.CLAIR

Site Inventory # : 1630200005
Site Billing Code: IDPH MONICA REBBE
Project Manager : PAUL TACKACS

Laboratory #	Sample #	Sample Date	Sample Time
ARDL 23445	X116	11-10-94	11:40AM

Sample Appearance : YELLOWISH-BROWN WASTE MAT'L. ODOR

Collector Comments:

Sampler Signature: Tom Miller Division/Company: IEPA/FOS

CONTAINER				ANALYSIS	Filtered (Y/N)	Date Time
No.	Code	Size	Preser			
2	14	2oz	N	VOA	N	
1	19	16ozO	N	BNA,PEST/PCB	N	
1	286	16ozI	N	TOTAL METALS,CYANIDE,	N	
	287		N	SULFIDE,SULFATE	N	

CHAIN OF CUSTODY CONTINUE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Received by (print): PAUL TAKACS Signature: Paul Takacs

Date: 11-10-94 Time: 8:00AM Seal #: 9943 Intact: Y

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Relinquished by (print): PAUL TAKACS Signature: Paul Takacs

Date: 11-10-94 Time: 1:05PM Seal #: 9944

Relinquished to: IEPA/ARDL

Courier - Sample Delivery: Courier

I certify that I received the sample shipping container from the courier listed above with the shipping container sealed and intact. I also certify that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be kept in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Daniel Cockrum Signature: [illegible]

Date: 11/10/94 Time: 1700 Seal #: 9944 Intact: Y N

Lab Name: ARDL INC Comments:

EPA SAMPLE NO.

X114

INORGANIC ANALYSIS DATA SHEET

Lab Name: ARDL, INC. Contract No.: 2344

Lab Code: ARDL Case No.: BBE SAS No.: _____ SDG No.: X112

Matrix (soil/water) SOIL Lab Sample ID: 2344-3

Level (low/med): LOW Date Received: 11/12/94

% Solids: 75.3

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10100			P
7440-36-0	Antimony	5.3	U	N	P
7440-38-2	Arsenic	7.3		S	F
7440-39-3	Barium	219			P
7440-41-7	Beryllium	0.90	B		P
7440-43-9	Cadmium	5.8			P
7440-70-2	Calcium	5760			P
7440-47-3	Chromium	16.2			P
7440-48-4	Cobalt	11.4	B		P
7440-50-8	Copper	675			P
7439-89-6	Iron	21200			P
7439-92-1	Lead	172			F
7439-95-4	Magnesium	3550			P
7439-96-5	Manganese	419			P
7439-97-6	Mercury	0.21			CV
7440-02-0	Nickel	32.7			P
7440-09-7	Potassium	2400			P
7782-49-2	Selenium	0.27	U	N W	F
7440-22-4	Silver	1.3	U		P
7440-23-5	Sodium	239	U		P
7440-28-0	Thallium	0.27	U		F
7440-62-2	Vanadium	23.3			P
7440-66-6	Zinc	612			P
	Cyanide	0.63	U		C

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: YES

Comments: ROOTS/STEMS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ARDL, INC. Contract: 2344

Lab Code: ARDL Case No.: BBE SAS No.: _____ SDG No.: X112

Matrix (soil/water): SOIL Lab Sample ID: 2344-3

Level (low/med): LOW Date Received: 11/12/94

% Solids: 75.3

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

CAS No.	Analyte	Concentration	C	Q	M
	Sulfate	127			
	Sulfide	26.2	U		

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

EPA SAMPLE NO.

X115

INORGANIC ANALYSIS DATA SHEET

Lab Name: ARDL, INC. Contract No.: 2344

Lab Code: ARDL Case No.: BBE SAS No.: _____ SDG No.: X112

Matrix (soil/water) SOIL Lab Sample ID: 2344-4

Level (low/med): LOW Date Received: 11/12/94

% Solids: 63.9

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9680			P
7440-36-0	Antimony	6.3	U	N	P
7440-38-2	Arsenic	11.7	B	S	F
7440-39-3	Barium	209			P
7440-41-7	Beryllium	0.94	B		P
7440-43-9	Cadmium	4.4			P
7440-70-2	Calcium	5950			P
7440-47-3	Chromium	16.8			P
7440-48-4	Cobalt	35.3			P
7440-50-8	Copper	1150			P
7439-89-6	Iron	26800			P
7439-92-1	Lead	0.31	U		F
7439-95-4	Magnesium	3220			P
7439-96-5	Manganese	268			P
7439-97-6	Mercury	0.41			CV
7440-02-0	Nickel	38.5			P
7440-09-7	Potassium	2230			P
7782-49-2	Selenium	0.31	U	N W	F
7440-22-4	Silver	1.6	U		P
7440-23-5	Sodium	282	U		P
7440-28-0	Thallium	0.31	U		F
7440-62-2	Vanadium	22.7			P
7440-66-6	Zinc	864			P
	Cyanide	0.78	U		C

Color Before: BROWN/BLA Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: YES

