SDMS US EPA REGION V -1

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145358

AREA "G"

ANALYTIC REPORTS

FROM E & E

1988

Please Do
Not Disturb

S394

Law Offices
Martin, Craig, Chester & Sonnenschein
55 West Monroe Street
Chicago, Illinois
60603

May 5, 1987

TELEPHONE 368-9700
AREA CODE 312

Mr. Paul Tandler
Vice President of Manufacturing
Cerro Copper Products Co.
P.O. Box 681
East St. Louis, Illinois 62202

Re: Cerro Copper Products Co.
Sauget/Sauget Sites

Dear Mr. Tandler:

Enclosed please find a copy of E & E's analytical reports for samples obtained from "Site G." If you have any questions, please do not hesitate to contact me.

Very truly yours,

Susan M. Franzetti

Susan M. Franzetti

SMF/kw

encl.

cc: Mr. Henry Schweich

Illinois Environmental Protection Agency · 2200 Churchill Road, Springfield, IL 62706

(217) 782-5544

MAY 0 1 1987

April 29, 1987

Susan M. Franzetti, Esq.
Martin, Craig, Chester & Sonnenschein
55 West Monroe Street
Suite 1200
Chicago, Illinois 60603

Re: Cerro Copper Products Company
LPC 1630200005 - St. Clair County
Sauget/Sauget Sites
Enforcement File

Dear Susan:

As you requested in our recent telephone conversation, please find enclosed a copy of the analytical reports for samples obtained from "Site G" by Ecology and Environment, Inc. The samples were collected during the month of November, 1986. These reports were obtained at the Agency on April 27, 1987 and have been reviewed for quality control/quality assurance.

Sicerely yours,

Bruce L. Carlson

Bruce L. Carlson
Staff Attorney
Enforcement Programs
Division of Land Pollution Control

BLC:rlc
Enclosure

cc: Jeff Larson
Robert Johnson

S396

Sample No.	Date	Time	Sampler	Location	Description	Labeling	Notes
SD-27	11-5-86	1750	Phillips + Sewell	25'S of Kinder St. - CS-D	Sediment 0-6"	E+E	
SD-28	11-5-86	1810	Phillips + Sewell	25'S of Kinder St. CS-D	Sediment 1.5'-2'	E+E	
SD-29	11-5-86	1855	Phillips	BLANK SOIL	BLANK SEDIMENT	E+E	BLANK
SD-30							
SW-01	11-5-86 ~~0900~~	0900	Phillips	Surface Water Blank	Deionized Blank Water Sample	E+E	T=60°F pH=6.6 cond=1µmhos
SW-02	11-5-86	1120	Phillips + Sewell	Site M - cut through to Dead Creek	Surface water	E+E	T=56°F pH=7.7 cond=510µmhos
SW-03	11-5-86	1130	Phillips + Sewell	Site M - cut through to Dead Creek	surface water	E+E	T=56°F pH=7.7 cond=500µmhos
SW-04	11-5-86	1325	Phillips + Sewell	CSB N. Adjacent to Nord Metro Bldg	surface water	E+E	T=56°F pH=7.2 cond=420µmhos
SW-05	11-5-86	1420	Phillips + Sewell	CS B 150' N of Judith LN.	surface water	E+E	T=55°F pH=7.6 cond=486µmhos
SW-06	11-5-86	1430	Phillips + Sewell	CSB 150' N of Judith LN.	surface water	E+E	Duplicate of DC-SW-05
SW-07	11-5-86	1620	Phillips + Sewell	CS-C 70' S. of Judith LN	surface water	E+E	T=56° pH=7.4 cond=750µmhos
SW-08	11-5-86	1645	Phillips + Sewell	CS-C 25' N Cahokia St.	surface water	E+E	T=56° pH=7.0 cond=610µmhos
SW-09	11-5-86	1730	Phillips + Sewell	CS-D 50' S. of Cahokia St.	surface water	E+E	T=56° pH=7.0 cond=300
SW-10	11-5-86	1245	Phillips + Sewell	25'S of Kinder St. CS-D	surface water	E+E	T=56° pH=8.0 cond 200
SW-11	11-6-86	1005	Bock	Surface Water Blank	Deionized Blank Water Sample	E+E	T=61°F pH=6.6 cond=1µmhos
SW-12	11-6-86	1215	Phillips + Sewell	N. Pond Composite - CS-A	surface water	E+E	NO READINGS - HIGH OIL CONTENT
SW-13	11-6-86	1240	Phillips + Sewell	S. Pond Composite CS-A	surface water	E+E	T=57° pH=8.0 cond=800µmhos
SD-31	11-6-86	0955	Bock	BLANK SEDIMENT	BLANK SEDIMENT	E+E	BLANK
SD-32	11-6-86	1345	Phillips + Sewell	CS-A Composite North Pond 1.5'-2.0'	Sediment 1.5-2.0'	E+E	
SD-33	11-6-86	1230	Phillips + Sewell	CS-A Composite North Pond	Sediment 0-6"	E+E	
SD-34	11-6-86	1235	Phillips + Sewell	CSA Composite North Pond 0-6"	Duplicate of SD 33	E+E	Duplicate of DC-SD-33
SD-35	11-6-86	1320	Phillips + Sewell	CS-A South Pond Composite	Sediment 0-6"	E+E	
SD-36	11-6-86	1330	Phillips + Sewell	CS-A South Pond Composite	Sediment 1.5-2.0'	E+E	
SS-01	11-10-86	1615	Phillips, Alvey, Cole	SITE G GRID # C-1	SURFACE SOIL 0-6"	E+E	OVA SCREENING .6 ppm ABOVE BACKGROUND
SS-02	11-10-86	1645		GRID # G-1	SURFACE SOIL 0-6"	E+E	0 ppm
SS-03	11-11-86	1015		GRID # B-2	SURFACE SOIL 0-6"	E+E	0.5 ppm

Sample No	Date	Time	Sampler	Location		Description	Labeling	Notes
DC-SS-04	11-11-86 ~~1115~~	1115	Phillips, Ahley, Cook	SITE G	GRID # E-2	SURFACE SOIL 0-6"	E+E	OVA SCREENING 0 ppm ABOVE BACKGROUND
DC-SS-05	11-11-86 ~~1430~~	1430			GRID # H-2	SURFACE SOIL 0-6"	E+E	OVA SCREENING 0.6 ppm
DC-SS-06	11-11-86 ~~1430~~	1430			GRID # H-2	SURFACE SOIL 0-6"	E+E	DUPLICATE OF DC-SS-05
DC-SS-07	11-11-86	1450			GRID # I-2	SURFACE SOIL 0-6"	E+E	OVA SCREENING 0.6 ppm
DC-SS-08	11-11-86	1500			GRID # J-2	SURFACE SOIL 0-6"	E+E	OVA SCREENING 0.9 ppm
DC-SS-09	11-11-86	1000			GRID # A-3	SURFACE SOIL 0-6"	E+E	OVA SCREENING 70 ppm
DC-SS-10	11-11-86	1015			GRID # B-3	SURFACE SOIL 0-6"	E+E	OVA SCREENING 13 ppm
DC-SS-11	11-11-86	1030			GRID # C-3	SURFACE SOIL 0-6"	E+E	OVA SCREENING 0 ppm
DC-SS-12	11-11-86	1045			GRID # D-3	SURFACE SOIL 0-6"	E+E	OVA SCREENING >1000 ppm
DC-SS-13	11-11-86	1115			GRID # E-3	SURFACE SOIL 0-6"	E+E	OVA SCREENING 1 ppm
DC-SS-14	11-11-86	1130			GRID # F-3	SURFACE SOIL 0-6"	E+E	OVA SCREENING 0 ppm
DC-SS-15	11-11-86	1400			GRID # G-3	SURFACE SOIL 0-6"	E+E	OVA SCREENING 0 ppm
DC-SS-16	11-11-86	1400			GRID # G-3	SURFACE SOIL 0-6"	E+E	DUPLICATE OF DC-SS-15
DC-SS-17	11-11-86	1430			GRID # H-3	SURFACE SOIL 0-6"	E+E	OVA SCREENING 0.4 ppm
DC-SS-18	11-11-86	1100			GRID # A-4	SURFACE SOIL 0-6"	E+E	OVA SCREENING 0.8 ppm
DC-SS-19	11-11-86	1110			GRID # B-4	SURFACE SOIL 0-6"	E+E	OVA SCREENING 3 ppm
DC-SS-20	11-11-86	1120			GRID # C-4	SURFACE SOIL 0-6"	E+E	OVA SCREENING >1000 ppm SMELLS LIKE H_2S
DC-SS-21	11-11-86	1130			GRID # D-4	SURFACE SOIL 0-6"	E+E	OVA SCREENING 100 ppm W NO HEAT
DC-SS-22	11-11-86	1140			GRID # E-4	SURFACE SOIL 0-6"	E+E	OVA SCREENING 30 ppm
DC-SS-23	11-11-86	1150			GRID # F-4	SURFACE SOIL 0-6"	E+E	OVA SCREENING 0 ppm
DC-SS-45	11-11-86	1700		BLANK SOIL	~~GRID #~~	SURFACE SOIL 0-6"	E+E	SOIL BLANK [illegible]
DC-SS-24	11-11-86	1515		SITE G	GRID # G-4	SURFACE SOIL 0-6"	E+E	OVA SCREENING 0 ppm
DC-SS-25	11-11-86	1515			G-4	SURFACE SOIL 0-6"	E+E	DUPLICATE OF DC-SS-24
DC-SS-26	11-11-86	1540			H-4	SURFACE SOIL 0-6"	E+E	OVA SCREENING 0 ppm
DC-SS-27	11-11-86	1545			I-4	SURFACE SOIL 0-6"	E+E	OVA SCREENING 1.8 ppm
DC-SS-28	11-11-86	1555			J-4	SURFACE SOIL 0-6"	E+E	OVA SCREENING 0 ppm

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Sample No	Date	Time	Sampler	Location	Description	Laboratory	Notes
DC-SS-29	11-11-86	[illegible]	Timmons, Alvey, Cook	SITE G GRID # A-5	SURFACE SOIL 0-6"	E+E	OVA SCREENING 1 ppm
DC-SS-30	11-11-86	1600		B-5	SURFACE SOIL 0-6"	E+E	OVA SCREENING 3.0 ppm
DC-SS 31	11-11-86	1600		B-5	SURFACE SOIL 0-6"	E+E	DUPLICATE OF DC-SS-30
DC-SS 32	11-11-86	1600 [illegible]		C-5	SURFACE SOIL 0-6"	E+E	OVA SCREENING 0 ppm
DC-SS-33	11-12-86	10:00 AM		D-5	SURFACE SOIL 0-6"	E+E	OVA SCREENING 150 ppm
DC-SS-34	11-12-86	11:00 AM		E-5	SURFACE SOIL 0-6"	E+E	OVA SCREENING 1.5 (NO NOAT)
DC-SS-35	11-12-86	1100		F-5	SURFACE SOIL 0-6"	E+E	OVA SCREENING 5.0 ppm
DC-SS-36	11-12-86	1120		G-5	SURFACE SOIL 0-6"	E+E	OVA SCREENING 0.8 ppm
DC-SS-37	11-12-86	1130		H-5	SURFACE SOIL 0-6"	E+E	OVA SCREENING 0 ppm
DC-SS-38	11-12-86	1100		A-6	SURFACE SOIL 0-6"	E+E	OVA SCREENING 40 ppm (NO NOAT)
DC-SS-39	11-12-86	1120		B-6	SURFACE SOIL 0-6"	E+E	OVA SCREENING 0.4 ppm
DC-SS-40	11-12-86	1200		C-6	SURFACE SOIL 0-6"	E+E	OVA SCREENING 0 ppm
DC-SS-41	11-12-86	1240		D-6	SURFACE SOIL 0-6"	E+E	OVA SCREENING 88.0 ppm
DC-SS-42	11-12-86	1315		F-6	SURFACE SOIL 0-6"	E+E	OVA SCREENING 0.6 ppm
DC-SS-43	11-12-86	1215		B-7	SURFACE SOIL 0-6"	E+E	OVA SCREENING 0.8 ppm
DC-SS 44	11-13-86	1200		SOIL BLANK	SURFACE SOIL 0-6"	E+E	BLANK. E OF R.R. TRACKS [illegible]
DC-SS-46	11-13-86	1035		SITE J SAMPLE 1	SURFACE SOIL 0-6"	E+E	SE OF PIT IN SE CORNER OF HOLLOW
DC-SS 47	11-13 86	1100		SITE J SAMPLE 2	SURFACE SOIL 0-6"	E+E	60 FT NNE OF CMF INCL. DEBRIS AREA
DC-SS-48	11-13-86	1100		SITE J SAMPLE 2 DUP	SURFACE SOIL 0-6"	E+E	DUPLICATE OF DC-SS 47

Sample Number
DC-SS-01

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc. Case No: U-4465
Lab Sample ID No: 9748 QC Report No:
Sample Matrix: Soil Contract No: IL-3140
Data Release Authorized By: C Stoytowicz Date Sample Received: 11-13-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed: 11-21-86
Conc/Dil Factor: 3 pH 7.6
Percent Moisture: (Not Decanted) 22

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	34 B
67-64-1	Acetone	28 BJ
75-15-0	Carbon Disulfide	15u
75-35-4	1,1-Dichloroethene	15u
75-34-3	1,1-Dichloroethane	15u
156-60-5	Trans-1,2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1,2-Dichloroethane	15u
78-93-3	2-Butanone	30u
71-55-6	1,1,1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1,2-Dichloropropane	15u
10061-02-6	Trans-1,3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1,1,2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1,3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	30u
591-78-6	2-Hexanone	30u
127-18-4	Tetrachloroethene	15u
79-34-5	1,1,2,2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration, dilution, action. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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Form I 11/85

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S400

Laboratory Name Ecology & Environment Inc.

Case No V-4465

Sample Number DC-SS-01

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 11-14-86

Date Analyzed: 12-1-86

Conc/Dil Factor: 2

Percent Moisture (Decanted) 22

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
108-95-2	Phenol	420	U
111-44-4	bis(2-Chloroethyl)Ether	420	U
95-57-8	2-Chlorophenol	420	U
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
100-51-6	Benzyl Alcohol	420	U
95-50-1	1,2-Dichlorobenzene	420	U
95-48-7	2-Methylphenol	420	U
39638-32-9	bis(2-chloroisopropyl)Ether	420	U
106-44-5	4-Methylphenol	420	U
621-64-7	N-Nitroso-Di-n-Propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
65-85-0	Benzoic Acid	2000	U
111-91-1	bis(2-Chloroethoxy)Methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
120-82-1	1,2,4-Trichlorobenzene	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
59-50-7	4-Chloro-3-Methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	2000	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	2000	U
131-11-3	Dimethyl Phthalate	420	U
208-96-8	Acenaphthylene	420	U
99-09-2	3-Nitroaniline	2000	U

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	420	U
51-28-5	2,4-Dinitrophenol	2000	U
100-02-7	4-Nitrophenol	2000	U
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
86-73-7	Fluorene	420	U
100-01-6	4-Nitroaniline	2000	U
534-52-1	4,6-Dinitro-2-Methylphenol	2000	U
86-30-6	N-Nitrosodiphenylamine (1)	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
87-86-5	Pentachlorophenol	2000	U
85-01-8	Phenanthrene	420	U
120-12-7	Anthracene	420	U
84-74-2	Di-n-Butylphthalate	420	U
206-44-0	Fluoranthene	420	U
129-00-0	Pyrene	420	U
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	850	U
56-55-3	Benzo(a)Anthracene	420	U
117-81-7	bis(2-Ethylhexyl)Phthalate	420	U
218-01-9	Chrysene	420	U
117-84-0	Di-n-Octyl Phthalate	420	U
205-99-2	Benzo(b)Fluoranthene	420	U
207-08-9	Benzo(k)Fluoranthene	420	U
50-32-8	Benzo(a)Pyrene	420	U
193-39-5	Indeno(1,2,3-cd)Pyrene	420	U
53-70-3	Dibenzo(a,h)Anthracene	420	U
191-24-2	Benzo(g,h,i)Perylene	420	U

(1)-Cannot be separated from diphenylamine

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ecology and environment

Laboratory Name ecology and environment, inc.

Case No U-4465

Sample Number DC-SS-01

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 11-14-86

Date Analyzed 11-25-86

Conc/Dil Factor 5

Percent Moisture (decanted) 22.3

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	80 U
319-85-7	Beta-BHC	80 U
319-86-8	Delta-BHC	80 U
58-89-9	Gamma-BHC (Lindane)	80 U
76-44-8	Heptachlor	80 U
309-00-2	Aldrin	80 U
1024-57-3	Heptachlor Epoxide	80 U
959-98-8	Endosulfan I	80 U
60-57-1	Dieldrin	160 U
72-55-9	4,4'-DDE	160 U
72-20-8	Endrin	160 U
33213-65-9	Endosulfan II	160 U
72-54-8	4,4'-DDD	160 U
1031-07-8	Endosulfan Sulfate	160 U
50-29-3	4,4'-DDT	160 U
72-43-5	Methoxychlor	800 U
53494-70-5	Endrin Ketone	160 U
57-74-9	Chlordane	800 U
8001-35-2	Toxaphene	1600 U
12674-11-2	Aroclor-1016	800 U
11104-28-2	Aroclor-1221	800 U
11141-16-5	Aroclor-1232	800 U
53469-21-9	Aroclor-1242	800 U
12672-29-6	Aroclor-1248	800 U
11097-69-1	Aroclor-1254	1600 U
11096-82-5	Aroclor-1260	1600 U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_t 1,000 V_i 4

Laboratory Name Ecology & Environment, Inc

Case No U-4465

Sample Number DC-SS-01

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min	Estimated Concentration (ug/l or ug/kg)
1.	Unknown Ketone	VOA	19.6	12 BJ
2.	Hexane Isomer	VOA	21.2	2 BJ
3.				
4.	UNKNOWN	BNA	9.2	2800 J
5.	UNKNOWN	BNA	24.7	110 J
6.	UNKNOWN	BNA	37.0	180 J
7.	UNKNOWN	BNA	40.7	180 J
8.				
9				
10.				
11.				
12.				
13.				
14				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30				

Laboratory Name ECOLOGY & ENVIRONMENT INC.

Case No V-4465

Sample Number DC-SS-02

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 11-14-86

Date Analyzed 12-1-86

Conc/Dil Factor: 2

Percent Moisture (Decanted) 23

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
108-95-2	Phenol	430	U
111-44-4	bis(2-Chloroethyl)Ether	430	U
95-57-8	2-Chlorophenol	430	U
541-73-1	1,3-Dichlorobenzene	430	U
106-46-7	1,4-Dichlorobenzene	430	U
100-51-6	Benzyl Alcohol	430	U
95-50-1	1,2-Dichlorobenzene	430	U
95-48-7	2-Methylphenol	430	U
39638-32-9	bis(2-chloroisopropyl)Ether	430	U
106-44-5	4-Methylphenol	430	U
621-64-7	N-Nitroso-Di-n-Propylamine	430	U
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
65-85-0	Benzoic Acid	2100	U
111-91-1	bis(2-Chloroethoxy)Methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
120-82-1	1,2,4-Trichlorobenzene	430	U
91-20-3	Naphthalene	430	U
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
59-50-7	4-Chloro-3-Methylphenol	430	U
91-57-6	2-Methylnaphthalene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	2100	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	2100	U
131-11-3	Dimethyl Phthalate	430	U
208-96-8	Acenaphthylene	430	U
99-09-2	3-Nitroaniline	2100	U

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	430	U
51-28-5	2,4-Dinitrophenol	2100	U
100-02-7	4-Nitrophenol	2100	U
132-64-9	Dibenzofuran	430	U
121-14-2	2,4-Dinitrotoluene	430	U
606-20-2	2,6-Dinitrotoluene	430	U
84-66-2	Diethylphthalate	430	U
7005-72-3	4-Chlorophenyl-phenylether	430	U
86-73-7	Fluorene	430	U
100-01-6	4-Nitroaniline	2100	U
534-52-1	4,6-Dinitro-2-Methylphenol	2100	U
86-30-6	N-Nitrosodiphenylamine (1)	430	U
101-55-3	4-Bromophenyl-phenylether	430	U
118-74-1	Hexachlorobenzene	430	U
87-86-5	Pentachlorophenol	2100	U
85-01-8	Phenanthrene	430	U
120-12-7	Anthracene	430	U
84-74-2	Di-n-Butylphthalate	430	U
206-44-0	Fluoranthene	430	U
129-00-0	Pyrene	430	U
85-68-7	Butylbenzylphthalate	430	U
91-94-1	3,3'-Dichlorobenzidine	860	U
56-55-3	Benzo(a)Anthracene	430	U
117-81-7	bis(2-Ethylhexyl)Phthalate	910	
218-01-9	Chrysene	430	U
117-84-0	Di-n-Octyl Phthalate	430	U
205-99-2	Benzo(b)Fluoranthene	430	U
207-08-9	Benzo(k)Fluoranthene	430	U
50-32-8	Benzo(a)Pyrene	430	U
193-39-5	Indeno(1,2,3-cd)Pyrene	430	U
53-70-3	Dibenz(a,h)Anthracene	430	U
191-24-2	Benzo(g,h,i)Perylene	430	U

(1)-Cannot be separated from diphenylamine

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Sample Number
DC-SS-02

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc.
Case No.: U-4465
Lab Sample ID No.: 9749
QC Report No.:
Sample Matrix: Soil
Contract No.: IL-3140
Data Release Authorized By: C Stoglowicz
Date Sample Received: 11-13-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed: 11-21-86
Conc./Dil Factor: 3 pH 7.4
Percent Moisture: (Not Decanted) 23

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	32 B
67-64-1	Acetone	23 BJ
75-15-0	Carbon Disulfide	15u
75-35-4	1,1-Dichloroethene	15u
75-34-3	1,1-Dichloroethane	15u
156-60-5	Trans-1,2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1,2-Dichloroethane	15u
78-93-3	2-Butanone	43 B
71-55-6	1,1,1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1,2-Dichloropropane	15u
10061-02-6	Trans-1,3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1,1,2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1,3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	30u
591-78-6	2-Hexanone	30u
127-18-4	Tetrachloroethene	15u
79-34-5	1,1,2,2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration, dilution, action. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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S405

Laboratory Name ecology and environment, inc.

Case No U-4465

Sample Number DC-SS-02

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 11-14-86

Date Analyzed 11-25-86

Conc/Dil Factor 1

Percent Moisture (decanted) 22.6

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or (ug/Kg) (Circle One)
319-84-6	Alpha-BHC	16 U
319-85-7	Beta-BHC	16 U
319-86-8	Delta-BHC	16 U
58-89-9	Gamma-BHC (Lindane)	16 U
76-44-8	Heptachlor	16 U
309-00-2	Aldrin	16 U
1024-57-3	Heptachlor Epoxide	16 U
959-98-8	Endosulfan I	16 U
60-57-1	Dieldrin	32 U
72-55-9	4,4'-DDE	31 J
72-20-8	Endrin	32 U
33213-65-9	Endosulfan II	32 U
72-54-8	4,4'-DDD	32 U
1031-07-8	Endosulfan Sulfate	32 U
50-29-3	4,4'-DDT	32 U
72-43-5	Methoxychlor	160 U
53494-70-5	Endrin Ketone	32 U
57-74-9	Chlordane	160 U
8001-35-2	Toxaphene	320 U
12674-11-2	Aroclor-1016	160 U
11104-28-2	Aroclor-1221	160 U
11141-16-5	Aroclor-1232	160 U
53469-21-9	Aroclor-1242	160 U
12672-29-6	Aroclor-1248	160 U
11097-69-1	Aroclor-1254	320 U
11096-82-5	Aroclor-1260	450

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_t 1000 V_i 4

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ecology and

Laboratory Name Ecology & Environment, Inc
Case No U-4465

Sample Number
DC-SS-02

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min	Estimated Concentration (ug/l or ug/kg)
1.	Unknown ketone	VOA	19.5	2 B J
2.	Hexane isomer	VOA	21.2	1 B J
3.				
4	UNKNOWN	BNA	9.2	4000 J
5.	UNKNOWN	BNA	34.2	250 B J
6.	UNKNOWN HYDROCARBON	BNA	35.3	170 J
7.	UNKNOWN HYDROCARBON	BNA	37.0	280 J
8.				
9				
10.				
11.				
12.				
13.				
14				
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27.				
28.				
29.				
30				

Sample Number
DC-SS-03

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc. Case No: U-4465
Lab Sample ID No: 9750 QC Report No:
Sample Matrix: Soil Contract No: IL-3140
Data Release Authorized By: [signature] Date Sample Received: 11-13-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed: 11-21-86
Conc./Dil Factor: 3 pH 8.1
Percent Moisture. (Not Decanted) 15

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	33 B
67-64-1	Acetone	25 BJ
75-15-0	Carbon Disulfide	15u
75-35-4	1, 1-Dichloroethene	15u
75-34-3	1, 1-Dichloroethane	15u
156-60-5	Trans-1, 2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1, 2-Dichloroethane	15u
78-93-3	2-Butanone	30u
71-55-6	1, 1, 1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	15u
10061-02-6	Trans-1, 3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1, 1, 2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1, 3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	30u
591-78-6	2-Hexanone	30u
127-18-4	Tetrachloroethene	15u
79-34-5	1, 1, 2, 2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration, dilution, action. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum analytical detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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S408

Laboratory Name ECOLOGY & ENVIRONMENT INC.

Case No V-4465

Sample Number DC-SS-03

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 11-14-86

Date Analyzed 12-1-86

Conc/Dil Factor: 2

Percent Moisture (Decanted) 15

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
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
100-51-6	Benzyl Alcohol	390	U
95-50-1	1 2-Dichlorobenzene	390	U
95-48-7	2-Methylphenol	390	U
39638 32-9	bis(2-chloroisopropyl)Ether	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-Di-n-Propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2, 4-Dimethylphenol	390	U
65-85-0	Benzoic Acid	1900	U
111-91-1	bis(2-Chloroethoxy)Methane	390	U
120-83-2	2 4-Dichlorophenol	390	U
120-82-1	1 2, 4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-Methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2 4 6-Trichlorophenol	390	U
95 95-4	2 4 5-Trichlorophenol	1900	U
91-58-7	2-Chloronaphthalene	390	U
88 74-4	2-Nitroaniline	1900	U
131-11-3	Dimethyl Phthalate	390	U
208 96-8	Acenaphthylene	390	U
99-09-2	3-Nitroaniline	1900	U

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	390	U
51-28-5	2, 4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	390	U
121-14-2	2 4-Dinitrotoluene	390	U
606-20-2	2 6-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	4, 6-Dinitro-2-Methylphenol	1900	U
86-30-6	N-Nitrosodiphenylamine (1)	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
84-74-2	Di-n-Butylphthalate	390	U
206-44-0	Fluoranthene	390	U
129-00-0	Pyrene	390	U
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3 3 -Dichlorobenzidine	780	U
56-55-3	Benzo(a)Anthracene	390	U
117-81-7	bis(2-Ethylhexyl)Phthalate	230	J
218-01-9	Chrysene	390	U
117-84-0	Di-n-Octyl Phthalate	390	U
205-99-2	Benzo(b)Fluoranthene	390	U
207-08-9	Benzo(k)Fluoranthene	390	U
50-32-8	Benzo(a)Pyrene	390	U
193-39-5	Indeno(1 2, 3-cd)Pyrene	390	U
53-70-3	Dibenz(a h)Anthracene	390	U
191-24-2	Benzo(g h i)Perylene	390	U

(1)-Cannot be separated from diphenylamine

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Laboratory Name ecology and environment, inc.

Case No V-4465

Sample Number DC-SS-03

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 11-14-86

Date Analyzed 11-25-86

Conc/Dil Factor 1

Percent Moisture (decanted) 15.2

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or (ug/Kg) (Circle One)
319-84-6	Alpha-BHC	16 U
319-85-7	Beta-BHC	16 U
319-86-8	Delta-BHC	16 U
58-89-9	Gamma-BHC (Lindane)	16 U
76-44-8	Heptachlor	16 U
309-00-2	Aldrin	16 U
1024-57-3	Heptachlor Epoxide	16 U
959-98-8	Endosulfan I	16 U
60-57-1	Dieldrin	32 U
72-55-9	4,4'-DDE	32 U
72-20-8	Endrin	32 U
33213-65-9	Endosulfan II	32 U
72-54-8	4,4'-DDD	32 U
1031-07-8	Endosulfan Sulfate	32 U
50-29-3	4,4'-DDT	32 U
72-43-5	Methoxychlor	160 U
53494-70-5	Endrin Ketone	32 U
57-74-9	Chlordane	160 U
8001-35-2	Toxaphene	320 U
12674-11-2	Aroclor-1016	160 U
11104-28-2	Aroclor-1221	160 U
11141-16-5	Aroclor-1232	160 U
53469-21-9	Aroclor-1242	160 U
12672-29-6	Aroclor-1248	160 U
11097-69-1	Aroclor-1254	320 U
11096-82-5	Aroclor-1260	320 U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_t 1,000 V_i 4

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S410

Laboratory Name Ecology & Environment, Inc
Case No U-4465

Sample Number
DC-SS-03

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min	Estimated Concentration (ug/l or ug/kg)
1.	Unknown Ketone	VOA	19.6	3 BJ
2.				
3.	UNKNOWN	BNA	7.0	1100 BJ
4.	UNKNOWN	BNA	9.2	2200 J
5.	UNKNOWN	BNA	34.2	400 BJ
6.	UNKNOWN	BNA	35.3	360 J
7.	UNKNOWN	BNA	37.0	320 J
8.				
9				
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30				

Sample Number
DC-SS-04

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc. Case No: U-4465
Lab Sample ID No: 9751 QC Report No:
Sample Matrix: Soil Contract No: IL-3140
Data Release Authorized By: [signature] Date Sample Received: 11-13-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed: 11-22-86
Conc./Dil Factor: 3 pH 7.8
Percent Moisture: (Not Decanted) 19

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	35 B
67-64-1	Acetone	30u
75-15-0	Carbon Disulfide	15u
75-35-4	1, 1-Dichloroethene	15u
75-34-3	1, 1-Dichloroethane	15u
156-60-5	Trans-1, 2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1, 2-Dichloroethane	15u
78-93-3	2-Butanone	30u
71-55-6	1, 1, 1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	15u
10061-02-6	Trans-1, 3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1, 1, 2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1, 3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	30u
591-78-6	2-Hexanone	30u
127-18-4	Tetrachloroethene	15u
79-34-5	1, 1, 2, 2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration, dilution, etc. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described, and such description attached to the data summary report.

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S412

Laboratory Name Ecology & Environment Inc.
Case No V-4465

Sample Number
DC-SS-04

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 11-14-86
Date Analyzed 12-1-86
Conc/Dil Factor: 2
Percent Moisture (Decanted) 19

GPC Cleanup ☐Yes ☒No
Separatory Funnel Extraction ☐Yes
Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
108-95-2	Phenol	410	U
111-44-4	bis(-2-Chloroethyl)Ether	410	U
95-57-8	2-Chlorophenol	410	U
541-73-1	1 3-Dichlorobenzene	410	U
106-46-7	1 4-Dichlorobenzene	410	U
100-51-6	Benzyl Alcohol	410	U
95-50-1	1 2-Dichlorobenzene	410	U
95-48-7	2-Methylphenol	410	U
39638-32-9	bis(2-chloroisopropyl)Ether	410	U
106-44-5	4-Methylphenol	410	U
621-64-7	N-Nitroso-Di-n-Propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2 4-Dimethylphenol	410	U
65-85-0	Benzoic Acid	2000	U
111-91-1	bis(-2-Chloroethoxy)Methane	410	U
120-83-2	2 4-Dichlorophenol	410	U
120-82-1	1 2 4-Trichlorobenzene	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
59-50-7	4-Chloro-3-Methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2 4 6-Trichlorophenol	410	U
95-95-4	2 4 5-Trichlorophenol	2000	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	2000	U
131-11-3	Dimethyl Phthalate	410	U
208-96-8	Acenaphthylene	410	U
99-09-2	3-Nitroaniline	2000	U

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	410	U
51-28-5	2 4-Dinitrophenol	2000	U
100-02-7	4-Nitrophenol	2000	U
132-64-9	Dibenzofuran	410	U
121-14-2	2 4-Dinitrotoluene	410	U
606-20-2	2 6-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
86-73-7	Fluorene	410	U
100-01-6	4-Nitroaniline	2000	U
534-52-1	4 6-Dinitro-2-Methylphenol	2000	U
86-30-6	N-Nitrosodiphenylamine (1)	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
87-86-5	Pentachlorophenol	2000	U
85-01-8	Phenanthrene	410	U
120-12-7	Anthracene	410	U
84-74-2	Di-n-Butylphthalate	170	BJ
206-44-0	Fluoranthene	410	U
129-00-0	Pyrene	410	U
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3 3-Dichlorobenzidine	810	U
56-55-3	Benzo(a)Anthracene	410	U
117-81-7	bis(2-Ethylhexyl)Phthalate	470	
218-01-9	Chrysene	410	U
117-84-0	Di-n-Octyl Phthalate	410	U
205-99-2	Benzo(b)Fluoranthene	410	U
207-08-9	Benzo(k)Fluoranthene	410	U
50-32-8	Benzo(a)Pyrene	410	U
193-39-5	Indeno(1 2 3-cd)Pyrene	410	U
53-70-3	Dibenz(a h)Anthracene	410	U
191-24-2	Benzo(g h i)Perylene	410	U

(1)-Cannot be separated from diphenylamine

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Laboratory Name ecology and environment, inc.

Case No V-4465

Sample Number DC-SS-04

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 11-14-86

Date Analyzed 11-25-86

Conc/Dil Factor 2

Percent Moisture (decanted) 18.6

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or (ug/Kg) (Circle One)
319-84-6	Alpha-BHC	32 U
319-85-7	Beta-BHC	32 U
319-86-8	Delta-BHC	32 U
58-89-9	Gamma-BHC (Lindane)	32 U
76-44-8	Heptachlor	32 U
309-00-2	Aldrin	32 U
1024-57-3	Heptachlor Epoxide	32 U
959-98-8	Endosulfan I	32 U
60-57-1	Dieldrin	64 U
72-55-9	4,4'-DDE	64 U
72-20-8	Endrin	64 U
33213-65-9	Endosulfan II	64 U
72-54-8	4,4'-DDD	64 U
1031-07-8	Endosulfan Sulfate	64 U
50-29-3	4,4'-DDT	64 U
72-43-5	Methoxychlor	320 U
53494-70-5	Endrin Ketone	64 U
57-74-9	Chlordane	320 U
8001-35-2	Toxaphene	640 U
12674-11-2	Aroclor-1016	320 U
11104-28-2	Aroclor-1221	320 U
11141-16-5	Aroclor-1232	320 U
53469-21-9	Aroclor-1242	320 U
12672-29-6	Aroclor-1248	320 U
11097-69-1	Aroclor-1254	640 U
11096-82-5	Aroclor-1260	751

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_t 1,000 V_i 4

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Form 1

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S414

Laboratory Name Ecology & Environment, Inc
Case No U-4465

Sample Number
DC-SS-04

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min	Estimated Concentration (ug/l or ug/kg)
1.	No TIC's in VOA fraction			
2.				
3.	UNKNOWN	BNA	9.2	2500 J
4.	UNKNOWN	BNA	34.2	320 BJ
5.	UNKNOWN HYDROCARBON	BNA	35.3	320 J
6.	UNKNOWN HYDROCARBON	BNA	37.0	300 J
7.	UNKNOWN	BNA	39.0	160 J
8.				
9.				
10.				
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30				

Sample Number
DC-SS-05

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc. Case No. U-4465
Lab Sample ID No: 9752 QC Report No:
Sample Matrix: Soil Contract No: IL-3140
Data Release Authorized By: C Hoytowicz Date Sample Received: 11-13-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed: 11-21-86
Conc./Dil Factor: 3 pH 6.8
Percent Moisture: (Not Decanted) 44

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	42 B
67-64-1	Acetone	48 B
75-15-0	Carbon Disulfide	15u
75-35-4	1, 1-Dichloroethene	15u
75-34-3	1, 1-Dichloroethane	15u
156-60-5	Trans-1, 2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1, 2-Dichloroethane	15u
78-93-3	2-Butanone	51 B
71-55-6	1, 1, 1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	15u
10061-02-6	Trans-1, 3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1, 1, 2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1, 3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	30u
591-78-6	2-Hexanone	30u
127-18-4	Tetrachloroethene	15u
79-34-5	1, 1, 2, 2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration, dilution, action. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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Form I 11/85

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S416

Laboratory Name Ecology & Environment Inc.

Case No V-4465

Sample Number DC-SS-05

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 11-14-86

Date Analyzed 12-1-86

Conc/Dil Factor: 2

Percent Moisture (Decanted) 44

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
108-95-2	Phenol	590	U
111-44-4	bis(-2-Chloroethyl)Ether	590	U
95-57-8	2-Chlorophenol	590	U
541-73-1	1 3-Dichlorobenzene	590	U
106-46-7	1 4-Dichlorobenzene	590	U
100-51-6	Benzyl Alcohol	590	U
95-50-1	1 2-Dichlorobenzene	590	U
95-48-7	2-Methylphenol	590	U
39638-32-9	bis(2-chloroisopropyl)Ether	590	U
106-44-5	4-Methylphenol	590	U
621-64-7	N-Nitroso-Di-n-Propylamine	590	U
67-72-1	Hexachloroethane	590	U
98-95-3	Nitrobenzene	590	U
78-59-1	Isophorone	590	U
88-75-5	2-Nitrophenol	590	U
105-67-9	2, 4-Dimethylphenol	590	U
65-85-0	Benzoic Acid	2900	U
111-91-1	bis(2-Chloroethoxy)Methane	590	U
120-83-2	2 4-Dichlorophenol	590	U
120-82-1	1 2, 4-Trichlorobenzene	590	U
91-20-3	Naphthalene	590	U
106-47-8	4-Chloroaniline	590	U
87-68-3	Hexachlorobutadiene	590	U
59-50-7	4-Chloro-3-Methylphenol	590	U
91-57-6	2-Methylnaphthalene	590	U
77-47-4	Hexachlorocyclopentadiene	590	U
88-06-2	2 4 6-Trichlorophenol	590	U
95 95-4	2 4 5-Trichlorophenol	2900	U
91-58-7	2-Chloronaphthalene	590	U
88-74-4	2-Nitroaniline	2900	U
131-11-3	Dimethyl Phthalate	590	U
208-96-8	Acenaphthylene	590	U
99-09-2	3-Nitroaniline	2900	U

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	590	U
51-28-5	2, 4-Dinitrophenol	2900	U
100-02-7	4-Nitrophenol	2900	U
132-64-9	Dibenzofuran	590	U
121-14-2	2 4-Dinitrotoluene	590	U
606-20-2	2 6-Dinitrotoluene	590	U
84-66-2	Diethylphthalate	590	U
7005-72-3	4-Chlorophenyl-phenylether	590	U
86-73-7	Fluorene	590	U
100-01-6	4-Nitroaniline	2900	U
534-52-1	4, 6-Dinitro-2-Methylphenol	2900	U
86-30-6	N-Nitrosodiphenylamine (1)	590	U
101-55-3	4-Bromophenyl-phenylether	590	U
118-74-1	Hexachlorobenzene	590	U
87-86-5	Pentachlorophenol	2900	U
85-01-8	Phenanthrene	590	U
120-12-7	Anthracene	590	U
84-74-2	Di-n-Butylphthalate	2800	B
206-44-0	Fluoranthene	590	U
129-00-0	Pyrene	590	U
85-68-7	Butylbenzylphthalate	590	U
91-94-1	3 3'-Dichlorobenzidine	1200	U
56-55-3	Benzo(a)Anthracene	590	U
117-81-7	bis(2-Ethylhexyl)Phthalate	590	U
218-01-9	Chrysene	590	U
117-84-0	Di-n-Octyl Phthalate	590	U
205-99-2	Benzo(b)Fluoranthene	590	U
207-08-9	Benzo(k)Fluoranthene	590	U
50-32-8	Benzo(a)Pyrene	590	U
193-39-5	Indeno(1 2, 3-cd)Pyrene	590	U
53-70-3	Dibenz(a h)Anthracene	590	U
191-24-2	Benzo(g h i)Perylene	590	U

(1)-Cannot be separated from diphenylamine

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Form I 7/85

Laboratory Name ecology and environment, inc.

Case No V-4465

Sample Number DC-SS-05

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 11-14-86

Date Analyzed 11-25-86

Conc/Dil Factor 2

Percent Moisture (decanted) 44

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or (ug/Kg) (Circle One)	
319-84-6	Alpha-BHC	32	U
319-85-7	Beta-BHC	32	U
319-86-8	Delta-BHC	32	U
58-89-9	Gamma-BHC (Lindane)	32	U
76-44-8	Heptachlor	32	U
309-00-2	Aldrin	32	U
1024-57-3	Heptachlor Epoxide	32	U
959-98-8	Endosulfan I	32	U
60-57-1	Dieldrin	64	U
72-55-9	4,4'-DDE	79	
72-20-8	Endrin	64	U
33213-65-9	Endosulfan II	64	U
72-54-8	4,4'-DDD	64	U
1031-07-8	Endosulfan Sulfate	64	U
50-29-3	4,4'-DDT	64	U
72-43-5	Methoxychlor	320	U
53494-70-5	Endrin Ketone	64	U
57-74-9	Chlordane	320	U
8001-35-2	Toxaphene	640	U
12674-11-2	Aroclor-1016	320	U
11104-28-2	Aroclor-1221	320	U
11141-16-5	Aroclor-1232	320	U
53469-21-9	Aroclor-1242	320	U
12672-29-6	Aroclor-1248	320	U
11097-69-1	Aroclor-1254	640	U
11096-82-5	Aroclor-1260	990	

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_t 1000 V_i 4

Form 1

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S418

Laboratory Name Ecology & Environment, Inc

Case No U-4465

Sample Number DG-SS-05

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min	Estimated Concentration (ug/l or ug/kg)
1.	No TIC's in VOA fraction			
2.				
3.	UNKNOWN	BNA	7.0	1800 BJ
4.	UNKNOWN		8.1	500 J
5.	UNKNOWN		9.2	3700 J
6.	UNKNOWN		10.5	2200 J
7.	UNKNOWN HYDROCARBON		26.7	490 J
8.	UNKNOWN		34.2	720 BJ
9.	UNKNOWN HYDROCARBON		35.3	860 J
10.	UNKNOWN HYDROCARBON		37.0	940 J
11.	UNKNOWN		39.0	480 J
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Sample Number
DC-SS-06

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc. Case No: U-4465
Lab Sample ID No: 9753 QC Report No:
Sample Matrix: Soil Contract No: IL-3140
Data Release Authorized By: C Hojtowicz Date Sample Received: 11-13-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed: 11-22-86
Conc./Dil Factor: 3 pH 6.7
Percent Moisture: (Not Decanted) 39

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	63 B
67-64-1	Acetone	41 B
75-15-0	Carbon Disulfide	15u
75-35-4	1, 1-Dichloroethene	15u
75-34-3	1, 1-Dichloroethane	15u
156-60-5	Trans-1, 2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1, 2-Dichloroethane	15u
78-93-3	2-Butanone	30u
71-55-6	1, 1, 1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	15u
10061-02-6	Trans-1, 3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1, 1, 2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1, 3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	30u
591-78-6	2-Hexanone	30u
127-18-4	Tetrachloroethene	15u
79-34-5	1, 1, 2, 2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value — If the result is a value greater than or equal to the detection limit, report the value.

U — Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration, dilution, action. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J — Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C — This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B — This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other — Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described, and such description attached to the data summary report.

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Form I 11/85

Laboratory Name Ecology & Environment Inc.

Case No V-4465

Sample Number DC-SS-06

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 11-14-86

Date Analyzed 12-1-86

Conc/Dil Factor: 2

Percent Moisture (Decanted) 39

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
108-95-2	Phenol	540	U
111-44-4	bis(-2-Chloroethyl)Ether	540	U
95-57-8	2-Chlorophenol	540	U
541-73-1	1 3-Dichlorobenzene	540	U
106-46-7	1 4-Dichlorobenzene	540	U
100-51-6	Benzyl Alcohol	540	U
95-50-1	1 2-Dichlorobenzene	540	U
95-48-7	2-Methylphenol	540	U
39638-32-9	bis(2-chloroisopropyl)Ether	540	U
106-44-5	4-Methylphenol	540	U
621-64-7	N-Nitroso-Di-n-Propylamine	540	U
67-72-1	Hexachloroethane	540	U
98-95-3	Nitrobenzene	540	U
78-59-1	Isophorone	540	U
88-75-5	2-Nitrophenol	540	U
105-67-9	2, 4-Dimethylphenol	540	U
65-85-0	Benzoic Acid	2600	U
111-91-1	bis(2-Chloroethoxy)Methane	540	U
120-83-2	2 4-Dichlorophenol	540	U
120-82-1	1 2, 4-Trichlorobenzene	540	U
91-20-3	Naphthalene	540	U
106-47-8	4-Chloroaniline	540	U
87-68-3	Hexachlorobutadiene	540	U
59-50-7	4-Chloro-3-Methylphenol	540	U
91-57-6	2-Methylnaphthalene	540	U
77-47-4	Hexachlorocyclopentadiene	540	U
88-06-2	2 4 6-Trichlorophenol	540	U
95-95-4	2 4 5-Trichlorophenol	2600	U
91-58-7	2-Chloronaphthalene	540	U
88-74-4	2-Nitroaniline	2600	U
131-11-3	Dimethyl Phthalate	540	U
208-96-8	Acenaphthylene	540	U
99-09-2	3-Nitroaniline	2600	U

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	540	U
51-28-5	2, 4-Dinitrophenol	2600	U
100-02-7	4-Nitrophenol	2600	U
132-64-9	Dibenzofuran	540	U
121-14-2	2 4-Dinitrotoluene	540	U
606-20-2	2 6-Dinitrotoluene	540	U
84-66-2	Diethylphthalate	540	U
7005-72-3	4-Chlorophenyl-phenylether	540	U
86-73-7	Fluorene	540	U
100-01-6	4-Nitroaniline	2600	U
534-52-1	4, 6-Dinitro-2-Methylphenol	2600	U
86-30-6	N-Nitrosodiphenylamine (1)	540	U
101-55-3	4-Bromophenyl-phenylether	540	U
118-74-1	Hexachlorobenzene	540	U
87-86-5	Pentachlorophenol	2600	U
85-01-8	Phenanthrene	540	U
120-12-7	Anthracene	540	U
84-74-2	Di-n-Butylphthalate	540	U
206-44-0	Fluoranthene	540	U
129-00-0	Pyrene	540	U
85-68-7	Butylbenzylphthalate	540	U
91-94-1	3, 3 -Dichlorobenzidine	1100	U
56-55-3	Benzo(a)Anthracene	540	U
117-81-7	bis(2-Ethylhexyl)Phthalate	540	U
218-01-9	Chrysene	540	U
117-84-0	Di-n-Octyl Phthalate	540	U
205-99-2	Benzo(b)Fluoranthene	540	U
207-08-9	Benzo(k)Fluoranthene	540	U
50-32-8	Benzo(a)Pyrene	540	U
193-39-5	Indeno(1 2, 3-cd)Pyrene	540	U
53-70-3	Dibenz(a h)Anthracene	540	U
191-24-2	Benzo(g h i)Perylene	540	U

(1)-Cannot be separated from diphenylamine

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Form I 7 85

Laboratory Name ecology and environment, inc.

Case No U-4465

Sample Number DC-SS-06

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 11-14-86

Date Analyzed 11-25-86

Conc/Dil Factor 1

Percent Moisture (decanted) 39.2

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or (ug/Kg) (Circle One)
319-84-6	Alpha-BHC	16 U
319-85-7	Beta-BHC	16 U
319-86-8	Delta-BHC	16 U
58-89-9	Gamma-BHC (Lindane)	16 U
76-44-8	Heptachlor	16 U
309-00-2	Aldrin	16 U
1024-57-3	Heptachlor Epoxide	16 U
959-98-8	Endosulfan I	16 U
60-57-1	Dieldrin	32 U
72-55-9	4,4'-DDE	51
72-20-8	Endrin	32 U
33213-65-9	Endosulfan II	32 U
72-54-8	4,4'-DDD	32 U
1031-07-8	Endosulfan Sulfate	32 U
50-29-3	4,4'-DDT	32 U
72-43-5	Methoxychlor	160 U
53494-70-5	Endrin Ketone	32 U
57-74-9	Chlordane	160 U
8001-35-2	Toxaphene	320 U
12674-11-2	Aroclor-1016	160 U
11104-28-2	Aroclor-1221	160 U
11141-16-5	Aroclor-1232	160 U
53469-21-9	Aroclor-1242	160 U
12672-29-6	Aroclor-1248	160 U
11097-69-1	Aroclor-1254	320 U
11096-82-5	Aroclor-1260	740

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_t 1000 V_i 4

Laboratory Name Ecology & Environmental, Inc
Case No U-4465

Sample Number
DC-SS-06

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min	Estimated Concentration (ug/l or ug/kg)
1.	Unknown	VOA	18.0	3 J
2.	Dimethyl butene isomer	VOA	18.7	9 J
3.				
4.	UNKNOWN	BNA	7.0	1300 BJ
5.	UNKNOWN		8.0	3500 J
6.	UNKNOWN HYDROCARBON		26.7	360 J
7.	UNKNOWN		34.2	860 BJ
8.	UNKNOWN HYDROCARBON		37.0	330 J
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Sample Number
DC-SS-07

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc. Case No: U-4465
Lab Sample ID No: 9754 QC Report No:
Sample Matrix: Soil Contract No: IL-3140
Data Release Authorized By: [signature] Date Sample Received: 11-13-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed: 11-22-86
Conc/Dil Factor: 3 pH 7.0
Percent Moisture: (Not Decanted) 30

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	61 B
67-64-1	Acetone	25 JB
75-15-0	Carbon Disulfide	15u
75-35-4	1,1-Dichloroethene	15u
75-34-3	1,1-Dichloroethane	15u
156-60-5	Trans-1,2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1,2-Dichloroethane	15u
78-93-3	2-Butanone	51 B
71-55-6	1,1,1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1,2-Dichloropropane	15u
10061-02-6	Trans-1,3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1,1,2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1,3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	30u
591-78-6	2-Hexanone	30u
127-18-4	Tetrachloroethene	15u
79-34-5	1,1,2,2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration, dilution, action. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.

C This flag applies to pesticide/PCB analytes where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/µl in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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Laboratory Name Ecology & Environment Inc.

Case No V-4465

Sample Number DC-SS-07

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 11-14-86

Date Analyzed 12-3-86

Conc/Dil Factor: 2

Percent Moisture (Decanted) 30

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
108-95-2	Phenol	470	U
111-44-4	bis(-2-Chloroethyl)Ether	470	U
95-57-8	2-Chlorophenol	470	U
541-73-1	1 3-Dichlorobenzene	470	U
106-46-7	1 4-Dichlorobenzene	470	U
100-51-6	Benzyl Alcohol	470	U
95-50-1	1 2-Dichlorobenzene	470	U
95-48-7	2-Methylphenol	470	U
39638-32-9	bis(2-chloroisopropyl)Ether	470	U
106-44-5	4-Methylphenol	470	U
621-64-7	N-Nitroso-Di-n-Propylamine	470	U
67-72-1	Hexachloroethane	470	U
98-95-3	Nitrobenzene	470	U
78-59-1	Isophorone	470	U
88-75-5	2-Nitrophenol	470	U
105-67-9	2, 4-Dimethylphenol	470	U
65-85-0	Benzoic Acid	2300	U
111-91-1	bis(2-Chloroethoxy)Methane	470	U
120-83-2	2 4-Dichlorophenol	470	U
120-82-1	1 2, 4-Trichlorobenzene	470	U
91-20-3	Naphthalene	470	U
106-47-8	4-Chloroaniline	470	U
87-68-3	Hexachlorobutadiene	470	U
59-50-7	4-Chloro-3-Methylphenol	470	U
91-57-6	2-Methylnaphthalene	470	U
77-47-4	Hexachlorocyclopentadiene	470	U
88-06-2	2 4 6-Trichlorophenol	470	U
95-95-4	2 4 5-Trichlorophenol	2300	U
91-58-7	2-Chloronaphthalene	470	U
88-74-4	2-Nitroaniline	2300	U
131-11-3	Dimethyl Phthalate	470	U
208-96-8	Acenaphthylene	470	U
99-09-2	3-Nitroaniline	2300	U

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	470	U
51-28-5	2, 4-Dinitrophenol	2300	U
100-02-7	4-Nitrophenol	2300	U
132-64-9	Dibenzofuran	470	U
121-14-2	2 4-Dinitrotoluene	470	U
606-20-2	2 6-Dinitrotoluene	470	U
84-66-2	Diethylphthalate	470	U
7005-72-3	4-Chlorophenyl-phenylether	470	U
86-73-7	Fluorene	470	U
100-01-6	4-Nitroaniline	2300	U
534-52-1	4 6-Dinitro-2-Methylphenol	2300	U
86-30-6	N-Nitrosodiphenylamine (1)	470	U
101-55-3	4-Bromophenyl-phenylether	470	U
118-74-1	Hexachlorobenzene	470	U
87-86-5	Pentachlorophenol	2300	U
85-01-8	Phenanthrene	470	U
120-12-7	Anthracene	470	U
84-74-2	Di-n-Butylphthalate	460	B J
206-44-0	Fluoranthene	480	
129-00-0	Pyrene	290	J
85-68-7	Butylbenzylphthalate	470	U
91-94-1	3 3-Dichlorobenzidine	940	U
56-55-3	Benzo(a)Anthracene	220	J
117-81-7	bis(2-Ethylhexyl)Phthalate	170	J
218-01-9	Chrysene	310	J
117-84-0	Di-n-Octyl Phthalate	470	U
205-99-2	Benzo(b)Fluoranthene	610	
207-08-9	Benzo(k)Fluoranthene	470	U
50-32-8	Benzo(a)Pyrene	190	J
193-39-5	Indeno(1 2, 3-cd)Pyrene	280	J
53-70-3	Dibenz(a h)Anthracene	84	J
191-24-2	Benzo(g h i)Perylene	230	J

(1)-Cannot be separated from diphenylamine

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ecology and environment

S425

Laboratory Name ecology and environment, inc.

Case No U-4465

Sample Number DC-SS-07

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 11-14-86

Date Analyzed 11-25-86

Conc/Dil Factor 5

Percent Moisture (decanted) 29.6

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	80 U
319-85-7	Beta-BHC	80 U
319-86-8	Delta-BHC	80 U
58-89-9	Gamma-BHC (Lindane)	80 U
76-44-8	Heptachlor	80 U
309-00-2	Aldrin	80 U
1024-57-3	Heptachlor Epoxide	80 U
959-98-8	Endosulfan I	80 U
60-57-1	Dieldrin	160 U
72-55-9	4,4'-DDE	290
72-20-8	Endrin	160 U
33213-65-9	Endosulfan II	160 U
72-54-8	4,4'-DDD	160 U
1031-07-8	Endosulfan Sulfate	160 U
50-29-3	4,4'-DDT	160 U
72-43-5	Methoxychlor	800 U
53494-70-5	Endrin Ketone	160 U
57-74-9	Chlordane	800 U
8001-35-2	Toxaphene	1600 U
12674-11-2	Aroclor-1016	800 U
11104-28-2	Aroclor-1221	800 U
11141-16-5	Aroclor-1232	800 U
53469-21-9	Aroclor-1242	800 U
12672-29-6	Aroclor-1248	800 U
11097-69-1	Aroclor-1254	1600 U
11096-82-5	Aroclor-1260	3800

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_t 1,000 V_i 4

Form 1

7/85

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ecology

491095

S426

Laboratory Name ECOLOGY & ENVIRONMENT INC.
Case No U-4465

Sample Number
DC-SS-07

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number MIN.	Estimated Concentration (ug/l or ug/kg)	
1.		HEXENE ISOMER	VOA	17.1	7	J
2.		UNKNOWN KETONE	|	19.5	5	BJ
3.		HEXANE ISOMER	|	21.2	27	BJ
4						
5		UNKNOWN	BNA	8.0	680	J
6		UNKNOWN	|	22.9	230	J
7		UNKNOWN HYDROCARBON	|	23.9	60	J
8		UNKNOWN	|	26.3	150	J
9		UNKNOWN	|	34.3	290	J
10		UNKNOWN HYDROCARBON	|	35.4	750	J
11		UNKNOWN	|	36.9	860	J
12		UNKNOWN HYDROCARBON	|	37.1	1100	J
13	59029	VITAMIN E	|	37.5	470	J
14		UNKNOWN HYDROCARBON	|	38.8	370	J
15		UNKNOWN	|	39.0	84	J
16		UNKNOWN	|	39.2	1600	J
17		UNKNOWN	|	39.6	410	J
18		UNKNOWN	|	40.0	330	J
19		~~STEROID~~ STEROID	|	40.4	940	J
20		UNKNOWN	|	40.8	88	J
21		UNKNOWN	|	41.0	270	J
22		UNKNOWN	|	41.4	100	J
23		UNKNOWN	|	42.6	120	J
24						
25						
26						
27						
28						
29						
30						

Sample Number
DC-SS-08

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc. Case No: U-4465
Lab Sample ID No: 9755 QC Report No:
Sample Matrix: Soil Contract No: IL-3140
Data Release Authorized By: [signature] Date Sample Received: 11-13-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed: 11-25-86
Conc./Dil Factor: 3 pH 7.7
Percent Moisture: (Not Decanted) 13

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	27B
67-64-1	Acetone	30u
75-15-0	Carbon Disulfide	15u
75-35-4	1,1-Dichloroethene	15u
75-34-3	1,1-Dichloroethane	15u
156-60-5	Trans-1,2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1,2-Dichloroethane	15u
78-93-3	2-Butanone	37B
71-55-6	1,1,1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or (ug/Kg) (Circle One)
78-87-5	1,2-Dichloropropane	15u
10061-02-6	Trans-1,3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1,1,2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1,3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	30u
591-78-6	2-Hexanone	30u
127-18-4	Tetrachloroethene	15u
79-34-5	1,1,2,2-Tetrachloroethane	15u
108-88-3	Toluene	18B
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration, dilution, etc. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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Form I 11/85

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S428

Laboratory Name ECOLOGY & ENVIRONMENT INC.

Case No V-4465

Sample Number DC-SS-08

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 11-14-86

Date Analyzed 12-3-86

Conc./Dil Factor 2

Percent Moisture (Decanted) 13

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
108-95-2	Phenol	380	U
111-44-4	bis(2-Chloroethyl)Ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
100-51-6	Benzyl Alcohol	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
39638-32-9	bis(2-chloroisopropyl)Ether	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-Di-n-Propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
65-85-0	Benzoic Acid	1800	U
111-91-1	bis(2-Chloroethoxy)Methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-Methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	1800	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethyl Phthalate	380	U
208-96-8	Acenaphthylene	380	U
99-09-2	3-Nitroaniline	1800	U

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	380	U
51-28-5	2,4-Dinitrophenol	1800	U
100-02-7	4-Nitrophenol	1800	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	1800	U
534-52-1	4,6-Dinitro-2-Methylphenol	1800	U
86-30-6	N-Nitrosodiphenylamine (1)	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	1800	U
85-01-8	Phenanthrene	380	U
120-12-7	Anthracene	380	U
84-74-2	Di-n-Butylphthalate	320	BJ
206-44-0	Fluoranthene	380	U
129-00-0	Pyrene	380	U
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	760	U
56-55-3	Benzo(a)Anthracene	380	U
117-81-7	bis(2-Ethylhexyl)Phthalate	140	J
218-01-9	Chrysene	380	U
117-84-0	Di-n-Octyl Phthalate	380	U
205-99-2	Benzo(b)Fluoranthene	380	U
207-08-9	Benzo(k)Fluoranthene	160	J
50-32-8	Benzo(a)Pyrene	47	J
193-39-5	Indeno(1,2,3-cd)Pyrene	380	U
53-70-3	Dibenz(a,h)Anthracene	380	U
191-24-2	Benzo(g,h,i)Perylene	380	U

(1)-Cannot be separated from diphenylamine

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ecology inc

Laboratory Name ecology and environment, inc.

Case No U-4465

Sample Number DC-SS-08

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration Low Medium (Circle One)

Date Extracted/Prepared 11-14-86

Date Analyzed 11-26-86

Conc/Dil Factor 2

Percent Moisture (decanted) 13.1

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	32 U
319-85-7	Beta-BHC	32 U
319-86-8	Delta-BHC	32 U
58-89-9	Gamma-BHC (Lindane)	32 U
76-44-8	Heptachlor	32 U
309-00-2	Aldrin	32 U
1024-57-3	Heptachlor Epoxide	32 U
959-98-8	Endosulfan I	32 U
60-57-1	Dieldrin	64 U
72-55-9	4,4'-DDE	84
72-20-8	Endrin	64 U
33213-65-9	Endosulfan II	64 U
72-54-8	4,4'-DDD	64 U
1031-07-8	Endosulfan Sulfate	64 U
50-29-3	4,4'-DDT	64 U
72-43-5	Methoxychlor	320 U
53494-70-5	Endrin Ketone	64 U
57-74-9	Chlordane	320 U
8001-35-2	Toxaphene	640 U
12674-11-2	Aroclor-1016	320 U
11104-28-2	Aroclor-1221	320 U
11141-16-5	Aroclor-1232	320 U
53469-21-9	Aroclor-1242	320 U
12672-29-6	Aroclor-1248	320 U
11097-69-1	Aroclor-1254	1430
11096-82-5	Aroclor-1260	1830

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_t 1,000 V_i 4

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Form 1

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ecology

S430

Laboratory Name Ecology & Environment, Inc

Case No U-4465

Sample Number
DC-SS-08

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min	Estimated Concentration (ug/l or ug/kg)
1.	Unknown Ketone	VOA	19.5	7BJ
2.	Hexane Isomer	VOA	21.2	9BJ
3.				
4.	UNKNOWN HYDROCARBON	BNA	5.5	900 J
5.	UNKNOWN HYDROCARBON		5.7	660 J
6.	UNKNOWN		7.0	1100 BJ
7.	UNKNOWN		9.2	870 J
8.	UNKNOWN HYDROCARBON		31.6	160 J
9.	UNKNOWN HYDROCARBON		33.5	290 J
10.	UNKNOWN HYDROCARBON		34.5	120 J
11.	UNKNOWN HYDROCARBON		35.4	560 J
12.	UNKNOWN HYDROCARBON		37.1	500 J
13.	UNKNOWN HYDROCARBON		38.8	220 J
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30				

Sample Number
DC-SS-09

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc. Case No: U-4465
Lab Sample ID No: 9756 QC Report No:
Sample Matrix: Soil Contract No: IL-3140
Data Release Authorized By: [signature] Date Sample Received: 11-13-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed: 11-22-86
Conc./Dil Factor: 3 pH 7.1
Percent Moisture: (Not Decanted) 30

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	51 B
67-64-1	Acetone	55 B
75-15-0	Carbon Disulfide	15u
75-35-4	1,1-Dichloroethene	15u
75-34-3	1,1-Dichloroethane	15u
156-60-5	Trans-1,2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1,2-Dichloroethane	15u
78-93-3	2-Butanone	57 B
71-55-6	1,1,1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1,2-Dichloropropane	15u
10061-02-6	Trans-1,3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1,1,2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1,3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	9 J
591-78-6	2-Hexanone	30u
127-18-4	Tetrachloroethene	22
79-34-5	1,1,2,2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration, dilution, action. (This is not necessarily the instrument detection limit.) The footnote should read: U Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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Form I 11/85

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Laboratory Name Ecology & Environment Inc.
Case No V-4465

Sample Number
DC-SS-09

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared 11-14-86
Date Analyzed 12-1-86
Conc./Dil Factor 10
Percent Moisture (Decanted) 30

GPC Cleanup ☐Yes ☒No
Separatory Funnel Extraction ☐Yes
Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
108-95-2	Phenol	2400	U
111-44-4	bis(-2-Chloroethyl)Ether	2400	U
95-57-8	2-Chlorophenol	2400	U
541-73-1	1,3-Dichlorobenzene	2400	U
106-46-7	1,4-Dichlorobenzene	2400	U
100-51-6	Benzyl Alcohol	2400	U
95-50-1	1,2-Dichlorobenzene	2400	U
95-48-7	2-Methylphenol	2400	U
39638-32-9	bis(2-chloroisopropyl)Ether	2400	U
106-44-5	4-Methylphenol	2400	U
621-64-7	N-Nitroso-Di-n-Propylamine	2400	U
67-72-1	Hexachloroethane	2400	U
98-95-3	Nitrobenzene	2400	U
78-59-1	Isophorone	2400	U
88-75-5	2-Nitrophenol	2400	U
105-67-9	2,4-Dimethylphenol	2400	U
65-85-0	Benzoic Acid	11000	U
111-91-1	bis(2-Chloroethoxy)Methane	2400	U
120-83-2	2,4-Dichlorophenol	2400	U
120-82-1	1,2,4-Trichlorobenzene	2400	U
91-20-3	Naphthalene	810	J
106-47-8	4-Chloroaniline	2400	U
87-68-3	Hexachlorobutadiene	2400	U
59-50-7	4-Chloro-3-Methylphenol	2400	U
91-57-6	2-Methylnaphthalene	2400	U
77-47-4	Hexachlorocyclopentadiene	2400	U
88-06-2	2,4,6-Trichlorophenol	2400	U
95-95-4	2,4,5-Trichlorophenol	11000	U
91-58-7	2-Chloronaphthalene	2400	U
88-74-4	2-Nitroaniline	11000	U
131-11-3	Dimethyl Phthalate	2400	U
208-96-8	Acenaphthylene	2400	U
99-09-2	3-Nitroaniline	11000	U

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	2400	U
51-28-5	2,4-Dinitrophenol	11000	U
100-02-7	4-Nitrophenol	11000	U
132-64-9	Dibenzofuran	2400	U
121-14-2	2,4-Dinitrotoluene	2400	U
606-20-2	2,6-Dinitrotoluene	2400	U
84-66-2	Diethylphthalate	2400	U
7005-72-3	4-Chlorophenyl-phenylether	2400	U
86-73-7	Fluorene	2400	U
100-01-6	4-Nitroaniline	11000	U
534-52-1	4,6-Dinitro-2-Methylphenol	11000	U
86-30-6	N-Nitrosodiphenylamine (1)	2400	U
101-55-3	4-Bromophenyl-phenylether	2400	U
118-74-1	Hexachlorobenzene	2400	U
87-86-5	Pentachlorophenol	2600	J
85-01-8	Phenanthrene	2400	U
120-12-7	Anthracene	2400	U
84-74-2	Di-n-Butylphthalate	2400	U
206-44-0	Fluoranthene	540	J
129-00-0	Pyrene	2400	U
85-68-7	Butylbenzylphthalate	2400	U
91-94-1	3,3'-Dichlorobenzidine	4700	U
56-55-3	Benzo(a)Anthracene	950	J
117-81-7	bis(2-Ethylhexyl)Phthalate	240	J
218-01-9	Chrysene	2400	U
117-84-0	Di-n-Octyl Phthalate	2400	U
205-99-2	Benzo(b)Fluoranthene	750	J
207-08-9	Benzo(k)Fluoranthene	2400	U
50-32-8	Benzo(a)Pyrene	2400	U
193-39-5	Indeno(1,2,3-cd)Pyrene	2400	U
53-70-3	Dibenzo(a,h)Anthracene	2400	U
191-24-2	Benzo(g,h,i)Perylene	1100	J

(1)-Cannot be separated from diphenylamine

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Form 1 7/85

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S433

Laboratory Name ecology and environment, inc.

Case No U-4465

Sample Number DC-SS-09

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 11-14-86

Date Analyzed 11-26-86

Conc/Dil Factor 2,000

Percent Moisture (decanted) 30.1

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	32,000 U
319-85-7	Beta-BHC	32,000 U
319-86-8	Delta-BHC	32,000 U
58-89-9	Gamma-BHC (Lindane)	32,000 U
76-44-8	Heptachlor	32,000 U
309-00-2	Aldrin	32,000 U
1024-57-3	Heptachlor Epoxide	32,000 U
959-98-8	Endosulfan I	32,000 U
60-57-1	Dieldrin	64,000 U
72-55-9	4,4'-DDE	64,000 U
72-20-8	Endrin	64,000 U
33213-65-9	Endosulfan II	64,000 U
72-54-8	4,4'-DDD	64,000 U
1031-07-8	Endosulfan Sulfate	64,000 U
50-29-3	4,4'-DDT	64,000 U
72-43-5	Methoxychlor	320,000 U
53494-70-5	Endrin Ketone	64,000 U
57-74-9	Chlordane	320,000 U
8001-35-2	Toxaphene	640,000 U
12674-11-2	Aroclor-1016	320,000 U
11104-28-2	Aroclor-1221	320,000 U
11141-16-5	Aroclor-1232	320,000 U
53469-21-9	Aroclor-1242	320,000 U
12672-29-6	Aroclor-1248	2,730,000 C
11097-69-1	Aroclor-1254	640,000 U
11096-82-5	Aroclor-1260	640,000 U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_t 1,000 V_i 4

Form 1

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S434

Laboratory Name Ecology & Environment, Inc
Case No U-4465

Sample Number
DC-SS-09

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number min	Estimated Concentration (ug/l or ug/kg)
1.	563780	2,3-Dimethyl-1-Butene	VOA	18.0	7 J
2.		Methyl pentene isomer	VOA	18.7	17 J
3.		Unknown Ketone	VOA	19.5	5 BJ
4		Hexane isomer	VOA	21.2	4 BJ
5.					
6.		TRIMETHYL PROPYL BENZENE ISOMER	BNA	21.1	38000 J
7.		TRIMETHYL PROPYL BENZENE ISOMER		21.3	71000 J
8.	4162400	(1-ETHYL-1-METHYLBUTYL) BENZENE		21.4	31000 J
9	5519258	(1,1-DIMETHYL NONYL) BENZENE		21.8	90000 J
10.		UNKNOWN - AROMATIC		21.9	58000 J
11.		UNKNOWN- AROMATIC		22.0	98000 J
12.		UNKNOWN		22.1	71000 J
13.		(DIMETHYLDECYL) BENZENE ISOMER		22.4	180000 J
14.		UNKNOWN		22.5	98000 J
15.		DIMETHYL NONYL BENZENE ISOMER		22.7	170000 J
16.		DIMETHYL NONYL BENZENE ISOMER		22.8	140000 J
17.		DIMETHYL NONYL BENZENE ISOMER		22.9	90000 J
18.		PCB	✓	23.8-27.6	—
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30					

Sample Number
DC-SS-10

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc. Case No: U-4465

Lab Sample ID No: 9757 QC Report No:

Sample Matrix: Soil Contract No: IL-3140

Data Release Authorized By: [signature] Date Sample Received: 11-13-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed: 11-22-86

Conc./Dil Factor: 3 pH 6.4

Percent Moisture: (Not Decanted) 24

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	59 B
67-64-1	Acetone	30u
75-15-0	Carbon Disulfide	15u
75-35-4	1,1-Dichloroethene	15u
75-34-3	1,1-Dichloroethane	15u
156-60-5	Trans-1,2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1,2-Dichloroethane	15u
78-93-3	2-Butanone	30u
71-55-6	1,1,1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or (ug/Kg) (Circle One)
78-87-5	1,2-Dichloropropane	15u
10061-02-6	Trans-1,3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1,1,2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1,3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	8 J
591-78-6	2-Hexanone	30u
127-18-4	Tetrachloroethene	11 J
79-34-5	1,1,2,2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration, dilution, action. (This is not necessarily the instrument detection limit.) The footnote should read: U Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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Form I 11/85

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S436

Laboratory Name Ecology & Environment Inc.

Case No V-4465

Sample Number DC-SS-10

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 11-14-86

Date Analyzed 12-2-86

Conc./Dil Factor: 10

Percent Moisture (Decanted) 24

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
108-95-2	Phenol	2200	U
111-44-4	bis(-2-Chloroethyl)Ether	2200	U
95-57-8	2-Chlorophenol	2200	U
541-73-1	1 3-Dichlorobenzene	2200	U
106-46-7	1 4-Dichlorobenzene	2200	U
100-51-6	Benzyl Alcohol	2200	U
95-50-1	1 2-Dichlorobenzene	2200	U
95-48-7	2-Methylphenol	2200	U
39638-32-9	bis(2-chloroisopropyl)Ether	2200	U
106-44-5	4-Methylphenol	2200	U
621-64-7	N-Nitroso-Di-n-Propylamine	2200	U
67-72-1	Hexachloroethane	2200	U
98-95-3	Nitrobenzene	2200	U
78-59-1	Isophorone	2200	U
88-75-5	2-Nitrophenol	2200	U
105-67-9	2, 4-Dimethylphenol	2200	U
65-85-0	Benzoic Acid	10000	U
111-91-1	bis(2-Chloroethoxy)Methane	2200	U
120-83-2	2 4-Dichlorophenol	2200	U
120-82-1	1 2, 4-Trichlorobenzene	2200	U
91-20-3	Naphthalene	2200	U
106-47-8	4-Chloroaniline	2200	U
87-68-3	Hexachlorobutadiene	2200	U
59-50-7	4-Chloro-3-Methylphenol	2200	U
91-57-6	2-Methylnaphthalene	2200	U
77-47-4	Hexachlorocyclopentadiene	2200	U
88-06-2	2 4 6-Trichlorophenol	2200	U
95-95-4	2 4 5-Trichlorophenol	10000	U
91-58-7	2-Chloronaphthalene	2200	U
88-74-4	2-Nitroaniline	10000	U
131-11-3	Dimethyl Phthalate	2200	U
208-96-8	Acenaphthylene	2200	U
99-09-2	3-Nitroaniline	10000	U

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	2200	U
51-28-5	2, 4-Dinitrophenol	10000	U
100-02-7	4-Nitrophenol	10000	U
132-64-9	Dibenzofuran	2200	U
121-14-2	2 4-Dinitrotoluene	2200	U
606-20-2	2 6-Dinitrotoluene	2200	U
84-66-2	Diethylphthalate	2200	U
7005-72-3	4-Chlorophenyl-phenylether	2200	U
86-73-7	Fluorene	2200	U
100-01-6	4-Nitroaniline	10000	U
534-52-1	4, 6-Dinitro-2-Methylphenol	10000	U
86-30-6	N-Nitrosodiphenylamine (1)	2200	U
101-55-3	4-Bromophenyl-phenylether	2200	U
118-74-1	Hexachlorobenzene	2200	U
87-86-5	Pentachlorophenol	10000	U
85-01-8	Phenanthrene	2200	U
120-12-7	Anthracene	2200	U
84-74-2	Di-n-Butylphthalate	2200	U
206-44-0	Fluoranthene	2200	U
129-00-0	Pyrene	2200	U
85-68-7	Butylbenzylphthalate	2200	U
91-94-1	3 3-Dichlorobenzidine	4300	U
56-55-3	Benzo(a)Anthracene	2200	U
117-81-7	bis(2-Ethylhexyl)Phthalate	2200	U
218-01-9	Chrysene	2200	U
117-84-0	Di-n-Octyl Phthalate	610	BJ
205-99-2	Benzo(b)Fluoranthene	2200	U
207-08-9	Benzo(k)Fluoranthene	2200	U
50-32-8	Benzo(a)Pyrene	2200	U
193-39-5	Indeno(1 2, 3-cd)Pyrene	2200	U
53-70-3	Dibenz(a h)Anthracene	2200	U
191-24-2	Benzo(g h i)Perylene	2200	U

(1)-Cannot be separated from diphenylamine

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Laboratory Name ecology and environment, inc.

Case No U-4465

Sample Number DC-SS-10

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 11-14-86

Date Analyzed 11-25-86

Conc/Dil Factor 100

Percent Moisture (decanted) 24

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	1,600 U
319-85-7	Beta-BHC	1,600 U
319-86-8	Delta-BHC	1,600 U
58-89-9	Gamma-BHC (Lindane)	1,600 U
76-44-8	Heptachlor	1,600 U
309-00-2	Aldrin	1,600 U
1024-57-3	Heptachlor Epoxide	1,600 U
959-98-8	Endosulfan I	1,600 U
60-57-1	Dieldrin	3,200 U
72-55-9	4,4'-DDE	3,200 U
72-20-8	Endrin	3,200 U
33213-65-9	Endosulfan II	3,200 U
72-54-8	4,4'-DDD	3,200 U
1031-07-8	Endosulfan Sulfate	3,200 U
50-29-3	4,4'-DDT	3,200 U
72-43-5	Methoxychlor	16,000 U
53494-70-5	Endrin Ketone	3,200 U
57-74-9	Chlordane	16,000 U
8001-35-2	Toxaphene	32,000 U
12674-11-2	Aroclor-1016	16,000 U
11104-28-2	Aroclor-1221	16,000 U
11141-16-5	Aroclor-1232	16,000 U
53469-21-9	Aroclor-1242	16,000 U
12672-29-6	Aroclor-1248	44,000
11097-69-1	Aroclor-1254	32,000 U
11096-82-5	Aroclor-1260	32,000 U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_t 1,000 V_i 4

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Form 1

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ecology and

S438

Laboratory Name Ecology & Environment, Inc

Case No U-4465

Sample Number DC-SS-10

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number min	Estimated Concentration (ug/l or ug/kg)
1.		Hexene isomer	VOA	18.0	110 J
2.		Unknown Ketone	VOA	19.5	5 BJ
3.		Unknown (methylene pentane?)	VOA	19.9	28 J
4.		Hexane isomer	VOA	21.1	2 JB
5.		Hexene isomer	VOA	18.7	260 J
6.					
7.		UNKNOWN	BNA	21.8	780,000 J
8.		UNKNOWN		23.7	68,000 J
9.	84651	9,10-ANTHRACENEDIONE		25.5	43000 J
10.		UNKNOWN HYDROCARBON		26.1	64000 J
11.	10544501	MOLECULAR SULFUR		26.2	41000 J
12.	81845	1H,3H-NAPHTHO[1,8-CD]PYRAN-1,3-DIONE		26.4	37000 J
13.		ANTHRACENEDIONE		28.7	31000 J
14.		UNKNOWN		29.5	13000 J
15.		UNKNOWN		31.6	5300 J
16.	82451	1-AMINO-9,10-ANTHRACENEDIONE		32.2	39000 J
17.		UNKNOWN		32.5	6600 J
18.	482235	3-(3-OXO-1(3H)-ISOBENZOFURANYLIDENE)-		32.8	35000 J
19.		1(3H)-ISOBENZOFURANONE			
20.		UNKNOWN		33.3	23000 J
21.		UNKNOWN		34.3	13000 BJ
22.		UNKNOWN		36.8	28000 J
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

Sample Number
DC-SS-11

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc. Case No: U-4465
Lab Sample ID No: 9758 QC Report No:
Sample Matrix: Soil Contract No: IL-3140
Data Release Authorized By: [signature] Date Sample Received: 11-13-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed: 11-25-86
Conc./Dil Factor: 3 pH 4.3
Percent Moisture: (Not Decanted) 36

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	59 B
67-64-1	Acetone	37 B
75-15-0	Carbon Disulfide	15u
75-35-4	1, 1-Dichloroethene	15u
75-34-3	1, 1-Dichloroethane	15u
156-60-5	Trans-1, 2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1, 2-Dichloroethane	15u
78-93-3	2-Butanone	30u
71-55-6	1, 1, 1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	15u
10061-02-6	Trans-1, 3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1, 1, 2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1, 3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	16 J
591-78-6	2-Hexanone	30u
127-18-4	Tetrachloroethene	63
79-34-5	1, 1, 2, 2-Tetrachloroethane	15u
108-88-3	Toluene	36 B
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration, dilution, etc. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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Form I 11/85

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Laboratory Name Ecology & Environment Inc.

Case No V-4465

Sample Number DC-SS-11

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 11-14-86

Date Analyzed 12-2-86

Conc/Dil Factor 20

Percent Moisture (Decanted) 36

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
108-95-2	Phenol	5200	U
111-44-4	bis(2-Chloroethyl)Ether	5200	U
95-57-8	2-Chlorophenol	5200	U
541-73-1	1,3-Dichlorobenzene	5200	U
106-46-7	1,4-Dichlorobenzene	5200	U
100-51-6	Benzyl Alcohol	5200	U
95-50-1	1,2-Dichlorobenzene	5200	U
95-48-7	2-Methylphenol	5200	U
39638-32-9	bis(2-chloroisopropyl)Ether	5200	U
106-44-5	4-Methylphenol	5200	U
621-64-7	N-Nitroso-Di-n-Propylamine	5200	U
67-72-1	Hexachloroethane	5200	U
98-95-3	Nitrobenzene	5200	U
78-59-1	Isophorone	5200	U
88-75-5	2-Nitrophenol	5200	U
105-67-9	2,4-Dimethylphenol	5200	U
65-85-0	Benzoic Acid	25000	U
111-91-1	bis(2-Chloroethoxy)Methane	5200	U
120-83-2	2,4-Dichlorophenol	5200	U
120-82-1	1,2,4-Trichlorobenzene	5200	U
91-20-3	Naphthalene	14000	
106-47-8	4-Chloroaniline	5200	U
87-68-3	Hexachlorobutadiene	5200	U
59-50-7	4-Chloro-3-Methylphenol	5200	U
91-57-6	2-Methylnaphthalene	1000	J
77-47-4	Hexachlorocyclopentadiene	5200	U
88-06-2	2,4,6-Trichlorophenol	5200	U
95-95-4	2,4,5-Trichlorophenol	25000	U
91-58-7	2-Chloronaphthalene	5200	U
88-74-4	2-Nitroaniline	25000	U
131-11-3	Dimethyl Phthalate	5200	U
208-96-8	Acenaphthylene	5200	U
99-09-2	3-Nitroaniline	25000	U

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	570	J
51-28-5	2,4-Dinitrophenol	25000	U
100-02-7	4-Nitrophenol	25000	U
132-64-9	Dibenzofuran	920	J
121-14-2	2,4-Dinitrotoluene	5200	U
606-20-2	2,6-Dinitrotoluene	5200	U
84-66-2	Diethylphthalate	5200	U
7005-72-3	4-Chlorophenyl-phenylether	5200	U
86-73-7	Fluorene	5200	U
100-01-6	4-Nitroaniline	25000	U
534-52-1	4,6-Dinitro-2-Methylphenol	25000	U
86-30-6	N-Nitrosodiphenylamine (1)	5200	U
101-55-3	4-Bromophenyl-phenylether	5200	U
118-74-1	Hexachlorobenzene	5200	U
87-86-5	Pentachlorophenol	4700	J
85-01-8	Phenanthrene	4800	J
120-12-7	Anthracene	5200	U
84-74-2	Di-n-Butylphthalate	5200	U
206-44-0	Fluoranthene	5200	U
129-00-0	Pyrene	5200	U
85-68-7	Butylbenzylphthalate	5200	U
91-94-1	3,3'-Dichlorobenzidine	10000	U
56-55-3	Benzo(a)Anthracene	5200	U
117-81-7	bis(2-Ethylhexyl)Phthalate	6000	
218-01-9	Chrysene	5200	U
117-84-0	Di-n-Octyl Phthalate	2600	BJ
205-99-2	Benzo(b)Fluoranthene	5200	U
207-08-9	Benzo(k)Fluoranthene	5200	U
50-32-8	Benzo(a)Pyrene	5200	U
193-39-5	Indeno(1,2,3-cd)Pyrene	5200	U
53-70-3	Dibenz(a,h)Anthracene	5200	U
191-24-2	Benzo(g,h,i)Perylene	5200	U

(1)-Cannot be separated from diphenylamine

Form I 7/85

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Laboratory Name ecology and environment, inc.