Comments: LEAVES/ROOTS/STEMS

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ARDL, INC. Contract: 2344

Lab Code: ARDL Case No.: BBE SAS No.: _____ SDG No.: X112

Matrix (soil/water): SOIL Lab Sample ID: 2344-4

Level (low/med): LOW Date Received: 11/12/94

% Solids: 63.9

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

CAS No.	Analyte	Concentration	C	Q	M
	Sulfate	4430			
	Sulfide	31.3	U		

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X116

Lab Name: ARDL, INC. Contract No.: 2344

Lab Code: ARDL Case No.: BBE SAS No.: _____ SDG No.: X112

Matrix (soil/water) SOIL Lab Sample ID: 2344-5

Level (low/med): LOW Date Received: 11/12/94

% Solids: 63.2

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1720			P
7440-36-0	Antimony	6.3	U	N	P
7440-38-2	Arsenic	47.9	B	+	F
7440-39-3	Barium	414			P
7440-41-7	Beryllium	0.38	B		P
7440-43-9	Cadmium	6.2			P
7440-70-2	Calcium	7280			P
7440-47-3	Chromium	19.3			P
7440-48-4	Cobalt	12.7	B		P
7440-50-8	Copper	515			P
7439-89-6	Iron	5690			P
7439-92-1	Lead	0.32	U		F
7439-95-4	Magnesium	471	B		P
7439-96-5	Manganese	43.4			P
7439-97-6	Mercury	4.7			CV
7440-02-0	Nickel	15.3			P
7440-09-7	Potassium	316	U		P
7782-49-2	Selenium	1.6	U	N E	F
7440-22-4	Silver	2.6	B		P
7440-23-5	Sodium	322	B		P
7440-28-0	Thallium	0.32	U		F
7440-62-2	Vanadium	18.7			P
7440-66-6	Zinc	38200			P
	Cyanide	0.77	U		C

Color Before: BROWN/BLA Clarity Before: Texture: COARSE

Color After: YELLOW Clarity After: CLEAR Artifacts: YES

Comments: ROCKS

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ARDL, INC. Contract: 2344

Lab Code: ARDL Case No.: BBE SAS No.: _____ SDG No.: X112

Matrix (soil/water): SOIL Lab Sample ID: 2344-5

Level (low/med): LOW Date Received: 11/12/94

% Solids: 63.2

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

CAS No.	Analyte	Concentration	C	Q	M
	Sulfate	63.3	U		
	Sulfide	503			

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

VOLATILE ORGANICS ANALYSIS DATA SHEET

X114

Lab Name: ARDL, INC. Contract: SAUGET SA 1&2

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X112

Matrix: (soil/water) SOIL Lab Sample ID: 2344-3

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >J8110

Level: (low/med) LOW Date Received: 11/12/94

% Moisture: not dec. 25 Date Analyzed: 11/15/94

GC column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13.	U
74-83-9	Bromomethane	13.	U
75-01-4	Vinyl Chloride	13.	U
75-00-3	Chloroethane	13.	U
75-09-2	Methylene Chloride	49.	
67-64-1	Acetone	13.	U
75-15-0	Carbon Disulfide	13.	U
75-35-4	1,1-Dichloroethene	13.	U
75-34-3	1,1-Dichloroethane	13.	U
540-59-0	1,2-Dichloroethene (total)	13.	U
67-66-3	Chloroform	13.	U
107-06-2	1,2-Dichloroethane	13.	U
78-93-3	2-Butanone	13.	U
71-55-6	1,1,1-Trichloroethane	13.	U
56-23-5	Carbon Tetrachloride	13.	U
75-27-4	Bromodichloromethane	13.	U
78-87-5	1,2-Dichloropropane	13.	U
10061-01-5	cis-1,3-Dichloropropene	13.	U
79-01-6	Trichloroethene	13.	U
124-48-1	Dibromochloromethane	13.	U
79-00-5	1,1,2-Trichloroethane	13.	U
71-43-2	Benzene	13.	U
10061-02-6	trans-1,3-Dichloropropene	13.	U
75-25-2	Bromoform	13.	U
108-10-1	4-Methyl-2-Pentanone	13.	U
591-78-6	2-Hexanone	13.	U
127-18-4	Tetrachloroethene	13.	U
79-34-5	1,1,2,2-Tetrachloroethane	13.	U
108-88-3	Toluene	13.	U
108-90-7	Chlorobenzene	13.	U
100-41-4	Ethylbenzene	13.	U
100-42-5	Styrene	13.	U
1330-20-7	Xylene (total)	13.	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

X114

Lab Name: ARDL, INC. Contract: SAUGET SA 1&2

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X112

Matrix: (soil/water) SOIL Lab Sample ID: 2344-3

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >J8110

Level: (low/med) LOW Date Received: 11/12/94

% Moisture: not dec. 25 Date Analyzed: 11/15/94

GC Column: 1%SP-1000 ID: 2.0 (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	10.64	10.	J
2.	UNKNOWN	26.17	8.	J
3.				
4.				
5.				
6.				
7.				
8.				
9.				
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30.				