Case No U-4465

Sample Number DC-SS-11

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 11-14-86

Date Analyzed 11-26-86

Conc/Dil Factor 50,000

Percent Moisture (decanted) 35.9

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
319-84-6	Alpha-BHC	800,000 U	
319-85-7	Beta-BHC	800,000 U	
319-86-8	Delta-BHC	800,000 U	
58-89-9	Gamma-BHC (Lindane)	800,000 U	
76-44-8	Heptachlor	800,000 U	
309-00-2	Aldrin	800,000 U	
1024-57-3	Heptachlor Epoxide	800,000 U	
959-98-8	Endosulfan I	800,000 U	
60-57-1	Dieldrin	1,600,000 U	
72-55-9	4,4'-DDE	1,600,000 U	
72-20-8	Endrin	1,600,000 U	
33213-65-9	Endosulfan II	1,600,000 U	
72-54-8	4,4'-DDD	1,600,000 U	
1031-07-8	Endosulfan Sulfate	1,600,000 U	
50-29-3	4,4'-DDT	1,600,000 U	
72-43-5	Methoxychlor	8,000,000 U	
53494-70-5	Endrin Ketone	1,600,000 U	
57-74-9	Chlordane	8,000,000 U	
8001-35-2	Toxaphene	16,000,000 U	
12674-11-2	Aroclor-1016	8,000,000 U	
11104-28-2	Aroclor-1221	8,000,000 U	
11141-16-5	Aroclor-1232	8,000,000 U	
53469-21-9	Aroclor-1242	8,000,000 U	
12672-29-6	Aroclor-1248	24,000,000	C
11097-69-1	Aroclor-1254	29,000,000	C
11096-82-5	Aroclor-1260	21,000,000	C

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_t 1,000 V_i 4

250

✓

Form 1

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ecology and en

S442

Laboratory Name ECOLOGY & ENVIRONMENT INC.
Case No U-4465

Sample Number
DC-SS-11

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number MIN	Estimated Concentration (ug/l or ug/kg)
1.		UNKNOWN KETONE	VOA	19.6	10 BJ
2.		HEXANE ISOMER	VOA	21.2	19 BJ
3.					
4	85449	1,3-ISOBENZOFURANDIONE	BNA	16.7	590000 J
5	87412	1(3H)-ISOBENZOFURANONE		17.2	40000 J
6.	271896	BENZOFURAN		18.7	64000 J
7		UNKNOWN - AROMATIC		21.8	120000 J
8.		UNKNOWN - AROMATIC		22.0	24000 J
9		UNKNOWN - AROMATIC		22.4	43000 J
10		DIMETHYL NONYLBENZENE ISOMER		22.7	22000 J
11		DIMETHYL NONYLBENZENE ISOMER		22.8	15000 J
12		UNKNOWN (PHENANTHRENEDIONE & PCB)		23.2	18000 J
13		PCB		23.9-24.4	—
14		PENTAMETHYLHEPTYLBENZENE		24.5	32000 J
15	81845	1H,3H-NAPHTHO(1,8CD)PYRAN-1,3-DIONE		24.7	72000 J
16		PCB		24.9-26.2	—
17	84651	9,10-ANTHRACENEDIONE		26.4	56000 J
18		PCB		26.6-29.5	—
19		ANTHRACENEDIONE		29.6	73000 J
20		PCB		29.7-33.4	—
21	482235	3-(3-OXO-1(3H)-ISOBENZOFURANYLIDENE-		33.8	80000 J
22		1(3H)-ISOBENZOFURANONE			
23.		UNKNOWN		34.1	42000 J
24		PCB		34.5	—
25		UNKNOWN		36.3	75000 J
26		UNKNOWN		37.7	53000 J
27					
28					
29					
30					

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Form 1, Part B

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S443

Sample Number
DC-SS-12

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc. Case No: U-4465
Lab Sample ID No: 9759 QC Report No:
Sample Matrix: Soil Contract No: IL-3140
Data Release Authorized By: [signature] Date Sample Received: 11-13-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed: 11-22-86
Conc./Dil Factor: 3 pH 5.6
Percent Moisture. (Not Decanted) 36

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	105B
67-64-1	Acetone	27 BJ
75-15-0	Carbon Disulfide	15u
75-35-4	1,1-Dichloroethene	15u
75-34-3	1,1-Dichloroethane	15u
156-60-5	Trans-1,2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1,2-Dichloroethane	15u
78-93-3	2-Butanone	30u
71-55-6	1,1,1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1,2-Dichloropropane	15u
10061-02-6	Trans-1,3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1,1,2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1,3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	110
591-78-6	2-Hexanone	30u
127-18-4	Tetrachloroethene	7J
79-34-5	1,1,2,2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration, dilution, etc. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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Form I 11/85

recycled paper ecology and environment S444

Sample Number
DC-SS-12-RE

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc
Case No: U-4465
Lab Sample ID No: 9759 RE
QC Report No:
Sample Matrix: Soil
Contract No: IL-3140
Data Release Authorized By: C Stoglowicz
Date Sample Received: 11-13-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed: 11-27-86

Conc./Dil Factor: 3 pH 5.6

Percent Moisture: (Not Decanted) 36

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	105B
67-64-1	Acetone	27BJ
75-15-0	Carbon Disulfide	15u
75-35-4	1,1-Dichloroethene	15u
75-34-3	1,1-Dichloroethane	15u
156-60-5	Trans-1,2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1,2-Dichloroethane	15u
78-93-3	2-Butanone	30u
71-55-6	1,1,1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1,2-Dichloropropane	15u
10061-02-6	Trans-1,3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1,1,2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1,3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	280
591-78-6	2-Hexanone	30u
127-18-4	Tetrachloroethene	50
79-34-5	1,1,2,2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value — If the result is a value greater than or equal to the detection limit, report the value.

U — Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration, dilution, etc. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J — Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.

C — This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/µl in the final extract should be confirmed by GC/MS.

B — This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other — Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and submitted with attached to the data summary report.

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ecology and environment

S445

Laboratory Name Ecology & Environment Inc.

Case No V-4465

Sample Number DC-SS-12

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 11-14-86

Date Analyzed 12-2-86

Conc/Dil Factor: 10

Percent Moisture (Decanted) 36

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
108-95-2	Phenol	2600	U
111-44-4	bis(2-Chloroethyl)Ether	2600	U
95-57-8	2-Chlorophenol	2600	U
541-73-1	1,3-Dichlorobenzene	2600	U
106-46-7	1,4-Dichlorobenzene	2600	U
100-51-6	Benzyl Alcohol	2600	U
95-50-1	1,2-Dichlorobenzene	2600	U
95-48-7	2-Methylphenol	2600	U
39638-32-9	bis(2-chloroisopropyl)Ether	2600	U
106-44-5	4-Methylphenol	2600	U
621-64-7	N-Nitroso-Di-n-Propylamine	2600	U
67-72-1	Hexachloroethane	2600	U
98-95-3	Nitrobenzene	2600	U
78-59-1	Isophorone	2600	U
88-75-5	2-Nitrophenol	2600	U
105-67-9	2,4-Dimethylphenol	2600	U
65-85-0	Benzoic Acid	12000	U
111-91-1	bis(2-Chloroethoxy)Methane	2600	U
120-83-2	2,4-Dichlorophenol	2600	U
120-82-1	1,2,4-Trichlorobenzene	2600	U
91-20-3	Naphthalene	2600	U
106-47-8	4-Chloroaniline	2600	U
87-68-3	Hexachlorobutadiene	2600	U
59-50-7	4-Chloro-3-Methylphenol	2600	U
91-57-6	2-Methylnaphthalene	2600	U
77-47-4	Hexachlorocyclopentadiene	2600	U
88-06-2	2,4,6-Trichlorophenol	2600	U
95-95-4	2,4,5-Trichlorophenol	12000	U
91-58-7	2-Chloronaphthalene	2600	U
88-74-4	2-Nitroaniline	12000	U
131-11-3	Dimethyl Phthalate	2600	U
208-96-8	Acenaphthylene	2600	U
99-09-2	3-Nitroaniline	12000	U

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	2600	U
51-28-5	2,4-Dinitrophenol	12000	U
100-02-7	4-Nitrophenol	12000	U
132-64-9	Dibenzofuran	2600	U
121-14-2	2,4-Dinitrotoluene	2600	U
606-20-2	2,6-Dinitrotoluene	2600	U
84-66-2	Diethylphthalate	2600	U
7005-72-3	4-Chlorophenyl-phenylether	2600	U
86-73-7	Fluorene	2600	U
100-01-6	4-Nitroaniline	12000	U
534-52-1	4,6-Dinitro-2-Methylphenol	12000	U
86-30-6	N-Nitrosodiphenylamine (1)	2600	U
101-55-3	4-Bromophenyl-phenylether	2600	U
118-74-1	Hexachlorobenzene	2600	U
87-86-5	Pentachlorophenol	7800	J
85-01-8	Phenanthrene	2600	U
120-12-7	Anthracene	2600	U
84-74-2	Di-n-Butylphthalate	2600	U
206-44-0	Fluoranthene	1300	J
129-00-0	Pyrene	1100	J
85-68-7	Butylbenzylphthalate	2600	U
91-94-1	3,3'-Dichlorobenzidine	2600	U
56-55-3	Benzo(a)Anthracene	2600	U
117-81-7	bis(2-Ethylhexyl)Phthalate	820	J
218-01-9	Chrysene	2600	U
117-84-0	Di-n-Octyl Phthalate	3100	B
205-99-2	Benzo(b)Fluoranthene	1200	J
207-08-9	Benzo(k)Fluoranthene	2600	U
50-32-8	Benzo(a)Pyrene	520	J
193-39-5	Indeno(1,2,3-cd)Pyrene	2600	U
53-70-3	Dibenz(a,h)Anthracene	2600	U
191-24-2	Benzo(g,h,i)Perylene	2600	U

(1)-Cannot be separated from diphenylamine

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Laboratory Name ecology and environment, inc.

Case No U-4465

Sample Number DC-SS-12

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 11-14-86

Date Analyzed 11-24-86

Conc/Dil Factor 1,000

Percent Moisture (decanted) 36.4

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or (ug/Kg) (Circle One)
319-84-6	Alpha-BHC	16,000 U
319-85-7	Beta-BHC	16,000 U
319-86-8	Delta-BHC	16,000 U
58-89-9	Gamma-BHC (Lindane)	16,000 U
76-44-8	Heptachlor	16,000 U
309-00-2	Aldrin	16,000 U
1024-57-3	Heptachlor Epoxide	16,000 U
959-98-8	Endosulfan I	16,000 U
60-57-1	Dieldrin	32,000 U
72-55-9	4,4'-DDE	32,000 U
72-20-8	Endrin	32,000 U
33213-65-9	Endosulfan II	32,000 U
72-54-8	4,4'-DDD	32,000 U
1031-07-8	Endosulfan Sulfate	32,000 U
50-29-3	4,4'-DDT	32,000 U
72-43-5	Methoxychlor	160,000 U
53494-70-5	Endrin Ketone	32,000 U
57-74-9	Chlordane	160,000 U
8001-35-2	Toxaphene	320,000 U
12674-11-2	Aroclor-1016	160,000 U
11104-28-2	Aroclor-1221	160,000 U
11141-16-5	Aroclor-1232	160,000 U
53469-21-9	Aroclor-1242	160,000 U
12672-29-6	Aroclor-1248	160,000 U
11097-69-1	Aroclor-1254	320,000 U
11096-82-5	Aroclor 1260	174,000 J C

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_t 1000 V_i 4

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Form 1

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S447

Laboratory Name Ecology & Environment, Inc
Case No U-4465

Sample Number
DC-SS-12

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number min	Estimated Concentration (ug/l or ug/kg)
1.	74209	Acetic acid methyl ester	VOA	11.2	150 J
2.		Hexene isomer	VOA	18.0	57 J
3.		Hexene isomer	VOA	18.5	36 J
4.		Hexene isomer	VOA	18.7	160
5.		Unknown Ketone	VOA	19.6	1 BJ
6.		Hexane isomer	VOA	19.8	19 J
7.					
8.	85449	1,3-ISOBENZOFURANDIONE	BNA	16.6	15000 J
9.	27854406	(1,1-DIMETHYLDECYL) BENZENE	|	20.4	20,000 J
10.		UNKNOWN	|	21.4	160,000 J
11.		UNKNOWN - AROMATIC		22.2	85,000 J
12.		UNKNOWN - AROMATIC		22.4	180,000 J
13.		UNKNOWN -		22.8	1,400,000 J
14.		PENTAMETHYL HEPTYL BENZENE		22.9	250,000 J
15.		UNKNOWN		24.5	53000 J
16.	81845	1H,3H-NAPHTHO(1,8-CD)PYRAN-1,3-DIONE		24.7	49000 J
17.	84651	9,10-ANTHRACENEDIONE		26.4	29000 J
18.		UNKNOWN		26.9	200,000 J
19.	10544500	MOLECULAR SULFUR		27.1	210,000 J
20.		PCB		27.6-29.1	-
21.		ANTHRACENEDIONE		29.6	46000 J
22.		DIMETHYL NONYL BENZENE		29.9	49000 J
23.		PCB		30.3-30.9	-
24.		UNKNOWN		32.5	8300 J
25.	482235	3-(3-oxo-1(3H)-ISOBENZOFURANYLIDENE -	|	33.1	16000 J
26.		1(3H)-ISOBENZOFURANONE	|		
27.		AN ISOBENZOFURANONE	|	33.8	25000 J
28.		UNKNOWN HYDROCARBON	|	34.7	18000 J
29.		UNKNOWN	|	37.7	76000 J
30.					

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Laboratory Name ecology and environment, inc.

Case No u-4465

Sample Number DC-SS-12-RE

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min.	Estimated Concentration (ug/l or ug/kg)
1. 79209	Acetic acid, methyl ester	VOA	11.3	270 J
2.	Hexene isomer	VOA	18.0	2800 J
3.	Hexene isomer	VOA	18.7	6700 J
4.	Hexene isomer	VOA	19.5	270 J
5.	Hexene isomer	VOA	19.9	1600 J
6.	Unknown hydrocarbon	VOA	26.8	81 J
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Form 1, Part B

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S449

Sample Number
DC-SS-13

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc. Case No: U-4465
Lab Sample ID No: 9760 QC Report No:
Sample Matrix: Soil Contract No: IL-3140
Data Release Authorized By: [signature] Date Sample Received: 11-13-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed: 11-25-86
Conc./Dil Factor: 3 pH 8.0
Percent Moisture: (Not Decanted) 32

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	43 B
67-64-1	Acetone	32 B
75-15-0	Carbon Disulfide	15u
75-35-4	1,1-Dichloroethene	15u
75-34-3	1,1-Dichloroethane	15u
156-60-5	Trans-1,2-Dichloroethene	15u
67-66-3	Chloroform	15
107-06-2	1,2-Dichloroethane	15u
78-93-3	2-Butanone	42 B
71-55-6	1,1,1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or (ug/Kg) (Circle One)
78-87-5	1,2-Dichloropropane	15u
10061-02-6	Trans-1,3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1,1,2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1,3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	30u
591-78-6	2-Hexanone	30u
127-18-4	Tetrachloroethene	15u
79-34-5	1,1,2,2-Tetrachloroethane	15u
108-88-3	Toluene	30 B
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration, dilution, etc. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum quantitable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C This flag applies to pesticide/Aroclor analytes where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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Form I 11/85

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Laboratory Name Ecology & Environment Inc.
Case No V-4465

Sample Number
DC-SS-13

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared 11-14-86
Date Analyzed 12-2-86
Conc/Dil Factor 10
Percent Moisture (Decanted) 32

GPC Cleanup ☐Yes ☒No
Separatory Funnel Extraction ☐Yes
Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
108-95-2	Phenol	2400	U
111-44-4	bis(2-Chloroethyl)Ether	2400	U
95-57-8	2-Chlorophenol	2400	U
541-73-1	1,3-Dichlorobenzene	2400	U
106-46-7	1,4-Dichlorobenzene	2400	U
100-51-6	Benzyl Alcohol	2400	U
95-50-1	1,2-Dichlorobenzene	2400	U
95-48-7	2-Methylphenol	2400	U
39638-32-9	bis(2-chloroisopropyl)Ether	2400	U
106-44-5	4-Methylphenol	2400	U
621-64-7	N-Nitroso-Di-n-Propylamine	2400	U
67-72-1	Hexachloroethane	2400	U
98-95-3	Nitrobenzene	2400	U
78-59-1	Isophorone	2400	U
88-75-5	2-Nitrophenol	2400	U
105-67-9	2,4-Dimethylphenol	2400	U
65-85-0	Benzoic Acid	12000	U
111-91-1	bis(2-Chloroethoxy)Methane	2400	U
120-83-2	2,4-Dichlorophenol	2400	U
120-82-1	1,2,4-Trichlorobenzene	2400	U
91-20-3	Naphthalene	2400	U
106-47-8	4-Chloroaniline	2400	U
87-68-3	Hexachlorobutadiene	2400	U
59-50-7	4-Chloro-3-Methylphenol	2400	U
91-57-6	2-Methylnaphthalene	2400	U
77-47-4	Hexachlorocyclopentadiene	2400	U
88-06-2	2,4,6-Trichlorophenol	2400	U
95-95-4	2,4,5-Trichlorophenol	12000	U
91-58-7	2-Chloronaphthalene	2400	U
88-74-4	2-Nitroaniline	12000	U
131-11-3	Dimethyl Phthalate	2400	U
208-96-8	Acenaphthylene	2400	U
99-09-2	3-Nitroaniline	12000	U

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	2400	U
51-28-5	2,4-Dinitrophenol	12000	U
100-02-7	4-Nitrophenol	12000	U
132-64-9	Dibenzofuran	2400	U
121-14-2	2,4-Dinitrotoluene	2400	U
606-20-2	2,6-Dinitrotoluene	2400	U
84-66-2	Diethylphthalate	2400	U
7005-72-3	4-Chlorophenyl-phenylether	2400	U
86-73-7	Fluorene	2400	U
100-01-6	4-Nitroaniline	12000	U
534-52-1	4,6-Dinitro-2-Methylphenol	12000	U
86-30-6	N-Nitrosodiphenylamine (1)	2400	U
101-55-3	4-Bromophenyl-phenylether	2400	U
118-74-1	Hexachlorobenzene	2400	U
87-86-5	Pentachlorophenol	12000	U
85-01-8	Phenanthrene	2400	U
120-12-7	Anthracene	2400	U
84-74-2	Di-n-Butylphthalate	2400	U
206-44-0	Fluoranthene	2400	U
129-00-0	Pyrene	2400	U
85-68-7	Butylbenzylphthalate	2400	U
91-94-1	3,3'-Dichlorobenzidine	4800	U
56-55-3	Benzo(a)Anthracene	2400	U
117-81-7	bis(2-Ethylhexyl)Phthalate	2400	U
218-01-9	Chrysene	2400	U
117-84-0	Di-n-Octyl Phthalate	2400	U
205-99-2	Benzo(b)Fluoranthene	2400	U
207-08-9	Benzo(k)Fluoranthene	2400	U
50-32-8	Benzo(a)Pyrene	2400	U
193-39-5	Indeno(1,2,3-cd)Pyrene	2400	U
53-70-3	Dibenz(a,h)Anthracene	2400	U
191-24-2	Benzo(g,h,i)Perylene	2400	U

(1)-Cannot be separated from diphenylamine

Form 1 7/85

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S451

Laboratory Name ecology and environment, inc.

Case No U-4465

Sample Number DC-SS-13

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 11-14-86

Date Analyzed 11-25-86

Conc/Dil Factor 1,000

Percent Moisture (decanted) 32.3

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or (ug/Kg) (Circle One)
319-84-6	Alpha-BHC	16,000 U
319-85-7	Beta-BHC	16,000 U
319-86-8	Delta-BHC	16,000 U
58-89-9	Gamma-BHC (Lindane)	16,000 U
76-44-8	Heptachlor	16,000 U
309-00-2	Aldrin	16,000 U
1024-57-3	Heptachlor Epoxide	16,000 U
959-98-8	Endosulfan I	16,000 U
60-57-1	Dieldrin	32,000 U
72-55-9	4,4'-DDE	32,000 U
72-20-8	Endrin	32,000 U
33213-65-9	Endosulfan II	32,000 U
72-54-8	4,4'-DDD	32,000 U
1031-07-8	Endosulfan Sulfate	32,000 U
50-29-3	4,4'-DDT	32,000 U
72-43-5	Methoxychlor	160,000 U
53494-70-5	Endrin Ketone	32,000 U
57-74-9	Chlordane	160,000 U
8001-35-2	Toxaphene	320,000 U
12674-11-2	Aroclor-1016	160,000 U
11104-28-2	Aroclor-1221	160,000 U
11141-16-5	Aroclor-1232	160,000 U
53469-21-9	Aroclor-1242	160,000 U
12672-29-6	Aroclor-1248	160,000 U
11097-69-1	Aroclor-1254	320,000 U
11096-82-5	Aroclor-1260	165,000 J

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_t 1000 V_i 4

Laboratory Name Ecology & Environment, Inc

Case No 4-4465

Sample Number
DC-SS-13

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min	Estimated Concentration (ug/l or ug/kg)
1.	Unknown Ketone	VOA	19.6	8 BJ
2.	Hexane isomer	VOA	21.2	10 BJ
3.				
4	UNKNOWN - AROMATIC	BNA	20.0	16000 J
5.	UNKNOWN - AROMATIC		20.3	8100 J
6.	DIMETHYL DECYL BENZENE		20.4	17000 J
7.	UNKNOWN - AROMATIC		20.7	14000 J
8.	METHYL PROPYL PENTYL BENZENE		20.9	14000 J
9	UNKNOWN - AROMATIC		21.0	16000 J
10.	TRIMETHYL PROPYL BENZENE		21.2	30000 J
11.	UNKNOWN - AROMATIC		21.3	10000 J
12.	UNKNOWN		21.4	57000 J
13	UNKNOWN - AROMATIC		21.5	12000 J
14.	DIMETHYL DECYL BENZENE		21.7	30000 J
15.	UNKNOWN - AROMATIC		21.8	94000 J
16.	UNKNOWN		21.9	34000 J
17	PENTAMETHYL HEPTYL BENZENE		22.0	64000 J
18	UNKNOWN - AROMATIC		22.1	33000 J
19.	UNKNOWN - AROMATIC		22.4	120,000 J
20.	UNKNOWN		22.5	16,000 J
21	DIMETHYL DECYL BENZENE		22.7	81,000 J
22.	PENTAMETHYL HEPTYL BENZENE		22.8	100,000 J
23	DIMETHYL NONYL BENZENE	✓	23.0	52,000 J
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Form 1 Part B

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S453

Sample Number
DC-SS-14

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc. Case No: U-4465
Lab Sample ID No: 9761 QC Report No:
Sample Matrix: Soil Contract No: IL-3140
Data Release Authorized By: C Sojtowicz Date Sample Received: 11-13-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed: 11-18-86
Conc./Dil Factor: 1.5 pH 7.0
Percent Moisture: (Not Decanted) 35

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	15u
74-83-9	Bromomethane	15u
75-01-4	Vinyl Chloride	15u
75-00-3	Chloroethane	15u
75-09-2	Methylene Chloride	46 B
67-64-1	Acetone	26 B
75-15-0	Carbon Disulfide	8u
75-35-4	1,1-Dichloroethene	8u
75-34-3	1,1-Dichloroethane	8u
156-60-5	Trans-1,2-Dichloroethene	8u
67-66-3	Chloroform	8u
107-06-2	1,2-Dichloroethane	8u
78-93-3	2-Butanone	15u
71-55-6	1,1,1-Trichloroethane	8u
56-23-5	Carbon Tetrachloride	8u
108-05-4	Vinyl Acetate	15u
75-27-4	Bromodichloromethane	8u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1,2-Dichloropropane	8u
10061-02-6	Trans-1,3-Dichloropropene	8u
79-01-6	Trichloroethene	8u
124-48-1	Dibromochloromethane	8u
79-00-5	1,1,2-Trichloroethane	8u
71-43-2	Benzene	8u
10061-01-5	cis-1,3-Dichloropropene	8u
110-75-8	2-Chloroethylvinylether	15u
75-25-2	Bromoform	8u
108-10-1	4-Methyl-2-Pentanone	15u
591-78-6	2-Hexanone	15u
127-18-4	Tetrachloroethene	8u
79-34-5	1,1,2,2-Tetrachloroethane	8u
108-88-3	Toluene	8u
108-90-7	Chlorobenzene	8u
100-41-4	Ethylbenzene	8u
100-42-5	Styrene	8u
	Total Xylenes	8u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration, dilution, action. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum quantitable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C This flag applies to pesticide/Aroclors where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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Form I 11/85

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ecology and environment

S454

Sample Number
DC-SS-14-RE

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment
Case No: U-4465
Lab Sample ID No: 9761-RE
QC Report No:
Sample Matrix: Soil
Contract No: IL-3140
Data Release Authorized By: C Slaytowicz
Date Sample Received: 11-13-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed: 11-25-86

Conc./Dil Factor: 3 pH 7.0

Percent Moisture: (Not Decanted) 35

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	95 B
67-64-1	Acetone	30u
75-15-0	Carbon Disulfide	15u
75-35-4	1, 1-Dichloroethene	15u
75-34-3	1, 1-Dichloroethane	15u
156-60-5	Trans-1, 2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1, 2-Dichloroethane	15u
78-93-3	2-Butanone	61 B
71-55-6	1, 1, 1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or (ug/Kg) (Circle One)
78-87-5	1, 2-Dichloropropane	15u
10061-02-6	Trans-1, 3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1, 1, 2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1, 3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	30u
591-78-6	2-Hexanone	22 B
127-18-4	Tetrachloroethene	24
79-34-5	1, 1, 2, 2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value — If the result is a value greater (in or equal to the detection limit report the value.

U — Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration, dilution, action. (This is not necessarily the instrument detection limit.) The footnote should read: U Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J — Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C — This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B — This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other — Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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ecology and

S455

Laboratory Name ecology and environment, inc.

Case No V-4465

Sample Number DC-SS-14

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 11-14-86

Date Analyzed 11-25-86

Conc/Dil Factor 1,000

Percent Moisture (decanted) 34.6

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or (ug/Kg) (Circle One)
319-84-6	Alpha-BHC	16,000 u
319-85-7	Beta-BHC	16,000 u
319-86-8	Delta-BHC	16,000 u
58-89-9	Gamma-BHC (Lindane)	16,000 u
76-44-8	Heptachlor	16,000 u
309-00-2	Aldrin	16,000 u
1024-57-3	Heptachlor Epoxide	16,000 u
959-98-8	Endosulfan I	16,000 u
60-57-1	Dieldrin	32,000 u
72-55-9	4,4'-DDE	32,000 u
72-20-8	Endrin	32,000 u
33213-65-9	Endosulfan II	32,000 u
72-54-8	4,4'-DDD	32,000 u
1031-07-8	Endosulfan Sulfate	32,000 u
50-29-3	4,4'-DDT	32,000 u
72-43-5	Methoxychlor	160,000 u
53494-70-5	Endrin Ketone	32,000 u
57-74-9	Chlordane	160,000 u
8001-35-2	Toxaphene	320,000 u
12674-11-2	Aroclor-1016	160,000 u
11104-28-2	Aroclor-1221	160,000 u
11141-16-5	Aroclor-1232	160,000 u
53469-21-9	Aroclor-1242	160,000 u
12672-29-6	Aroclor-1248	160,000 u
11097-69-1	Aroclor-1254	320,000 u
11096-82-5	Aroclor 1260	887,000

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_t 1000 V_i 4

300

Form 1

7/85
491095

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ecology and environment

S456

Laboratory Name Ecology & Environment Inc.

Case No U-4465

Sample Number DC-SS-14

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 11-14-86

Date Analyzed 12-2-86

Conc/Dil Factor: 50

Percent Moisture (Decanted) 35

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
108-95-2	Phenol	13000	U
111-44-4	bis(2-Chloroethyl)Ether	13000	U
95-57-8	2-Chlorophenol	13000	U
541-73-1	1,3-Dichlorobenzene	13000	U
106-46-7	1,4-Dichlorobenzene	13000	U
100-51-6	Benzyl Alcohol	13000	U
95-50-1	1,2-Dichlorobenzene	13000	U
95-48-7	2-Methylphenol	13000	U
39638-32-9	bis(2-chloroisopropyl)Ether	13000	U
106-44-5	4-Methylphenol	13000	U
621-64-7	N-Nitroso-Di-n-Propylamine	13000	U
67-72-1	Hexachloroethane	13000	U
98-95-3	Nitrobenzene	13000	U
78-59-1	Isophorone	13000	U
88-75-5	2-Nitrophenol	13000	U
105-67-9	2,4-Dimethylphenol	13000	U
65-85-0	Benzoic Acid	62000	U
111-91-1	bis(2-Chloroethoxy)Methane	13000	U
120-83-2	2,4-Dichlorophenol	13000	U
120-82-1	1,2,4-Trichlorobenzene	13000	U
91-20-3	Naphthalene	13000	U
106-47-8	4-Chloroaniline	13000	U
87-68-3	Hexachlorobutadiene	13000	U
59-50-7	4-Chloro-3-Methylphenol	13000	U
91-57-6	2-Methylnaphthalene	13000	U
77-47-4	Hexachlorocyclopentadiene	13000	U
88-06-2	2,4,6-Trichlorophenol	13000	U
95-95-4	2,4,5-Trichlorophenol	62000	U
91-58-7	2-Chloronaphthalene	13000	U
88-74-4	2-Nitroaniline	62000	U
131-11-3	Dimethyl Phthalate	13000	U
208-96-8	Acenaphthylene	13000	U
99-09-2	3-Nitroaniline	62000	U

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	13000	U
51-28-5	2,4-Dinitrophenol	62000	U
100-02-7	4-Nitrophenol	62000	U
132-64-9	Dibenzofuran	13000	U
121-14-2	2,4-Dinitrotoluene	13000	U
606-20-2	2,6-Dinitrotoluene	13000	U
84-66-2	Diethylphthalate	13000	U
7005-72-3	4-Chlorophenyl-phenylether	13000	U
86-73-7	Fluorene	13000	U
100-01-6	4-Nitroaniline	62000	U
534-52-1	4,6-Dinitro-2-Methylphenol	62000	U
86-30-6	N-Nitrosodiphenylamine (1)	13000	U
101-55-3	4-Bromophenyl-phenylether	13000	U
118-74-1	Hexachlorobenzene	13000	U
87-86-5	Pentachlorophenol	62000	U
85-01-8	Phenanthrene	13000	U
120-12-7	Anthracene	13000	U
84-74-2	Di-n-Butylphthalate	13000	U
206-44-0	Fluoranthene	13000	U
129-00-0	Pyrene	13000	U
85-68-7	Butylbenzylphthalate	13000	U
91-94-1	3,3'-Dichlorobenzidine	25000	U
56-55-3	Benzo(a)Anthracene	13000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	13000	U
218-01-9	Chrysene	4400	J
117-84-0	Di-n-Octyl Phthalate	14000	B
205-99-2	Benzo(b)Fluoranthene	13000	U
207-08-9	Benzo(k)Fluoranthene	13000	U
50-32-8	Benzo(a)Pyrene	13000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	13000	U
53-70-3	Dibenz(a,h)Anthracene	13000	U
191-24-2	Benzo(g,h,i)Perylene	13000	U

(1)-Cannot be separated from diphenylamine

Form I

7/85

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ecology inc

Laboratory Name ECOLOGY & ENVIRONMENT INC.

Case No U-4465

Sample Number DC-SS-14

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number MIN	Estimated Concentration (ug/l or ug/kg)
1.		UNKNOWN	VOA	18.2	4 J
2.		HEXENE ISOMER		19.0	9 J
3.		HEXANE ISOMER		21.4	8 BJ
4		UNKNOWN		23.2	7 J
5	589344	3-METHYL HEXANE		24.5	84 J
6.		UNKNOWN		24.9	12 J
7					
8.		UNKNOWN	BNA	16.3	5500 J
9		UNKNOWN - BENZENE BASED		20.7	27000 J
10		DIMETHYL DECYL BENZENE		21.2	48000 J
11		UNKNOWN - BENZENE BASED		21.4	47000 J
12		UNKNOWN - BENZENE BASED		21.8	200,000 J
13		PENTAMETHYL HEPTYL BENZENE		22.0	160,000 J
14		UNKNOWN - BENZENE BASED		22.1	100,000 J
15		UNKNOWN - BENZENE BASED		22.4	140,000 J
16		DIMETHYL DECYL BENZENE		22.7	100,000 J
17		UNKNOWN HYDROCARBON		22.8	75000 J
18		UNKNOWN HYDROCARBON		24.2	110,000 J
19		UNKNOWN HYDROCARBON		25.3	50000 J
20		UNKNOWN HYDROCARBON		26.5	27000 J
21		UNKNOWN HYDROCARBON		27.8	89000 J
22		UNKNOWN HYDROCARBON		28.3	67000 J
23		UNKNOWN HYDROCARBON		28.9	130000 J
24		UNKNOWN HYDROCARBON		29.5	270000 J
25		UNKNOWN HYDROCARBON		30.4	160000 J
26		UNKNOWN HYDROCARBON		33.9	190000 J
27					
28					
29					
30					

Laboratory Name Ecology & Environment, Inc

Case No U-4465

Sample Number DC-SS-14-RE

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min	Estimated Concentration (ug/l or ug/kg)
1.	Hexane isomer	VOA	21.1	11 J
2.	Unknown hydrocarbon	VOA	22.9	7 J
3.	Unknown hydrocarbon	VOA	24.2	14 J
4	Unknown hydrocarbon	VOA	24.7	9 J
5				
6.				
7				
8.				
9				
10.				
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29.				
30				

Sample Number
DC-SS-15

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc.
Case No: U-4465
Lab Sample ID No: 9762
QC Report No:
Sample Matrix: Soil
Contract No: IL-3140
Data Release Authorized By: [signature]
Date Sample Received: 11-13-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed: 11-18-86

Conc./Dil Factor: 1.5 pH 6.5

Percent Moisture. (Not Decanted) 19

CAS Number		ug/L or ug/Kg (Circle One)
74-87-3	Chloromethane	15u
74-83-9	Bromomethane	15u
75-01-4	Vinyl Chloride	15u
75-00-3	Chloroethane	15u
75-09-2	Methylene Chloride	26 B
67-64-1	Acetone	18 B
75-15-0	Carbon Disulfide	8u
75-35-4	1,1-Dichloroethene	8u
75-34-3	1,1-Dichloroethane	8u
156-60-5	Trans-1,2-Dichloroethene	8u
67-66-3	Chloroform	8u
107-06-2	1,2-Dichloroethane	8u
78-93-3	2-Butanone	16 B
71-55-6	1,1,1-Trichloroethane	8u
56-23-5	Carbon Tetrachloride	8u
108-05-4	Vinyl Acetate	15u
75-27-4	Bromodichloromethane	8u

CAS Number		ug/L or ug/Kg (Circle One)
78-87-5	1,2-Dichloropropane	8u
10061-02-6	Trans-1,3-Dichloropropene	8u
79-01-6	Trichloroethene	8u
124-48-1	Dibromochloromethane	8u
79-00-5	1,1,2-Trichloroethane	8u
71-43-2	Benzene	8u
10061-01-5	cis-1,3-Dichloropropene	8u
110-75-8	2-Chloroethylvinylether	15u
75-25-2	Bromoform	8u
108-10-1	4-Methyl-2-Pentanone	14 J
591-78-6	2-Hexanone	15u
127-18-4	Tetrachloroethene	8u
79-34-5	1,1,2,2-Tetrachloroethane	8u
108-88-3	Toluene	12
108-90-7	Chlorobenzene	8u
100-41-4	Ethylbenzene	8u
100-42-5	Styrene	8u
	Total Xylenes	8u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration, dilution, etc. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 ug/L and a concentration of 3 ug/L is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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Form I

11/85

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ecology and environment

S460

Sample Number
DC-SS-15-RE

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc
Case No: U-4465
Lab Sample ID No: 9762 RE
QC Report No:
Sample Matrix: Soil
Contract No: IL-3140
Data Release Authorized By: [signature]
Date Sample Received: 11-13-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed: 11-25-86

Conc/Dil Factor: 3 pH 6.5

Percent Moisture: (Not Decanted) 19

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	49 B
67-64-1	Acetone	92 B
75-15-0	Carbon Disulfide	15u
75-35-4	1,1-Dichloroethene	15u
75-34-3	1,1-Dichloroethane	15u
156-60-5	Trans-1,2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1,2-Dichloroethane	15u
78-93-3	2-Butanone	40 B
71-55-6	1,1,1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1,2-Dichloropropane	15u
10061-02-6	Trans-1,3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1,1,2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1,3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	30u
591-78-6	2-Hexanone	30u
127-18-4	Tetrachloroethene	15u
79-34-5	1,1,2,2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value — If the result is a value greater than or equal to the detection limit, report the value.

U — Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration, dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J — Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C — This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥ 10 ng/ul in the final extract should be confirmed by GC/MS.

B — This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other — Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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S461

Laboratory Name Ecology & Environment Inc.

Case No V-4465

Sample Number DC-SS-15

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 11-14-86

Date Analyzed 12-19-86

Conc/Dil Factor: 200

Percent Moisture (Decanted) 19

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
108-95-2	Phenol	41000	U
111-44-4	bis(-2-Chloroethyl)Ether	41000	U
95-57-8	2-Chlorophenol	41000	U
541-73-1	1 3-Dichlorobenzene	41000	U
106-46-7	1 4-Dichlorobenzene	41000	U
100-51-6	Benzyl Alcohol	41000	U
95-50-1	1 2-Dichlorobenzene	41000	U
95-48-7	2-Methylphenol	41000	U
39638-32-9	bis(2-chloroisopropyl)Ether	41000	U
106-44-5	4-Methylphenol	41000	U
621-64-7	N-Nitroso-Di-n-Propylamine	41000	U
67-72-1	Hexachloroethane	41000	U
98-95-3	Nitrobenzene	41000	U
78-59-1	Isophorone	41000	U
88-75-5	2-Nitrophenol	41000	U
105-67-9	2 4-Dimethylphenol	41000	U
65-85-0	Benzoic Acid	200000	U
111-91-1	bis 2-Chloroethoxy)Methane	41000	U
120-83-2	2 4-Dichlorophenol	41000	U
120-82-1	1 2 4-Trichlorobenzene	41000	U
91-20-3	Naphthalene	41000	U
106-47-8	4-Chloroaniline	41000	U
87-68-3	Hexachlorobutadiene	41000	U
59-50-7	4-Chloro-3-Methylphenol	41000	U
91-57-6	2-Methylnaphthalene	41000	U
77-47-4	Hexachlorocyclopentadiene	41000	U
88-06-2	2 4 6-Trichlorophenol	41000	U
95-95-4	2 4 5-Trichlorophenol	200000	U
91-58-7	2-Chloronaphthalene	41000	U
88-74-4	2 Nitroaniline	200000	U
131-11-3	Dimethyl Phthalate	41000	U
208-96-8	Acenaphthylene	41000	U
99-09-2	3-Nitroaniline	200000	U

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	41000	U
51-28-5	2, 4-Dinitrophenol	200000	U
100-02-7	4-Nitrophenol	200000	U
132-64-9	Dibenzofuran	41000	U
121-14-2	2 4-Dinitrotoluene	41000	U
606-20-2	2 6-Dinitrotoluene	41000	U
84-66-2	Diethylphthalate	41000	U
7005-72-3	4-Chlorophenyl-phenylether	41000	U
86-73-7	Fluorene	41000	U
100-01-6	4-Nitroaniline	200000	U
534-52-1	4, 6-Dinitro-2-Methylphenol	200000	U
86-30-6	N-Nitrosodiphenylamine (1)	41000	U
101-55-3	4-Bromophenyl-phenylether	41000	U
118-74-1	Hexachlorobenzene	41000	U
87-86-5	Pentachlorophenol	1200000	
85-01-8	Phenanthrene	40000	J
120-12-7	Anthracene	41000	U
84-74-2	Di-n-Butylphthalate	41000	U
206-44-0	Fluoranthene	44000	
129-00-0	Pyrene	85000	
85-68-7	Butylbenzylphthalate	41000	U
91-94-1	3 3 -Dichlorobenzidine	81000	U
56-55-3	Benzo(a)Anthracene	41000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	41000	U
218-01-9	Chrysene	39000	J
117-84-0	Di-n-Octyl Phthalate	41000	U
205-99-2	Benzo(b)Fluoranthene	47000	
207-08-9	Benzo(k)Fluoranthene	41000	U
50-32-8	Benzo(a)Pyrene	22000	J
193-39-5	Indeno(1 2, 3-cd)Pyrene	41000	U
53-70-3	Dibenz(a h)Anthracene	41000	U
191-24-2	Benzo(g h i)Perylene	41000	U

(1)-Cannot be separated from diphenylamine

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Laboratory Name ecology and environment, inc.

Case No V-4465

Sample Number DC-SS-15

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 11-14-86

Date Analyzed 11-25-86

Conc/Dil Factor 1,000

Percent Moisture (decanted) 19.4

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or (ug/Kg) (Circle One)
319-84-6	Alpha-BHC	16,000 U
319-85-7	Beta-BHC	16,000 U
319-86-8	Delta-BHC	16,000 U
58-89-9	Gamma-BHC (Lindane)	16,000 U
76-44-8	Heptachlor	16,000 U
309-00-2	Aldrin	16,000 U
1024-57-3	Heptachlor Epoxide	16,000 U
959-98-8	Endosulfan I	16,000 U
60-57-1	Dieldrin	32,000 U
72-55-9	4,4'-DDE	32,000 U
72-20-8	Endrin	32,000 U
33213-65-9	Endosulfan II	32,000 U
72-54-8	4,4'-DDD	32,000 U
1031-07-8	Endosulfan Sulfate	32,000 U
50-29-3	4,4'-DDT	32,000 U
72-43-5	Methoxychlor	160,000 U
53494-70-5	Endrin Ketone	32,000 U
57-74-9	Chlordane	160,000 U
8001-35-2	Toxaphene	320,000 U
12674-11-2	Aroclor-1016	160,000 U
11104-28-2	Aroclor-1221	160,000 U
11141-16-5	Aroclor-1232	160,000 U
53469-21-9	Aroclor-1242	160,000 U
12672-29-6	Aroclor-1248	184,000
11097-69-1	Aroclor-1254	320,000 U
11096-82-5	Aroclor-1260	305,000 J

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_t 1000 V_i 4

Form 1

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ecology and environment

S463

Laboratory Name ECOLOGY & ENVIRONMENT INC

Case No U-4465

Sample Number DC-SS-15

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number MIN	Estimated Concentration (ug/l or ug/kg)
1	563780	2,3-DIMETHYL-1-BUTENE	VOA	18.2	15 J
2	558372	3,3-DIMETHYL-1-BUTENE		19.0	35 J
3	110543	HEXANE		21.4	4 BJ
4		UNKNOWN		21.9	7 J
5		UNKNOWN HYDROCARBON		24.5	32 J
6		UNKNOWN HYDROCARBON		25.0	21 J
7					
8		UNKNOWN AROMATIC	BNA	20.4	37000 J
9		UNKNOWN AROMATIC		20.8	88000 J
10		UNKNOWN AROMATIC		20.9	54000 J
11		UNKNOWN		21.0	24000 J
12		UNKNOWN AROMATIC		21.3	30000 J
13		UNKNOWN		21.7	24000 J
14					
15					
16					
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30					

Laboratory Name Ecology & Environment, Inc
Case No U-4465

Sample Number
DC-SS-15 RE

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min	Estimated Concentration (ug/l or ug/kg)
1.	Unknown Ketone	VOA	18.0	17 J
2.	Hexene Isomer	VOA	18.9	31 J
3.				
4.				
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Sample Number
DC-SS-16

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc. Case No: U-4465
Lab Sample ID No: 9763 QC Report No:
Sample Matrix: Soil Contract No: IL-3140
Data Release Authorized By: [signature] Date Sample Received: 11-13-86.

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed: 11-18-86
Conc./Dil Factor: 3 pH 6.4
Percent Moisture: (Not Decanted) 23

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	56 B
67-64-1	Acetone	28 BJ
75-15-0	Carbon Disulfide	15u
75-35-4	1,1-Dichloroethene	15u
75-34-3	1,1-Dichloroethane	15u
156-60-5	Trans-1,2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1,2-Dichloroethane	15u
78-93-3	2-Butanone	46 B
71-55-6	1,1,1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1,2-Dichloropropane	15u
10061-02-6	Trans-1,3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1,1,2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1,3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	30u
591-78-6	2-Hexanone	30u
127-18-4	Tetrachloroethene	15u
79-34-5	1,1,2,2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration, dilution, etc. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum sample detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described, and such description attached to the data summary report.

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Laboratory Name Ecology & Environment Inc.

Case No U-4465

Sample Number DC-SS-16

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 11-14-86

Date Analyzed 12-19-86

Conc/Dil Factor 200

Percent Moisture (Decanted) 23

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
108-95-2	Phenol	43000	U
111-44-4	bis(-2-Chloroethyl)Ether	43000	U
95-57-8	2-Chlorophenol	43000	U
541-73-1	1 3-Dichlorobenzene	43000	U
106-46-7	1 4-Dichlorobenzene	43000	U
100-51-6	Benzyl Alcohol	43000	U
95-50-1	1 2-Dichlorobenzene	43000	U
95-48-7	2-Methylphenol	43000	U
39638-32-9	bis(2-chloroisopropyl)Ether	43000	U
106-44-5	4-Methylphenol	43000	U
621-64-7	N-Nitroso-Di-n-Propylamine	43000	U
67-72-1	Hexachloroethane	43000	U
98-95-3	Nitrobenzene	43000	U
78-59-1	Isophorone	43000	U
88-75-5	2-Nitrophenol	43000	U
105-67-9	2. 4-Dimethylphenol	43000	U
65-85-0	Benzoic Acid	210000	U
111-91-1	bis: 2-Chloroethoxy)Methane	43000	U
120-83-2	2 4-Dichlorophenol	43000	U
120-82-1	1 2. 4-Trichlorobenzene	43000	U
91-20-3	Naphthalene	43000	U
106-47-8	4-Chloroaniline	43000	U
87-68-3	Hexachlorobutadiene	43000	U
59-50-7	4-Chloro-3-Methylphenol	43000	U
91-57-6	2-Methylnaphthalene	43000	U
77-47-4	Hexachlorocyclopentadiene	43000	U
88-06-2	2 4 6-Trichlorophenol	43000	U
95 95-4	2. 4 5-Trichlorophenol	210000	U
91-58-7	2-Chloronaphthalene	43000	U
88-74-4	2-Nitroaniline	210000	U
131-11-3	Dimethyl Phthalate	43000	U
208-96-8	Acenaphthylene	43000	U
99-09-2	3-Nitroaniline	210000	U

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	1800	J
51-28-5	2. 4-Dinitrophenol	210000	U
100-02-7	4-Nitrophenol	210000	U
132-64-9	Dibenzofuran	43000	U
121-14-2	2 4-Dinitrotoluene	43000	U
606-20-2	2 6-Dinitrotoluene	43000	U
84-66-2	Diethylphthalate	43000	U
7005-72-3	4-Chlorophenyl-phenylether	43000	U
86-73-7	Fluorene	43000	U
100-01-6	4-Nitroaniline	210000	U
534-52-1	4. 6-Dinitro-2-Methylphenol	210000	U
86-30-6	N-Nitrosodiphenylamine (1)	43000	U
101-55-3	4-Bromophenyl-phenylether	43000	U
118-74-1	Hexachlorobenzene	43000	U
87-86-5	Pentachlorophenol	1,400,000	
85-01-8	Phenanthrene	37000	J
120-12-7	Anthracene	43000	U
84-74-2	Di-n-Butylphthalate	43000	U
206-44-0	Fluoranthene	45000	
129-00-0	Pyrene	71000	
85-68-7	Butylbenzylphthalate	43000	U
91-94-1	3 3 -Dichlorobenzidine	86000	
56-55-3	Benzo(a)Anthracene	27000	J
117-81-7	bis(2-Ethylhexyl)Phthalate	43000	U
218-01-9	Chrysene	39000	J
117-84-0	Di-n-Octyl Phthalate	43000	U
205-99-2	Benzo(b)Fluoranthene	48000	
207-08-9	Benzo(k)Fluoranthene	43000	U
50-32-8	Benzo(a)Pyrene	20000	J
193-39-5	Indeno(1 2. 3-cd)Pyrene	43000	U
53-70-3	Dibenzo(a h)Anthracene	43000	U
191-24-2	Benzo(g h i)Perylene	43000	U

(1)-Cannot be separated from diphenylamine

Laboratory Name ecology and environment, inc.

Case No U-4465

Sample Number DC-SS-16

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 11-14-86

Date Analyzed 11-25-86

Conc/Dil Factor 1,000

Percent Moisture (decanted) 22.6

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or (ug/Kg) (Circle One)
319-84-6	Alpha-BHC	16,000 U
319-85-7	Beta-BHC	16,000 U
319-86-8	Delta-BHC	16,000 U
58-89-9	Gamma-BHC (Lindane)	16,000 U
76-44-8	Heptachlor	16,000 U
309-00-2	Aldrin	16,000 U
1024-57-3	Heptachlor Epoxide	16,000 U
959-98-8	Endosulfan I	16,000 U
60-57-1	Dieldrin	32,000 U
72-55-9	4,4'-DDE	32,000 U
72-20-8	Endrin	32,000 U
33213-65-9	Endosulfan II	32,000 U
72-54-8	4,4'-DDD	32,000 U
1031-07-8	Endosulfan Sulfate	32,000 U
50-29-3	4,4'-DDT	32,000 U
72-43-5	Methoxychlor	160,000 U
53494-70-5	Endrin Ketone	32,000 U
57-74-9	Chlordane	160,000 U
8001-35-2	Toxaphene	320,000 U
12674-11-2	Aroclor-1016	160,000 U
11104-28-2	Aroclor-1221	160,000 U
11141-16-5	Aroclor-1232	160,000 U
53469-21-9	Aroclor-1242	160,000 U
12672-29-6	Aroclor-1248	171,000
11097-69-1	Aroclor-1254	320,000 U
11096-82-5	Aroclor-1260	232,000 J

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_t 1000 V_i 4

Form 1

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S468

Laboratory Name ECOLOGY & ENVIRONMENT INC.
Case No U-4465

Sample Number
DC-SS-16

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number MIN	Estimated Concentration (ug/l or ug/kg)
1.	HEXENE ISOMER	VOA	17.4	4 BJ
2.	UNKNOWN KETONE	VOA	19.7	9 BJ
3.	HEXANE ISOMER	VOA	21.3	11 BJ
4				
5	UNKNOWN AROMATIC	BNA	20.4	610,000 J
6.	UNKNOWN AROMATIC		20.8	1,200,000 J
7	UNKNOWN AROMATIC		21.0	760,000 J
8	UNKNOWN AROMATIC		21.1	110,000 J
9	UNKNOWN AROMATIC		21.3	440,000 J
10	UNKNOWN AROMATIC		21.6	290,000 J
11	UNKNOWN AROMATIC		21.7	360,000 J
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Sample Number
DC-SS-17

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc.
Case No: U-4465
Lab Sample ID No: 9764
QC Report No:
Sample Matrix: Soil
Contract No: IL-3140
Data Release Authorized By: C Skotowicz
Date Sample Received: 11-13-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed: 11-18-86
Conc/Dil Factor: 3 pH 7.2
Percent Moisture: (Not Decanted) 28

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	90 B
67-64-1	Acetone	13 BJ
75-15-0	Carbon Disulfide	15u
75-35-4	1,1-Dichloroethene	15u
75-34-3	1,1-Dichloroethane	15u
156-60-5	Trans-1,2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1,2-Dichloroethane	15u
78-93-3	2-Butanone	30u
71-55-6	1,1,1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1,2-Dichloropropane	15u
10061-02-6	Trans-1,3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1,1,2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1,3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	30u
591-78-6	2-Hexanone	30u
127-18-4	Tetrachloroethene	15u
79-34-5	1,1,2,2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration, dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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S470

Sample Number
DC-SS-17

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc.
Case No: U-4465
Lab Sample ID No: 9764
QC Report No:
Sample Matrix: Soil
Contract No: IL-3140
Data Release Authorized By: C Skytowicz
Date Sample Received: 11-13-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed: 11-18-86
Conc./Dil Factor: 3 pH 7.2
Percent Moisture. (Not Decanted) 28

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	90 B
67-64-1	Acetone	13 BJ
75-15-0	Carbon Disulfide	15u
75-35-4	1, 1 Dichloroethene	15u
75-34-3	1, 1-Dichloroethane	15u
156-60-5	Trans-1, 2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1, 2 Dichloroethane	15u
78-93-3	2 Butanone	30u
71-55-6	1, 1, 1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or (ug/Kg) (Circle One)
78-87-5	1, 2-Dichloropropane	15u
10061-02-6	Trans-1, 3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1, 1, 2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1, 3 Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl 2 Pentanone	30u
591-78-6	2 Hexanone	30u
127-18-4	Tetrachloroethene	15u
79-34-5	1, 1, 2, 2 Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value — If the result is a value greater than or equal to the detection limit, report the value.

U — Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration, dilution, action. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J — Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C — This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B — This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other — Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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S471

Laboratory Name ecology and environment, inc.

Case No U-4465

Sample Number DC-SS-17

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 11-14-86

Date Analyzed 11-25-86

Conc/Dil Factor 10,000

Percent Moisture (decanted) 28.3

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	160,000 U
319-85-7	Beta-BHC	160,000 U
319-86-8	Delta-BHC	160,000 U
58-89-9	Gamma-BHC (Lindane)	160,000 U
76-44-8	Heptachlor	160,000 U
309-00-2	Aldrin	160,000 U
1024-57-3	Heptachlor Epoxide	160,000 U
959-98-8	Endosulfan I	160,000 U
60-57-1	Dieldrin	320,000 U
72-55-9	4,4'-DDE	320,000 U
72-20-8	Endrin	320,000 U
33213-65-9	Endosulfan II	320,000 U
72-54-8	4,4'-DDD	320,000 U
1031-07-8	Endosulfan Sulfate	320,000 U
50-29-3	4,4'-DDT	320,000 U
72-43-5	Methoxychlor	1,600,000 U
53494-70-5	Endrin Ketone	320,000 U
57-74-9	Chlordane	1,600,000 U
8001-35-2	Toxaphene	3,200,000 U
12674-11-2	Aroclor-1016	1,600,000 U
11104-28-2	Aroclor-1221	1,600,000 U
11141-16-5	Aroclor-1232	1,600,000 U
53469-21-9	Aroclor-1242	1,600,000 U
12672-29-6	Aroclor-1248	1,600,000 U
11097-69-1	Aroclor-1254	3,200,000 U
11096-82-5	Aroclor-1260	3,700,000 J C

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

315

V_s _____ or W_s 30 V_t 1,000 V_i 4

Form 1

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ecology and environment

S472

Laboratory Name ECOLOGY & ENVIRONMENT INC.
Case No V-4465

Sample Number
DC-SS-17

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared 11-14-86
Date Analyzed 12-2-86
Conc/Dil Factor: 100
Percent Moisture (Decanted) 28

GPC Cleanup ☐Yes ☒No
Separatory Funnel Extraction ☐Yes
Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or (ug/Kg) (Circle One)	
108-95-2	Phenol	23000	U
111-44-4	bis(2-Chloroethyl)Ether	23000	U
95-57-8	2-Chlorophenol	23000	U
541-73-1	1,3-Dichlorobenzene	23000	U
106-46-7	1,4-Dichlorobenzene	23000	U
100-51-6	Benzyl Alcohol	23000	U
95-50-1	1,2-Dichlorobenzene	23000	U
95-48-7	2-Methylphenol	23000	U
39638-32-9	bis(2-chloroisopropyl)Ether	23000	U
106-44-5	4-Methylphenol	23000	U
621-64-7	N-Nitroso-Di-n-Propylamine	23000	U
67-72-1	Hexachloroethane	23000	U
98-95-3	Nitrobenzene	23000	U
78-59-1	Isophorone	23000	U
88-75-5	2-Nitrophenol	23000	U
105-67-9	2,4-Dimethylphenol	23000	U
65-85-0	Benzoic Acid	110000	U
111-91-1	bis(2-Chloroethoxy)Methane	23000	U
120-83-2	2,4-Dichlorophenol	23000	U
120-82-1	1,2,4-Trichlorobenzene	990	J
91-20-3	Naphthalene	120000	
106-47-8	4-Chloroaniline	23000	U
87-68-3	Hexachlorobutadiene	23000	U
59-50-7	4-Chloro-3-Methylphenol	23000	U
91-57-6	2-Methylnaphthalene	23000	U
77-47-4	Hexachlorocyclopentadiene	23000	U
88-06-2	2,4,6-Trichlorophenol	23000	U
95-95-4	2,4,5-Trichlorophenol	110000	U
91-58-7	2-Chloronaphthalene	23000	U
88-74-4	2-Nitroaniline	110000	U
131-11-3	Dimethyl Phthalate	23000	U
208-96-8	Acenaphthylene	23000	U
99-09-2	3-Nitroaniline	110000	U

CAS Number		ug/l or (ug/Kg) (Circle One)	
83-32-9	Acenaphthene	1100	J
51-28-5	2,4-Dinitrophenol	110000	U
100-02-7	4-Nitrophenol	110000	U
132-64-9	Dibenzofuran	23000	U
121-14-2	2,4-Dinitrotoluene	23000	U
606-20-2	2,6-Dinitrotoluene	23000	U
84-66-2	Diethylphthalate	23000	U
7005-72-3	4-Chlorophenyl-phenylether	23000	U
86-73-7	Fluorene	23000	U
100-01-6	4-Nitroaniline	110000	U
534-52-1	4,6-Dinitro-2-Methylphenol	110000	U
86-30-6	N-Nitrosodiphenylamine (1)	23000	U
101-55-3	4-Bromophenyl-phenylether	23000	U
118-74-1	Hexachlorobenzene	10000	J
87-86-5	Pentachlorophenol	110000	U
85-01-8	Phenanthrene	8700	J
120-12-7	Anthracene	23000	U
84-74-2	Di-n-Butylphthalate	23000	U
206-44-0	Fluoranthene	23000	U
129-00-0	Pyrene	3800	J
85-68-7	Butylbenzylphthalate	23000	U
91-94-1	3,3'-Dichlorobenzidine	46000	U
56-55-3	Benzo(a)Anthracene	23000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	23000	U
218-01-9	Chrysene	23000	U
117-84-0	Di-n-Octyl Phthalate	23000	U
205-99-2	Benzo(b)Fluoranthene	23000	U
207-08-9	Benzo(k)Fluoranthene	23000	U
50-32-8	Benzo(a)Pyrene	23000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	23000	U
53-70-3	Dibenz(a,h)Anthracene	23000	U
191-24-2	Benzo(g,h,i)Perylene	23000	U

(1)-Cannot be separated from diphenylamine

Laboratory Name Ecology & Environment, Inc

Case No U-4465

Sample Number DC-SS-17

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number MIN.	Estimated Concentration (ug/l or ug/kg)
1.	Hexene isomer	VOA	17.4 min	4 BJ
2.	Hexane isomer	VOA	21.4 min	12 BJ
3.				
4.	UNKNOWN AROMATIC	BNA	21.2	17000 J
5.	UNKNOWN AROMATIC		21.4	48000 J
6.	UNKNOWN AROMATIC		21.8	110,000 J
7.	UNKNOWN		21.9	5300 J
8.	UNKNOWN AROMATIC		22.0	71000 J
9.	UNKNOWN AROMATIC		22.1	45000 J
10.	UNKNOWN AROMATIC		22.4	75000 J
11.	UNKNOWN AROMATIC		22.5	10000 J
12.	PENTAMETHYLHEPTYL BENZENE		22.7	62000 J
13.	PENTAMETHYL HEPTYL BENZENE		22.8	64000 J
14.	DIMETHYL DECYL BENZENE		23.0	41000 J
15.	UNKNOWN AROMATIC		23.4	15000 J
16.	UNKNOWN AROMATIC		24.1	8600 J
17.	UNKNOWN AROMATIC		25.3	12000 J
18.	UNKNOWN AROMATIC		25.6	10000 J
19.	PCB		29.6 - 32.4	—
20.	UNKNOWN		38.5	9800 J
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Sample Number
DC-SS-18

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc. Case No: U-4465
Lab Sample ID No: 9765 QC Report No:
Sample Matrix: Soil Contract No: IL-3140
Data Release Authorized By: [signature] Date Sample Received: 11-13-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed: 11-26-86
Conc./Dil Factor: 3 pH 7.1
Percent Moisture. (Not Decanted) 23

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	36 B
67-64-1	Acetone	67 B
75-15-0	Carbon Disulfide	15u
75-35-4	1, 1-Dichloroethene	15u
75-34-3	1, 1-Dichloroethane	15u
156-60-5	Trans-1, 2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1, 2-Dichloroethane	15u
78-93-3	2-Butanone	30u
71-55-6	1, 1, 1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or (ug/Kg) (Circle One)
78-87-5	1, 2-Dichloropropane	15u
10061-02-6	Trans-1, 3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1, 1, 2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1, 3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	55
591-78-6	2-Hexanone	30u
127-18-4	Tetrachloroethene	15u
79-34-5	1, 1, 2, 2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value — If the result is a value greater than or equal to the detection limit, report the value.

U — Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration, dilution, etc. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J — Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.

C — This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/µl in the final extract should be confirmed by GC/MS.

B — This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other — Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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Form I 11/85

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Laboratory Name Ecology & Environment Inc.
Case No V-4465

Sample Number
DC-SS-18

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared 11-14-86
Date Analyzed 12-2-86
Conc./Dil Factor 100
Percent Moisture (Decanted) 23

GPC Cleanup ☐Yes ☒No
Separatory Funnel Extraction ☐Yes
Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	21000 U
111-44-4	bis(2-Chloroethyl)Ether	21000 U
95-57-8	2-Chlorophenol	21000 U
541-73-1	1,3-Dichlorobenzene	21000 U
106-46-7	1,4-Dichlorobenzene	21000 U
100-51-6	Benzyl Alcohol	21000 U
95-50-1	1,2-Dichlorobenzene	21000 U
95-48-7	2-Methylphenol	21000 U
39638-32-9	bis(2-chloroisopropyl)Ether	21000 U
106-44-5	4-Methylphenol	21000 U
621-64-7	N-Nitroso-Di-n-Propylamine	21000 U
67-72-1	Hexachloroethane	21000 U
98-95-3	Nitrobenzene	21000 U
78-59-1	Isophorone	21000 U
88-75-5	2-Nitrophenol	21000 U
105-67-9	2,4-Dimethylphenol	21000 U
65-85-0	Benzoic Acid	100000 U
111-91-1	bis(2-Chloroethoxy)Methane	21000 U
120-83-2	2,4-Dichlorophenol	21000 U
120-82-1	1,2,4-Trichlorobenzene	21000 U
91-20-3	Naphthalene	21000 U
106-47-8	4-Chloroaniline	21000 U
87-68-3	Hexachlorobutadiene	21000 U
59-50-7	4-Chloro-3-Methylphenol	21000 U
91-57-6	2-Methylnaphthalene	21000 U
77-47-4	Hexachlorocyclopentadiene	21000 U
88-06-2	2,4,6-Trichlorophenol	21000 U
95-95-4	2,4,5-Trichlorophenol	100000 U
91-58-7	2-Chloronaphthalene	21000 U
88-74-4	2-Nitroaniline	100000 U
131-11-3	Dimethyl Phthalate	21000 U
208-96-8	Acenaphthylene	21000 U
99-09-2	3-Nitroaniline	100000 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	21000 U
51-28-5	2,4-Dinitrophenol	100000 U
100-02-7	4-Nitrophenol	100000 U
132-64-9	Dibenzofuran	21000 U
121-14-2	2,4-Dinitrotoluene	21000 U
606-20-2	2,6-Dinitrotoluene	21000 U
84-66-2	Diethylphthalate	21000 U
7005-72-3	4-Chlorophenyl-phenylether	21000 U
86-73-7	Fluorene	21000 U
100-01-6	4-Nitroaniline	100000 U
534-52-1	4,6-Dinitro-2-Methylphenol	100000 U
86-30-6	N-Nitrosodiphenylamine (1)	21000 U
101-55-3	4-Bromophenyl-phenylether	21000 U
118-74-1	Hexachlorobenzene	21000 U
87-86-5	Pentachlorophenol	100000 U
85-01-8	Phenanthrene	21000 U
120-12-7	Anthracene	21000 U
84-74-2	Di-n-Butylphthalate	21000 U
206-44-0	Fluoranthene	21000 U
129-00-0	Pyrene	21000 U
85-68-7	Butylbenzylphthalate	21000 U
91-94-1	3,3'-Dichlorobenzidine	43000 U
56-55-3	Benzo(a)Anthracene	21000 U
117-81-7	bis(2-Ethylhexyl)Phthalate	21000 U
218-01-9	Chrysene	21000 U
117-84-0	Di-n-Octyl Phthalate	21000 U
205-99-2	Benzo(b)Fluoranthene	21000 U
207-08-9	Benzo(k)Fluoranthene	21000 U
50-32-8	Benzo(a)Pyrene	21000 U
193-39-5	Indeno(1,2,3-cd)Pyrene	21000 U
53-70-3	Dibenz(a,h)Anthracene	21000 U
191-24-2	Benzo(g,h,i)Perylene	21000 U

(1)-Cannot be separated from diphenylamine

Laboratory Name ecology and environment, inc.

Case No U-4465

Sample Number DC-SS-18

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 11-14-86

Date Analyzed 11-25-86

Conc/Dil Factor 5,000

Percent Moisture (decanted) 22.9

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or (ug/Kg) (Circle One)
319-84-6	Alpha BHC	80,000 u
319-85-7	Beta-BHC	80,000 u
319-86-8	Delta-BHC	80,000 u
58-89-9	Gamma-BHC (Lindane)	80,000 u
76-44-8	Heptachlor	80,000 u
309-00-2	Aldrin	80,000 u
1024-57-3	Heptachlor Epoxide	80,000 u
959-98-8	Endosulfan I	80,000 u
60-57-1	Dieldrin	160,000 u
72-55-9	4 4 -DDE	160,000 u
72-20-8	Endrin	160,000 u
33213-65-9	Endosulfan II	160,000 u
72-54-8	4 4 -DDD	160,000 u
1031-07-8	Endosulfan Sulfate	160,000 u
50-29-3	4 4 -DDT	160,000 u
72-43-5	Methoxychlor	800,000 u
53494-70-5	Endrin Ketone	160,000 u
57-74-9	Chlordane	800,000 u
8001-35-2	Toxaphene	1,600,000 u
12674-11-2	Aroclor-1016	800,000 u
11104-28-2	Aroclor-1221	800,000 u
11141-16-5	Aroclor-1232	800,000 u
53469-21-9	Aroclor-1242	800,000 u
12672-29-6	Aroclor-1248	1,700,000
11097-69-1	Aroclor-1254	1,600,000 u
11096-82-5	Aroclor-1260	1,600,000 u

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_t 1,000 V_i 4

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Form 1

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ecology

S477

Laboratory Name ecology and environment, inc.

Case No 11 4465

Sample Number DC-SS-18

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min.	Estimated Concentration (ug/l or ug/kg)
1.	Hexene isomer	VOA	18.0	310 J
2.	Hexene isomer	VOA	18.7	780 J
3.	Hexene isomer	VOA	19.9	86 J
4.	Unknown Ketone	VOA	19.4	24 J
5.	Unknown hydrocarbon	VOA	23.8	41 J
6.	Unknown hydrocarbon	VOA	24.2	40 J
7.	Unknown hydrocarbon	VOA	24.7	29 J
8.				
9.	DIMETHYLNONYL BENZENE	BNA	20.4	28000 J
10.	UNKNOWN AROMATIC		20.7	98000 J
11.	UNKNOWN AROMATIC		21.0	96000 J
12.	DIMETHYL DECYL BENZENE		21.2	190000 J
13.	UNKNOWN AROMATIC		21.3	76000 J
14.	UNKNOWN AROMATIC		21.4	430000 J
15.	UNKNOWN AROMATIC		21.6	76000 J
16.	PENTAMETHYLHEPTYL BENZENE		21.7	200000 J
17.	UNKNOWN AROMATIC		21.8	690000 J
18.	DIMETHYL DECYL BENZENE		22.0	330000 J
19.	PENTAMETHYL HEPTYL BENZENE		22.1	430000 J
20.	UNKNOWN AROMATIC		22.2	220000 J
21.	UNKNOWN AROMATIC		22.4	720000 J
22.	UNKNOWN		22.5	130,000 J
23.	PENTAMETHYL HEPTYL BENZENE		22.7	820000 J
24.	DIMETHYL DECYL BENZENE		22.8	810000 J
25.	UNKNOWN AROMATIC		23.0	420000 J
26.	UNKNOWN		24.4	200000 J
27.	UNKNOWN		25.6	200,000 J
28.	UNKNOWN		26.8	98000 J
29.				
30.				

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Form 1 Part B

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ecology and

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Sample Number
DC-SS-19

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc Case No: U-4465
Lab Sample ID No: 9766 QC Report No:
Sample Matrix: Soil Contract No: IL-3140
Data Release Authorized By: C Stoytowicz Date Sample Received: 11-13-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed: 11-18-86
Conc./Dil Factor: 10 pH 4.4
Percent Moisture: (Not Decanted) 31

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	100u
74-83-9	Bromomethane	100u
75-01-4	Vinyl Chloride	100u
75-00-3	Chloroethane	100u
75-09-2	Methylene Chloride	230 B
67-64-1	Acetone	91 BJ
75-15-0	Carbon Disulfide	50u
75-35-4	1,1-Dichloroethene	50u
75-34-3	1,1-Dichloroethane	50u
156-60-5	Trans-1,2-Dichloroethene	50u
67-66-3	Chloroform	50u
107-06-2	1,2-Dichloroethane	50u
78-93-3	2-Butanone	180 B
71-55-6	1,1,1-Trichloroethane	50u
56-23-5	Carbon Tetrachloride	50u
108-05-4	Vinyl Acetate	100u
75-27-4	Bromodichloromethane	50u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1,2-Dichloropropane	50u
10061-02-6	Trans-1,3-Dichloropropene	50u
79-01-6	Trichloroethene	50u
124-48-1	Dibromochloromethane	50u
79-00-5	1,1,2-Trichloroethane	50u
71-43-2	Benzene	50u
10061-01-5	cis-1,3-Dichloropropene	50u
110-75-8	2-Chloroethylvinylether	100u
75-25-2	Bromoform	50u
108-10-1	4-Methyl-2-Pentanone	560
591-78-6	2-Hexanone	100u
127-18-4	Tetrachloroethene	50u
79-34-5	1,1,2,2-Tetrachloroethane	50u
108-88-3	Toluene	50u
108-90-7	Chlorobenzene	50u
100-41-4	Ethylbenzene	50u
100-42-5	Styrene	50u
	Total Xylenes	50u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value — If the result is a value greater than or equal to the detection limit, report the value.

U — Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration, dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum quantitative detection limit for the sample.

J — Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.

C — This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/µl in the final extract should be confirmed by GC/MS.

B — This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other — Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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Form I 11/85

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Sample Number
DC-SS-19 RE

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc.
Case No: U-4465
Lab Sample ID No: 9766 RE
QC Report No:
Sample Matrix: Soil
Contract No.: IL-3140
Data Release Authorized By: [signature]
Date Sample Received: 11-13-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed: 11-26-86
Conc./Dil Factor: 3 pH 4.4
Percent Moisture: (Not Decanted) 31

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	81 B
67-64-1	Acetone	140 B
75-15-0	Carbon Disulfide	15u
75-35-4	1,1-Dichloroethene	15u
75-34-3	1,1-Dichloroethane	15u
156-60-5	Trans-1,2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1,2-Dichloroethane	15u
78-93-3	2-Butanone	30u
71-55-6	1,1,1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1,2-Dichloropropane	15u
10061-02-6	Trans-1,3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1,1,2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1,3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	220 B
591-78-6	2-Hexanone	17 BJ
127-18-4	Tetrachloroethene	13 J
79-34-5	1,1,2,2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration, dilution, action. (This is not necessarily the instrument detection limit.) The footnote should read: U Compound was analyzed for but not detected. The number is the minimum quantifiable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/µl in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such data given attached to the data summary report.

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Form 1

11/85

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ecology and environment

S480

Laboratory Name: Ecology & Environment Inc.

Case No: V-4465

Sample Number: DC-SS-19

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 11-14-86

Date Analyzed: 12-19-86

Conc./Dil Factor: 200

Percent Moisture (Decanted): 32

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
108-95-2	Phenol	48000	U
111-44-4	bis(2-Chloroethyl)Ether	48000	U
95-57-8	2-Chlorophenol	48000	U
541-73-1	1,3-Dichlorobenzene	48000	U
106-46-7	1,4-Dichlorobenzene	48000	U
100-51-6	Benzyl Alcohol	48000	U
95-50-1	1,2-Dichlorobenzene	48000	U
95-48-7	2-Methylphenol	48000	U
39638-32-9	bis(2-chloroisopropyl)Ether	48000	U
106-44-5	4-Methylphenol	48000	U
621-64-7	N-Nitroso-Di-n-Propylamine	48000	U
67-72-1	Hexachloroethane	48000	U
98-95-3	Nitrobenzene	48000	U
78-59-1	Isophorone	48000	U
88-75-5	2-Nitrophenol	48000	U
105-67-9	2,4-Dimethylphenol	48000	U
65-85-0	Benzoic Acid	240000	U
111-91-1	bis(2-Chloroethoxy)Methane	48000	U
120-83-2	2,4-Dichlorophenol	48000	U
120-82-1	1,2,4-Trichlorobenzene	48000	U
91-20-3	Naphthalene	48000	U
106-47-8	4-Chloroaniline	48000	U
87-68-3	Hexachlorobutadiene	48000	U
59-50-7	4-Chloro-3-Methylphenol	48000	U
91-57-6	2-Methylnaphthalene	48000	U
77-47-4	Hexachlorocyclopentadiene	48000	U
88-06-2	2,4,6-Trichlorophenol	48000	U
95-95-4	2,4,5-Trichlorophenol	240000	U
91-58-7	2-Chloronaphthalene	48000	U
88-74-4	2-Nitroaniline	240000	U
131-11-3	Dimethyl Phthalate	48000	U
208-96-8	Acenaphthylene	48000	U
99-09-2	3-Nitroaniline	240000	U

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	48000	U
51-28-5	2,4-Dinitrophenol	240000	U
100-02-7	4-Nitrophenol	240000	U
132-64-9	Dibenzofuran	48000	U
121-14-2	2,4-Dinitrotoluene	48000	U
606-20-2	2,6-Dinitrotoluene	48000	U
84-66-2	Diethylphthalate	48000	U
7005-72-3	4-Chlorophenyl-phenylether	48000	U
86-73-7	Fluorene	48000	U
100-01-6	4-Nitroaniline	240000	U
534-52-1	4,6-Dinitro-2-Methylphenol	240000	U
86-30-6	N-Nitrosodiphenylamine (1)	48000	U
101-55-3	4-Bromophenyl-phenylether	48000	U
118-74-1	Hexachlorobenzene	48000	U
87-86-5	Pentachlorophenol	240000	U
85-01-8	Phenanthrene	48000	U
120-12-7	Anthracene	48000	U
84-74-2	Di-n-Butylphthalate	48000	U
206-44-0	Fluoranthene	48000	U
129-00-0	Pyrene	48000	U
85-68-7	Butylbenzylphthalate	48000	U
91-94-1	3,3'-Dichlorobenzidine	97000	U
56-55-3	Benzo(a)Anthracene	48000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	48000	U
218-01-9	Chrysene	48000	U
117-84-0	Di-n-Octyl Phthalate	48000	U
205-99-2	Benzo(b)Fluoranthene	48000	U
207-08-9	Benzo(k)Fluoranthene	48000	U
50-32-8	Benzo(a)Pyrene	48000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	48000	U
53-70-3	Dibenz(a,h)Anthracene	48000	U
191-24-2	Benzo(g,h,i)Perylene	48000	U

(1)-Cannot be separated from diphenylamine

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Laboratory Name ecology and environment, inc.

Case No U-4465

Sample Number DC-SS-19

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 11-14-86

Date Analyzed 11-25-86

Conc/Dil Factor 10,000

Percent Moisture (decanted) 31.5

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
319-84-6	Alpha BHC	160,000 u	
319-85-7	Beta BHC	160,000 u	
319-86-8	Delta-BHC	160,000 u	
58-89-9	Gamma-BHC (Lindane)	160,000 u	
76-44-8	Heptachlor	160,000 u	
309-00-2	Aldrin	160,000 u	
1024-57-3	Heptachlor Epoxide	160,000 u	
959-98-8	Endosulfan I	160,000 u	
60-57-1	Dieldrin	320,000 u	
72-55-9	4,4'-DDE	320,000 u	
72-20-8	Endrin	320,000 u	
33213-65-9	Endosulfan II	320,000 u	
72-54-8	4,4'-DDD	320,000 u	
1031-07-8	Endosulfan Sulfate	320,000 u	
50-29-3	4,4'-DDT	320,000 u	
72-43-5	Methoxychlor	1,600,000 u	
53494-70-5	Endrin Ketone	320,000 u	
57-74-9	Chlordane	1,600,000 u	
8001-35-2	Toxaphene	3,200,000 u	
12674-11-2	Aroclor-1016	1,600,000 u	
11104-28-2	Aroclor-1221	1,600,000 u	
11141-16-5	Aroclor-1232	1,600,000 u	
53469-21-9	Aroclor-1242	1,600,000 u	
12672-29-6	Aroclor-1248	3,600,000	C
11097-69-1	Aroclor-1254	7,500,000	C
11096-82-5	Aroclor-1260	8,000,000	C

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_t 1,000 V_i 4

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Laboratory Name Ecology & Environment, Inc

Case No 4-4465

Sample Number DC-SS-19

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number min	Estimated Concentration (ug/l or ug/kg)
1.		Hexene isomer	VOA	18.2	140 J
2.		Hexene isomer	VOA	19.0	410 J
3.		Unknown hydrocarbon	VOA	20.1	47 J
4.		Unknown hydrocarbon	VOA	21.4	48 J
5.		Unknown alcohol	VOA	24.0	430 J
6.					
7.		UNKNOWN AROMATIC	BNA	20.3	280000 J
8.		UNKNOWN AROMATIC		20.8	360000 J
9.		UNKNOWN AROMATIC		20.9	280000 J
10.		UNKNOWN AROMATIC		21.1	180000 J
11.		UNKNOWN AROMATIC		21.3	380000 J
12.		UNKNOWN AROMATIC		21.5	47000 J
13.		UNKNOWN AROMATIC		21.7	290000 J
14.		UNKNOWN AROMATIC		21.8	390000 J
15.		UNKNOWN AROMATIC		21.9	150000 J
16.		UNKNOWN AROMATIC		22.2	25000 J
17.		UNKNOWN AROMATIC		22.3	64000 J
18.		UNKNOWN AROMATIC		22.4	68000 J
19.		UNKNOWN AROMATIC		22.8	68000 J
20.		UNKNOWN AROMATIC		23.0	64000 J
21.		UNKNOWN AROMATIC		23.2	110000 J
22.		UNKNOWN AROMATIC		23.3	150000 J
23.		UNKNOWN AROMATIC		23.4	61000 J
24.		PCB		24.1-	—
25.		UNKNOWN AROMATIC		24.3	92000 J
26.		PCB		28.6-30.2	—
27.					
28.					
29.					
30.					

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Laboratory Name Ecology & Environment, Inc
Case No U-4465

Sample Number
DC-SS-19RE

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min	Estimated Concentration (ug/l or ug/kg)
1.	Hexene isomer	VOA	17.9	360 J
2.	Hexene isomer	VOA	18.7	950 J
3.	Unknown hydrocarbon	VOA	19.4	25 J
4.	Unknown hydrocarbon	VOA	19.8	130 J
5.	Unknown alcohol	VOA	23.7	180 J
6.	~~Tetrachloroethene~~	~~VOA~~	~~24.7~~	~~13~~ ug
7.				
8.				
9.				
10.				
11.				
12.				
13.				
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24.				
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26.				
27.				
28.				
29.				
30.				

Sample Number
DC-SS-20

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc. Case No: U-4465
Lab Sample ID No: 9767 QC Report No:
Sample Matrix: Soil Contract No: IL-3140
Data Release Authorized By: [signature] Date Sample Received: 11-13-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed: 11-18-86
Conc./Dil Factor: 3 pH 6.2
Percent Moisture: (Not Decanted) 33

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	61 B
67-64-1	Acetone	41
75-15-0	Carbon Disulfide	15u
75-35-4	1,1-Dichloroethene	15u
75-34-3	1,1-Dichloroethane	15u
156-60-5	Trans-1,2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1,2-Dichloroethane	15u
78-93-3	2-Butanone	49
71-55-6	1,1,1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1,2-Dichloropropane	15u
10061-02-6	Trans-1,3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1,1,2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1,3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	75
591-78-6	2-Hexanone	30u
127-18-4	Tetrachloroethene	15u
79-34-5	1,1,2,2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration, dilution, action. (This is not necessarily the instrument detection limit.) The footnote should read: U Compound was analyzed for but not detected. The number is the minimum quantitation detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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Form I 11/85

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S485

Sample Number
DC-SS-20-RE

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc
Case No: U-4465
Lab Sample ID No: 9767 RE
QC Report No:
Sample Matrix: Soil
Contract No: IL-3140
Data Release Authorized By: [signature]
Date Sample Received: 11-15-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed: 11-25-86

Conc/Dil Factor: 3 pH 6.2

Percent Moisture (Not Decanted): 33

CAS Number		ug/L or (ug/Kg) (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	73 B
67-64-1	Acetone	99 B
75-15-0	Carbon Disulfide	15u
75-35-4	1,1-Dichloroethene	15u
75-34-3	1,1-Dichloroethane	15u
156-60-5	Trans-1,2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1,2-Dichloroethane	15u
78-93-3	2-Butanone	30u
71-55-6	1,1,1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/L or (ug/Kg) (Circle One)
78-87-5	1,2-Dichloropropane	15u
10061-02-6	Trans-1,3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1,1,2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1,3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	510 B
591-78-6	2-Hexanone	58 B
127-18-4	Tetrachloroethene	15u
79-34-5	1,1,2,2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value: If the result is a value greater than or equal to the detection limit, report the value.

U: Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration, dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J: Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 ug/L and a concentration of 3 ug/L is calculated, report as 3J.

C: This flag applies to pesticide/PCB analytes where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B: This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other: Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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Form I

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S486

Laboratory Name Ecology & Environment Inc.

Case No U-4465

Sample Number DC-SS-20

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 11-14-86

Date Analyzed 12-3-86

Conc/Dil Factor: 100

Percent Moisture (Decanted) 33

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	25000 U
111-44-4	bis(2-Chloroethyl)Ether	25000 U
95-57-8	2-Chlorophenol	25000 U
541-73-1	1,3-Dichlorobenzene	25000 U
106-46-7	1,4-Dichlorobenzene	25000 U
100-51-6	Benzyl Alcohol	25000 U
95-50-1	1,2-Dichlorobenzene	25000 U
95-48-7	2-Methylphenol	25000 U
39638-32-9	bis(2-chloroisopropyl)Ether	25000 U
106-44-5	4-Methylphenol	25000 U
621-64-7	N-Nitroso-Di-n-Propylamine	25000 U
67-72-1	Hexachloroethane	25000 U
98-95-3	Nitrobenzene	25000 U
78-59-1	Isophorone	25000 U
88-75-5	2-Nitrophenol	25000 U
105-67-9	2,4-Dimethylphenol	25000 U
65-85-0	Benzoic Acid	120000 U
111-91-1	bis(2-Chloroethoxy)Methane	25000 U
120-83-2	2,4-Dichlorophenol	25000 U
120-82-1	1,2,4-Trichlorobenzene	25000 U
91-20-3	Naphthalene	1800 J
106-47-8	4-Chloroaniline	25000 U
87-68-3	Hexachlorobutadiene	25000 U
59-50-7	4-Chloro-3-Methylphenol	25000 U
91-57-6	2-Methylnaphthalene	25000 U
77-47-4	Hexachlorocyclopentadiene	25000 U
88-06-2	2,4,6-Trichlorophenol	25000 U
95-95-4	2,4,5-Trichlorophenol	120000 U
91-58-7	2-Chloronaphthalene	25000 U
88-74-4	2-Nitroaniline	120000 U
131-11-3	Dimethyl Phthalate	25000 U
208-96-8	Acenaphthylene	25000 U
99-09-2	3-Nitroaniline	120000 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	25000 U
51-28-5	2,4-Dinitrophenol	120000 U
100-02-7	4-Nitrophenol	120000 U
132-64-9	Dibenzofuran	25000 U
121-14-2	2,4-Dinitrotoluene	25000 U
606-20-2	2,6-Dinitrotoluene	25000 U
84-66-2	Diethylphthalate	25000 U
7005-72-3	4-Chlorophenyl-phenylether	25000 U
86-73-7	Fluorene	25000 U
100-01-6	4-Nitroaniline	120000 U
534-52-1	4,6-Dinitro-2-Methylphenol	120000 U
86-30-6	N-Nitrosodiphenylamine (1)	25000 U
101-55-3	4-Bromophenyl-phenylether	25000 U
118-74-1	Hexachlorobenzene	25000 U
87-86-5	Pentachlorophenol	120000 U
85-01-8	Phenanthrene	25000 U
120-12-7	Anthracene	25000 U
84-74-2	Di-n-Butylphthalate	3800 B J
206-44-0	Fluoranthene	25000 U
129-00-0	Pyrene	25000 U
85-68-7	Butylbenzylphthalate	25000 U
91-94-1	3,3'-Dichlorobenzidine	49000 U
56-55-3	Benzo(a)Anthracene	25000 U
117-81-7	bis(2-Ethylhexyl)Phthalate	25000 U
218-01-9	Chrysene	25000 U
117-84-0	Di-n-Octyl Phthalate	25000 U
205-99-2	Benzo(b)Fluoranthene	25000 U
207-08-9	Benzo(k)Fluoranthene	25000 U
50-32-8	Benzo(a)Pyrene	25000 U
193-39-5	Indeno(1,2,3-cd)Pyrene	25000 U
53-70-3	Dibenz(a,h)Anthracene	25000 U
191-24-2	Benzo(g,h,i)Perylene	25000 U

(1)-Cannot be separated from diphenylamine

Laboratory Name ecology and environment, inc.