VOLATILE ORGANICS ANALYSIS DATA SHEET

X115

Lab Name: ARDL, INC. Contract: SAUGET SA 1&2

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X112

Matrix: (soil/water) SOIL Lab Sample ID: 2344-4

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >J8121

Level: (low/med) LOW Date Received: 11/12/94

% Moisture: not dec. 36 Date Analyzed: 11/16/94

GC column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	16.	U
74-83-9	Bromomethane	16.	U
75-01-4	Vinyl Chloride	16.	U
75-00-3	Chloroethane	16.	U
75-09-2	Methylene Chloride	28.	
67-64-1	Acetone	16.	U
75-15-0	Carbon Disulfide	16.	U
75-35-4	1,1-Dichloroethene	16.	U
75-34-3	1,1-Dichloroethane	16.	U
540-59-0	1,2-Dichloroethene (total)	16.	U
67-66-3	Chloroform	16.	U
107-06-2	1,2-Dichloroethane	16.	U
78-93-3	2-Butanone	16.	U
71-55-6	1,1,1-Trichloroethane	16.	U
56-23-5	Carbon Tetrachloride	16.	U
75-27-4	Bromodichloromethane	16.	U
78-87-5	1,2-Dichloropropane	16.	U
10061-01-5	cis-1,3-Dichloropropene	16.	U
79-01-6	Trichloroethene	16.	U
124-48-1	Dibromochloromethane	16.	U
79-00-5	1,1,2-Trichloroethane	16.	U
71-43-2	Benzene	16.	U
10061-02-6	trans-1,3-Dichloropropene	16.	U
75-25-2	Bromoform	16.	U
108-10-1	4-Methyl-2-Pentanone	16.	U
591-78-6	2-Hexanone	16.	U
127-18-4	Tetrachloroethene	16.	U
79-34-5	1,1,2,2-Tetrachloroethane	16.	U
108-88-3	Toluene	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.

X115

Lab Name: ARDL, INC. Contract: SAUGET SA 1&2

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X112

Matrix: (soil/water) SOIL Lab Sample ID: 2344-4

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >J8121

Level: (low/med) LOW Date Received: 11/12/94

% Moisture: not dec. 36 Date Analyzed: 11/16/94

GC Column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	2.80	20.	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X116

Lab Name: ARDL, INC. Contract: SAUGET SA 1&2

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X112

Matrix: (soil/water) SOIL Lab Sample ID: 2344-5

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >J8112

Level: (low/med) LOW Date Received: 11/12/94

% Moisture: not dec. 37 Date Analyzed: 11/15/94

GC column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	16.	U
74-83-9	Bromomethane	16.	U
75-01-4	Vinyl Chloride	16.	U
75-00-3	Chloroethane	16.	U
75-09-2	Methylene Chloride	630.	E
67-64-1	Acetone	16.	U
75-15-0	Carbon Disulfide	16.	U
75-35-4	1,1-Dichloroethene	16.	U
75-34-3	1,1-Dichloroethane	16.	U
540-59-0	1,2-Dichloroethene (total)	16.	U
67-66-3	Chloroform	16.	U
107-06-2	1,2-Dichloroethane	16.	U
78-93-3	2-Butanone	16.	U
71-55-6	1,1,1-Trichloroethane	16.	U
56-23-5	Carbon Tetrachloride	16.	U
75-27-4	Bromodichloromethane	16.	U
78-87-5	1,2-Dichloropropane	16.	U
10061-01-5	cis-1,3-Dichloropropene	16.	U
79-01-6	Trichloroethene	16.	U
124-48-1	Dibromochloromethane	16.	U
79-00-5	1,1,2-Trichloroethane	16.	U
71-43-2	Benzene	16.	U
10061-02-6	trans-1,3-Dichloropropene	16.	U
75-25-2	Bromoform	16.	U
108-10-1	4-Methyl-2-Pentanone	16.	U
591-78-6	2-Hexanone	16.	U
127-18-4	Tetrachloroethene	16.	U
79-34-5	1,1,2,2-Tetrachloroethane	16.	U
108-88-3	Toluene	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

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

X116

Lab Name: ARDL, INC. Contract: SAUGET SA 1&2

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X112

Matrix: (soil/water) SOIL Lab Sample ID: 2344-5

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >J8112

Level: (low/med) LOW Date Received: 11/12/94

% Moisture: not dec. 37 Date Analyzed: 11/15/94

GC Column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 1.0

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

Number TICs found: 7

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	9.83	9.	J
2.	UNKNOWN	13.07	10.	J
3.	UNKNOWN	20.48	50.	J
4.	UNKNOWN	27.83	10.	J
5.	UNKNOWN	31.26	40.	J
6.	UNKNOWN	31.58	40.	J
7.	UNKNOWN	34.36	10.	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X116RE