Case No U-4465

Sample Number DC-SS-20

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration Low Medium (Circle One)

Date Extracted/Prepared 11-14-86

Date Analyzed 11-25-86

Conc/Dil Factor 1,000

Percent Moisture (decanted) 33.3

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	16,000 u
319-85-7	Beta-BHC	16,000 u
319-86-8	Delta-BHC	16,000 u
58-89-9	Gamma-BHC (Lindane)	16,000 u
76-44-8	Heptachlor	16,000 u
309-00-2	Aldrin	16,000 u
1024-57-3	Heptachlor Epoxide	16,000 u
959-98-8	Endosulfan I	16,000 u
60-57-1	Dieldrin	32,000 u
72-55-9	4,4'-DDE	32,000 u
72-20-8	Endrin	32,000 u
33213-65-9	Endosulfan II	32,000 u
72-54-8	4,4'-DDD	32,000 u
1031-07-8	Endosulfan Sulfate	32,000 u
50-29-3	4,4'-DDT	32,000 u
72-43-5	Methoxychlor	160,000 u
53494-70-5	Endrin Ketone	32,000 u
57-74-9	Chlordane	160,000 u
8001-35-2	Toxaphene	320,000 u
12674-11-2	Aroclor-1016	160,000 u
11104-28-2	Aroclor-1221	160,000 u
11141-16-5	Aroclor-1232	160,000 u
53469-21-9	Aroclor-1242	160,000 u
12672-29-6	Aroclor-1248	160,000 u
11097-69-1	Aroclor-1254	320,000 u
11096-82-5	Aroclor-1260	639,000

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_t 1000 V_i 4

Laboratory Name Ecology & Environment, Inc

Case No U-4465

Sample Number DC-SS-20

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min	Estimated Concentration (ug/l or ug/kg)
1.	Hexene isomer	VOA	18.3	53 J
2.	Hexene isomer	VOA	19.0	140 J
3.	Hexene isomer	VOA	19.8	6 JB
4.	Hexene isomer	VOA	20.1	19 J
5.	Hexane isomer	VOA	21.4	15 JB
6.	Unknown alcohol	VOA	24.0	26 J
7.	Unknown hydrocarbon	VOA	24.5	41 J
8.	Unknown hydrocarbon	VOA	25.0	38 J
9.				
10.	UNKNOWN AROMATIC	BNA	20.5	30000 J
11.	UNKNOWN		20.6	100000 J
12.	UNKNOWN AROMATIC		20.9	48000 J
13.	UNKNOWN AROMATIC		21.1	250000 J
14.	UNKNOWN AROMATIC		21.2	110000 J
15.	UNKNOWN AROMATIC		21.3	220000 J
16.	UNKNOWN AROMATIC		21.6	520000 J
17.	UNKNOWN AROMATIC		21.4	180000 J
18.	UNKNOWN		21.8	710000 J
19.	UNKNOWN AROMATIC		21.9	580000 J
20.	UNKNOWN AROMATIC		22.0	440000 J
21.	UNKNOWN AROMATIC		22.2	440000 J
22.	UNKNOWN AROMATIC		22.4	140000 J
23.	UNKNOWN AROMATIC		22.5	110000 J
24.	UNKNOWN AROMATIC		22.6	210000 J
25.	UNKNOWN AROMATIC		22.8	160000 J
26.	UNKNOWN AROMATIC		23.1	220000 J
27.	UNKNOWN AROMATIC		23.3	190000 J
28.	UNKNOWN AROMATIC		23.4	87000 J
29.	UNKNOWN AROMATIC		23.7	580000 J
30				

Laboratory Name Ecology & Environment, Inc

Case No U-4465

Sample Number DC-SS-20 RE

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min	Estimated Concentration (ug/l or ug/kg)
1.	Hexene isomer	VOA	17.9	3200 J
2.	Hexene isomer	VOA	18.7	8600 J
3.	Hexene isomer	VOA	19.8	2000 J
4.				
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Sample Number
DC-SS-21

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc.
Case No: U-4465
Lab Sample ID No: 9768
QC Report No:
Sample Matrix: Soil
Contract No: IL-3140
Data Release Authorized By: [signature]
Date Sample Received: 11-13-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed: 11-19-86

Conc/Dil Factor: 3 pH 6.9

Percent Moisture. (Not Decanted) 21

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	52 B
67-64-1	Acetone	310 B
75-15-0	Carbon Disulfide	15u
75-35-4	1, 1 Dichloroethylene	15u
75-34-3	1, 1-Dichloroethane	15u
156-60-5	Trans-1, 2-Dichloroethylene	15u
67-66-3	Chloroform	15u
107-06-2	1, 2 Dichloroethane	15u
78-93-3	2 Butanone	40 B
71-55-6	1, 1, 1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2 Dichloropropane	15u
10061-02-6	Trans-1, 3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1, 1, 2 Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1, 3 Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	40
591-78-6	2 Hexanone	30u
127-18-4	Tetrachloroethene	19
79-34-5	1, 1, 2, 2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration, dilution, etc. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take judicious action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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Form I 11/85

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S491

Sample Number
DC-SS-21-RE

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc Case No: U-4465
Lab Sample ID No: 9768 QC Report No:
Sample Matrix: Soil Contract No: IL-3140
Data Release Authorized By: [signature] Date Sample Received: 11-13-86

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed: 11-27-86
Conc./Dil Factor: 10 pH 6.9
Percent Moisture: (Not Decanted) 21

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	100u
74-83-9	Bromomethane	100u
75-01-4	Vinyl Chloride	100u
75-00-3	Chloroethane	100u
75-09-2	Methylene Chloride	160 B
67-64-1	Acetone	400 B
75-15-0	Carbon Disulfide	50u
75-35-4	1,1-Dichloroethene	50u
75-34-3	1,1-Dichloroethane	50u
156-60-5	Trans-1,2-Dichloroethene	50u
67-66-3	Chloroform	50u
107-06-2	1,2-Dichloroethane	50u
78-93-3	2-Butanone	100u
71-55-6	1,1,1-Trichloroethane	50u
56-23-5	Carbon Tetrachloride	50u
108-05-4	Vinyl Acetate	100u
75-27-4	Bromodichloromethane	50u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1,2-Dichloropropane	50u
10061-02-6	Trans-1,3-Dichloropropene	50u
79-01-6	Trichloroethene	50u
124-48-1	Dibromochloromethane	50u
79-00-5	1,1,2-Trichloroethane	50u
71-43-2	Benzene	50u
10061-01-5	cis-1,3-Dichloropropene	50u
110-75-8	2-Chloroethylvinylether	100u
75-25-2	Bromoform	50u
108-10-1	4-Methyl-2-Pentanone	160
591-78-6	2-Hexanone	23 BJ
127-18-4	Tetrachloroethene	40 J
79-34-5	1,1,2,2-Tetrachloroethane	50u
108-88-3	Toluene	50u
108-90-7	Chlorobenzene	50u
100-41-4	Ethylbenzene	50u
100-42-5	Styrene	50u
	Total Xylenes	50u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value — If the result is a value greater than or equal to the detection limit, report the value.

U — Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration, dilution, action. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J — Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C — This flag applies to pesticide/PCB analytes where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B — This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other — Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described in a cover letter attached to the data summary report.

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S492

Laboratory Name Ecology & Environment Inc.

Case No U-4465

Sample Number DC-SS-21

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared 11-14-86

Date Analyzed 12-4-86

Conc/Dil Factor 10,000

Percent Moisture (Decanted) 21

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	2,000,000 U
111-44-4	bis(-2-ChloroethylEther	2,000,000 U
95-57-8	2-Chlorophenol	2,000,000 U
541-73-1	1 3-Dichlorobenzene	2,000,000 U
106-46-7	1 4-Dichlorobenzene	22,000,000
100-51-6	Benzyl Alcohol	2,000,000 U
95-50-1	1 2-Dichlorobenzene	2,000,000 U
95-48-7	2-Methylphenol	2,000,000 U
39638-32-9	bis(2-chloroisopropyl)Ether	2,000,000 U
106-44-5	4-Methylphenol	2,000,000 U
621-64-7	N-Nitroso-Di-n-Propylamine	2,000,000 U
67-72-1	Hexachloroethane	2,000,000 U
98-95-3	Nitrobenzene	2,000,000 U
78-59-1	Isophorone	2,000,000 U
88-75-5	2-Nitrophenol	2,000,000 U
105-67-9	2. 4-Dimethylphenol	2,000,000 U
65-85-0	Benzoic Acid	10,000,000 U
111-91-1	bis(2-ChloroethoxylMethane	2,000,000 U
120-83-2	2 4-Dichlorophenol	2,000,000 U
120-82-1	1 2. 4-Trichlorobenzene	2,000,000 U
91-20-3	Naphthalene	2,000,000 U
106-47-8	4-Chloroaniline	2,000,000 U
87-68-3	Hexachlorobutadiene	2,000,000 U
59-50-7	4-Chloro-3-Methylphenol	2,000,000 U
91-57-6	2-Methylnaphthalene	2,000,000 U
77-47-4	Hexachlorocyclopentadiene	2,000,000 U
88-06-2	2 4 6-Trichlorophenol	2,000,000 U
95 95-4	2 4 5-Trichlorophenol	10,000,000 U
91-58-7	2-Chloronaphthalene	2,000,000 U
88-74-4	2-Nitroaniline	10,000,000 U
131-11-3	Dimethyl Phthalate	2,000,000 U
208-96-8	Acenaphthylene	2,000,000 U
99-09-2	3-Nitroaniline	10,000,000 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	2,000,000 U
51-28-5	2. 4-Dinitrophenol	10,000,000 U
100-02-7	4-Nitrophenol	10,000,000 U
132-64-9	Dibenzofuran	2,000,000 U
121-14-2	2 4-Dinitrotoluene	2,000,000 U
606-20-2	2 6-Dinitrotoluene	2,000,000 U
84-66-2	Diethylphthalate	2,000,000 U
7005-72-3	4-Chlorophenyl-phenylether	2,000,000 U
86-73-7	Fluorene	2,000,000 U
100-01-6	4-Nitroaniline	10,000,000 U
534-52-1	4. 6-Dinitro-2-Methylphenol	10,000,000 U
86-30-6	N-Nitrosodiphenylamine (1)	2,000,000 U
101-55-3	4-Bromophenyl-phenylether	2,000,000 U
118-74-1	Hexachlorobenzene	2,000,000 U
87-86-5	Pentachlorophenol	10,000,000 U
85-01-8	Phenanthrene	2,000,000 U
120-12-7	Anthracene	2,000,000 U
84-74-2	Di-n-Butylphthalate	2,000,000 U
206-44-0	Fluoranthene	2,000,000 U
129-00-0	Pyrene	2,000,000 U
85-68-7	Butylbenzylphthalate	2,000,000 U
91-94-1	3. 3-Dichlorobenzidine	4,000,000 U
56-55-3	Benzo(a)Anthracene	2,000,000 U
117-81-7	bis(2-Ethylhexyl)Phthalate	2,000,000 U
218-01-9	Chrysene	2,000,000 U
117-84-0	Di-n-Octyl Phthalate	2,000,000 U
205-99-2	Benzo(b)Fluoranthene	2,000,000 U
207-08-9	Benzo(k)Fluoranthene	2,000,000 U
50-32-8	Benzo(a)Pyrene	2,000,000 U
193-39-5	Indeno(1 2. 3-cd)Pyrene	2,000,000 U
53-70-3	Dibenzo(a h)Anthracene	2,000,000 U
191-24-2	Benzo(g h i)Perylene	2,000,000 U

(1)-Cannot be separated from diphenylamine

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Laboratory Name ecology and environment, inc.

Case No U-4465

Sample Number DC-SS-21

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 11-14-86

Date Analyzed 11-25-86

Conc/Dil Factor 5,000

Percent Moisture (decanted) 21.1

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	80,000 u
319-85-7	Beta-BHC	80,000 u
319-86-8	Delta-BHC	80,000 u
58-89-9	Gamma-BHC (Lindane)	80,000 u
76-44-8	Heptachlor	80,000 u
309-00-2	Aldrin	80,000 u
1024-57-3	Heptachlor Epoxide	80,000 u
959-98-8	Endosulfan I	80,000 u
60-57-1	Dieldrin	160,000 u
72-55-9	4,4'-DDE	160,000 u
72-20-8	Endrin	160,000 u
33213-65-9	Endosulfan II	160,000 u
72-54-8	4,4'-DDD	160,000 u
1031-07-8	Endosulfan Sulfate	160,000 u
50-29-3	4,4'-DDT	160,000 u
72-43-5	Methoxychlor	800,000 u
53494-70-5	Endrin Ketone	160,000 u
57-74-9	Chlordane	800,000 u
8001-35-2	Toxaphene	1,600,000 u
12674-11-2	Aroclor-1016	800,000 u
11104-28-2	Aroclor-1221	800,000 u
11141-16-5	Aroclor-1232	800,000 u
53469-21-9	Aroclor-1242	800,000 u
12672-29-6	Aroclor-1248	800,000 u
11097-69-1	Aroclor-1254	2,700,000
11096-82-5	Aroclor-1260	1,600,000 u

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_t 1,000 V_i 4

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Form 1

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S494

Laboratory Name Ecology & Environment, Inc

Case No 11-4465

Sample Number DC-SS-21

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min	Estimated Concentration (ug/l or ug/kg)
1. 106467	1,4-Dichlorobenzene	VOA	39.4	44000 J
2.				
3.	No Semi-Volatile Compounds Found			
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Laboratory Name ecology and environment, inc.

Case No 4-4465

Sample Number DC-SS-21-RE

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min.	Estimated Concentration (ug/l or ug/kg)
1.	Hexene isomer	VOA	18.0	42 J
2.	Hexene isomer	VOA	18.8	94 J
3. 106467	1,4-Dichlorobenzene	VOA	38.5	130000 J
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Form 1, Part B

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S496

Sample Number
DC - SS - 2u

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc Case No: U-4465
Lab Sample ID No: 9769 QC Report No:
Sample Matrix: Soil Contract No: IL-3140
Data Release Authorized By: [signature] Date Sample Received: 11-13-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed: 11-25-86
Conc./Dil Factor: 3 pH 7.2
Percent Moisture. (Not Decanted) 21

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	62 B
67-64-1	Acetone	30u
75-15-0	Carbon Disulfide	15u
75-35-4	1,1-Dichloroethene	15u
75-34-3	1,1-Dichloroethane	18u
156-60-5	Trans-1,2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1,2-Dichloroethane	15u
78-93-3	2-Butanone	30u
71-55-6	1,1,1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1,2-Dichloropropane	15u
10061-02-6	Trans-1,3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1,1,2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1,3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	49 B
591-78-6	2-Hexanone	28 BJ
127-18-4	Tetrachloroethene	15u
79-34-5	1,1,2,2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration, dilution, etc. (This is not necessarily the instrument detection limit.) The footnote should read: U Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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recycled paper ecology and environment

S497

Sample Number
DC-SS-22-RE

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc Case No: U-4465
Lab Sample ID No: 9769 QC Report No:
Sample Matrix: Soil Contract No: IL-3140
Data Release Authorized By: [signature] Date Sample Received: 11-13-86

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed: 11-26-86
Conc./Dil Factor: 3 pH 7.2
Percent Moisture: (Not Decanted) 21

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	22B
67-64-1	Acetone	15u
75-15-0	Carbon Disulfide	15u
75-35-4	1,1-Dichloroethene	15u
75-34-3	1,1-Dichloroethane	15u
156-60-5	Trans-1,2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1,2-Dichloroethane	15u
78-93-3	2-Butanone	30u
71-55-6	1,1,1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1,2-Dichloropropane	15u
10061-02-6	Trans-1,3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1,1,2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1,3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	26J
591-78-6	2-Hexanone	17J
127-18-4	Tetrachloroethene	15u
79-34-5	1,1,2,2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration, dilution, action. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C This flag applies to pesticide organics where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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S498

Laboratory Name Ecology & Environment Inc.

Case No V-4465

Sample Number DC-SS-22

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 11-14-86

Date Analyzed 12-3-86

Conc/Dil Factor 10

Percent Moisture (Decanted) 21

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
108-95-2	Phenol	2100	U
111-44-4	bis(-2-Chloroethyl)Ether	2100	U
95-57-8	2-Chlorophenol	2100	U
541-73-1	1,3-Dichlorobenzene	2100	U
106-46-7	1,4-Dichlorobenzene	2100	U
100-51-6	Benzyl Alcohol	2100	U
95-50-1	1,2-Dichlorobenzene	2100	U
95-48-7	2-Methylphenol	2100	U
39638-32-9	bis(2-chloroisopropyl)Ether	2100	U
106-44-5	4-Methylphenol	2100	U
621-64-7	N-Nitroso-Di-n-Propylamine	2100	U
67-72-1	Hexachloroethane	2100	U
98-95-3	Nitrobenzene	2100	U
78-59-1	Isophorone	2100	U
88-75-5	2-Nitrophenol	2100	U
105-67-9	2,4-Dimethylphenol	2100	U
65-85-0	Benzoic Acid	10000	U
111-91-1	bis(-2-Chloroethoxy)Methane	2100	U
120-83-2	2,4-Dichlorophenol	2100	U
120-82-1	1,2,4-Trichlorobenzene	2100	U
91-20-3	Naphthalene	2100	U
106-47-8	4-Chloroaniline	2100	U
87-68-3	Hexachlorobutadiene	2100	U
59-50-7	4-Chloro-3-Methylphenol	2100	U
91-57-6	2-Methylnaphthalene	2100	U
77-47-4	Hexachlorocyclopentadiene	2100	U
88-06-2	2,4,6-Trichlorophenol	2100	U
95-95-4	2,4,5-Trichlorophenol	10000	U
91-58-7	2-Chloronaphthalene	2100	U
88-74-4	2-Nitroaniline	10000	U
131-11-3	Dimethyl Phthalate	2100	U
208-96-8	Acenaphthylene	2100	U
99-09-2	3-Nitroaniline	10000	U

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	2100	U
51-28-5	2,4-Dinitrophenol	10000	U
100-02-7	4-Nitrophenol	10000	U
132-64-9	Dibenzofuran	2100	U
121-14-2	2,4-Dinitrotoluene	2100	U
606-20-2	2,6-Dinitrotoluene	2100	U
84-66-2	Diethylphthalate	2100	U
7005-72-3	4-Chlorophenyl-phenylether	2100	U
86-73-7	Fluorene	2100	U
100-01-6	4-Nitroaniline	10000	U
534-52-1	4,6-Dinitro-2-Methylphenol	10000	U
86-30-6	N-Nitrosodiphenylamine (1)	2100	U
101-55-3	4-Bromophenyl-phenylether	2100	U
118-74-1	Hexachlorobenzene	2100	U
87-86-5	Pentachlorophenol	10000	U
85-01-8	Phenanthrene	2100	U
120-12-7	Anthracene	2100	U
84-74-2	Di-n-Butylphthalate	360	BJ
206-44-0	Fluoranthene	2100	U
129-00-0	Pyrene	2100	U
85-68-7	Butylbenzylphthalate	2100	U
91-94-1	3,3'-Dichlorobenzidine	4200	U
56-55-3	Benzo(a)Anthracene	2100	U
117-81-7	bis(2-Ethylhexyl)Phthalate	2100	U
218-01-9	Chrysene	2100	U
117-84-0	Di-n-Octyl Phthalate	140	BJ
205-99-2	Benzo(b)Fluoranthene	2100	U
207-08-9	Benzo(k)Fluoranthene	2100	U
50-32-8	Benzo(a)Pyrene	2100	U
193-39-5	Indeno(1,2,3-cd)Pyrene	2100	U
53-70-3	Dibenz(a,h)Anthracene	2100	U
191-24-2	Benzo(g,h,i)Perylene	2100	U

(1)-Cannot be separated from diphenylamine

Laboratory Name ecology and environment, inc.

Case No U-4465

Sample Number DC-SS-22

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 11-14-86

Date Analyzed 11-25-86

Conc/Dil Factor 1,000

Percent Moisture (decanted) 21.2

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or (ug/Kg) (Circle One)
319-84-6	Alpha-BHC	16,000 U
319-85-7	Beta-BHC	16,000 U
319-86-8	Delta-BHC	16,000 U
58-89-9	Gamma-BHC (Lindane)	16,000 U
76-44-8	Heptachlor	16,000 U
309-00-2	Aldrin	16,000 U
1024-57-3	Heptachlor Epoxide	16,000 U
959-98-8	Endosulfan I	16,000 U
60-57-1	Dieldrin	32,000 U
72-55-9	4,4'-DDE	32,000 U
72-20-8	Endrin	32,000 U
33213-65-9	Endosulfan II	32,000 U
72-54-8	4,4'-DDD	32,000 U
1031-07-8	Endosulfan Sulfate	32,000 U
50-29-3	4,4'-DDT	32,000 U
72-43-5	Methoxychlor	160,000 U
53494-70-5	Endrin Ketone	32,000 U
57-74-9	Chlordane	160,000 U
8001-35-2	Toxaphene	320,000 U
12674-11-2	Aroclor-1016	160,000 U
11104-28-2	Aroclor-1221	160,000 U
11141-16-5	Aroclor-1232	160,000 U
53469-21-9	Aroclor-1242	160,000 U
12672-29-6	Aroclor-1248	145,000 J C
11097-69-1	Aroclor-1254	320,000 U
11096-82-5	Aroclor-1260	547,000 C

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_t 1000 V_i 4

Laboratory Name Ecology & Environment, Inc

Case No U-4465

Sample Number DC-SS-22

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min	Estimated Concentration (ug/l or ug/kg)
1.	Hexene isomer	VOA	18.0	170 J
2.	Hexene isomer	VOA	18.7	420 J
3.	Unknown Ketone	VOA	19.6	5 J
4.	Hexene isomer	VOA	19.9	54 J
5.	Unknown alcohol	VOA	23.8	31 J
6.	Unknown hydrocarbon	VOA	24.3	22 J
7.	Unknown Hydrocarbon	VOA	24.7	13 J
8.				
9	UNKNOWN AROMATIC	BNA	20.5	4000 J
10.	UNKNOWN AROMATIC		20.7	14000 J
11.	UNKNOWN AROMATIC		21.1	13000 J
12.	DIMETHYL DECYL BENZENE		21.3	14000 J
13.	UNKNOWN AROMATIC		21.4	11000 J
14	UNKNOWN AROMATIC		21.6	13000 J
15.	UNKNOWN		21.8	72000 J
16.	UNKNOWN AROMATIC		21.9	9300 J
17	DIMETHYL DECYL BENZENE		22.0	12000 J
18	UNKNOWN		23.7	4100 J
19.	UNKNOWN		26.1	11000 J
20	PCB		26.9-32.4	—
21				
22.				
23				
24.				
25.				
26				
27.				
28				
29.				
30				

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Laboratory Name ecology and environment, inc.

Case No U-4465

Sample Number DC-SS-22-RB

Organics Analysis Data Sheet
(Page 4)

Tentativuly Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min.	Estimated Concentration (ug/l or ug/kg)
1.	Hexene isomer	VOA	17.9	54
2.	Hexene isomer	VOA	18.7	130
3.	Hexene isomer	VOA	19.8	15
4	Unknown ketone	VOA	19.4	6
5	Unknown hydrocarbon	VOA	23.7	14
6.	Unknown hydrocarbon	VOA	24.2	7
7	Unknown hydrocarbon	VOA	24.7	4
8.				
9				
10.				
11.				
12.				
13.				
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Form 1, Part B

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Sample Number
DC-SS-23

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc. Case No: U-4465
Lab Sample ID No: 9770 QC Report No:
Sample Matrix: Soil Contract No: IL-3140
Data Release Authorized By: [signature] Date Sample Received: 11-13-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed: 11-19-86
Conc./Dil Factor: 3 pH 7.0
Percent Moisture: (Not Decanted) 22

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	5B B
67-64-1	Acetone	41
75-15-0	Carbon Disulfide	15u
75-35-4	1, 1-Dichloroethene	15u
75-34-3	1, 1-Dichloroethane	15u
156-60-5	Trans-1, 2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1, 2-Dichloroethane	15u
78-93-3	2-Butanone	42
71-55-6	1, 1, 1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	15u
10061-02-6	Trans-1, 3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1, 1, 2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1, 3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	30u
591-78-6	2-Hexanone	20 J
127-18-4	Tetrachloroethene	15u
79-34-5	1, 1, 2, 2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definitions of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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S503

Laboratory Name ECOLOGY & ENVIRONMENT INC.

Case No U-4465

Sample Number DC-SS-23

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 11-14-86

Date Analyzed 12-2-86

Conc./Dil Factor 2

Percent Moisture (Decanted) 22

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
108-95-2	Phenol	78	J
111-44-4	bis(2-Chloroethyl)Ether	420	U
95-57-8	2-Chlorophenol	420	U
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
100-51-6	Benzyl Alcohol	420	U
95-50-1	1,2-Dichlorobenzene	89	J
95-48-7	2-Methylphenol	420	U
39638-32-9	bis(2-chloroisopropyl)Ether	420	U
106-44-5	4-Methylphenol	420	U
621-64-7	N-Nitroso-Di-n-Propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
65-85-0	Benzoic Acid	2000	U
111-91-1	bis(2-Chloroethoxy)Methane	420	U
120-83-2	2,4-Dichlorophenol	120	J
120-82-1	1,2,4-Trichlorobenzene	180	J
91-20-3	Naphthalene	110	J
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
59-50-7	4-Chloro-3-Methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	2000	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	1000	J
131-11-3	Dimethyl Phthalate	420	U
208-96-8	Acenaphthylene	420	U
99-09-2	3-Nitroaniline	2000	U

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	70	J
51-28-5	2,4-Dinitrophenol	2000	U
100-02-7	4-Nitrophenol	2000	U
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
86-73-7	Fluorene	420	U
100-01-6	4-Nitroaniline	2000	U
534-52-1	4,6-Dinitro-2-Methylphenol	2000	U
86-30-6	N-Nitrosodiphenylamine (1)	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
87-86-5	Pentachlorophenol	12000	
85-01-8	Phenanthrene	1200	
120-12-7	Anthracene	300	J
84-74-2	Di-n-Butylphthalate	1700	B
206-44-0	Fluoranthene	2200	
129-00-0	Pyrene	850	
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	850	U
56-55-3	Benzo(a)Anthracene	960	
117-81-7	bis(2-Ethylhexyl)Phthalate	660	
218-01-9	Chrysene	1100	
117-84-0	Di-n-Octyl Phthalate	99	B J
205-99-2	Benzo(b)Fluoranthene	1800	
207-08-9	Benzo(k)Fluoranthene	420	U
50-32-8	Benzo(a)Pyrene	840	
193-39-5	Indeno(1,2,3-cd)Pyrene	1100	
53-70-3	Dibenz(a,h)Anthracene	430	
191-24-2	Benzo(g,h,i)Perylene	1200	

(1)-Cannot be separated from diphenylamine

Laboratory Name ecology and environment, inc.

Case No U-4465

Sample Number DC-SS-23

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 11-14-86

Date Analyzed 11-25-86

Conc/Dil Factor 500

Percent Moisture (decanted) 22.4

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or (ug/Kg) (Circle One)	
319-84-6	Alpha-BHC	8000 U	
319-85-7	Beta-BHC	8,000 U	
319-86-8	Delta-BHC	8,000 U	
58-89-9	Gamma-BHC (Lindane)	8,000 U	
76-44-8	Heptachlor	8,000 U	
309-00-2	Aldrin	8,000 U	
1024-57-3	Heptachlor Epoxide	8,000 U	
959-98-8	Endosulfan I	8,000 U	
60-57-1	Dieldrin	16,000 U	
72-55-9	4,4'-DDE	16,000 U	
72-20-8	Endrin	16,000 U	
33213-65-9	Endosulfan II	16,000 U	
72-54-8	4,4'-DDD	16,000 U	
1031-07-8	Endosulfan Sulfate	16,000 U	
50-29-3	4,4'-DDT	16,000 U	
72-43-5	Methoxychlor	80,000 U	
53494-70-5	Endrin Ketone	16,000 U	
57-74-9	Chlordane	80,000 U	
8001-35-2	Toxaphene	160,000 U	
12674-11-2	Aroclor-1016	80,000 U	
11104-28-2	Aroclor-1221	80,000 U	
11141-16-5	Aroclor-1232	80,000 U	
53469-21-9	Aroclor-1242	80,000 U	
12672-29-6	Aroclor-1248	110,000	C
11097-69-1	Aroclor-1254	160,000 U	
11096-82-5	Aroclor-1260	218,000	C

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_t 1,000 V_i 4

Form 1

7/85
491-095

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S505

Laboratory Name Ecology & Environment, Inc

Case No U-4465

Sample Number DC-SS-23

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min	Estimated Concentration (ug/l or ug/kg)
1.	Hexene isomer	VOA	17.4	5 BJ
2.	Unknown Ketone	VOA	19.8	8 BJ
3.	Hexane isomer	VOA	21.5	14 BJ
4.	Unknown	VOA	24.5	9 J
5.	Unknown	VOA	25.0	8 J
6.	Dichlorobenzene isomer	VOA	41.1	890 BJ *
7.				
8.	UNKNOWN	BNA	9.3	650 J
9.	UNKNOWN		20.0	4600 J
10.	UNKNOWN AROMATIC		20.5	5700 J
11.	UNKNOWN AROMATIC		20.7	8800 J
12.	UNKNOWN AROMATIC		21.1	4500 J
13.	UNKNOWN AROMATIC		21.3	13000 J
14.	UNKNOWN AROMATIC		21.4	10000 J
15.	UNKNOWN AROMATIC		21.6	12000 J
16.	UNKNOWN		21.8	1500 J
17.	UNKNOWN AROMATIC		21.9	6600 J
18.	UNKNOWN AROMATIC		22.0	10000 J
19. 10544500	MOLECULAR SULFUR		26.2	8900 J
20.	UNKNOWN AROMATIC		29.1	15000 J
21.	PCB		24.3-31.7	—
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

* note: Dichlorobenzene was observed in the accompanying blank. This sample was analyzed prior to the blank. The dichlorobenzene is present in this sample as a carryover artifact from the previously run sample, which is supported by the late retention time (should be 39 min.)

Form 1 Part B

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ecology and

S506

Sample Number
DC-SS-24

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc Case No: U-4474
Lab Sample ID No: 9790 QC Report No:
Sample Matrix: Soil Contract No: IL-3140
Data Release Authorized By: [signature] Date Sample Received: 11-14-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed: 11-27-86
Conc./Dil Factor: 3 pH 6.7
Percent Moisture. (Not Decanted) 28

CAS Number		ug/L or (ug/Kg) (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	71 B
67-64-1	Acetone	39 B
75-15-0	Carbon Disulfide	15u
75-35-4	1, 1-Dichloroethene	15u
75-34-3	1, 1-Dichloroethane	15u
156-60-5	Trans-1, 2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1, 2-Dichloroethane	15u
78-93-3	2-Butanone	30u
71-55-6	1, 1, 1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/L or (ug/Kg) (Circle One)
78-87-5	1, 2-Dichloropropane	15u
10061-02-6	Trans-1, 3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1, 1, 2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1, 3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	320
591-78-6	2-Hexanone	51 B
127-18-4	Tetrachloroethene	15u
79-34-5	1, 1, 2, 2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration, dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 µg/L and a concentration of 3 µg/L is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/µl in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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Laboratory Name ECOLOGY & ENVIRONMENT INC.

Case No U-4474

Sample Number DC-SS-24

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 11-17-86

Date Analyzed: 12-19-86

Conc/Dil Factor: 50

Percent Moisture (Decanted) 28

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
108-95-2	Phenol	11000	U
111-44-4	bis(2-Chloroethyl)Ether	11000	U
95-57-8	2-Chlorophenol	11000	U
541-73-1	1,3-Dichlorobenzene	11000	U
106-46-7	1,4-Dichlorobenzene	11000	U
100-51-6	Benzyl Alcohol	11000	U
95-50-1	1,2-Dichlorobenzene	11000	U
95-48-7	2-Methylphenol	11000	U
39638-32-9	bis(2-chloroisopropyl)Ether	11000	U
106-44-5	4-Methylphenol	11000	U
621-64-7	N-Nitroso-Di-n-Propylamine	11000	U
67-72-1	Hexachloroethane	11000	U
98-95-3	Nitrobenzene	11000	U
78-59-1	Isophorone	11000	U
88-75-5	2-Nitrophenol	11000	U
105-67-9	2,4-Dimethylphenol	11000	U
65-85-0	Benzoic Acid	56000	U
111-91-1	bis(2-Chloroethoxy)Methane	11000	U
120-83-2	2,4-Dichlorophenol	11000	U
120-82-1	1,2,4-Trichlorobenzene	11000	U
91-20-3	Naphthalene	11000	U
106-47-8	4-Chloroaniline	11000	U
87-68-3	Hexachlorobutadiene	11000	U
59-50-7	4-Chloro-3-Methylphenol	11000	U
91-57-6	2-Methylnaphthalene	11000	U
77-47-4	Hexachlorocyclopentadiene	11000	U
88-06-2	2,4,6-Trichlorophenol	11000	U
95-95-4	2,4,5-Trichlorophenol	56000	U
91-58-7	2-Chloronaphthalene	11000	U
88-74-4	2-Nitroaniline	56000	U
131-11-3	Dimethyl Phthalate	11000	U
208-96-8	Acenaphthylene	11000	U
99-09-2	3-Nitroaniline	56000	U

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	11000	U
51-28-5	2,4-Dinitrophenol	56000	U
100-02-7	4-Nitrophenol	56000	U
132-64-9	Dibenzofuran	11000	U
121-14-2	2,4-Dinitrotoluene	11000	U
606-20-2	2,6-Dinitrotoluene	11000	U
84-66-2	Diethylphthalate	11000	U
7005-72-3	4-Chlorophenyl-phenylether	11000	U
86-73-7	Fluorene	11000	U
100-01-6	4-Nitroaniline	56000	U
534-52-1	4,6-Dinitro-2-Methylphenol	56000	U
86-30-6	N-Nitrosodiphenylamine (1)	11000	U
101-55-3	4-Bromophenyl-phenylether	11000	U
118-74-1	Hexachlorobenzene	11000	U
87-86-5	Pentachlorophenol	56000	U
85-01-8	Phenanthrene	11000	U
120-12-7	Anthracene	11000	U
84-74-2	Di-n-Butylphthalate	11000	U
206-44-0	Fluoranthene	11000	U
129-00-0	Pyrene	5500	J
85-68-7	Butylbenzylphthalate	11000	U
91-94-1	3,3-Dichlorobenzidine	23000	U
56-55-3	Benzo(a)Anthracene	11000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	11000	U
218-01-9	Chrysene	11000	U
117-84-0	Di-n-Octyl Phthalate	11000	U
205-99-2	Benzo(b)Fluoranthene	11000	U
207-08-9	Benzo(k)Fluoranthene	6500	J
50-32-8	Benzo(a)Pyrene	11000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	11000	U
53-70-3	Dibenzo(a,h)Anthracene	11000	U
191-24-2	Benzo(g,h,i)Perylene	11000	U

(1)-Cannot be separated from diphenylamine

Laboratory Name ecology and environment, inc.

Case No U-4474

Sample Number DC-SS-24

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 11-17-86

Date Analyzed 12-9-86

Conc/Dil Factor 500

Percent Moisture (decanted) 27.8

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	8,000 U
319-85-7	Beta-BHC	8,000 U
319-86-8	Delta-BHC	8,000 U
58-89-9	Gamma-BHC (Lindane)	8,000 U
76-44-8	Heptachlor	8,000 U
309-00-2	Aldrin	8,000 U
1024-57-3	Heptachlor Epoxide	8,000 U
959-98-8	Endosulfan I	8,000 U
60-57-1	Dieldrin	16,000 U
72-55-9	4,4'-DDE	16,000 U
72-20-8	Endrin	16,000 U
33213-65-9	Endosulfan II	16,000 U
72-54-8	4,4'-DDD	16,000 U
1031-07-8	Endosulfan Sulfate	16,000 U
50-29-3	4,4'-DDT	16,000 U
72-43-5	Methoxychlor	80,000 U
53494-70-5	Endrin Ketone	16,000 U
57-74-9	Chlordane	80,000 U
8001-35-2	Toxaphene	160,000 U
12674-11-2	Aroclor 1016	80,000 U
11104-28-2	Aroclor 1221	80,000 U
11141-16-5	Aroclor 1232	80,000 U
53469-21-9	Aroclor 1242	80,000 U
12672-29-6	Aroclor 1248	80,000 U
11097-69-1	Aroclor 1254	160,000 U
11096-82-5	Aroclor 1260	117,000 J

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_t 1000 V_i 4

✓

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Laboratory Name Ecology & Environment Inc.

Case No U-4474

Sample Number DC-SS-24

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number MIN	Estimated Concentration (ug/l or ug/kg)	
1.		HEXENE ISOMER	VOA	18.0	440	J
2.		HEXENE ISOMER		18.8	1200	J
3.		HEXENE ISOMER		19.5	28	J
4.		HEXENE ISOMER		19.9	130	J
5.		UNKNOWN ALCOHOL		23.8	69	J
6.		HEXANE ISOMER		24.3	22	J
7.		UNKNOWN HYDROCARBON		24.8	37	J
8.						
9.		UNKNOWN AROMATIC	BNA	20.8	33000	J
10.		UNKNOWN AROMATIC		20.9	17000	J
11.		UNKNOWN AROMATIC		21.0	17000	J
12.		UNKNOWN AROMATIC		21.3	22000	J
13.		UNKNOWN		22.5	15000	J
14.		UNKNOWN		22.6	17000	J
15.		UNKNOWN HYDROCARBON		23.2	7900	J
16.		UNKNOWN		23.4	49000	J
17.		UNKNOWN HYDROCARBON		24.3	8600	J
18.		UNKNOWN		24.5	150000	J
19.		UNKNOWN HYDROCARBON		25.4	7800	J
20.		UNKNOWN		25.8	160000	J
21.	10544500	MOLECULAR SULFUR		26.0	10000	J
22.		UNKNOWN HYDROCARBON		26.6	15000	J
23.		UNKNOWN HYDROCARBON		27.2	31000	J
24.		UNKNOWN HYDROCARBON		28.4	58000	J
25.		UNKNOWN HYDROCARBON		29.3	52000	J
26.		UNKNOWN HYDROCARBON		31.3	58000	J
27.	3268879	OCTACHLORODIBENZO[B,E][1,4] DIOXIN		37.4	36000	J
28.						
29.						
30.						

Sample Number
DC-SS-25

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc
Case No: U-4474
Lab Sample ID No: 9791
QC Report No:
Sample Matrix: Soil
Contract No: EL-3140
Data Release Authorized By: [illegible]
Date Sample Received: 11-14-86

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed: 11-19-86

Conc/Dil Factor: 3 pH: 6.7

Percent Moisture (Not Decanted): 31

CAS Number		ug/L or ug/Kg (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	79 B
67-64-1	Acetone	90
75-15-0	Carbon Disulfide	15u
75-35-4	1,1-Dichloroethene	15u
75-34-3	1,1-Dichloroethane	15u
156-60-5	Trans-1,2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1,2-Dichloroethane	15u
78-93-3	2-Butanone	30u
71-55-6	1,1,1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/L or ug/Kg (Circle One)
78-87-5	1,2-Dichloropropane	15u
10061-02-6	Trans-1,3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1,1,2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1,3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	610
591-78-6	2-Hexanone	30u
127-18-4	Tetrachloroethene	15u
79-34-5	1,1,2,2-Tetrachloroethane	15u
108-88-3	Toluene	45
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the flag. (Distinguish as necessary concentration dilution factor. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum reportable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10 µg/L if the detection limit is 10 µg/L and a concentration of 3 µg/L is calculated, report as: 3J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/µL in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Form I 11/85

S511

Sample Number
DC-SS-25 RE

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc Case No: U-41474

Lab Sample ID No: 4791 RE QC Report No:

Sample Matrix: Soil Contract No: IL-3140

Data Release Authorized By: [illegible] Date Sample Received: 11-14-86

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed: 11-25-86

Conc/Dil Factor: 3 pH: 6.7

Percent Moisture (Not Decanted): 31

CAS Number		ug/Lo ug/Kg (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	76 B
67-64-1	Acetone	47 B
75-15-0	Carbon Disulfide	15u
75-35-4	1,1-Dichloroethene	15u
75-34-3	1,1-Dichloroethane	15u
156-60-5	Trans-1,2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1,2-Dichloroethane	15u
78-93-3	2-Butanone	54 B
71-55-6	1,1,1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/Lo ug/Kg (Circle One)
78-87-5	1,2-Dichloropropane	15u
10061-02-6	Trans-1,3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1,1,2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1,3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	91 B
591-78-6	2-Hexanone	18 BJ
127-18-4	Tetrachloroethene	15u
79-34-5	1,1,2,2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to CLP, the following qualifiers are used. Deviations to flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U flag. To calculate all necessary concentration dilution factors (this is not necessarily the instrument detection limit). The number should reflect the Compound was analyzed for but not detected. The number is the minimum quantitable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. For example, if a compound is estimated to have a concentration of 3 ug/L, it should be reported as 3J.

C This flag applies to pesticide/Aroclor analytes where the identification has been confirmed by GC/MS. Single-component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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Laboratory Name ECOLOGY & ENVIRONMENT INC.

Case No U-4474

Sample Number DC-SS-25

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared 11-17-86

Date Analyzed 12-19-86

Conc/Dil Factor: 50

Percent Moisture (Decanted) 31

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or (ug/Kg) (Circle One)
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
100-51-6	Benzyl Alcohol	12000 U
95-50-1	1,2-Dichlorobenzene	12000 U
95-48-7	2-Methylphenol	12000 U
39638-32-9	bis(2-chloroisopropyl)Ether	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
65-85-0	Benzoic Acid	58000 U
111-91-1	bis(2-Chloroethoxy)Methane	12000 U
120-83-2	2,4-Dichlorophenol	12000 U
120-82-1	1,2,4-Trichlorobenzene	12000 U
91-20-3	Naphthalene	12000 U
106-47-8	4-Chloroaniline	12000 U
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	58000 U
91-58-7	2-Chloronaphthalene	12000 U
88-74-4	2-Nitroaniline	58000 U
131-11-3	Dimethyl Phthalate	12000 U
208-96-8	Acenaphthylene	12000 U
99-09-2	3-Nitroaniline	58000 U

CAS Number		ug/l or (ug/Kg) (Circle One)
83-32-9	Acenaphthene	12000 U
51-28-5	2,4-Dinitrophenol	58000 U
100-02-7	4-Nitrophenol	58000 U
132-64-9	Dibenzofuran	12000 U
121-14-2	2,4-Dinitrotoluene	12000 U
606-20-2	2,6-Dinitrotoluene	12000 U
84-66-2	Diethylphthalate	12000 U
7005-72-3	4-Chlorophenyl-phenylether	12000 U
86-73-7	Fluorene	12000 U
100-01-6	4-Nitroaniline	58000 U
534-52-1	4,6-Dinitro-2-Methylphenol	58000 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	18000 J
85-01-8	Phenanthrene	12000 U
120-12-7	Anthracene	12000 U
84-74-2	Di-n-Butylphthalate	12000 U
206-44-0	Fluoranthene	6700 J
129-00-0	Pyrene	9000 J
85-68-7	Butylbenzylphthalate	12000 U
91-94-1	3,3'-Dichlorobenzidine	24000 U
56-55-3	Benzo(a)Anthracene	5100 J
117-81-7	bis(2-Ethylhexyl)Phthalate	12000 U
218-01-9	Chrysene	6400 J
117-84-0	Di-n-Octyl Phthalate	12000 U
205-99-2	Benzo(b)Fluoranthene	12000 U
207-08-9	Benzo(k)Fluoranthene	10000 J
50-32-8	Benzo(a)Pyrene	4500 J
193-39-5	Indeno(1,2,3-cd)Pyrene	12000 U
53-70-3	Dibenzo(a,h)Anthracene	12000 U
191-24-2	Benzo(g,h,i)Perylene	12000 U

(1) Cannot be separated from diphenylamine

Form I

Laboratory Name ecology and environment, inc.

Case No V-4474

Sample Number DC-SS-25

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 11-17-86

Date Analyzed 12-9-86

Conc/Dil Factor 500

Percent Moisture (decanted) 30.7

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	8,000 U
319-85-7	Beta-BHC	8,000 U
319-86-8	Delta-BHC	8,000 U
58-89-9	Gamma-BHC (Lindane)	8,000 U
76-44-8	Heptachlor	8,000 U
309-00-2	Aldrin	8,000 U
1024-57-3	Heptachlor Epoxide	8,000 U
959-98-8	Endosulfan I	8,000 U
60-57-1	Dieldrin	16,000 U
72-55-9	4,4'-DDE	16,000 U
72-20-8	Endrin	16,000 U
33213-65-9	Endosulfan II	16,000 U
72-54-8	4,4'-DDD	16,000 U
1031-07-8	Endosulfan Sulfate	16,000 U
50-29-3	4,4'-DDT	16,000 U
72-43-5	Methoxychlor	80,000 U
53494-70-5	Endrin Ketone	16,000 U
57-74-9	Chlordane	80,000 U
8001-35-2	Toxaphene	160,000 U
12674-11-2	Aroclor-1016	80,000 U
11104-28-2	Aroclor-1221	80,000 U
11141-16-5	Aroclor-1232	80,000 U
53469-21-9	Aroclor-1242	80,000 U
12672-29-6	Aroclor-1248	80,000 U
11097-69-1	Aroclor-1254	160,000 U
11096-82-5	Aroclor-1260	122,000 J

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_t 1000 V_i 4

Laboratory Name ecology and environment, inc

Case No IC-111471

Sample Number DC-SS-25

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number min.	Estimated Concentration (ug/l or ug/kg)
1.	79209	Acetic Acid, methyl ester	VOA	11.5	440 J
2.		Hexene isomer		18.3	140 J
3.		Hexene isomer		19.0	390 J
4.		Hexene isomer		20.1	36 J
5.		Unknown alcohol		24.0	120 J
6.		Unknown hydrocarbon		25.0	23 J
7.		Dichlorobenzene isomer		41.0	120 BJ *
8.					
9.		UNKNOWN AROMATIC	BNA	20.4	21000 J
10.		UNKNOWN AROMATIC		20.8	48000 J
11.		UNKNOWN AROMATIC		21.0	34000 J
12.		UNKNOWN AROMATIC		21.1	24000 J
13.		UNKNOWN AROMATIC		21.3	29000 J
14.		UNKNOWN AROMATIC		21.6	18000 J
15.		UNKNOWN		22.5	23000 J
16.		UNKNOWN		22.6	100000 J
17.		UNKNOWN HYDROCARBON		23.2	14000 J
18.		UNKNOWN		23.4	61000 J
19.		UNKNOWN HYDROCARBON		24.3	15000 J
20.		UNKNOWN		24.5	270000 J
21.		UNKNOWN		25.8	200000 J
22.	10544500	MOLECULAR SULFUR		26.0	25000 J
23.		UNKNOWN HYDROCARBON		26.6	20000 J
24.		UNKNOWN HYDROCARBON		27.2	54000 J
25.		UNKNOWN HYDROCARBON		28.4	86000 J
26.		~~UNKNOWN~~		~~30.8~~	
27.	3268879	OCTACHLORODIBENZO[B,E][1,4] DIOXIN		37.4	130,000 J
28.					
29.					
30.					

* carryover peak from previous analysis. Incorrect retention time.

Laboratory Name [illegible]

Case No 10-11171

Sample Number
DC-SS-25-RE

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	(RT) or Scan Number min.	Estimated Concentration (ug/l or ug/kg)
1.	Hexene isomer	VOA	18.0	250 J
2.	Hexene isomer		18.8	640 J
3.	Hexene isomer		19.6	16 J
4.	Hexene isomer		20.0	69 J
5.	Unknown alcohol		23.8	53 J
6.				
7.				
8.				
9.				
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27.				
28.				
29.				
30				

Sample Number
DC-SS-26

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc Case No: U-4474
Lab Sample ID No: 9792 QC Report No:
Sample Matrix: Soil Contract No: IL-3140
Data Release Authorized By: [illegible] Date Sample Received: 11-14-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed: 11-19-86
Conc/Dil Factor: 3 pH: 6.8
Percent Moisture (Not Decanted): 21

CAS Number		ug/L or ug/Kg (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	68 B
67-64-1	Acetone	14 BJ
75-15-0	Carbon Disulfide	15u
75-35-4	1,1-Dichloroethene	15u
75-34-3	1,1-Dichloroethane	15u
156-60-5	Trans-1,2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1,2-Dichloroethane	15u
78-93-3	2-Butanone	40 B
71-55-6	1,1,1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/L or ug/Kg (Circle One)
78-87-5	1,2-Dichloropropane	15u
10061-02-6	Trans-1,3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1,1,2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1,3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	30u
591-78-6	2-Hexanone	30u
127-18-4	Tetrachloroethene	12 J
79-34-5	1,1,2,2-Tetrachloroethane	15u
108-88-3	Toluene	37
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration, dilution, etc. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 ug/L and a concentration of 3 ug/L is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described, and such description attached to the data summary report.

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Laboratory Name ECOLOGY & ENVIRONMENT INC.

Case No U-4474

Sample Number DC-SS-26

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 11-17-86

Date Analyzed: 12-4-86

Conc/Dil Factor: 50

Percent Moisture (Decanted) 21

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
108-95-2	Phenol	10000	U
111-44-4	bis(2-Chloroethyl)Ether	10000	U
95-57-8	2-Chlorophenol	10000	U
541-73-1	1,3-Dichlorobenzene	10000	U
106-46-7	1,4-Dichlorobenzene	10000	U
100-51-6	Benzyl Alcohol	10000	U
95-50-1	1,2-Dichlorobenzene	10000	U
95-48-7	2-Methylphenol	10000	U
39638-32-9	bis(2-chloroisopropyl)Ether	10000	U
106-44-5	4-Methylphenol	10000	U
621-64-7	N-Nitroso-Di-n-Propylamine	10000	U
67-72-1	Hexachloroethane	10000	U
98-95-3	Nitrobenzene	10000	U
78-59-1	Isophorone	10000	U
88-75-5	2-Nitrophenol	10000	U
105-67-9	2,4-Dimethylphenol	10000	U
65-85-0	Benzoic Acid	51000	U
111-91-1	bis(2-Chloroethoxyl)Methane	10000	U
120-83-2	2,4-Dichlorophenol	10000	U
120-82-1	1,2,4-Trichlorobenzene	10000	U
91-20-3	Naphthalene	10000	U
106-47-8	4-Chloroaniline	10000	U
87-68-3	Hexachlorobutadiene	10000	U
59-50-7	4-Chloro-3-Methylphenol	10000	U
91-57-6	2-Methylnaphthalene	10000	U
77-47-4	Hexachlorocyclopentadiene	10000	U
88-06-2	2,4,6-Trichlorophenol	10000	U
95-95-4	2,4,5-Trichlorophenol	51000	U
91-58-7	2-Chloronaphthalene	10000	U
88-74-4	2-Nitroaniline	51000	U
131-11-3	Dimethyl Phthalate	10000	U
208-96-8	Acenaphthylene	10000	U
99-09-2	3-Nitroaniline	51000	U

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	10000	U
51-28-5	2,4-Dinitrophenol	51000	U
100-02-7	4-Nitrophenol	51000	U
132-64-9	Dibenzofuran	10000	U
121-14-2	2,4-Dinitrotoluene	10000	U
606-20-2	2,6-Dinitrotoluene	10000	U
84-66-2	Diethylphthalate	10000	U
7005-72-3	4-Chlorophenyl-phenylether	10000	U
86-73-7	Fluorene	10000	U
100-01-6	4-Nitroaniline	51000	U
534-52-1	4,6-Dinitro-2-Methylphenol	51000	U
86-30-6	N-Nitrosodiphenylamine (1)	10000	U
101-55-3	4-Bromophenyl-phenylether	10000	U
118-74-1	Hexachlorobenzene	10000	U
87-86-5	Pentachlorophenol	51000	U
85-01-8	Phenanthrene	10000	U
120-12-7	Anthracene	10000	U
84-74-2	Di-n-Butylphthalate	10000	U
206-44-0	Fluoranthene	4800	J
129-00-0	Pyrene	10000	U
85-68-7	Butylbenzylphthalate	10000	U
91-94-1	3,3'-Dichlorobenzidine	21000	U
56-55-3	Benzo(a)Anthracene	10000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10000	U
218-01-9	Chrysene	10000	U
117-84-0	Di-n-Octyl Phthalate	10000	U
205-99-2	Benzo(b)Fluoranthene	10000	U
207-08-9	Benzo(k)Fluoranthene	10000	U
50-32-8	Benzo(a)Pyrene	10000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10000	U
53-70-3	Dibenz(a,h)Anthracene	10000	U
191-24-2	Benzo(g,h,i)Perylene	10000	U

(1) Cannot be separated from diphenylamine

Laboratory Name ecology and environment, inc.

Case No V-4474

Sample Number DC-SS-26.

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration Low Medium (Circle One)

Date Extracted/Prepared 11-17-86

Date Analyzed 12-9-86

Conc/Dil Factor 100

Percent Moisture (decanted) 20.6

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha BHC	1600 u
319-85-7	Beta BHC	1,600 u
319-86-8	Delta BHC	1,600 u
58-89-9	Gamma BHC (Lindane)	1,600 u
76-44-8	Heptachlor	1,600 u
309-00-2	Aldrin	1,600 u
1024-57-3	Heptachlor Epoxide	1,600 u
959-98-8	Endosulfan I	1,600 u
60-57-1	Dieldrin	3,200 u
72-55-9	4,4'-DDE	3,200 u
72-20-8	Endrin	3,200 u
33213-65-9	Endosulfan II	3,200 u
72-54-8	4,4'-DDD	3,200 u
1031-07-8	Endosulfan Sulfate	3,200 u
50-29-3	4,4'-DDT	3,200 u
72-43-5	Methoxychlor	16,000 u
53494-70-5	Endrin Ketone	3,200 u
57-74-9	Chlordane	16,000 u
8001-35-2	Toxaphene	32,000 u
12674-11-2	Aroclor-1016	16,000 u
11104-28-2	Aroclor-1221	16,000 u
11141-16-5	Aroclor-1232	16,000 u
53469-21-9	Aroclor-1242	16,000 u
12672-29-6	Aroclor-1248	16,000 u
11097-69-1	Aroclor-1254	32,000 u
11096-82-5	Aroclor-1260	120,000

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_t 1000 V_i 4

Laboratory Name ecology and environment, inc.

Case No 11-44171

Sample Number DC-SS-26

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min.	Estimated Concentration (ug/l or ug/kg)
1.	Hexene isomer	VOA	17.4	3 BJ
2.	Hexane isomer		21.4	9 BJ
3.	Unknown hydrocarbon		23.2	9 J
4.	Unknown hydrocarbon		24.5	19 J
5.				
6.	UNKNOWN AROMATIC	BNA	20.0	16000 J
7.	UNKNOWN AROMATIC		20.7	20000 J
8.	UNKNOWN AROMATIC		21.0	11000 J
9.	UNKNOWN AROMATIC		21.2	34000 J
10.	UNKNOWN AROMATIC		21.4	76000 J
11.	UNKNOWN AROMATIC		21.5	12000 J
12.	UNKNOWN AROMATIC		21.6	15000 J
13.	UNKNOWN AROMATIC		21.8	190,000 J
14.	UNKNOWN AROMATIC		22.0	100,000 J
15.	UNKNOWN AROMATIC		22.1	100,000 J
16.	UNKNOWN AROMATIC		22.2	13000 J
17.	UNKNOWN AROMATIC		22.3	160000 J
18.	UNKNOWN AROMATIC		22.5	18000 J
19.	DIMETHYL DECYL BENZENE		22.7	71000 J
20.	DIMETHYL DECYL BENZENE		22.8	77000 J
21.	DIMETHYL DECYL BENZENE		22.9	27000 J
22.	UNKNOWN		29.5	4700 J
23.	UNKNOWN		29.8	5300 J
24.				
25.				
26.				
27.				
28.				
29.				
30				

Sample Number
DC-SS-27

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc Case No: U-4474
Lab Sample ID No: 9793 QC Report No:
Sample Matrix: Soil Contract No: IL-3140
Data Release Authorized By: [illegible] Date Sample Received: 11-14-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed: 11-19-86
Conc/Dil Factor: 3 pH: 7.2
Percent Moisture (Not Decanted): 22

CAS Number		ug/L or (ug/Kg) (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	636
67-64-1	Acetone	178J
75-15-0	Carbon Disulfide	15u
75-35-4	1,1-Dichloroethene	15u
75-34-3	1,1-Dichloroethane	15u
156-60-5	Trans-1,2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1,2-Dichloroethane	15u
78-93-3	2-Butanone	46B
71-55-6	1,1,1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/L or (ug/Kg) (Circle One)
78-87-5	1,2-Dichloropropane	15u
10061-02-6	Trans-1,3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1,1,2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1,3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	30u
591-78-6	2-Hexanone	30u
127-18-4	Tetrachloroethene	15u
79-34-5	1,1,2,2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U flag. (CRQL based on necessary concentration, dilution factor. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10 u, if the detection is 10 ug/L) and a concentration of 3 ug/L is reported, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Form I 11/85

S521

Sample Number
DC-SS-27-RE

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc
Case No: 11-14474
Lab Sample ID No: 9793 RE
QC Report No:
Sample Matrix: Soil
Contract No: EL-3140
Data Release Authorized By: [illegible]
Date Sample Received: 11-14-86

Volatile Compounds

Concentration: Low (circled) Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed: 11-26-86

Conc/Dil Factor: 3 pH: 7.2

Percent Moisture (Not Decanted): 22

CAS Number		ug/Lo ug/Kg (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	38 B
67-64-1	Acetone	31 B
75-15-0	Carbon Disulfide	15u
75-35-4	1,1-Dichloroethene	15u
75-34-3	1,1-Dichloroethane	15u
156-60-5	Trans-1,2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-05-2	1,2-Dichloroethane	15u
78-93-3	2-Butanone	51 B
71-55-6	1,1,1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/Lo ug/Kg (Circle One)
78-87-5	1,2-Dichloropropane	15u
10061-02-6	Trans-1,3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1,1,2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1,3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	30u
591-78-6	2-Hexanone	30u
127-18-4	Tetrachloroethene	15u
79-34-5	1,1,2,2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Conventions

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the flag. Attach a list of any necessary concentration dilution actions. (Flag is used when results are below the instrument detection limit.) The footnote should read: U Compound was analyzed for but not detected. The number is the minimum sensitivity detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10 ug/L if limit is 10 ug/L). If limit is 10 ug/L, a result of 3 ug/L is reported as 3J.

C This flag applies to pesticide/PCB analytes where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/µl on the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible common blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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Form I S522 11/86

Laboratory Name ECOLOGY & ENVIRONMENT INC.

Case No U-4474

Sample Number DC-SS-27

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared 11-17-86

Date Analyzed: 12-23-86

Conc/Dil Factor: 10

Percent Moisture (Decanted) 22

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
108-95-2	Phenol	2100	U
111-44-4	bis(-2-Chloroethyl)Ether	2100	U
95-57-8	2-Chlorophenol	2100	U
541-73-1	1,3-Dichlorobenzene	2100	U
106-46-7	1,4-Dichlorobenzene	2100	U
100-51-6	Benzyl Alcohol	2100	U
95-50-1	1,2-Dichlorobenzene	2100	U
95-48-7	2-Methylphenol	2100	U
39638-32-9	bis(2-chloroisopropyl)Ether	2100	U
106-44-5	4-Methylphenol	2100	U
621-64-7	N-Nitroso-Di-n-Propylamine	2100	U
67-72-1	Hexachloroethane	2100	U
98-95-3	Nitrobenzene	2100	U
78-59-1	Isophorone	2100	U
88-75-5	2-Nitrophenol	2100	U
105-67-9	2,4-Dimethylphenol	2100	U
65-85-0	Benzoic Acid	10000	U
111-91-1	bis(2-Chloroethoxy)Methane	2100	U
120-83-2	2,4-Dichlorophenol	2100	U
120-82-1	1,2,4-Trichlorobenzene	140	J
91-20-3	Naphthalene	2100	U
106-47-8	4-Chloroaniline	2100	U
87-68-3	Hexachlorobutadiene	2100	U
59-50-7	4-Chloro-3-Methylphenol	2100	U
91-57-6	2-Methylnaphthalene	2100	U
77-47-4	Hexachlorocyclopentadiene	2100	U
88-06-2	2,4,6-Trichlorophenol	2100	U
95-95-4	2,4,5-Trichlorophenol	10000	U
91-58-7	2-Chloronaphthalene	2100	U
88-74-4	2-Nitroaniline	10000	U
131-11-3	Dimethyl Phthalate	2100	U
208-96-8	Acenaphthylene	2100	U
99-09-2	3-Nitroaniline	10000	U

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	2100	U
51-28-5	2,4-Dinitrophenol	10000	U
100-02-7	4-Nitrophenol	10000	U
132-64-9	Dibenzofuran	2100	U
121-14-2	2,4-Dinitrotoluene	2100	U
606-20-2	2,6-Dinitrotoluene	2100	U
84-66-2	Diethylphthalate	2100	U
7005-72-3	4-Chlorophenyl-phenylether	2100	U
86-73-7	Fluorene	2100	U
100-01-6	4-Nitroaniline	10000	U
534-52-1	4,6-Dinitro-2-Methylphenol	10000	U
86-30-6	N-Nitrosodiphenylamine (1)	2100	U
101-55-3	4-Bromophenyl-phenylether	2100	U
118-74-1	Hexachlorobenzene	2100	U
87-86-5	Pentachlorophenol	10000	U
85-01-8	Phenanthrene	180	J
120-12-7	Anthracene	2100	U
84-74-2	Di-n-Butylphthalate	330	J
206-44-0	Fluoranthene	2100	U
129-00-0	Pyrene	2100	U
85-68-7	Butylbenzylphthalate	2100	U
91-94-1	3,3'-Dichlorobenzidine	4200	U
56-55-3	Benzo(a)Anthracene	2100	U
117-81-7	bis(2-Ethylhexyl)Phthalate	2100	U
218-01-9	Chrysene	270	J
117-84-0	Di-n-Octyl Phthalate	2100	U
205-99-2	Benzo(b)Fluoranthene	2100	U
207-08-9	Benzo(k)Fluoranthene	2100	U
50-32-8	Benzo(a)Pyrene	2100	U
193-39-5	Indeno(1,2,3-cd)Pyrene	2100	U
53-70-3	Dibenz(a,h)Anthracene	2100	U
191-24-2	Benzo(g,h,i)Perylene	2100	U

(1) Cannot be separated from diphenylamine

Laboratory Name: ecology and environment, inc.

Case No: U-4474

Sample Number: DC-SS-27

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 11-17-86

Date Analyzed: 12-10-86

Conc/Dil Factor: 1000

Percent Moisture (decanted): ~~11.92pk~~ 22

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or (ug/Kg) (Circle One)
319-84-6	Alpha-BHC	16,000 u
319-85-7	Beta-BHC	16,000 u
319-86-8	Delta-BHC	16,000 u
58-89-9	Gamma-BHC (Lindane)	16,000 u
76-44-8	Heptachlor	16,000 u
309-00-2	Aldrin	16,000 u
1024-57-3	Heptachlor Epoxide	16,000 u
959-98-8	Endosulfan I	16,000 u
60-57-1	Dieldrin	32,000 u
72-55-9	4,4'-DDE	32,000 u
72-20-8	Endrin	32,000 u
33213-65-9	Endosulfan II	32,000 u
72-54-8	4,4'-DDD	32,000 u
1031-07-8	Endosulfan Sulfate	32,000 u
50-29-3	4,4'-DDT	32,000 u
72-43-5	Methoxychlor	160,000 u
53494-70-5	Endrin Ketone	32,000 u
57-74-9	Chlordane	160,000 u
8001-35-2	Toxaphene	320,000 u
12674-11-2	Aroclor-1016	160,000 u
11104-28-2	Aroclor-1221	160,000 u
11141-16-5	Aroclor-1232	160,000 u
53469-21-9	Aroclor-1242	160,000 u
12672-29-6	Aroclor-1248	160,000 u
11097-69-1	Aroclor-1254	320,000 u
11096-82-5	Aroclor-1260	2,200,000 C

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_i 1,000 V_t 4 ~~2.8~~

S524

Laboratory Name [illegible]

Case No [illegible]

Sample Number
DC-SS-27-RE

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	(RT) or Scan Number min.	*Estimated Concentration (ug/l or ug/kg)
1.	No TIC's in VOA fraction			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30				

Laboratory Name ecology and environment, inc.

Case No 11-4474

Sample Number DC-SS-27

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min.	Estimated Concentration (ug/l or ug/kg)
1.	Hexane isomer	VOA	21.4	5 BJ
2.				
3.	UNKNOWN AROMATIC	BNA	20.6	1200 J
4.	UNKNOWN AROMATIC		21.4	1600 J
5.	UNKNOWN AROMATIC		21.5	990 J
6.	UNKNOWN AROMATIC		21.6	1200 J
7.	UNKNOWN AROMATIC		23.0	1700 J
8.	UNKNOWN AROMATIC		23.3	950 J
9.	UNKNOWN AROMATIC		23.5	1400 J
10.	UNKNOWN AROMATIC		23.6	1200 J
11.	UNKNOWN AROMATIC		24.2	1500 J
12.	UNKNOWN AROMATIC		24.4	2700 J
13.	UNKNOWN AROMATIC		25.6	880 J
14.	UNKNOWN		26.3	740 J
15.	PCB		28.4-31.2	—
16. 3268879	OCTACHLORODIBENZO [B,E][1,4] DIOXIN		37.2	2600 J
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30				

Laboratory Name ecology and environment, inc.

Case No U-4474

Sample Number DC-SS-28

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration Low/ Medium (Circle One)

Date Extracted/Prepared 11-19-86

Date Analyzed 12-9-86

Conc/Dil Factor 1000

Percent Moisture (decanted) 16.2

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha BHC	16,000 U
319-85-7	Beta BHC	16,000 U
319-86-8	Delta-BHC	16,000 U
58-89-9	Gamma BHC (Lindane)	16,000 U
76-44-8	Heptachlor	16,000 U
309-00-2	Aldrin	16,000 U
1024-57-3	Heptachlor Epoxide	16,000 U
959-98-8	Endosulfan I	16,000 U
60-57-1	Dieldrin	32,000 U
72-55-9	4,4'-DDE	32,000 U
72-20-8	Endrin	32,000 U
33213-65-9	Endosulfan II	32,000 U
72-54-8	4,4'-DDD	32,000 U
1031-07-8	Endosulfan Sulfate	32,000 U
50-29-3	4,4'-DDT	32,000 U
72-43-5	Methoxychlor	160,000 U
53494-70-5	Endrin Ketone	32,000 U
57-74-9	Chlordane	160,000 U
8001-35-2	Toxaphene	320,000 U
12674-11-2	Aroclor-1016	160,000 U
11104-28-2	Aroclor-1221	160,000 U
11141-16-5	Aroclor-1232	160,000 U
53469-21-9	Aroclor-1242	160,000 U
12672-29-6	Aroclor-1248	160,000 U
11097-69-1	Aroclor-1254	246,000 J
11096-82-5	Aroclor-1260	625,000

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_t 1,000 V_i 4

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Form 1

Laboratory Name _____

Case No 11-11174

Sample Number
DC-SS-28

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min.	Estimated Concentration (ug/l or ug/kg)
1.	Hexene isomer	VOA	17.1	5 J
2.	Hexene isomer		[illegible]	[illegible]
3.	Unknown hydrocarbon		[illegible]	[illegible]
4.	Unknown hydrocarbon		[illegible]	[illegible]
5.	Unknown hydrocarbon		[illegible]	17
6.				
7.	UNKNOWN AROMATIC	BNA	21.3	58000 J
8.	UNKNOWN AROMATIC		21.8	110000 J
9.	UNKNOWN AROMATIC		21.9	39000 J
10.	UNKNOWN AROMATIC		22.0	56000 J
11.	UNKNOWN AROMATIC		22.1	83000 J
12.	UNKNOWN AROMATIC		22.3	160000 J
13.	UNKNOWN AROMATIC		22.5	43000 J
14.	UNKNOWN AROMATIC		22.6	120000 J
15.	PENTAMETHYLHEPTYL BENZENE		22.7	76000 J
16.	DIMETHYL DECYL BENZENE		22.9	48000 J
17.	UNKNOWN AROMATIC		23.0	23000 J
18.	UNKNOWN ~~HYDROCARBON~~ AROMATIC		23.1	32000 J
19.	UNKNOWN AROMATIC		23.3	32000 J
20.	UNKNOWN AROMATIC		23.4	36000 J
21.	UNKNOWN AROMATIC		23.8	58000 J
22.	UNKNOWN AROMATIC		24.1	29000 J
23.	UNKNOWN AROMATIC		24.2	50000 J
24.	UNKNOWN AROMATIC		24.3	58000 J
25.	UNKNOWN AROMATIC		24.4	36000 J
26.	UNKNOWN AROMATIC		25.3	45000 J
27. 3268879	OCTACHLORODIBENZO[B,E][1,4]DIOXIN		39.4	52000 J
28.				
29.				
30.				

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Sample Number
DC-SS-29

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc
Case No: U-4474
Lab Sample ID No: 9795
QC Report No:
Sample Matrix: Soil
Contract No: IL-3140
Data Release Authorized By: [signature]
Date Sample Received: 11-14-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed: 11-20-86

Conc/Dil Factor: 3 pH 5.3

Percent Moisture. (Not Decanted) 43

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	80 B
67-64-1	Acetone	37 B
75-15-0	Carbon Disulfide	15u
75-35-4	1,1-Dichloroethene	15u
75-34-3	1,1-Dichloroethane	15u
156-60-5	Trans-1,2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1,2-Dichloroethane	15u
78-93-3	2-Butanone	56 B
71-55-6	1,1,1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or (ug/Kg) (Circle One)
78-87-5	1,2-Dichloropropane	15u
10061-02-6	Trans-1,3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1,1,2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1,3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	30u
591-78-6	2-Hexanone	30u
127-18-4	Tetrachloroethene	15u
79-34-5	1,1,2,2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration, dilution, etc. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum sample-specific detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10 J). If, for example, the detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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Form I 11/85

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S529

Laboratory Name ECOLOGY & ENVIRONMENT INC.

Case No U-4474

Sample Number DC-SS-29

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 11-17-86

Date Analyzed 12-19-86

Conc/Dil Factor: 50

Percent Moisture (Decanted) 44

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
108-95-2	Phenol	15000	U
111-44-4	bis(2-Chloroethyl)Ether	15000	U
95-57-8	2-Chlorophenol	15000	U
541-73-1	1,3-Dichlorobenzene	15000	U
106-46-7	1,4-Dichlorobenzene	15000	U
100-51-6	Benzyl Alcohol	15000	U
95-50-1	1,2-Dichlorobenzene	15000	U
95-48-7	2-Methylphenol	15000	U
39638-32-9	bis(2-chloroisopropyl)Ether	15000	U
106-44-5	4-Methylphenol	15000	U
621-64-7	N-Nitroso-Di-n-Propylamine	15000	U
67-72-1	Hexachloroethane	15000	U
98-95-3	Nitrobenzene	15000	U
78-59-1	Isophorone	15000	U
88-75-5	2-Nitrophenol	15000	U
105-67-9	2,4-Dimethylphenol	15000	U
65-85-0	Benzoic Acid	71000	U
111-91-1	bis(2-Chloroethoxy)Methane	15000	U
120-83-2	2,4-Dichlorophenol	15000	U
120-82-1	1,2,4-Trichlorobenzene	15000	U
91-20-3	Naphthalene	15000	U
106-47-8	4-Chloroaniline	15000	U
87-68-3	Hexachlorobutadiene	15000	U
59-50-7	4-Chloro-3-Methylphenol	15000	U
91-57-6	2-Methylnaphthalene	15000	U
77-47-4	Hexachlorocyclopentadiene	15000	U
88-06-2	2,4,6-Trichlorophenol	15000	U
95-95-4	2,4,5-Trichlorophenol	71000	U
91-58-7	2-Chloronaphthalene	15000	U
88-74-4	2-Nitroaniline	71000	U
131-11-3	Dimethyl Phthalate	15000	U
208-96-8	Acenaphthylene	15000	U
99-09-2	3-Nitroaniline	71000	U

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	15000	U
51-28-5	2,4-Dinitrophenol	71000	U
100-02-7	4-Nitrophenol	71000	U
132-64-9	Dibenzofuran	15000	U
121-14-2	2,4-Dinitrotoluene	15000	U
606-20-2	2,6-Dinitrotoluene	15000	U
84-66-2	Diethylphthalate	15000	U
7005-72-3	4-Chlorophenyl-phenylether	15000	U
86-73-7	Fluorene	15000	U
100-01-6	4-Nitroaniline	71000	U
534-52-1	4,6-Dinitro-2-Methylphenol	71000	U
86-30-6	N-Nitrosodiphenylamine (1)	15000	U
101-55-3	4-Bromophenyl-phenylether	15000	U
118-74-1	Hexachlorobenzene	15000	U
87-86-5	Pentachlorophenol	71000	U
85-01-8	Phenanthrene	15000	U
120-12-7	Anthracene	15000	U
84-74-2	Di-n-Butylphthalate	15000	U
206-44-0	Fluoranthene	15000	U
129-00-0	Pyrene	15000	U
85-68-7	Butylbenzylphthalate	15000	U
91-94-1	3,3'-Dichlorobenzidine	29000	U
56-55-3	Benzo(a)Anthracene	15000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	2900	J
218-01-9	Chrysene	15000	U
117-84-0	Di-n-Octyl Phthalate	15000	U
205-99-2	Benzo(b)Fluoranthene	15000	U
207-08-9	Benzo(k)Fluoranthene	15000	U
50-32-8	Benzo(a)Pyrene	15000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	15000	U
53-70-3	Dibenz(a,h)Anthracene	15000	U
191-24-2	Benzo(g,h,i)Perylene	15000	U

(1)-Cannot be separated from diphenylamine

Laboratory Name ecology and environment, inc.

Case No U-4474

Sample Number DC-SS-29

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 11-17-86

Date Analyzed 12-10-86

Conc/Dil Factor 50

Percent Moisture (decanted) 43.5

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	800 u
319-85-7	Beta-BHC	800 u
319-86-8	Delta-BHC	800 u
58-89-9	Gamma-BHC (Lindane)	800 u
76-44-8	Heptachlor	800 u
309-00-2	Aldrin	800 u
1024-57-3	Heptachlor Epoxide	800 u
959-98-8	Endosulfan I	800 u
60-57-1	Dieldrin	1600 u
72-55-9	4 4 -DDE	1600 u
72-20-8	Endrin	1600 u
33213-65-9	Endosulfan II	1600 u
72-54-8	4 4 -DDD	1600 u
1031-07-8	Endosulfan Sulfate	1600 u
50-29-3	4 4 -DDT	1600 u
72-43-5	Methoxychlor	8000 u
53494-70-5	Endrin Ketone	1600 u
57-74-9	Chlordane	8000 u
8001-35-2	Toxaphene	16,000 u
12674-11-2	Aroclor-1016	8000 u
11104-28-2	Aroclor-1221	8000 u
11141-16-5	Aroclor-1232	8000 u
53469-21-9	Aroclor-1242	8000 u
12672-29-6	Aroclor-1248	21,000
11097-69-1	Aroclor-1254	16,000 u
11096-82-5	Aroclor-1260	23,000

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_t 1000 V_i 4

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Form 1

7 85
491085

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S531

Laboratory Name [illegible] and environment, inc.

Case No [illegible]

Sample Number
DC-SS-29

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min.	Estimated Concentration (ug/l or ug/kg)
1.	Hexane isomer	VCH	17.4	[illegible] J
2.	Hexane isomer	VCH	21.4	[illegible] J
3.	[illegible]	VCH	19.[illegible]	16[illegible] J
4				
5	UNKNOWN AROMATIC	BNA	19.9	120000 J
6	UNKNOWN AROMATIC		20.4	200,000 J
7	UNKNOWN AROMATIC		20.6	120000 J
8	UNKNOWN AROMATIC		20.8	470000 J
9	UNKNOWN AROMATIC		20.9	260000 J
10	UNKNOWN AROMATIC		21.0	380000 J
11	UNKNOWN AROMATIC		21.1	400000 J
12	UNKNOWN AROMATIC		21.4	600000 J
13	UNKNOWN AROMATIC		21.5	190000 J
14	UNKNOWN AROMATIC		21.7	490000 J
15	UNKNOWN AROMATIC		21.8	280000 J
16	DIMETHYL DECYL BENZENE		21.9	220000 J
17	UNKNOWN AROMATIC		22.0	83000 J
18	UNKNOWN AROMATIC		22.2	140000 J
19	UNKNOWN AROMATIC		22.3	99000 J
20	UNKNOWN AROMATIC		22.8	120000 J
21	UNKNOWN AROMATIC		23.0	77000 J
22	UNKNOWN AROMATIC		23.2	75000 J
23	UNKNOWN AROMATIC		24.1	63000 J
24	UNKNOWN AROMATIC		24.3	65000 J
25				
26				
27				
28				
29				
30				

Form 1, Part B

7/85
491295

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Sample Number
DC-SS-28

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc
Case No: U-4474
Lab Sample ID No: 9794
QC Report No:
Sample Matrix: Soil
Contract No: IL-3140
Data Release Authorized By: [signature]
Date Sample Received: 11-14-86

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed: 11-19-86
Conc./Dil Factor: 3 pH: 7.4
Percent Moisture (Not Decanted): 16

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	63 B
67-64-1	Acetone	13 BJ
75-15-0	Carbon Disulfide	15u
75-35-4	1,1-Dichloroethene	15u
75-34-3	1,1-Dichloroethane	15u
156-60-5	Trans-1,2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1,2-Dichloroethane	15u
78-93-3	2-Butanone	36 B
71-55-6	1,1,1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1,2-Dichloropropane	15u
10061-02-6	Trans-1,3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1,1,2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1,3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	30u
591-78-6	2-Hexanone	30u
127-18-4	Tetrachloroethene	15u
79-34-5	1,1,2,2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration, dilution, etc. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum detection limit for this sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is detected, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single-component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and submitted with the data summary report.

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Form I 11/85

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S533

Case No U-4474

Sample Number DC-SS-28

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 11-17-86

Date Analyzed 12-4-86

Conc/Dil Factor 50

Percent Moisture (Decanted) 16

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
108-95-2	Phenol	9800	U
111-44-4	bis(2-Chloroethyl)Ether	9800	U
95-57-8	2-Chlorophenol	9800	U
541-73-1	1,3-Dichlorobenzene	9800	U
106-46-7	1,4-Dichlorobenzene	9800	U
100-51-6	Benzyl Alcohol	9800	U
95-50-1	1,2-Dichlorobenzene	9800	U
95-48-7	2-Methylphenol	9800	U
39638-32-9	bis(2-chloroisopropyl)Ether	9800	U
106-44-5	4-Methylphenol	9800	U
621-64-7	N-Nitroso-Di-n-Propylamine	9800	U
67-72-1	Hexachloroethane	9800	U
98-95-3	Nitrobenzene	9800	U
78-59-1	Isophorone	9800	U
88-75-5	2-Nitrophenol	9800	U
105-67-9	2,4-Dimethylphenol	9800	U
65-85-0	Benzoic Acid	48000	U
111-91-1	bis(2-Chloroethoxy)Methane	9800	U
120-83-2	2,4-Dichlorophenol	9800	U
120-82-1	1,2,4-Trichlorobenzene	1800	J
91-20-3	Naphthalene	9800	U
106-47-8	4-Chloroaniline	9800	U
87-68-3	Hexachlorobutadiene	9800	U
59-50-7	4-Chloro-3-Methylphenol	9800	U
91-57-6	2-Methylnaphthalene	9800	U
77-47-4	Hexachlorocyclopentadiene	9800	U
88-06-2	2,4,6-Trichlorophenol	9800	U
95-95-4	2,4,5-Trichlorophenol	48000	U
91-58-7	2-Chloronaphthalene	9800	U
88-74-4	2-Nitroaniline	34000	J
131-11-3	Dimethyl Phthalate	9800	U
208-96-8	Acenaphthylene	9800	U
99-09-2	3-Nitroaniline	48000	U

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	9800	U
51-28-5	2,4-Dinitrophenol	48000	U
100-02-7	4-Nitrophenol	48000	U
132-64-9	Dibenzofuran	9800	U
121-14-2	2,4-Dinitrotoluene	9800	U
606-20-2	2,6-Dinitrotoluene	9800	U
84-66-2	Diethylphthalate	9800	U
7005-72-3	4-Chlorophenyl-phenylether	9800	U
86-73-7	Fluorene	9800	U
100-01-6	4-Nitroaniline	48000	U
534-52-1	4,6-Dinitro-2-Methylphenol	48000	U
86-30-6	N-Nitrosodiphenylamine (1)	9800	U
101-55-3	4-Bromophenyl-phenylether	9800	U
118-74-1	Hexachlorobenzene	9800	U
87-86-5	Pentachlorophenol	23000	J
85-01-8	Phenanthrene	9800	U
120-12-7	Anthracene	9800	U
84-74-2	Di-n-Butylphthalate	9800	U
206-44-0	Fluoranthene	9800	U
129-00-0	Pyrene	9800	U
85-68-7	Butylbenzylphthalate	9800	U
91-94-1	3,3'-Dichlorobenzidine	20000	U
56-55-3	Benzo(a)Anthracene	9800	U
117-81-7	bis(2-Ethylhexyl)Phthalate	9800	U
218-01-9	Chrysene	9800	U
117-84-0	Di-n-Octyl Phthalate	9800	U
205-99-2	Benzo(b)Fluoranthene	9800	U
207-08-9	Benzo(k)Fluoranthene	9800	U
50-32-8	Benzo(a)Pyrene	9800	U
193-39-5	Indeno(1,2,3-cd)Pyrene	9800	U
53-70-3	Dibenz(a,h)Anthracene	9800	U
191-24-2	Benzo(g,h,i)Perylene	9800	U

(1)-Cannot be separated from diphenylamine

Laboratory Name ECOLOGY & ENVIRONMENT INC.