Lab Name: ARDL, INC. Contract: SAUGET SA 1&2

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X112

Matrix: (soil/water) SOIL Lab Sample ID: 2344-5RE

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >J8122

Level: (low/med) LOW Date Received: 11/12/94

% Moisture: not dec. 37 Date Analyzed: 11/16/94

GC column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	16.	U
74-83-9	Bromomethane	16.	U
75-01-4	Vinyl Chloride	16.	U
75-00-3	Chloroethane	16.	U
75-09-2	Methylene Chloride	270.	
67-64-1	Acetone	56.	
75-15-0	Carbon Disulfide	16.	U
75-35-4	1,1-Dichloroethene	16.	U
75-34-3	1,1-Dichloroethane	16.	U
540-59-0	1,2-Dichloroethene (total)	16.	U
67-66-3	Chloroform	16.	U
107-06-2	1,2-Dichloroethane	16.	U
78-93-3	2-Butanone	16.	U
71-55-6	1,1,1-Trichloroethane	16.	U
56-23-5	Carbon Tetrachloride	16.	U
75-27-4	Bromodichloromethane	16.	U
78-87-5	1,2-Dichloropropane	16.	U
10061-01-5	cis-1,3-Dichloropropene	16.	U
79-01-6	Trichloroethene	16.	U
124-48-1	Dibromochloromethane	16.	U
79-00-5	1,1,2-Trichloroethane	16.	U
71-43-2	Benzene	16.	U
10061-02-6	trans-1,3-Dichloropropene	16.	U
75-25-2	Bromoform	16.	U
108-10-1	4-Methyl-2-Pentanone	16.	U
591-78-6	2-Hexanone	16.	U
127-18-4	Tetrachloroethene	16.	U
79-34-5	1,1,2,2-Tetrachloroethane	16.	U
108-88-3	Toluene	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

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

X116RE

Lab Name: ARDL, INC. Contract: SAUGET SA 1&2

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X112

Matrix: (soil/water) SOIL Lab Sample ID: 2344-5RE

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >J8122

Level: (low/med) LOW Date Received: 11/12/94

% Moisture: not dec. 37 Date Analyzed: 11/16/94

GC Column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 1.0

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

Number TICs found: 9

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.54	8.	J
2.	UNKNOWN	13.59	10.	J
3.	UNKNOWN	20.53	30.	J
4.	UNKNOWN	29.39	10.	J
5.	UNKNOWN	29.67	10.	J
6.	UNKNOWN	31.27	20.	J
7.	UNKNOWN	32.09	20.	J
8.	UNKNOWN	34.01	30.	J
9.	UNKNOWN	34.47	9.	J
10.				
11.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X114

Lab Name: ARDL, INC. Contract: SAUGET SA 1 & 2

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X112

Matrix: (soil/water) SOIL Lab Sample ID: 2344-3

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >M7276

Level: (low/med) LOW Date Received: 11/12/94

% Moisture: 25 decanted: (Y/N) N Date Extracted: 11/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/30/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.8 Conversion Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	440.	U
111-44-4	bis(2-Chloroethyl)ether	440.	U
95-57-8	2-Chlorophenol	440.	U
541-73-1	1,3-Dichlorobenzene	440.	U
106-46-7	1,4-Dichlorobenzene	440.	U
95-50-1	1,2-Dichlorobenzene	440.	U
95-48-7	2-Methylphenol	440.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	440.	U
106-44-5	4-Methylphenol	440.	U
621-64-7	N-Nitroso-Di-n-propylamine	440.	U
67-72-1	Hexachloroethane	440.	U
98-95-3	Nitrobenzene	440.	U
78-59-1	Isophorone	440.	U
88-75-5	2-Nitrophenol	440.	U
105-67-9	2,4-Dimethylphenol	440.	U
111-91-1	bis(2-Chloroethoxy)methane	440.	U
120-83-2	2,4-Dichlorophenol	440.	U
120-82-1	1,2,4-Trichlorobenzene	440.	U
91-20-3	Naphthalene	440.	U
106-47-8	4-Chloroaniline	440.	U
87-68-3	Hexachlorobutadiene	440.	U
59-50-7	4-Chloro-3-methylphenol	440.	U
91-57-6	2-Methylnaphthalene	440.	U
77-47-4	Hexachlorocyclopentadiene	440.	U
88-06-2	2,4,6-Trichlorophenol	440.	U
95-95-4	2,4,5-Trichlorophenol	1100.	U
91-58-7	2-Chloronaphthalene	440.	U
88-74-4	2-Nitroaniline	1100.	U
131-11-3	Dimethylphthalate	440.	U
208-96-8	Acenaphthylene	440.	U
606-20-2	2,6-Dinitrotoluene	440.	U
99-09-2	3-Nitroaniline	1100.	U
83-32-9	Acenaphthene	440.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X114

Lab Name: ARDL, INC. Contract: SAUGET SA 1 & 2

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X112

Matrix: (soil/water) SOIL Lab Sample ID: 2344-3

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >M7276

Level: (low/med) LOW Date Received: 11/12/94

% Moisture: 25 decanted: (Y/N) N Date Extracted: 11/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/30/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.8 Conversion Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100.	U
100-02-7	4-Nitrophenol	1100.	U
132-64-9	Dibenzofuran	440.	U
121-14-2	2,4-Dinitrotoluene	440.	U
84-66-2	Diethylphthalate	440.	U
7005-72-3	4-Chlorophenyl-phenylether	440.	U
86-73-7	Fluorene	440.	U
100-01-6	4-Nitroaniline	1100.	U
534-52-1	4,6-Dinitro-2-methylphenol	1100.	U
86-30-6	N-Nitrosodiphenylamine (1)	440.	U
101-55-3	4-Bromophenyl-phenylether	440.	U
118-74-1	Hexachlorobenzene	440.	U
87-86-5	Pentachlorophenol	1100.	U
85-01-8	Phenanthrene	440.	U
120-12-7	Anthracene	440.	U
86-74-8	Carbazole	440.	U
84-74-2	Di-n-butylphthalate	230.	J
206-44-0	Fluoranthene	86.	J
129-00-0	Pyrene	89.	J
85-68-7	Butylbenzylphthalate	440.	U
91-94-1	3,3'-Dichlorobenzidine	440.	U
56-55-3	Benzo(a)anthracene	440.	U
218-01-9	Chrysene	59.	J
117-81-7	bis(2-Ethylhexyl)phthalate	650.	B
117-84-0	Di-n-octylphthalate	440.	U
205-99-2	Benzo(b)fluoranthene	440.	U
207-08-9	Benzo(k)fluoranthene	440.	U
50-32-8	Benzo(a)pyrene	440.	U
193-39-5	Indeno(1,2,3-cd)pyrene	440.	U
53-70-3	Dibenz(a,h)anthracene	440.	U
191-24-2	Benzo(g,h,i)perylene	440.	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X114

Lab Name: ARDL, INC. Contract: SAUGET SA 1 & 2

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X112

Matrix: (soil/water) SOIL Lab Sample ID: 2344-3

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >M7276

Level: (low/med) LOW Date Received: 11/12/94

% Moisture: not dec. 25 decanted:(Y/N) N Date Extracted: 11/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/30/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.8

Number TICs found: 20

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	10.20	200.	J
2.	UNKNOWN	20.25	200.	J
3.	UNKNOWN	21.75	200.	J
4.	UNKNOWN	24.23	500.	J
5.	UNKNOWN	26.06	200.	J
6.	UNKNOWN	26.17	300.	J B
7.	UNKNOWN	28.54	300.	J
8.	UNKNOWN ALKANE	28.73	600.	J
9.	UNKNOWN	29.29	600.	J
10.	UNKNOWN PAH	29.76	300.	J B
11.	UNKNOWN ALKANE	30.20	1000.	J
12.	UNKNOWN ALKANE	31.69	1000.	J
13.	UNKNOWN	31.89	300.	J
14.	UNKNOWN	33.40	300.	J
15.	UNKNOWN ALKANE	33.57	700.	J
16.	UNKNOWN	33.72	800.	J
17.	UNKNOWN	33.88	400.	J
18.	UNKNOWN	34.45	1000.	J
19.	UNKNOWN	34.80	400.	J
20.	UNKNOWN	35.10	400.	J
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X115

Lab Name: ARDL, INC. Contract: SAUGET SA 1 & 2

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X112

Matrix: (soil/water) SOIL Lab Sample ID: 2344-4

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >M7277

Level: (low/med) LOW Date Received: 11/12/94

% Moisture: 36 decanted: (Y/N) N Date Extracted: 11/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/30/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 3.5 Conversion Factor: 1.0

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.	U
87-68-3	Hexachlorobutadiene	520.	U
59-50-7	4-Chloro-3-methylphenol	520.	U
91-57-6	2-Methylnaphthalene	520.	U
77-47-4	Hexachlorocyclopentadiene	520.	U
88-06-2	2,4,6-Trichlorophenol	520.	U
95-95-4	2,4,5-Trichlorophenol	1300.	U
91-58-7	2-Chloronaphthalene	520.	U
88-74-4	2-Nitroaniline	1300.	U
131-11-3	Dimethylphthalate	520.	U
208-96-8	Acenaphthylene	520.	U
606-20-2	2,6-Dinitrotoluene	520.	U
99-09-2	3-Nitroaniline	1300.	U
83-32-9	Acenaphthene	520.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X115

Lab Name: ARDL, INC. Contract: SAUGET SA 1 & 2

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X112

Matrix: (soil/water) SOIL Lab Sample ID: 2344-4

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >M7277

Level: (low/med) LOW Date Received: 11/12/94

% Moisture: 36 decanted: (Y/N) N Date Extracted: 11/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/30/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 3.5 Conversion Factor: 1.0