Case No U-4474

Sample Number DC-SS-28

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 11-17-86

Date Analyzed 12-4-86

Conc/Dil Factor 50

Percent Moisture (Decanted) 16

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
108-95-2	Phenol	9800	U
111-44-4	bis(2-Chloroethyl)Ether	9800	U
95-57-8	2-Chlorophenol	9800	U
541-73-1	1,3-Dichlorobenzene	9800	U
106-46-7	1,4-Dichlorobenzene	9800	U
100-51-6	Benzyl Alcohol	9800	U
95-50-1	1,2-Dichlorobenzene	9800	U
95-48-7	2-Methylphenol	9800	U
39638-32-9	bis(2-chloroisopropyl)Ether	9800	U
106-44-5	4-Methylphenol	9800	U
621-64-7	N-Nitroso-Di-n-Propylamine	9800	U
67-72-1	Hexachloroethane	9800	U
98-95-3	Nitrobenzene	9800	U
78-59-1	Isophorone	9800	U
88-75-5	2-Nitrophenol	9800	U
105-67-9	2,4-Dimethylphenol	9800	U
65-85-0	Benzoic Acid	48000	U
111-91-1	bis(2-Chloroethoxy)Methane	9800	U
120-83-2	2,4-Dichlorophenol	9800	U
120-82-1	1,2,4-Trichlorobenzene	1800	J
91-20-3	Naphthalene	9800	U
106-47-8	4-Chloroaniline	9800	U
87-68-3	Hexachlorobutadiene	9800	U
59-50-7	4-Chloro-3-Methylphenol	9800	U
91-57-6	2-Methylnaphthalene	9800	U
77-47-4	Hexachlorocyclopentadiene	9800	U
88-06-2	2,4,6-Trichlorophenol	9800	U
95-95-4	2,4,5-Trichlorophenol	48000	U
91-58-7	2-Chloronaphthalene	9800	U
88-74-4	2-Nitroaniline	36000	J
131-11-3	Dimethyl Phthalate	9800	U
208-96-8	Acenaphthylene	9800	U
99-09-2	3-Nitroaniline	48000	U

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	9800	U
51-28-5	2,4-Dinitrophenol	48000	U
100-02-7	4-Nitrophenol	48000	U
132-64-9	Dibenzofuran	9800	U
121-14-2	2,4-Dinitrotoluene	9800	U
606-20-2	2,6-Dinitrotoluene	9800	U
84-66-2	Diethylphthalate	9800	U
7005-72-3	4-Chlorophenyl-phenylether	9800	U
86-73-7	Fluorene	9800	U
100-01-6	4-Nitroaniline	48000	U
534-52-1	4,6-Dinitro-2-Methylphenol	48000	U
86-30-6	N-Nitrosodiphenylamine(1)	9800	U
101-55-3	4-Bromophenyl-phenylether	9800	U
118-74-1	Hexachlorobenzene	9800	U
87-86-5	Pentachlorophenol	28000	J
85-01-8	Phenanthrene	9800	U
120-12-7	Anthracene	9800	U
84-74-2	Di-n-Butylphthalate	9800	U
206-44-0	Fluoranthene	9800	U
129-00-0	Pyrene	9800	U
85-68-7	Butylbenzylphthalate	9800	U
91-94-1	3,3'-Dichlorobenzidine	20000	U
56-55-3	Benzo(a)Anthracene	9800	U
117-81-7	bis(2-Ethylhexyl)Phthalate	9800	U
218-01-9	Chrysene	9800	U
117-84-0	Di-n-Octyl Phthalate	9800	U
205-99-2	Benzo(b)Fluoranthene	9800	U
207-08-9	Benzo(k)Fluoranthene	9800	U
50-32-8	Benzo(a)Pyrene	9800	U
193-39-5	Indeno(1,2,3-cd)Pyrene	9800	U
53-70-3	Dibenz(a,h)Anthracene	9800	U
191-24-2	Benzo(g,h,i)Perylene	9800	U

(1)-Cannot be separated from diphenylamine

Sample Number
DC-SS-30

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc Case No: U-4474
Lab Sample ID No: 9796 QC Report No:
Sample Matrix: Soil Contract No: IL-3140
Data Release Authorized By: [signature] Date Sample Received: 11-14-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed: 11-25-86
Conc./Dil Factor: 3 pH 6.7
Percent Moisture: (Not Decanted) 31

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	62 B
67-64-1	Acetone	16 BJ
75-15-0	Carbon Disulfide	15u
75-35-4	1,1-Dichloroethene	15u
75-34-3	1,1-Dichloroethane	15u
156-60-5	Trans-1,2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1,2-Dichloroethane	15u
78-93-3	2-Butanone	30u
71-55-6	1,1,1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1,2-Dichloropropane	15u
10061-02-6	Trans-1,3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1,1,2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1,3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	47
591-78-6	2-Hexanone	30u
127-18-4	Tetrachloroethene	15u
79-34-5	1,1,2,2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value — If the result is a value greater than or equal to the detection limit, report the value.

U — Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration, dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum sensitive detection limit for the sample.

J — Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C — This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B — This flag is used when the analyte is found in the blank as well as a sample. It indicates possible probable blank contamination and warns the data user to take appropriate action.

Other — Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such flags must be attached to the data summary report.

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Laboratory Name ECOLOGY & ENVIRONMENT INC.

Case No U-4474

Sample Number DC-SS-30

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared 11-17-86

Date Analyzed 12-19-86

Conc/Dil Factor 100

Percent Moisture (Decanted) 31

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or (ug/Kg) (Circle One)	
108-95-2	Phenol	24000	U
111-44-4	bis(2-Chloroethyl)Ether	24000	U
95-57-8	2-Chlorophenol	24000	U
541-73-1	1,3-Dichlorobenzene	24000	U
106-46-7	1,4-Dichlorobenzene	24000	U
100-51-6	Benzyl Alcohol	24000	U
95-50-1	1,2-Dichlorobenzene	24000	U
95-48-7	2-Methylphenol	24000	U
39638-32-9	bis(2-chloroisopropyl)Ether	24000	U
106-44-5	4-Methylphenol	24000	U
621-64-7	N-Nitroso-Di-n-Propylamine	24000	U
67-72-1	Hexachloroethane	24000	U
98-95-3	Nitrobenzene	24000	U
78-59-1	Isophorone	24000	U
88-75-5	2-Nitrophenol	24000	U
105-67-9	2,4-Dimethylphenol	24000	U
65-85-0	Benzoic Acid	120000	U
111-91-1	bis(2-Chloroethoxy)Methane	24000	U
120-83-2	2,4-Dichlorophenol	24000	U
120-82-1	1,2,4-Trichlorobenzene	24000	U
91-20-3	Naphthalene	24000	U
106-47-8	4-Chloroaniline	24000	U
87-68-3	Hexachlorobutadiene	24000	U
59-50-7	4-Chloro-3-Methylphenol	24000	U
91-57-6	2-Methylnaphthalene	24000	U
77-47-4	Hexachlorocyclopentadiene	24000	U
88-06-2	2,4,6-Trichlorophenol	24000	U
95-95-4	2,4,5-Trichlorophenol	120000	U
91-58-7	2-Chloronaphthalene	24000	U
88-74-4	2-Nitroaniline	120000	U
131-11-3	Dimethyl Phthalate	24000	U
208-96-8	Acenaphthylene	24000	U
99-09-2	3-Nitroaniline	120000	U

CAS Number		ug/l or (ug/Kg) (Circle One)	
83-32-9	Acenaphthene	24000	U
51-28-5	2,4-Dinitrophenol	120000	U
100-02-7	4-Nitrophenol	120000	U
132-64-9	Dibenzofuran	24000	U
121-14-2	2,4-Dinitrotoluene	24000	U
606-20-2	2,6-Dinitrotoluene	24000	U
84-66-2	Diethylphthalate	24000	U
7005-72-3	4-Chlorophenyl-phenylether	24000	U
86-73-7	Fluorene	24000	U
100-01-6	4-Nitroaniline	120000	U
534-52-1	4,6-Dinitro-2-Methylphenol	120000	U
86-30-6	N-Nitrosodiphenylamine (1)	24000	U
101-55-3	4-Bromophenyl-phenylether	24000	U
118-74-1	Hexachlorobenzene	24000	U
87-86-5	Pentachlorophenol	120000	U
85-01-8	Phenanthrene	24000	U
120-12-7	Anthracene	24000	U
84-74-2	Di-n-Butylphthalate	24000	U
206-44-0	Fluoranthene	24000	U
129-00-0	Pyrene	24000	U
85-68-7	Butylbenzylphthalate	24000	U
91-94-1	3,3'-Dichlorobenzidine	48000	U
56-55-3	Benzo(a)Anthracene	24000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	24000	U
218-01-9	Chrysene	24000	U
117-84-0	Di-n-Octyl Phthalate	24000	U
205-99-2	Benzo(b)Fluoranthene	24000	U
207-08-9	Benzo(k)Fluoranthene	24000	U
50-32-8	Benzo(a)Pyrene	24000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	24000	U
53-70-3	Dibenz(a,h)Anthracene	24000	U
191-24-2	Benzo(g,h,i)Perylene	24000	U

(1)-Cannot be separated from diphenylamine

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S537

Laboratory Name ecology and environment, inc.

Case No V-4474

Sample Number DC-SS-30

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 11-17-86

Date Analyzed 12-9-86

Conc/Dil Factor 100

Percent Moisture (decanted) 30.7

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	1600 u
319-85-7	Beta-BHC	1,600 u
319-86-8	Delta-BHC	1,600 u
58-89-9	Gamma-BHC (Lindane)	1,600 u
76-44-8	Heptachlor	1,600 u
309-00-2	Aldrin	1,600 u
1024-57-3	Heptachlor Epoxide	1,600 u
959-98-8	Endosulfan I	1,600 u
60-57-1	Dieldrin	3,200 u
72-55-9	4,4'-DDE	3,200 u
72-20-8	Endrin	3,200 u
33213-65-9	Endosulfan II	3,200 u
72-54-8	4,4'-DDD	3,200 u
1031-07-8	Endosulfan Sulfate	3,200 u
50-29-3	4,4'-DDT	3,200 u
72-43-5	Methoxychlor	16,000 u
53494-70-5	Endrin Ketone	3,200 u
57-74-9	Chlordane	16,000 u
8001-35-2	Toxaphene	32,000 u
12674-11-2	Aroclor-1016	16,000 u
11104-28-2	Aroclor-1221	16,000 u
11141-16-5	Aroclor-1232	16,000 u
53469-21-9	Aroclor-1242	16,000 u
12672-29-6	Aroclor-1248	30,300
11097-69-1	Aroclor-1254	32,000 u
11096-82-5	Aroclor-1260	35,600

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_t 1000 V_i 4 ~~1.03~~

Laboratory Name ECOLOGY & ENVIRONMENT INC.

Case No V-4474

Sample Number DC-SS-30

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number MIN	Estimated Concentration (ug/l or ug/kg)
1. 79209	ACETIC ACID, METHYL ESTER	VOA	11.3	150 J
2.	UNKNOWN KETONE		18.1	10 J
3.	HEXENE ISOMER		18.8	29 J
4.	HEXANE ISOMER		21.2	9 BJ
5.				
6.	UNKNOWN	BNA	23.4	250000 J
7.	UNKNOWN		24.5	290000 J
8.	UNKNOWN		25.4	16000 J
9.	UNKNOWN		25.8	220000 J
10.	UNKNOWN HYDROCARBON		26.9	43000 J
11.	UNKNOWN HYDROCARBON		28.2	16000 J
12.	UNKNOWN HYDROCARBON		28.4	65000 J
13.	UNKNOWN HYDROCARBON		29.3	52000 J
14.	UNKNOWN HYDROCARBON		29.6	30000 J
15.	UNKNOWN HYDROCARBON		30.0	18000 J
16.	UNKNOWN		30.1	18000 J
17.	UNKNOWN HYDROCARBON		30.2	19000 J
18.	UNKNOWN HYDROCARBON		30.6	27000 J
19.	UNKNOWN HYDROCARBON		31.3	44000 J
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Sample Number
DC-SS-31

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc
Case No: U-4474
Lab Sample ID No: 9797
QC Report No:
Sample Matrix: Soil
Contract No: IL-3140
Data Release Authorized By: [illegible]
Date Sample Received: 11-14-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed: 11-20-86
Conc/Dil Factor: 3 pH 6.3
Percent Moisture (Not Decanted): 36

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	71B
67-64-1	Acetone	21B
75-15-0	Carbon Disulfide	15u
75-35-4	1,1-Dichloroethene	15u
75-34-3	1,1-Dichloroethane	15u
156-60-5	Trans-1,2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1,2-Dichloroethane	15u
78-93-3	2-Butanone	30u
71-55-6	1,1,1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1,2-Dichloropropane	15u
10061-02-6	Trans-1,3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1,1,2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1,3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	79
591-78-6	2-Hexanone	30u
127-18-4	Tetrachloroethene	15u
79-34-5	1,1,2,2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U. 10U (based on necessary concentration, dilution, etc.). (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum sample specific detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria, but the result is less than the specified detection limit but greater than zero (e.g., 10J). If blank detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be added to explain results. If used, they must be fully described and such description attached to the data summary report.

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S540

Sample Number
DC-SS-31 RE

Organics Analysis Data Sheet
(Page 1)

Laboratory Name Ecology & Environment, Inc Case No. U-4474
Lab Sample ID No 9797 QC Report No
Sample Matrix Soil Contract No EL-3140
Data Release Authorized By [illegible] Date Sample Received 11-14-86

Volatile Compounds

Concentration Low Medium (Circle One)
Date Extracted/Prepared
Date Analyzed 11-27-86
Conc/Dil Factor 3 pH 6.3
Percent Moisture (Not Decanted) 36

CAS Number		ug/L or ug/Kg (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	90B
67-64-1	Acetone	36B
75-15-0	Carbon Disulfide	15u
75-35-4	1,1-Dichloroethene	15u
75-34-3	1,1-Dichloroethane	15u
156-60-5	Trans-1,2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1,2-Dichloroethane	15u
78-93-3	2-Butanone	30u
71-55-6	1,1,1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/L or ug/Kg (Circle One)
78-87-5	1,2-Dichloropropane	15u
10061-02-6	Trans-1,3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1,1,2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1,3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	190
591-78-6	2-Hexanone	1.6
127-18-4	Tetrachloroethene	21
79-34-5	1,1,2,2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U flag. (Is based on necessary concentration, dilution action. (This is not necessarily the instrument detection limit.) The formula should read: U Compound was analyzed for but not detected. Enter here is the minimum significant detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10B, if the limit of detection is 10, J and a concentration of 3 are reported, report as 3J).

C Positive results for pesticide/PCB analyses where the identification has been confirmed by GC/MS. Sample confirmation precludes 2:1 rule, given the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as sample. It indicates possible probable blank contamination and warns the data user to take additional action.

Other Enter here for flags and comments as to the reported specific qualitative interpretations. If used, the meaning of the flags does not indicate data to be used in the statistical report.

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Form I

resized paper

S541

Laboratory Name ECOLOGY & ENVIRONMENT INC.

Case No U-4474

Sample Number DC-SS-31

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 11-17-86

Date Analyzed 12-4-86

Conc/Dil Factor 50

Percent Moisture (Decanted) 36

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
108-95-2	Phenol	13000	U
111-44-4	bis(2-Chloroethyl)Ether	13000	U
95-57-8	2-Chlorophenol	13000	U
541-73-1	1,3-Dichlorobenzene	13000	U
106-46-7	1,4-Dichlorobenzene	13000	U
100-51-6	Benzyl Alcohol	13000	U
95-50-1	1,2-Dichlorobenzene	13000	U
95-48-7	2-Methylphenol	13000	U
39638-32-9	bis(2-chloroisopropyl)Ether	13000	U
106-44-5	4-Methylphenol	13000	U
621-64-7	N-Nitroso-Di-n-Propylamine	13000	U
67-72-1	Hexachloroethane	13000	U
98-95-3	Nitrobenzene	13000	U
78-59-1	Isophorone	13000	U
88-75-5	2-Nitrophenol	13000	U
105-67-9	2,4-Dimethylphenol	13000	U
65-85-0	Benzoic Acid	62000	U
111-91-1	bis(2-Chloroethoxy)Methane	13000	U
120-83-2	2,4-Dichlorophenol	13000	U
120-82-1	1,2,4-Trichlorobenzene	13000	U
91-20-3	Naphthalene	13000	U
106-47-8	4-Chloroaniline	13000	U
87-68-3	Hexachlorobutadiene	13000	U
59-50-7	4-Chloro-3-Methylphenol	13000	U
91-57-6	2-Methylnaphthalene	13000	U
77-47-4	Hexachlorocyclopentadiene	13000	U
88-06-2	2,4,6-Trichlorophenol	13000	U
95-95-4	2,4,5-Trichlorophenol	62000	U
91-58-7	2-Chloronaphthalene	13000	U
88-74-4	2-Nitroaniline	62000	U
131-11-3	Dimethyl Phthalate	13000	U
208-96-8	Acenaphthylene	13000	U
99-09-2	3-Nitroaniline	62000	U

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	13000	U
51-28-5	2,4-Dinitrophenol	62000	U
100-02-7	4-Nitrophenol	62000	U
132-64-9	Dibenzofuran	13000	U
121-14-2	2,4-Dinitrotoluene	13000	U
606-20-2	2,6-Dinitrotoluene	13000	U
84-66-2	Diethylphthalate	13000	U
7005-72-3	4-Chlorophenyl-phenylether	13000	U
86-73-7	Fluorene	13000	U
100-01-6	4-Nitroaniline	62000	U
534-52-1	4,6-Dinitro-2-Methylphenol	62000	U
86-30-6	N-Nitrosodiphenylamine (1)	13000	U
101-55-3	4-Bromophenyl-phenylether	13000	U
118-74-1	Hexachlorobenzene	13000	U
87-86-5	Pentachlorophenol	62000	U
85-01-8	Phenanthrene	13000	U
120-12-7	Anthracene	13000	U
84-74-2	Di-n-Butylphthalate	13000	U
206-44-0	Fluoranthene	13000	U
129-00-0	Pyrene	13000	U
85-68-7	Butylbenzylphthalate	13000	U
91-94-1	3,3'-Dichlorobenzidine	26000	U
56-55-3	Benzo(a)Anthracene	13000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	13000	U
218-01-9	Chrysene	13000	U
117-84-0	Di-n-Octyl Phthalate	13000	U
205-99-2	Benzo(b)Fluoranthene	13000	U
207-08-9	Benzo(k)Fluoranthene	13000	U
50-32-8	Benzo(a)Pyrene	13000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	13000	U
53-70-3	Dibenz(a,h)Anthracene	13000	U
191-24-2	Benzo(g,h,i)Perylene	13000	U

(1)-Cannot be separated from diphenylamine

Laboratory Name ecology and environment, inc.

Case No U-4974

Sample Number DC-SS-31

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 11-17-86

Date Analyzed 12-10-86

Conc/Dil Factor 100

Percent Moisture (decanted) 36

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l (or ug/Kg) (Circle One)
319-84-6	Alpha-BHC	1600 u
319-85-7	Beta-BHC	1,600 u
319-86-8	Delta-BHC	1,600 u
58-89-9	Gamma-BHC (Lindane)	1,600 u
76-44-8	Heptachlor	1,600 u
309-00-2	Aldrin	1,600 u
1024-57-3	Heptachlor Epoxide	1,600 u
959-98-8	Endosulfan I	1,600 u
60-57-1	Dieldrin	3,200 u
72-55-9	4,4'-DDE	3,200 u
72-20-8	Endrin	3,200 u
33213-65-9	Endosulfan II	3,200 u
72-54-8	4,4'-DDD	3,200 u
1031-07-8	Endosulfan Sulfate	3,200 u
50-29-3	4,4'-DDT	3,200 u
72-43-5	Methoxychlor	16,000 u
53494-70-5	Endrin Ketone	3,200 u
57-74-9	Chlordane	16,000 u
8001-35-2	Toxaphene	32,000 u
12674-11-2	Aroclor-1016	16,000 u
11104-28-2	Aroclor-1221	16,000 u
11141-16-5	Aroclor-1232	16,000 u
53469-21-9	Aroclor-1242	16,000 u
12672-29-6	Aroclor-1248	16,000 u
11097-69-1	Aroclor-1254	32,000 u
11096-82-5	Aroclor-1260	32,000 u

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

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V_s _____ or W_s 30 V_t 1000 V_i 4

Laboratory Name [illegible]

Case No [illegible]

Sample Number
DC-SS-31

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number min.	Estimated Concentration (ug/l or ug/kg)
1.	79209	Acetic acid methyl ester	VOA	11.4	29 J
2.		Hexene isomer		[illegible]	25 J
3.		Hexene isomer		[illegible]	55 J
4		Hexene isomer		19.7	12 BJ
5		Unknown Ketone		20.0	26 BJ
6.		Hexane isomer		21.3	24 BJ
7		Unknown alcohol		24.0	44 J
8.		Unknown hydrocarbon		24.9	53 J
9					
10.					
11.		UNKNOWN	BNA	24.4	180000 J
12.		UNKNOWN		25.6	430000 J
13		UNKNOWN		26.8	160000 J
14		UNKNOWN HYDROCARBON		27.2	9000 J
15.		UNKNOWN HYDROCARBON		27.6	31000 J
16.		UNKNOWN HYDROCARBON		27.9	43000 J
17		UNKNOWN HYDROCARBON		29.5	59000 J
18		UNKNOWN HYDROCARBON		30.4	56000 J
19.		UNKNOWN HYDROCARBON		30.6	54000 J
20		UNKNOWN		33.7	72000 J
21					
22.					
23					
24.					
25.					
26					
27					
28					
29.					
30					

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Form 1, Part B

431095

S544

Case No. [illegible]

Sampler Number: DC-SS-31-RE

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	(RT) or Scan Number min.	Estimated Concentration (ug/l or ug/kg)
1.	Hexene isomer	VOA	18.1	730 J
2.	Hexene isomer	VOA	18.8	2500 J
3.	Hexene isomer	VOA	19.5	110 J
4.	Hexene isomer	VOA	19.9	360 J
5.	Unknown alcohol	VOA	23.4	64 J
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Sample Number
DC-SS-32

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc
Case No: U-4474
Lab Sample ID No: 9798
QC Report No:
Sample Matrix: Soil
Contract No: IL-3140
Data Release Authorized By: [illegible]
Date Sample Received: 11-14-86

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed: 11-20-86

Conc./Dil Factor: 3 pH: 6.0

Percent Moisture (Not Decanted): 25

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	35 B
67-64-1	Acetone	30 B
75-15-0	Carbon Disulfide	15u
75-35-4	1,1-Dichloroethene	15u
75-34-3	1,1-Dichloroethane	15u
156-60-5	Trans-1,2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1,2-Dichloroethane	15u
78-93-3	2-Butanone	43 B
71-55-6	1,1,1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1,2-Dichloropropane	15u
10061-02-6	Trans-1,3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1,1,2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1,3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	29 J
591-78-6	2-Hexanone	30u
127-18-4	Tetrachloroethene	15u
79-34-5	1,1,2,2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater (or equal) to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration, dilution, etc. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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Ecology and

S546

Case No U-4474

Sample Number DC-SS-32

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 11-17-86

Date Analyzed 12-4-86

Conc./Dil Factor 50

Percent Moisture (Decanted) 25

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
108-95-2	Phenol	11000	U
111-44-4	bis(-2-Chloroethyl)Ether	11000	U
95-57-8	2-Chlorophenol	11000	U
541-73-1	1,3-Dichlorobenzene	11000	U
106-46-7	1,4-Dichlorobenzene	11000	U
100-51-6	Benzyl Alcohol	11000	U
95-50-1	1,2-Dichlorobenzene	11000	U
95-48-7	2-Methylphenol	11000	U
39638-32-9	bis(2-chloroisopropyl)Ether	11000	U
106-44-5	4-Methylphenol	11000	U
621-64-7	N-Nitroso-Di-n-Propylamine	11000	U
67-72-1	Hexachloroethane	11000	U
98-95-3	Nitrobenzene	11000	U
78-59-1	Isophorone	11000	U
88-75-5	2-Nitrophenol	11000	U
105-67-9	2,4-Dimethylphenol	11000	U
65-85-0	Benzoic Acid	53000	U
111-91-1	bis(2-Chloroethoxy)Methane	11000	U
120-83-2	2,4-Dichlorophenol	11000	U
120-82-1	1,2,4-Trichlorobenzene	11000	U
91-20-3	Naphthalene	11000	U
106-47-8	4-Chloroaniline	11000	U
87-68-3	Hexachlorobutadiene	11000	U
59-50-7	4-Chloro-3-Methylphenol	11000	U
91-57-6	2-Methylnaphthalene	11000	U
77-47-4	Hexachlorocyclopentadiene	11000	U
88-06-2	2,4,6-Trichlorophenol	11000	U
95-95-4	2,4,5-Trichlorophenol	53000	U
91-58-7	2-Chloronaphthalene	11000	U
88-74-4	2-Nitroaniline	53000	U
131-11-3	Dimethyl Phthalate	11000	U
208-96-8	Acenaphthylene	11000	U
99-09-2	3-Nitroaniline	53000	U

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	11000	U
51-28-5	2,4-Dinitrophenol	53000	U
100-02-7	4-Nitrophenol	53000	U
132-64-9	Dibenzofuran	11000	U
121-14-2	2,4-Dinitrotoluene	11000	U
606-20-2	2,6-Dinitrotoluene	11000	U
84-66-2	Diethylphthalate	11000	U
7005-72-3	4-Chlorophenyl-phenylether	11000	U
86-73-7	Fluorene	11000	U
100-01-6	4-Nitroaniline	53000	U
534-52-1	4,6-Dinitro-2-Methylphenol	53000	U
86-30-6	N-Nitrosodiphenylamine (1)	11000	U
101-55-3	4-Bromophenyl-phenylether	11000	U
118-74-1	Hexachlorobenzene	11000	U
87-86-5	Pentachlorophenol	53000	U
85-01-8	Phenanthrene	11000	U
120-12-7	Anthracene	11000	U
84-74-2	Di-n-Butylphthalate	11000	U
206-44-0	Fluoranthene	11000	U
129-00-0	Pyrene	11000	U
85-68-7	Butylbenzylphthalate	11000	U
91-94-1	3,3'-Dichlorobenzidine	22000	U
56-55-3	Benzo(a)Anthracene	11000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	11000	U
218-01-9	Chrysene	11000	U
117-84-0	Di-n-Octyl Phthalate	11000	U
205-99-2	Benzo(b)Fluoranthene	11000	U
207-08-9	Benzo(k)Fluoranthene	11000	U
50-32-8	Benzo(a)Pyrene	11000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	11000	U
53-70-3	Dibenz(a,h)Anthracene	11000	U
191-24-2	Benzo(g,h,i)Perylene	11000	U

(1)-Cannot be separated from diphenylamine

Form I

Laboratory Name ecology and environment, inc.

Case No U-4474

Sample Number DC-SS-32

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 11-17-86

Date Analyzed 12-10-86

Conc/Dil Factor 50

Percent Moisture (decanted) 25.1

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	800 U
319-85-7	Beta-BHC	800 U
319-86-8	Delta-BHC	800 U
58-89-9	Gamma-BHC (Lindane)	800 U
76-44-8	Heptachlor	800 U
309-00-2	Aldrin	800 U
1024-57-3	Heptachlor Epoxide	800 U
959-98-8	Endosulfan I	800 U
60-57-1	Dieldrin	1600 U
72-55-9	4,4'-DDE	1600 U
72-20-8	Endrin	1600 U
33213-65-9	Endosulfan II	1600 U
72-54-8	4,4'-DDD	1600 U
1031-07-8	Endosulfan Sulfate	1600 U
50-29-3	4,4'-DDT	1600 U
72-43-5	Methoxychlor	8,000 U
53494-70-5	Endrin Ketone	1,600 U
57-74-9	Chlordane	8,000 U
8001-35-2	Toxaphene	16,000 U
12674-11-2	Aroclor-1016	8,000 U
11104-28-2	Aroclor-1221	8,000 U
11141-16-5	Aroclor-1232	8,000 U
53469-21-9	Aroclor-1242	8,000 U
12672-29-6	Aroclor-1248	8,000 U
11097-69-1	Aroclor-1254	16,000 U
11096-82-5	Aroclor-1260	12,600 J

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_t 1000 V_i 4

225

Form 1

7/85
491055

S548

Laboratory Name [illegible] and environmental, inc.

Case No 11-11-174

Sample Number
DC-SS-32

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min.	Estimated Concentration (ug/l or ug/kg)
1.	Hexene isomer	VOA	15.2	[illegible] J
2.	Unknown Ketone	VOA	18.1	[illegible] J
3.	Hexene isomer	VOA	21.41	[illegible] J
4.	Unknown hydrocarbon	VOA	23.[illegible]	[illegible] J
5.	Unknown hydrocarbon	VOA	24.8	[illegible] J
6.	Unknown hydrocarbon	VOA	24.7	[illegible] J
7.				
8.	UNKNOWN AROMATIC	BNA	21.3	84000 J
9.	UNKNOWN AROMATIC		21.8	230000 J
10.	UNKNOWN AROMATIC		21.9	92000 J
11.	UNKNOWN AROMATIC		22.0	170000 J
12.	UNKNOWN AROMATIC		22.1	170000 J
13.	UNKNOWN AROMATIC		22.3	290000 J
14.	UNKNOWN AROMATIC		22.7	240000 J
15.	DIMETHYLDECYLBENZENE		22.8	140000 J
16.	UNKNOWN AROMATIC		22.9	120000 J
17.	UNKNOWN AROMATIC		23.0	46000 J
18.	UNKNOWN AROMATIC		23.3	58000 J
19.	UNKNOWN AROMATIC		23.5	64000 J
20.	UNKNOWN AROMATIC		23.8	100000 J
21.	UNKNOWN AROMATIC		24.0	80000 J
22.	UNKNOWN AROMATIC		24.1	52000 J
23.	UNKNOWN AROMATIC		24.2	94000 J
24.	UNKNOWN AROMATIC		24.4	55000 J
25.	UNKNOWN AROMATIC		25.3	120000 J
26.	UNKNOWN AROMATIC		25.6	92000 J
27.	UNKNOWN AROMATIC		25.8	78000 J
28.				
29.				
30.				

Form 1, Part B

Sample Number
DC-SS-33

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc
Case No: U-4474
Lab Sample ID No: 9799
QC Report No:
Sample Matrix: Soil
Contract No: EL-3140
Data Release Authorized By: [illegible]
Date Sample Received: 11-14-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed: 11-27-86

Conc./Dil Factor: 10 pH 5.0

Percent Moisture (Not Decanted) 32

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	100u
74-83-9	Bromomethane	100u
75-01-4	Vinyl Chloride	100u
75-00-3	Chloroethane	100u
75-09-2	Methylene Chloride	230B
67-64-1	Acetone	170B
75-15-0	Carbon Disulfide	50u
75-35-4	1,1-Dichloroethene	50u
75-34-3	1,1-Dichloroethane	50u
156-60-5	Trans-1,2-Dichloroethene	50u
67-66-3	Chloroform	50u
107-06-2	1,2-Dichloroethane	50u
78-93-3	2-Butanone	100u
71-55-6	1,1,1-Trichloroethane	50u
56-23-5	Carbon Tetrachloride	50u
108-05-4	Vinyl Acetate	100u
75-27-4	Bromodichloromethane	50u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1,2-Dichloropropane	50u
10061-02-6	Trans-1,3-Dichloropropene	50u
79-01-6	Trichloroethene	50u
124-48-1	Dibromochloromethane	50u
79-00-5	1,1,2-Trichloroethane	50u
71-43-2	Benzene	50u
10061-01-5	cis-1,3-Dichloropropene	50u
110-75-8	2-Chloroethylvinylether	100u
75-25-2	Bromoform	50u
108-10-1	4-Methyl-2-Pentanone	2000
591-78-6	2-Hexanone	84B
127-18-4	Tetrachloroethene	50u
79-34-5	1,1,2,2-Tetrachloroethane	50u
108-88-3	Toluene	50u
108-90-7	Chlorobenzene	50u
100-41-4	Ethylbenzene	50u
[illegible]	Styrene	50u
	Total Xylenes	50u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater (or equal) to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration, dilution, etc. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If, for example, the detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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ecology and

S550

Laboratory Name ECOLOGY & ENVIRONMENT INC.

Case No U-4474

Sample Number DC-SS-33

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 11-17-86

Date Analyzed: 12-4-86

Conc./Dil Factor: 50

Percent Moisture (Decanted) 32

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
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
100-51-6	Benzyl Alcohol	12000	U
95-50-1	1,2-Dichlorobenzene	12000	U
95-48-7	2-Methylphenol	12000	U
39638-32-9	bis(2-chloroisopropyl)Ether	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
65-85-0	Benzoic Acid	59000	U
111-91-1	bis(2-Chloroethoxy)Methane	12000	U
120-83-2	2,4-Dichlorophenol	12000	U
120-82-1	1,2,4-Trichlorobenzene	12000	U
91-20-3	Naphthalene	12000	U
106-47-8	4-Chloroaniline	12000	U
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	59000	U
91-58-7	2-Chloronaphthalene	12000	U
88-74-4	2-Nitroaniline	59000	U
131-11-3	Dimethyl Phthalate	12000	U
208-96-8	Acenaphthylene	12000	U
99-09-2	3-Nitroaniline	59000	U

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	12000	U
51-28-5	2,4-Dinitrophenol	59000	U
100-02-7	4-Nitrophenol	59000	U
132-64-9	Dibenzofuran	12000	U
121-14-2	2,4-Dinitrotoluene	12000	U
606-20-2	2,6-Dinitrotoluene	12000	U
84-66-2	Diethylphthalate	12000	U
7005-72-3	4-Chlorophenyl-phenylether	12000	U
86-73-7	Fluorene	12000	U
100-01-6	4-Nitroaniline	59000	U
534-52-1	4,6-Dinitro-2-Methylphenol	59000	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	59000	U
85-01-8	Phenanthrene	12000	U
120-12-7	Anthracene	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	24000	U
56-55-3	Benzo(a)Anthracene	12000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	1400	J
218-01-9	Chrysene	12000	U
117-84-0	Di-n-Octyl Phthalate	2000	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
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

217

Form I 7/85

S551

Laboratory Name ecology and environment, inc.

Case No V-4474

Sample Number DC-SS-33

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 11-17-86

Date Analyzed 12-10-86

Conc/Dil Factor 100

Percent Moisture (decanted) ~~29.6~~ 32

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha BHC	1600 U
319-85-7	Beta BHC	1,600 U
319-86-8	Delta BHC	1,600 U
58-89-9	Gamma BHC (Lindane)	1,600 U
76-44-8	Heptachlor	1,600 U
309-00-2	Aldrin	1,600 U
1024-57-3	Heptachlor Epoxide	1,600 U
959-98-8	Endosulfan I	1,600 U
60-57-1	Dieldrin	3,200 U
72-55-9	4,4'-DDE	3,200 U
72-20-8	Endrin	3,200 U
33213-65-9	Endosulfan II	3,200 U
72-54-8	4,4'-DDD	3,200 U
1031-07-8	Endosulfan Sulfate	3,200 U
50-29-3	4,4'-DDT	3,200 U
72-43-5	Methoxychlor	16,000 U
53494-70-5	Endrin Ketone	3,200 U
57-74-9	Chlordane	16,000 U
8001-35-2	Toxaphene	32,000 U
12674-11-2	Aroclor-1016	16,000 U
11104-28-2	Aroclor-1221	16,000 U
11141-16-5	Aroclor-1232	16,000 U
53469-21-9	Aroclor-1242	16,000 U
12672-29-6	Aroclor-1248	16,000 U
11097-69-1	Aroclor-1254	32,000 U
11096-82-5	Aroclor-1260	26,600 J

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_t 1000 V_i 4

Laboratory Name ecology and environment, inc.

Case No 11-11174

Sample Number DC-SS-33

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min.	Estimated Concentration (ug/l or ug/kg)
1. 79209	Acetic acid, methyl ester	VOA	11.3	240 J
2.	Hexene isomer		18.0	5800 J
3.	Hexene isomer		18.8	15000 J
4	Hexene isomer		19.5	910 J
5	Hexene isomer		19.9	3600 J
6.	Unknown alcohol		23.8	430 J
7	Unknown hydrocarbon		26.8	230 J
8.				
9	UNKNOWN AROMATIC	BNA	20.4	39000 J
10.	UNKNOWN AROMATIC	BNA	20.7	68000 J
11.	UNKNOWN AROMATIC		21.2	47000 J
12.	UNKNOWN AROMATIC		21.4	230000 J
13	DIMETHYL DECYL BENZENE		21.6	100000 J
14	DIMETHYL DECYL BENZENE		21.8	610000 J
15.	UNKNOWN AROMATIC		21.9	290000 J
16.	UNKNOWN AROMATIC		22.0	370000 J
17	UNKNOWN AROMATIC		22.1	470000 J
18.	UNKNOWN AROMATIC		22.3	650000 J
19.	UNKNOWN AROMATIC		22.5	120000 J
20.	DIMETHYL DECYL BENZENE		22.7	400000 J
21.	UNKNOWN AROMATIC		22.8	260000 J
22.	UNKNOWN AROMATIC		22.9	180000 J
23.	UNKNOWN		23.5	65000 J
24	UNKNOWN		23.6	74000 J
25.	UNKNOWN		25.5	60000 J
26.	UNKNOWN		26.8	420000 J
27 10544500	MOLECULAR SULFUR		27.0	220000 J
28.	UNKNOWN AROMATIC		29.8	51000 J
29.				
30				

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Form 1, Part B

7 83
491095

Sample Number
DC-SS-34

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc
Case No: U-4474
Lab Sample ID No: 9800
QC Report No:
Sample Matrix: Soil
Contract No: IL-3140
Data Release Authorized By: [illegible]
Date Sample Received: 11-14-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed: 11-25-86
Conc/Dil Factor: 3 pH 6.2
Percent Moisture (Not Decanted) 24

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	46B
67-64-1	Acetone	19BJ
75-15-0	Carbon Disulfide	15u
75-35-4	1,1-Dichloroethene	15u
75-34-3	1,1-Dichloroethane	15u
156-60-5	Trans-1,2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1,2-Dichloroethane	15u
78-93-3	2-Butanone	37B
71-55-6	1,1,1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or (ug/Kg) (Circle One)
78-87-5	1,2-Dichloropropane	15u
10061-02-6	Trans-1,3-Dichloropropene	15
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1,1,2-Trichloroethane	15u
71-43-2	Benzene	15
10061-01-5	cis-1,3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	6B
591-78-6	2-Hexanone	30u
127-18-4	Tetrachloroethene	15u
79-34-5	1,1,2,2-Tetrachloroethane	15u
108-88-3	Toluene	32
108-90-7	Chlorobenzene	18
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration, dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum sample-specific detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such definition attached to the data summary report.

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Form I 11/85

Ecology and

S554

Laboratory Name ECOLOGY & ENVIRONMENT INC.

Case No U-4474

Sample Number DC-SS-34

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 11-17-86

Date Analyzed 12-4-86

Conc/Dil Factor 50

Percent Moisture (Decanted) 24

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
108-95-2	Phenol	11000	U
111-44-4	bis(2-Chloroethyl)Ether	11000	U
95-57-8	2-Chlorophenol	11000	U
541-73-1	1,3-Dichlorobenzene	11000	U
106-46-7	1,4-Dichlorobenzene	11000	U
100-51-6	Benzyl Alcohol	11000	U
95-50-1	1,2-Dichlorobenzene	11000	U
95-48-7	2-Methylphenol	11000	U
39638-32-9	bis(2-chloroisopropyl)Ether	11000	U
106-44-5	4-Methylphenol	11000	U
621-64-7	N-Nitroso-Di-n-Propylamine	11000	U
67-72-1	Hexachloroethane	11000	U
98-95-3	Nitrobenzene	11000	U
78-59-1	Isophorone	11000	U
88-75-5	2-Nitrophenol	11000	U
105-67-9	2,4-Dimethylphenol	11000	U
65-85-0	Benzoic Acid	53000	U
111-91-1	bis(2-Chloroethoxy)Methane	11000	U
120-83-2	2,4-Dichlorophenol	11000	U
120-82-1	1,2,4-Trichlorobenzene	35000	
91-20-3	Naphthalene	11000	U
106-47-8	4-Chloroaniline	11000	U
87-68-3	Hexachlorobutadiene	11000	U
59-50-7	4-Chloro-3-Methylphenol	11000	U
91-57-6	2-Methylnaphthalene	11000	U
77-47-4	Hexachlorocyclopentadiene	11000	U
88-06-2	2,4,6-Trichlorophenol	11000	U
95-95-4	2,4,5-Trichlorophenol	53000	U
91-58-7	2-Chloronaphthalene	11000	U
88-74-4	2-Nitroaniline	53000	U
131-11-3	Dimethyl Phthalate	11000	U
208-96-8	Acenaphthylene	11000	U
99-09-2	3-Nitroaniline	53000	U

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	11000	U
51-28-5	2,4-Dinitrophenol	53000	U
100-02-7	4-Nitrophenol	53000	U
132-64-9	Dibenzofuran	11000	U
121-14-2	2,4-Dinitrotoluene	11000	U
606-20-2	2,6-Dinitrotoluene	11000	U
84-66-2	Diethylphthalate	11000	U
7005-72-3	4-Chlorophenyl-phenylether	11000	U
86-73-7	Fluorene	11000	U
100-01-6	4-Nitroaniline	53000	U
534-52-1	4,6-Dinitro-2-Methylphenol	53000	U
86-30-6	N-Nitrosodiphenylamine (1)	11000	U
101-55-3	4-Bromophenyl-phenylether	11000	U
118-74-1	Hexachlorobenzene	11000	U
87-86-5	Pentachlorophenol	9900	J
85-01-8	Phenanthrene	11000	U
120-12-7	Anthracene	11000	U
84-74-2	Di-n-Butylphthalate	11000	U
206-44-0	Fluoranthene	11000	U
129-00-0	Pyrene	11000	U
85-68-7	Butylbenzylphthalate	11000	U
91-94-1	3,3'-Dichlorobenzidine	22000	U
56-55-3	Benzo(a)Anthracene	11000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	11000	U
218-01-9	Chrysene	11000	U
117-84-0	Di-n-Octyl Phthalate	11000	U
205-99-2	Benzo(b)Fluoranthene	11000	U
207-08-9	Benzo(k)Fluoranthene	11000	U
50-32-8	Benzo(a)Pyrene	11000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	11000	U
53-70-3	Dibenz(a,h)Anthracene	11000	U
191-24-2	Benzo(g,h,i)Perylene	11000	U

(1)-Cannot be separated from diphenylamine

Laboratory Name ecology and environment, inc.