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
100-01-6	4-Nitroaniline	1300.	U
534-52-1	4,6-Dinitro-2-methylphenol	1300.	U
86-30-6	N-Nitrosodiphenylamine (1)	520.	U
101-55-3	4-Bromophenyl-phenylether	520.	U
118-74-1	Hexachlorobenzene	520.	U
87-86-5	Pentachlorophenol	1300.	U
85-01-8	Phenanthrene	520.	U
120-12-7	Anthracene	520.	U
86-74-8	Carbazole	520.	U
84-74-2	Di-n-butylphthalate	430.	J
206-44-0	Fluoranthene	520.	U
129-00-0	Pyrene	520.	U
85-68-7	Butylbenzylphthalate	520.	U
91-94-1	3,3'-Dichlorobenzidine	520.	U
56-55-3	Benzo(a)anthracene	520.	U
218-01-9	Chrysene	520.	U
117-81-7	bis(2-Ethylhexyl)phthalate	1000.	B
117-84-0	Di-n-octylphthalate	520.	U
205-99-2	Benzo(b)fluoranthene	520.	U
207-08-9	Benzo(k)fluoranthene	520.	U
50-32-8	Benzo(a)pyrene	520.	U
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.

X115

Lab Name: ARDL, INC. Contract: SAUGET SA 1 & 2

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X112

Matrix: (soil/water) SOIL Lab Sample ID: 2344-4

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >M7277

Level: (low/med) LOW Date Received: 11/12/94

% Moisture: not dec. 36 decanted:(Y/N) N Date Extracted: 11/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/30/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 3.5

Number TICs found: 20

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	13.04	700.	J
2.		UNKNOWN	20.19	1000.	J
3.		UNKNOWN	20.25	700.	J
4.		UNKNOWN	23.51	2000.	J
5.		UNKNOWN	24.14	2000.	J
6.		UNKNOWN	24.25	900.	J
7.	57114	OCTADECANOIC ACID	24.35	1000.	JN
8.		UNKNOWN	24.63	700.	J
9.		UNKNOWN	26.11	800.	J
10.		UNKNOWN ALKANE	27.16	700.	J
11.		UNKNOWN	27.80	700.	J
12.	482235	1(3H)-ISOBENZOFURANONE,3-(3-	28.73	1000.	JN
13.		UNKNOWN ALKANE	30.22	7000.	J
14.		UNKNOWN ALAKNE	31.71	7000.	J
15.		UNKNOWN	32.11	3000.	J
16.		UNKNOWN	32.31	4000.	J
17.		UNKNOWN	32.83	3000.	J
18.		UNKNOWN ALKANE	33.59	3000.	J
19.		UNKNOWN	33.78	9000.	J
20.		UNKNOWN	34.49	7000.	J
21.					
22.					
23.					
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X116

Lab Name: ARDL, INC. Contract: SAUGET SA 1 & 2

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X112

Matrix: (soil/water) SOIL Lab Sample ID: 2344-5

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >M7282

Level: (low/med) LOW Date Received: 11/12/94

% Moisture: 37 decanted: (Y/N) N Date Extracted: 11/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/30/94

Injection Volume: 2.0 (uL) Dilution Factor: 50.0

GPC Cleanup: (Y/N) Y pH: 4.9 Conversion Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	26000.	U
111-44-4	bis(2-Chloroethyl)ether	26000.	U
95-57-8	2-Chlorophenol	26000.	U
541-73-1	1,3-Dichlorobenzene	26000.	U
106-46-7	1,4-Dichlorobenzene	26000.	U
95-50-1	1,2-Dichlorobenzene	26000.	U
95-48-7	2-Methylphenol	26000.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	26000.	U
106-44-5	4-Methylphenol	26000.	U
621-64-7	N-Nitroso-Di-n-propylamine	26000.	U
67-72-1	Hexachloroethane	26000.	U
98-95-3	Nitrobenzene	26000.	U
78-59-1	Isophorone	26000.	U
88-75-5	2-Nitrophenol	26000.	U
105-67-9	2,4-Dimethylphenol	26000.	U
111-91-1	bis(2-Chloroethoxy)methane	26000.	U
120-83-2	2,4-Dichlorophenol	26000.	U
120-82-1	1,2,4-Trichlorobenzene	26000.	U
91-20-3	Naphthalene	26000.	U
106-47-8	4-Chloroaniline	26000.	U
87-68-3	Hexachlorobutadiene	26000.	U
59-50-7	4-Chloro-3-methylphenol	26000.	U
91-57-6	2-Methylnaphthalene	26000.	U
77-47-4	Hexachlorocyclopentadiene	26000.	U
88-06-2	2,4,6-Trichlorophenol	26000.	U
95-95-4	2,4,5-Trichlorophenol	63000.	U
91-58-7	2-Chloronaphthalene	26000.	U
88-74-4	2-Nitroaniline	63000.	U
131-11-3	Dimethylphthalate	26000.	U
208-96-8	Acenaphthylene	26000.	U
606-20-2	2,6-Dinitrotoluene	26000.	U
99-09-2	3-Nitroaniline	63000.	U
83-32-9	Acenaphthene	26000.	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X116

Lab Name: ARDL, INC. Contract: SAUGET SA 1 & 2

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X112

Matrix: (soil/water) SOIL Lab Sample ID: 2344-5

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >M7282

Level: (low/med) LOW Date Received: 11/12/94

% Moisture: 37 decanted: (Y/N) N Date Extracted: 11/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/30/94

Injection Volume: 2.0 (uL) Dilution Factor: 50.0

GPC Cleanup: (Y/N) Y pH: 4.9 Conversion Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	63000.	U
100-02-7	4-Nitrophenol	63000.	U
132-64-9	Dibenzofuran	26000.	U
121-14-2	2,4-Dinitrotoluene	26000.	U
84-66-2	Diethylphthalate	26000.	U
7005-72-3	4-Chlorophenyl-phenylether	26000.	U
86-73-7	Fluorene	26000.	U
100-01-6	4-Nitroaniline	63000.	U
534-52-1	4,6-Dinitro-2-methylphenol	63000.	U
86-30-6	N-Nitrosodiphenylamine (1)	26000.	U
101-55-3	4-Bromophenyl-phenylether	26000.	U
118-74-1	Hexachlorobenzene	26000.	U
87-86-5	Pentachlorophenol	63000.	U
85-01-8	Phenanthrene	26000.	U
120-12-7	Anthracene	26000.	U
86-74-8	Carbazole	26000.	U
84-74-2	Di-n-butylphthalate	26000.	U
206-44-0	Fluoranthene	26000.	U
129-00-0	Pyrene	26000.	U
85-68-7	Butylbenzylphthalate	26000.	U
91-94-1	3,3'-Dichlorobenzidine	26000.	U
56-55-3	Benzo(a)anthracene	26000.	U
218-01-9	Chrysene	26000.	U
117-81-7	bis(2-Ethylhexyl)phthalate	26000.	U
117-84-0	Di-n-octylphthalate	26000.	U
205-99-2	Benzo(b)fluoranthene	26000.	U
207-08-9	Benzo(k)fluoranthene	26000.	U
50-32-8	Benzo(a)pyrene	26000.	U
193-39-5	Indeno(1,2,3-cd)pyrene	26000.	U
53-70-3	Dibenz(a,h)anthracene	26000.	U
191-24-2	Benzo(g,h,i)perylene	26000.	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X116

Lab Name: ARDL, INC. Contract: SAUGET SA 1 & 2

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X112

Matrix: (soil/water) SOIL Lab Sample ID: 2344-5

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >M7282

Level: (low/med) LOW Date Received: 11/12/94

% Moisture: not dec. 37 decanted:(Y/N) N Date Extracted: 11/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/30/94

Injection Volume: 2.0 (uL) Dilution Factor: 50.0

GPC Cleanup: (Y/N) Y pH: 4.9

Number TICs found: 19

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	9.82	300000.	J
2.	UNKNOWN	10.64	400000.	J
3.	UNKNOWN	16.62	600000.	J
4.	UNKNOWN	17.47	20000.	J
5.	UNKNOWN	17.66	400000.	J
6.	UNKNOWN	19.66	60000.	J
7.	UNKNOWN	20.95	1000000.	J
8.	UNKNOWN	21.32	100000.	J
9.	UNKNOWN	21.69	50000.	J
10.	UNKNOWN	23.24	300000.	J
11.	UNKNOWN	23.33	200000.	J
12.	UNKNOWN	24.45	200000.	J
13.	UNKNOWN	26.15	300000.	J
14.	UNKNOWN	26.30	1000000.	J
15.	UNKNOWN	27.11	100000.	J
16.	UNKNOWN	28.77	1000000.	J
17.	UNKNOWN	28.94	200000.	J
18.	UNKNOWN	30.29	80000.	J
19.	UNKNOWN	30.95	300000.	J
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X114

Lab Name: ARDL, INC. Contract: SAUGET SA 1+2
Lab Code: Case No.: 2344 SDG No.: X112
Matrix(soil/water) : SOIL Lab Sample ID : 2344-3
Sample(wt/vol) : 30.0 (g/mL) g Lab File ID :
% Moisture: 25 decanted:(Y/N) N Date Received : 11/12/94
Extraction(Sepf/Cont/Sonc) SONC Date Extracted : 11/16/94
Concentrated Extract Volume:5000(uL) Date Analyzed : 11/23/94
Injection Volume: 1 (uL) Dilution Factor: 1.0
GPC Cleanup:(Y/N) Y pH: 5.8 Sulfur Cleanup : N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/Kg	Q
319-84-6	alpha-BHC	2.3	U
319-85-7	beta-BHC	2.3	U
319-86-8	delta-BHC	2.3	U
58-89-9	gamma-BHC(Lindane)	2.3	U
76-44-8	Heptachlor	2.3	U
309-00-2	Aldrin	2.3	U
1024-57-3	Heptachlor Epoxide	2.3	U
959-98-8	Endosulfan I	2.3	U
60-57-1	Dieldrin	4.4	U
72-55-9	4,4'-DDE	4.4	U
72-20-8	Endrin	4.4	U
33213-65-9	Endosulfan II	4.4	U
72-54-8	4,4'-DDD	4.4	U
1013-07-8	Endosulfan sulfate	4.4	U
50-29-3	4,4'-DDT	4.4	U
72-43-5	Methoxychlor	23	U
53494-70-5	Endrin ketone	4.4	U
7421-36-3	Endrin aldehyde	4.4	U
5103-71-9	alpha-Chlordane	2.3	U
5103-74-2	gamma-Chlordane	2.3	U
8001-35-2	Toxaphene	230	U
12674-11-2	Aroclor 1016	44	U
11104-28-2	Aroclor 1221	89	U
11141-16-5	Aroclor 1232	44	U
53469-21-9	Aroclor 1242	44	U
12672-29-6	Aroclor 1248	44	U
11097-69-1	Aroclor 1254	88	P
11096-82-5	Aroclor 1260	180	

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X115

Lab Name: ARDL, INC. Contract: SAUGET SA 1+2
Lab Code: Case No.: 2344 SDG No.: X112
Matrix(soil/water) : SOIL Lab Sample ID : 2344-4
Sample(wt/vol) : 30.0 (g/mL) g Lab File ID :
% Moisture: 36 decanted:(Y/N) N Date Received : 11/12/94
Extraction(Sepf/Cont/Sonc) SONC Date Extracted : 11/16/94
Concentrated Extract Volume:5000(uL) Date Analyzed : 11/23/94
Injection Volume: 1 (uL) Dilution Factor: 1.0
GPC Cleanup:(Y/N) Y pH: 3.5 Sulfur Cleanup : N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/Kg	Q
319-84-6	alpha-BHC	2.6	U
319-85-7	beta-BHC	2.6	U
319-86-8	delta-BHC	2.6	U
58-89-9	gamma-BHC(Lindane)	2.6	U
76-44-8	Heptachlor	2.6	U
309-00-2	Aldrin	2.6	U
1024-57-3	Heptachlor Epoxide	2.6	U
959-98-8	Endosulfan I	2.6	U
60-57-1	Dieldrin	5.2	U
72-55-9	4,4'-DDE	5.2	U
72-20-8	Endrin	5.2	U
33213-65-9	Endosulfan II	5.2	U
72-54-8	4,4'-DDD	5.2	U
1013-07-8	Endosulfan sulfate	5.2	U
50-29-3	4,4'-DDT	5.2	U
72-43-5	Methoxychlor	26	U
53494-70-5	Endrin ketone	5.2	U
7421-36-3	Endrin aldehyde	5.2	U
5103-71-9	alpha-Chlordane	2.6	U
5103-74-2	gamma-Chlordane	2.6	U
8001-35-2	Toxaphene	260	U
12674-11-2	Aroclor 1016	52	U
11104-28-2	Aroclor 1221	110	U
11141-16-5	Aroclor 1232	52	U
53469-21-9	Aroclor 1242	52	U
12672-29-6	Aroclor 1248	52	U
11097-69-1	Aroclor 1254	440	
11096-82-5	Aroclor 1260	550	

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X116

Lab Name: ARDL, INC.
Lab Code: Case No.: 2344
Matrix(soil/water) : SOIL
Sample(wt/vol) : 30.0 (g/mL) g
% Moisture: 37 decanted:(Y/N) N
Extraction(Sepf/Cont/Sonc) SONC
Concentrated Extract Volume:5000(uL)
Injection Volume: 1 (uL)
GPC Cleanup:(Y/N) Y pH: 4.9

Contract: SAUGET SA 1+2
SDG No.: X112
Lab Sample ID : 2344-5
Lab File ID :
Date Received : 11/12/94
Date Extracted : 11/16/94
Date Analyzed : 11/24/94
Dilution Factor: 100
Sulfur Cleanup : N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/Kg	Q
319-84-6	alpha-BHC	270	U
319-85-7	beta-BHC	270	U
319-86-8	delta-BHC	270	U
58-89-9	gamma-BHC(Lindane)	270	U
76-44-8	Heptachlor	270	U
309-00-2	Aldrin	270	U
1024-57-3	Heptachlor Epoxide	270	U
959-98-8	Endosulfan I	270	U
60-57-1	Dieldrin	520	U
72-55-9	4,4'-DDE	520	U
72-20-8	Endrin	520	U
33213-65-9	Endosulfan II	520	U
72-54-8	4,4'-DDD	520	U
1013-07-8	Endosulfan sulfate	520	U
50-29-3	4,4'-DDT	520	U
72-43-5	Methoxychlor	2700	U
53494-70-5	Endrin ketone	520	U
7421-36-3	Endrin aldehyde	520	U
5103-71-9	alpha-Chlordane	270	U
5103-74-2	gamma-Chlordane	270	U
8001-35-2	Toxaphene	27000	U
12674-11-2	Aroclor 1016	5200	U
11104-28-2	Aroclor 1221	11000	U
11141-16-5	Aroclor 1232	5200	U
53469-21-9	Aroclor 1242	5200	U
12672-29-6	Aroclor 1248	15000	
11097-69-1	Aroclor 1254	29000	
11096-82-5	Aroclor 1260	46000	