Case No U-4474

Sample Number DC-SS-34

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 11-17

Date Analyzed 12-9-86

Conc/Dil Factor 10,000

Percent Moisture (decanted) 23.8

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or (ug/Kg) (Circle One)
319-84-6	Alpha BHC	160,000 u
319-85-7	Beta-BHC	160,000 u
319-86-8	Delta-BHC	160,000 u
58-89-9	Gamma BHC (Lindane)	160,000 u
76-44-8	Heptachlor	160,000 u
309-00-2	Aldrin	160,000 u
1024-57-3	Heptachlor Epoxide	160,000 u
959-98-8	Endosulfan I	160,000 u
60-57-1	Dieldrin	320,000 u
72-55-9	4,4'-DDE	320,000 u
72-20-8	Endrin	320,000 u
33213-65-9	Endosulfan II	320,000 u
72-54-8	4,4'-DDD	320,000 u
1031-07-8	Endosulfan Sulfate	320,000 u
50-29-3	4,4'-DDT	320,000 u
72-43-5	Methoxychlor	1,600,000 u
53494-70-5	Endrin Ketone	320,000 u
57-74-9	Chlordane	1,600,000 u
8001-35-2	Toxaphene	3,200,000 u
12674-11-2	Aroclor-1016	1,600,000 u
11104-28-2	Aroclor-1221	1,600,000 u
11141-16-5	Aroclor-1232	1,600,000 u
53469-21-9	Aroclor-1242	1,600,000 u
12672-29-6	Aroclor-1248	1,600,000 u
11097-69-1	Aroclor-1254	3,200,000 u
11096-82-5	Aroclor-1260	5,250,000 C

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_t 1,000 V_i 4

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Form 1

Laboratory Name ecology and environment, inc.

Case No V-4474

Sample Number DC-SS-34

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 11-17

Date Analyzed 12-9-86

Conc/Dil Factor 10,000

Percent Moisture (decanted) 23.8

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or (ug/Kg) (Circle One)
319-84-6	Alpha-BHC	160,000 u
319-85-7	Beta-BHC	160,000 u
319-86-8	Delta-BHC	160,000 u
58-89-9	Gamma-BHC (Lindane)	160,000 u
76-44-8	Heptachlor	160,000 u
309-00-2	Aldrin	160,000 u
1024-57-3	Heptachlor Epoxide	160,000 u
959-98-8	Endosulfan I	160,000 u
60-57-1	Dieldrin	320,000 u
72-55-9	4,4'-DDE	320,000 u
72-20-8	Endrin	320,000 u
33213-65-9	Endosulfan II	320,000 u
72-54-8	4,4'-DDD	320,000 u
1031-07-8	Endosulfan Sulfate	320,000 u
50-29-3	4,4'-DDT	320,000 u
72-43-5	Methoxychlor	1,600,000 u
53494-70-5	Endrin Ketone	320,000 u
57-74-9	Chlordane	1,600,000 u
8001-35-2	Toxaphene	3,200,000 u
12674-11-2	Aroclor-1016	1,600,000 u
11104-28-2	Aroclor-1221	1,600,000 u
11141-16-5	Aroclor-1232	1,600,000 u
53469-21-9	Aroclor-1242	1,600,000 u
12672-29-6	Aroclor-1248	1,600,000 u
11097-69-1	Aroclor-1254	3,200,000 u
11096-82-5	Aroclor-1260	5,250,000 C

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_t 4,000 V_i 4

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Form 1

Laboratory Name ecology and environment, inc

Case No 11-4474

Sample Number
DC-SS-34

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min.	Estimated Concentration (ug/l or ug/kg)
1.	Hexene isomer	VOA	18-0	14
2.	Hexene isomer		18-7	39
3.	Hexane isomer		19.5	6
4.	Hexane isomer		21.2	7
5.	Unknown hydrocarbon		30.4	32
6.	Dichlorobenzene isomer		39.3	73
7.	Dichlorobenzene isomer		40.0	110
8.				
9.	PCB	BNA	27.6	—
10.	UNKNOWN HYDROCARBON		29.4	130000 J
11.	PCB		29.6-31.4	—
12.	UNKNOWN HYDROCARBON		32.3	120000 J
13.	PCB		32.4	—
14.	UNKNOWN HYDROCARBON		32.6	54000 J
15.	UNKNOWN HYDROCARBON		32.8	86000 J
16.	PCB		33.1	—
17.	UNKNOWN HYDROCARBON		33.3	100000 J
18.	UNKNOWN HYDROCARBON		33.8	84000 J
19.	UNKNOWN HYDROCARBON		34.2	97000 J
20.	UNKNOWN HYDROCARBON		34.6	170000 J
21.	UNKNOWN HYDROCARBON		35.2	56000 J
22.	UNKNOWN HYDROCARBON		36.1	60000 J
23.	UNKNOWN HYDROCARBON		36.3	74000 J
24.	UNKNOWN HYDROCARBON		37.0	53000 J
25.				
26.				
27.				
28.				
29.				
30.				

Sample Number
DC-SS-35

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc Case No: U-4474
Lab Sample ID No: 9801 QC Report No:
Sample Matrix: Soil Contract No: IL-3140
Data Release Authorized By: [signature] Date Sample Received: 11-14-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed: 11-26-86
Conc/Dil Factor: 3 pH 6.6
Percent Moisture: (Not Decanted) 13

CAS Number		ug/L or ug/Kg (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	23B
67-64-1	Acetone	30u
75-15-0	Carbon Disulfide	15u
75-35-4	1,1-Dichloroethene	15u
75-34-3	1,1-Dichloroethane	15u
156-60-5	Trans-1,2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1,2-Dichloroethane	15u
78-93-3	2-Butanone	30u
71-55-6	1,1,1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
[illegible]	[illegible]	15u

CAS Number		ug/L or ug/Kg (Circle One)
78-87-5	1,2-Dichloropropane	15u
10061-02-6	Trans-1,3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1,1,2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1,3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	100
591-78-6	2-Hexanone	30u
127-18-4	Tetrachloroethene	15u
79-34-5	1,1,2,2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration, dilution, etc. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum sample-specific detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If the detection is 10 ug/L and a concentration of 3 ug/L is detected, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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Form I 11/85

Ecology and

S559

Laboratory Name ECOLOGY & ENVIRONMENT INC.

Case No U-4474

Sample Number DC-SS-35

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 11-17-86

Date Analyzed 12-19-86

Conc/Dil Factor 50

Percent Moisture (Decanted) 13

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
108-95-2	Phenol	9500	U
111-44-4	bis(2-Chloroethyl)Ether	9500	U
95-57-8	2-Chlorophenol	9500	U
541-73-1	1,3-Dichlorobenzene	9500	U
106-46-7	1,4-Dichlorobenzene	9500	U
100-51-6	Benzyl Alcohol	9500	U
95-50-1	1,2-Dichlorobenzene	9500	U
95-48-7	2-Methylphenol	9500	U
39638-32-9	bis(2-chloroisopropyl)Ether	9500	U
106-44-5	4-Methylphenol	9500	U
621-64-7	N-Nitroso-Di-n-Propylamine	9500	U
67-72-1	Hexachloroethane	9500	U
98-95-3	Nitrobenzene	9500	U
78-59-1	Isophorone	9500	U
88-75-5	2-Nitrophenol	9500	U
105-67-9	2,4-Dimethylphenol	9500	U
65-85-0	Benzoic Acid	46000	U
111-91-1	bis(2-Chloroethoxy)Methane	9500	U
120-83-2	2,4-Dichlorophenol	9500	U
120-82-1	1,2,4-Trichlorobenzene	9500	U
91-20-3	Naphthalene	9500	U
106-47-8	4-Chloroaniline	9500	U
87-68-3	Hexachlorobutadiene	9500	U
59-50-7	4-Chloro-3-Methylphenol	9500	U
91-57-6	2-Methylnaphthalene	9500	U
77-47-4	Hexachlorocyclopentadiene	9500	U
88-06-2	2,4,6-Trichlorophenol	9500	U
95-95-4	2,4,5-Trichlorophenol	46000	U
91-58-7	2-Chloronaphthalene	9500	U
88-74-4	2-Nitroaniline	46000	U
131-11-3	Dimethyl Phthalate	9500	U
208-96-8	Acenaphthylene	9500	U
99-09-2	3-Nitroaniline	46000	U

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	9500	U
51-28-5	2,4-Dinitrophenol	46000	U
100-02-7	4-Nitrophenol	46000	U
132-64-9	Dibenzofuran	9500	U
121-14-2	2,4-Dinitrotoluene	9500	U
606-20-2	2,6-Dinitrotoluene	9500	U
84-66-2	Diethylphthalate	9500	U
7005-72-3	4-Chlorophenyl-phenylether	9500	U
86-73-7	Fluorene	9500	U
100-01-6	4-Nitroaniline	46000	U
534-52-1	4,6-Dinitro-2-Methylphenol	46000	U
86-30-6	N-Nitrosodiphenylamine (1)	9500	U
101-55-3	4-Bromophenyl-phenylether	9500	U
118-74-1	Hexachlorobenzene	9500	U
87-86-5	Pentachlorophenol	46000	U
85-01-8	Phenanthrene	9500	U
120-12-7	Anthracene	9500	U
84-74-2	Di-n-Butylphthalate	9500	U
206-44-0	Fluoranthene	9500	U
129-00-0	Pyrene	9500	U
85-68-7	Butylbenzylphthalate	9500	U
91-94-1	3,3'-Dichlorobenzidine	19000	U
56-55-3	Benzo(a)Anthracene	9500	U
117-81-7	bis(2-Ethylhexyl)Phthalate	9500	U
218-01-9	Chrysene	9500	U
117-84-0	Di-n-Octyl Phthalate	9500	U
205-99-2	Benzo(b)Fluoranthene	9500	U
207-08-9	Benzo(k)Fluoranthene	9500	U
50-32-8	Benzo(a)Pyrene	9500	U
193-39-5	Indeno(1,2,3-cd)Pyrene	9500	U
53-70-3	Dibenz(a,h)Anthracene	9500	U
191-24-2	Benzo(g,h,i)Perylene	9500	U

(1)-Cannot be separated from diphenylamine

Laboratory Name ecology and environment, inc.

Case No U-4474

Sample Number DC-SS-35

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 11-17-86

Date Analyzed 12-18-86

Conc/Dil Factor 100

Percent Moisture (decanted) 13.2

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	1600 U
319-85-7	Beta-BHC	1600 U
319-86-8	Delta-BHC	1600 U
58-89-9	Gamma-BHC (Lindane)	1600 U
76-44-8	Heptachlor	1600 U
309-00-2	Aldrin	1600 U
1024-57-3	Heptachlor Epoxide	1600 U
959-98-8	Endosulfan I	1600 U
60-57-1	Dieldrin	3200 U
72-55-9	4 4'-DDE	3200 U
72-20-8	Endrin	3200 U
33213-65-9	Endosulfan II	3200 U
72-54-8	4 4'-DDD	3200 U
1031-07-8	Endosulfan Sulfate	3200 U
50-29-3	4 4'-DDT	3200 U
72-43-5	Methoxychlor	16,000 U
53494-70-5	Endrin Ketone	3,200 U
57-74-9	Chlordane	16,000 U
8001-35-2	Toxaphene	32,000 U
12674-11-2	Aroclor-1016	16,000 U
11104-28-2	Aroclor-1221	16,000 U
11141-16-5	Aroclor-1232	16,000 U
53469-21-9	Aroclor-1242	16,000 U
12672-29-6	Aroclor-1248	16,000 U
11097-69-1	Aroclor-1254	32,000 U
11096-82-5	Aroclor-1260	96,000

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_t 1000 V_i 4

Form 1

7 85
491095

Laboratory Name [illegible] ecology and environmental

Case No [illegible]

Sample Number
DC-SS-35

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min.	Estimated Concentration (ug/l or ug/kg)
1. 1120-[illegible]	Hexanoic acid, methyl ester	VOA	11.3	13[illegible] J
2.	Hexane isomer		15.[illegible]	[illegible] J
3.	Hexane isomer		15.7	[illegible] J
4.	Hexane isomer		17.4	[illegible] J
5.	Hexane isomer		17.5	[illegible] J
6.	Hexane isomer		21.7	25 J
7.	Unknown hydrocarbon		23.3	11 J
8.	Unknown alcohol		23.8	17 J
9.	Unknown hydrocarbon		24.2	51 J
10.	Unknown hydrocarbon		24.7	17 J
11.				
12.	UNKNOWN AROMATIC	BNA	23.4	80000 J
13.	UNKNOWN HYDROCARBON		24.4	43000 J
14.	UNKNOWN		24.5	79000 J
15.	UNKNOWN HYDROCARBON		24.9	18000 J
16.	UNKNOWN HYDROCARBON		25.2	20000 J
17.	UNKNOWN HYDROCARBON		25.7	33000 J
18.	UNKNOWN		25.8	150000 J
19. 10544500	MOLECULAR SULFUR		26.0	12000 J
20.	UNKNOWN HYDROCARBON		26.6	23000 J
21.	UNKNOWN HYDROCARBON		26.9	64000 J
22.	UNKNOWN HYDROCARBON		27.0	36000 J
23.	UNKNOWN HYDROCARBON		27.2	68000 J
24.	UNKNOWN HYDROCARBON		27.7	63000 J
25.	UNKNOWN HYDROCARBON		28.0	45000 J
26.	UNKNOWN HYDROCARBON		28.4	110000 J
27.	UNKNOWN HYDROCARBON		29.3	100000 J
28.	UNKNOWN HYDROCARBON		29.6	67000 J
29.	UNKNOWN HYDROCARBON		30.6	46000 J
30.	UNKNOWN HYDROCARBON		31.3	80000 J
	UNKNOWN HYDROCARBON		31.8	100000 J

Sample Number
DC-SS-36

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc
Case No: U-4474
Lab Sample ID No: 9802
QC Report No:
Sample Matrix: Soil
Contract No.: IL-3140
Data Release Authorized By: [signature]
Date Sample Received: 11-14-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed: 11-21-86

Conc./Dil Factor: 3 pH 7.2

Percent Moisture: (Not Decanted) 27

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	55 B
67-64-1	Acetone	25 B
75-15-0	Carbon Disulfide	15u
75-35-4	1,1-Dichloroethene	15u
75-34-3	1,1-Dichloroethane	15u
156-60-5	Trans-1,2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1,2-Dichloroethane	15u
78-93-3	2-Butanone	48 B
71-55-6	1,1,1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1,2-Dichloropropane	15u
10061-02-6	Trans-1,3-Dichloropropene	15u
79-01-6	Trichloroethene	11 J
124-48-1	Dibromochloromethane	15u
79-00-5	1,1,2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1,3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	30u
591-78-6	2-Hexanone	30u
127-18-4	Tetrachloroethene	15u
79-34-5	1,1,2,2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U based on necessary concentration, dilution, etc.). (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum that the detection limit for this sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10 J). If the detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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Form I

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S563

Laboratory Name Ecology & Environment Inc.

Case No U-4474

Sample Number DC-SS-36

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 11-17-86

Date Analyzed 12-22-86

Conc./Dil Factor: 4

Percent Moisture (Decanted) 27

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
108-95-2	Phenol	900	U
111-44-4	bis(-2-Chloroethyl)Ether	900	U
95-57-8	2-Chlorophenol	900	U
541-73-1	1,3-Dichlorobenzene	900	U
106-46-7	1,4-Dichlorobenzene	240	J
100-51-6	Benzyl Alcohol	900	U
95-50-1	1,2-Dichlorobenzene	900	U
95-48-7	2-Methylphenol	900	U
39638-32-9	bis(2-chloroisopropyl)Ether	900	U
106-44-5	4-Methylphenol	900	U
621-64-7	N-Nitroso-Di-n-Propylamine	900	U
67-72-1	Hexachloroethane	900	U
98-95-3	Nitrobenzene	900	U
78-59-1	Isophorone	900	U
88-75-5	2-Nitrophenol	900	U
105-67-9	2,4-Dimethylphenol	900	U
65-85-0	Benzoic Acid	4400	U
111-91-1	bis(-2-Chloroethoxy)Methane	900	U
120-83-2	2,4-Dichlorophenol	900	U
120-82-1	1,2,4-Trichlorobenzene	65	J
91-20-3	Naphthalene	71	J
106-47-8	4-Chloroaniline	900	U
87-68-3	Hexachlorobutadiene	900	U
59-50-7	4-Chloro-3-Methylphenol	900	U
91-57-6	2-Methylnaphthalene	50	J
77-47-4	Hexachlorocyclopentadiene	900	U
88-06-2	2,4,6-Trichlorophenol	900	U
95-95-4	2,4,5-Trichlorophenol	4400	U
91-58-7	2-Chloronaphthalene	900	U
88-74-4	2-Nitroaniline	1100	J
131-11-3	Dimethyl Phthalate	900	U
208-96-8	Acenaphthylene	900	U
99-09-2	3-Nitroaniline	4400	U

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	200	J
51-28-5	2,4-Dinitrophenol	4400	U
100-02-7	4-Nitrophenol	4400	U
132-64-9	Dibenzofuran	95	J
121-14-2	2,4-Dinitrotoluene	900	U
606-20-2	2,6-Dinitrotoluene	900	U
84-66-2	Diethylphthalate	900	U
7005-72-3	4-Chlorophenyl-phenylether	900	U
86-73-7	Fluorene	900	U
100-01-6	4-Nitroaniline	4400	U
534-52-1	4,6-Dinitro-2-Methylphenol	4400	U
86-30-6	N-Nitrosodiphenylamine (1)	900	U
101-55-3	4-Bromophenyl-phenylether	900	U
118-74-1	Hexachlorobenzene	900	U
87-86-5	Pentachlorophenol	1600	J
85-01-8	Phenanthrene	2800	
120-12-7	Anthracene	600	
84-74-2	Di-n-Butylphthalate	900	U
206-44-0	Fluoranthene	4600	
129-00-0	Pyrene	3100	
85-68-7	Butylbenzylphthalate	900	U
91-94-1	3,3'-Dichlorobenzidine	1800	U
56-55-3	Benzo(a)Anthracene	2100	
117-81-7	bis(2-Ethylhexyl)Phthalate	900	U
218-01-9	Chrysene	2700	
117-84-0	Di-n-Octyl Phthalate	900	U
205-99-2	Benzo(b)Fluoranthene	4800	
207-08-9	Benzo(k)Fluoranthene	900	U
50-32-8	Benzo(a)Pyrene	1900	
193-39-5	Indeno(1,2,3-cd)Pyrene	1700	
53-70-3	Dibenz(a,h)Anthracene	550	J
191-24-2	Benzo(g,h,i)Perylene	1500	

(1)-Cannot be separated from diphenylamine

Laboratory Name ecology and environment, inc.

Case No V-4474

Sample Number DC-SS-36

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 11-7-86

Date Analyzed 12-9-86

Conc/Dil Factor 250

Percent Moisture (decanted) 27.4

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or (ug/Kg) (Circle One)
319-84-6	Alpha BHC	4,000 u
319-85-7	Beta BHC	4,000 u
319-86-8	Delta BHC	4,000 u
58-89-9	Gamma BHC (Lindane)	4,000 u
76-44-8	Heptachlor	4,000 u
309-00-2	Aldrin	4,000 u
1024-57-3	Heptachlor Epoxide	4,000 u
959-98-8	Endosulfan I	4,000 u
60-57-1	Dieldrin	8,000 u
72-55-9	4,4'-DDE	8,000 u
72-20-8	Endrin	8,000 u
33213-65-9	Endosulfan II	8,000 u
72-54-8	4,4'-DDD	8,000 u
1031-07-8	Endosulfan Sulfate	8,000 u
50-29-3	4,4'-DDT	8,000 u
72-43-5	Methoxychlor	40,000 u
53494-70-5	Endrin Ketone	8,000 u
57-74-9	Chlordane	40,000 u
8001-35-2	Toxaphene	80,000 u
12674-11-2	Aroclor-1016	40,000 u
11104-28-2	Aroclor-1221	40,000 u
11141-16-5	Aroclor-1232	40,000 u
53469-21-9	Aroclor-1242	40,000 u
12672-29-6	Aroclor-1248	40,000 u
11097-69-1	Aroclor-1254	80,000 u
11096-82-5	Aroclor-1260	144,000 C

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30g V_t 1,000 V_i 4 µl

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Form 1

S565

Laboratory Name [illegible]

Case No [illegible]

Sample Number
DC-SS-36

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number min.	Estimated Concentration (ug/l or ug/kg)	
1.		No TIC's in VOA fraction				
2.						
3.		UNKNOWN AROMATIC	BNA	20.3	3500	J
4		PENTA METHYL HEPTYL BENZENE		20.9	7200	J
5		UNKNOWN AROMATIC		21.0	4300	J
6.		UNKNOWN AROMATIC		21.2	6100	J
7		PENTA METHYL HEPTYL BENZENE		21.7	3800	J
8.		UNKNOWN		25.7	2900	J
9		PCB		28.5-32.0	—	
10	198550	PERYLENE		34.5	2200	J
11	3268879	OCTACHLORODIBENZO [B,E] [1,4] DIOXIN		37.3	7300	J
12.						
13						
14						
15.						
16						
17						
18.						
19.						
20						
21						
22.						
23						
24						
25						
26						
27						
28						
29						
30						

Sample Number
DC-SS 37-RE

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc
Case No: U-4474
Lab Sample ID No: 9803
QC Report No: --
Sample Matrix: Soil
Contract No: EL-3140
Data Release Authorized By: [signature]
Date Sample Received: 11-14-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed: 11-21-86

Conc./Dil Factor: 3 pH: 6.2

Percent Moisture (Not Decanted): 27

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	46B
67-64-1	Acetone	30u
75-15-0	Carbon Disulfide	15u
75-35-4	1,1-Dichloroethene	15u
75-34-3	1,1-Dichloroethane	15u
156-60-5	Trans-1,2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1,2-Dichloroethane	15u
78-93-3	2-Butanone	30u
71-55-6	1,1,1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or (ug/Kg) (Circle One)
78-87-5	1,2-Dichloropropane	15u
10061-02-6	Trans-1,3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1,1,2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1,3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	30u
591-78-6	2-Hexanone	30u
127-18-4	Tetrachloroethene	15u
79-34-5	1,1,2,2-Tetrachloroethane	15u
108-88-3	Toluene	15u
[illegible]	Chlorobenzene	15u
[illegible]	Ethylbenzene	15u
[illegible]	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration, dilution action, (this is not necessarily the instrument detection limit). The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum reportable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 (e.g. 1 and a concentration of 3 is detected, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/µl in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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Form I

S567

Sample Number
DC-SS-37

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc Case No: U-4474
Lab Sample ID No: 9803 QC Report No:
Sample Matrix: Soil Contract No: IL-3140
Data Release Authorized By: [signature] Date Sample Received: 11-14-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed: 11-20-86
Conc./Dil Factor: 3 pH 6.2
Percent Moisture: (Not Decanted) 27

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	69 B
67-64-1	Acetone	48 B
75-15-0	Carbon Disulfide	15u
75-35-4	1,1-Dichloroethene	15u
75-34-3	1,1-Dichloroethane	15u
156-60-5	Trans-1,2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1,2-Dichloroethane	15u
78-93-3	2-Butanone	34 B
71-55-6	1,1,1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or (ug/Kg) (Circle One)
78-87-5	1,2-Dichloropropane	15u
10061-02-6	Trans-1,3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1,1,2-Trichloroethane	15u
71-43-2	Benzene	2 J
10061-01-5	cis-1,3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	30u
591-78-6	2-Hexanone	30u
127-18-4	Tetrachloroethene	12 J
79-34-5	1,1,2,2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	55
100-42-5	Styrene	15u
	Total Xylenes	150

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration, dilution, etc. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is obtained, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described, and such description attached to the data summary report.

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Form I 11/85

S568

Laboratory Name ECOLOGY & ENVIRONMENT INC.

Case No U-4474

Sample Number DC-SS-37

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 11-17-86

Date Analyzed 12-22-86

Conc/Dil Factor: 50

Percent Moisture (Decanted) 27

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
108-95-2	Phenol	11000	U
111-44-4	bis(2-Chloroethyl)Ether	11000	U
95-57-8	2-Chlorophenol	11000	U
541-73-1	1,3-Dichlorobenzene	11000	U
106-46-7	1,4-Dichlorobenzene	11000	U
100-51-6	Benzyl Alcohol	11000	U
95-50-1	1,2-Dichlorobenzene	11000	U
95-48-7	2-Methylphenol	11000	U
39638-32-9	bis(2-chloroisopropyl)Ether	11000	U
106-44-5	4-Methylphenol	11000	U
621-64-7	N-Nitroso-Di-n-Propylamine	11000	U
67-72-1	Hexachloroethane	11000	U
98-95-3	Nitrobenzene	11000	U
78-59-1	Isophorone	11000	U
88-75-5	2-Nitrophenol	11000	U
105-67-9	2,4-Dimethylphenol	11000	U
65-85-0	Benzoic Acid	55000	U
111-91-1	bis(2-Chloroethoxy)Methane	11000	U
120-83-2	2,4-Dichlorophenol	11000	U
120-82-1	1,2,4-Trichlorobenzene	5300	J
91-20-3	Naphthalene	26000	
106-47-8	4-Chloroaniline	11000	U
87-68-3	Hexachlorobutadiene	11000	U
59-50-7	4-Chloro-3-Methylphenol	11000	U
91-57-6	2-Methylnaphthalene	11000	U
77-47-4	Hexachlorocyclopentadiene	11000	U
88-06-2	2,4,6-Trichlorophenol	11000	U
95-95-4	2,4,5-Trichlorophenol	55000	U
91-58-7	2-Chloronaphthalene	11000	U
88-74-4	2-Nitroaniline	220000	
131-11-3	Dimethyl Phthalate	11000	U
208-96-8	Acenaphthylene	11000	U
99-09-2	3-Nitroaniline	55000	U

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	11000	U
51-28-5	2,4-Dinitrophenol	55000	U
100-02-7	4-Nitrophenol	55000	U
132-64-9	Dibenzofuran	11000	U
121-14-2	2,4-Dinitrotoluene	11000	U
606-20-2	2,6-Dinitrotoluene	11000	U
84-66-2	Diethylphthalate	11000	U
7005-72-3	4-Chlorophenyl-phenylether	11000	U
86-73-7	Fluorene	11000	U
100-01-6	4-Nitroaniline	55000	U
534-52-1	4,6-Dinitro-2-Methylphenol	55000	U
86-30-6	N-Nitrosodiphenylamine (1)	11000	U
101-55-3	4-Bromophenyl-phenylether	11000	U
118-74-1	Hexachlorobenzene	11000	U
87-86-5	Pentachlorophenol	55000	U
85-01-8	Phenanthrene	4900	J
120-12-7	Anthracene	11000	U
84-74-2	Di-n-Butylphthalate	11000	U
206-44-0	Fluoranthene	11000	U
129-00-0	Pyrene	11000	U
85-68-7	Butylbenzylphthalate	11000	U
91-94-1	3,3'-Dichlorobenzidine	23000	U
56-55-3	Benzo(a)Anthracene	11000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	11000	U
218-01-9	Chrysene	11000	U
117-84-0	Di-n-Octyl Phthalate	11000	U
205-99-2	Benzo(b)Fluoranthene	11000	U
207-08-9	Benzo(k)Fluoranthene	11000	U
50-32-8	Benzo(a)Pyrene	11000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	11000	U
53-70-3	Dibenz(a,h)Anthracene	11000	U
191-24-2	Benzo(g,h,i)Perylene	11000	U

(1)-Cannot be separated from diphenylamine

Form I

Laboratory Name ecology and environment, inc.

Case No IL-44474

Sample Number DC-SS-37

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number min.	Estimated Concentration (ug/l or ug/kg)	
1.		No TICs in VOA fraction				
2.						
3.		TETRACHLOROBENZENE ISOMER	BNA	16.5	7800	J
4.	99092	3-NITROBENZENAMINE		17.1	99000	J
5.		UNKNOWN AROMATIC		18.9	8100	J
6.		UNKNOWN AROMATIC		19.6	11000	J
7.		UNKNOWN AROMATIC		20.1	16000	J
8.		UNKNOWN AROMATIC		20.3	30000	J
9.		UNKNOWN AROMATIC		20.6	15000	J
10.		UNKNOWN AROMATIC		20.7	180000	J
11.		UNKNOWN AROMATIC		20.8	35000	J
12.		UNKNOWN AROMATIC		20.9	79000	J
13.		UNKNOWN AROMATIC		21.0	99000	J
14.		UNKNOWN AROMATIC		21.2	130000	J
15.		UNKNOWN AROMATIC		21.4	28000	J
16.		UNKNOWN AROMATIC		21.6	70000	J
17.		DIMETHYLDECYL BENZENE		21.7	50000	J
18.		UNKNOWN AROMATIC		21.8	24000	J
19.		UNKNOWN AROMATIC		22.0	10000	J
20.		UNKNOWN AROMATIC		22.8	12000	J
21.		UNKNOWN AROMATIC		23.3	10000	J
22.						
23.						
24.						
25.						
26.						
27.						
28.						
29.						
30.						

Laboratory Name ecology and environment, inc.

Case No U-4474

Sample Number DC-SS-37

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 11-17-86

Date Analyzed 12-9-86

Conc/Dil Factor 500

Percent Moisture (decanted) 27.3

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	8,000 U
319-85-7	Beta-BHC	8,000 U
319-86-8	Delta-BHC	8,000 U
58-89-9	Gamma-BHC (Lindane)	8,000 U
76-44-8	Heptachlor	8,000 U
309-00-2	Aldrin	8,000 U
1024-57-3	Heptachlor Epoxide	8,000 U
959-98-8	Endosulfan I	8,000 U
60-57-1	Dieldrin	16,000 U
72-55-9	4,4'-DDE	16,000 U
72-20-8	Endrin	16,000 U
33213-65-9	Endosulfan II	16,000 U
72-54-8	4,4'-DDD	16,000 U
1031-07-8	Endosulfan Sulfate	16,000 U
50-29-3	4,4'-DDT	16,000 U
72-43-5	Methoxychlor	80,000 U
53494-70-5	Endrin Ketone	16,000 U
57-74-9	Chlordane	80,000 U
8001-35-2	Toxaphene	160,000 U
12674-11-2	Aroclor-1016	80,000 U
11104-28-2	Aroclor-1221	80,000 U
11141-16-5	Aroclor-1232	80,000 U
53469-21-9	Aroclor-1242	80,000 U
12672-29-6	Aroclor-1248	80,000 U
11097-69-1	Aroclor-1254	160,000 U
11096-82-5	Aroclor-1260	151,000 J

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_t 1000 V_i 4

Laboratory Name [illegible] and environment

Case No 11-4-171

Sample Number
DC-SS-37-RE

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	(RT) or Scan Number min.	Estimated Concentration (ug/l or ug/kg)
1.	No TIC's in VOA fraction			
2.				
3.				
4.				
5.				
6.				
7				
8.				
9				
10.				
11.				
12.				
13.				
14				
15.				
16.				
17.				
18.				
19.				
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26.				
27.				
28.				
29.				
30				

Sample Number
DC-SS-38

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc. Case No: U-4474
Lab Sample ID No: 9804 QC Report No:
Sample Matrix: Soil Contract No: IL-3140
Data Release Authorized By: [signature] Date Sample Received: 11-14-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed: 11-26-86
Conc./Dil Factor: 3 pH 6.3
Percent Moisture. (Not Decanted) 27

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	40B
67-64-1	Acetone	43B
75-15-0	Carbon Disulfide	15u
75-35-4	1,1-Dichloroethene	15u
75-34-3	1,1-Dichloroethane	15u
156-60-5	Trans-1,2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1,2-Dichloroethane	15u
78-93-3	2-Butanone	35B
71-55-6	1,1,1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or (ug/Kg) (Circle One)
78-87-5	1,2-Dichloropropane	15u
10061-02-6	Trans-1,3-Dichloropropene	15u
79-01-6	Trichloroethene	19
124-48-1	Dibromochloromethane	15u
79-00-5	1,1,2-Trichloroethane	15u
71-43-2	Benzene	80
10061-01-5	cis-1,3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	140
591-78-6	2-Hexanone	30u
127-18-4	Tetrachloroethene	15u
79-34-5	1,1,2,2-Tetrachloroethane	15u
108-88-3	Toluene	1400
108-90-7	Chlorobenzene	40
100-41-4	Ethylbenzene	140
100-42-5	Styrene	15u
	Total Xylenes	170

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definitions of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration, dilution, etc. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum analytical detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes must be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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Form I 11/85

Laboratory Name ECOLOGY / ENVIRONMENT INC.

Case No U-4474

Sample Number DC-SS-38

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 11-17-86

Date Analyzed 12-19-86

Conc./Dil Factor: 50

Percent Moisture (Decanted) 27

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
108-95-2	Phenol	11000	U
111-44-4	bis(-2-Chloroethyl)Ether	11000	U
95-57-8	2-Chlorophenol	11000	U
541-73-1	1,3-Dichlorobenzene	11000	U
106-46-7	1,4-Dichlorobenzene	2600	J
100-51-6	Benzyl Alcohol	11000	U
95-50-1	1,2-Dichlorobenzene	11000	U
95-48-7	2-Methylphenol	11000	U
39638-32-9	bis(2-chloroisopropyl)Ether	11000	U
106-44-5	4-Methylphenol	11000	U
621-64-7	N-Nitroso-Di-n-Propylamine	11000	U
67-72-1	Hexachloroethane	11000	U
98-95-3	Nitrobenzene	11000	U
78-59-1	Isophorone	11000	U
88-75-5	2-Nitrophenol	11000	U
105-67-9	2,4-Dimethylphenol	11000	U
65-85-0	Benzoic Acid	55000	U
111-91-1	bis(2-Chloroethoxy)Methane	11000	U
120-83-2	2,4-Dichlorophenol	11000	U
120-82-1	1,2,4-Trichlorobenzene	11000	U
91-20-3	Naphthalene	110,000	
106-47-8	4-Chloroaniline	11000	U
87-68-3	Hexachlorobutadiene	11000	U
59-50-7	4-Chloro-3-Methylphenol	11000	U
91-57-6	2-Methylnaphthalene	850	J
77-47-4	Hexachlorocyclopentadiene	11000	U
88-06-2	2,4,6-Trichlorophenol	11000	U
95-95-4	2,4,5-Trichlorophenol	55000	U
91-58-7	2-Chloronaphthalene	11000	U
88-74-4	2-Nitroaniline	55000	U
131-11-3	Dimethyl Phthalate	11000	U
208-96-8	Acenaphthylene	11000	U
99-09-2	3-Nitroaniline	55000	U

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	11000	U
51-28-5	2,4-Dinitrophenol	55000	U
100-02-7	4-Nitrophenol	55000	U
132-64-9	Dibenzofuran	11000	U
121-14-2	2,4-Dinitrotoluene	11000	U
606-20-2	2,6-Dinitrotoluene	11000	U
84-66-2	Diethylphthalate	11000	U
7005-72-3	4-Chlorophenyl-phenylether	11000	U
86-73-7	Fluorene	11000	U
100-01-6	4-Nitroaniline	55000	U
534-52-1	4,6-Dinitro-2-Methylphenol	55000	U
86-30-6	N-Nitrosodiphenylamine (1)	11000	U
101-55-3	4-Bromophenyl-phenylether	11000	U
118-74-1	Hexachlorobenzene	11000	U
87-86-5	Pentachlorophenol	55000	U
85-01-8	Phenanthrene	11000	U
120-12-7	Anthracene	11000	U
84-74-2	Di-n-Butylphthalate	11000	U
206-44-0	Fluoranthene	11000	U
129-00-0	Pyrene	5800	J
85-68-7	Butylbenzylphthalate	11000	U
91-94-1	3,3'-Dichlorobenzidine	23000	U
56-55-3	Benzo(a)Anthracene	11000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	11000	U
218-01-9	Chrysene	8400	J
117-84-0	Di-n-Octyl Phthalate	11000	U
205-99-2	Benzo(b)Fluoranthene	11000	U
207-08-9	Benzo(k)Fluoranthene	11000	U
50-32-8	Benzo(a)Pyrene	1900	J
193-39-5	Indeno(1,2,3-cd)Pyrene	11000	U
53-70-3	Dibenz(a,h)Anthracene	11000	U
191-24-2	Benzo(g,h,i)Perylene	11000	U

(1)-Cannot be separated from diphenylamine

Laboratory Name ecology and environment, inc.

Case No V-4474

Sample Number DC-SS-38

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration Low Medium (Circle One)

Date Extracted/Prepared 11-17-86

Date Analyzed 12-10-86

Conc/Dil Factor 10x

Percent Moisture (decanted) 26.9

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha BHC	160 u
319-85-7	Beta-BHC	160 u
319-86-8	Delta-BHC	160 u
58-89-9	Gamma-BHC (Lindane)	160 u
76-44-8	Heptachlor	160 u
309-00-2	Aldrin	160 u
1024-57-3	Heptachlor Epoxide	160 u
959-98-8	Endosulfan I	160 u
60-57-1	Dieldrin	320 u
72-55-9	4 4 -DDE	320 u
72-20-8	Endrin	320 u
33213-65-9	Endosulfan II	320 u
72-54-8	4 4 -DDD	320 u
1031-07-8	Endosulfan Sulfate	320 u
50-29-3	4 4 -DDT	320 u
72-43-5	Methoxychlor	1,600 u
53494-70-5	Endrin Ketone	320 u
57-74-9	Chlordane	1,600 u
8001-35-2	Toxaphene	3,200 u
12674-11-2	Aroclor-1016	1,600 u
11104-28-2	Aroclor-1221	1,600 u
11141-16-5	Aroclor-1232	1,600 u
53469-21-9	Aroclor-1242	1,600 u
12672-29-6	Aroclor-1248	1,600 u
11097-69-1	Aroclor 1254	3,200 u
11096-82-5	Aroclor-1260	8,700

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_t 1,000 V_i 4

016

Form 1

7 85
491090

S575

Laboratory Name ecology and environment, inc.

Case No 11-4174

Sample Number DC-SS-38

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number min.	Estimated Concentration (ug/l or ug/kg)
1.	110827	Cyclohexane	VOA	16.3	24 J
2.	96377	Methyl cyclopentane		17.2	8 J
3.		Hexane isomer		21.2	10 J
4.		Unknown alcohol		23.8	67 J
5		Unknown hydrocarbon		25.4	44 J
6.		Unknown hydrocarbon		28.1	8 J
7		Unknown hydrocarbon		28.6	15 J
8.		Unknown hydrocarbon		29.5	18 J
9.	98828	Benzene (1-methylethyl)-		42.1	66 J
10.					
11.	100005	1-CHLORO-4-NITROBENZENE	BNA	14.5	4,000,000 J
12.		UNKNOWN HYDROCARBON		29.2	120000 J
13.		UNKNOWN HYDROCARBON		30.2	140000 J
14		UNKNOWN HYDROCARBON		30.5	52000 J
15.		UNKNOWN HYDROCARBON		31.3	180000 J
16		UNKNOWN HYDROCARBON		31.6	61000 J
17		UNKNOWN HYDROCARBON		32.3	180000 J
18.		UNKNOWN HYDROCARBON		32.6	50000 J
19.		UNKNOWN HYDROCARBON		32.8	75000 J
20.		UNKNOWN HYDROCARBON		33.2	270000 J
21.		UNKNOWN HYDROCARBON		33.5	210000 J
22.		UNKNOWN HYDROCARBON		33.9	52000 J
23.		UNKNOWN HYDROCARBON		34.2	200000 J
24.		UNKNOWN HYDROCARBON		34.4	48000 J
25		UNKNOWN HYDROCARBON		35.0	180000 J
26.		UNKNOWN HYDROCARBON		35.3	80000 J
27.		UNKNOWN HYDROCARBON		35.7	70000 J
28.		UNKNOWN HYDROCARBON		35.9	140000 J
29.		UNKNOWN HYDROCARBON		36.2	50000 J
30		UNKNOWN HYDROCARBON		36.8	140000 J
		UNKNOWN		37.0	120000 J

Sample Number
DC-SS-39

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc Case No: U-4474
Lab Sample ID No: 9805 QC Report No:
Sample Matrix: Soil Contract No: IL-3140
Data Release Authorized By: [signature] Date Sample Received: 11-14-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed: 11-21-86
Conc./Dil Factor: 3 pH 6.9
Percent Moisture (Not Decanted) 23

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	30µ
74-83-9	Bromomethane	30µ
75-01-4	Vinyl Chloride	30µ
75-00-3	Chloroethane	30µ
75-09-2	Methylene Chloride	63 B
67-64-1	Acetone	66 B
75-15-0	Carbon Disulfide	15µ
75-35-4	1,1-Dichloroethene	15µ
75-34-3	1,1-Dichloroethane	15µ
156-60-5	Trans-1,2-Dichloroethene	15µ
67-66-3	Chloroform	15µ
107-06-2	1,2-Dichloroethane	15µ
78-93-3	2-Butanone	59 B
71-55-6	1,1,1-Trichloroethane	15µ
56-23-5	Carbon Tetrachloride	15µ
108-05-4	Vinyl Acetate	30µ
75-27-4	Bromodichloromethane	15µ

CAS Number		ug/l or (ug/Kg) (Circle One)
78-87-5	1,2-Dichloropropane	15µ
10061-02-6	Trans-1,3-Dichloropropene	15µ
79-01-6	Trichloroethene	15µ
124-48-1	Dibromochloromethane	15µ
79-00-5	1,1,2-Trichloroethane	15µ
71-43-2	Benzene	15µ
10061-01-5	cis-1,3-Dichloropropene	15µ
110-75-8	2-Chloroethylvinylether	30µ
75-25-2	Bromoform	15µ
108-10-1	4-Methyl-2-Pentanone	12 J
591-78-6	2-Hexanone	30µ
127-18-4	Tetrachloroethene	15µ
79-34-5	1,1,2,2-Tetrachloroethane	15µ
108-88-3	Toluene	15µ
108-90-7	Chlorobenzene	15µ
100-41-4	Ethylbenzene	15µ
100-42-5	Styrene	15µ
	Total Xylenes	15µ

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definitions of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration, dilution, etc. (This is not necessarily the instrument detection limit.) The footnote should read: U Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If blank if detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/µl in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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Form I 11/85

S577

Sample Number
DC-SS-39-RE

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc Case No: U-4474

Lab Sample ID No: 9805 RE QC Report No:

Sample Matrix: Soil Contract No: IL-3140

Data Release Authorized By: C Stojowicz Date Sample Received: 11-14-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed: 11-26-86

Conc/Dil Factor: 3 pH: 6.9

Percent Moisture. (Not Decanted) 23

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	30 B
67-64-1	Acetone	148 J
75-15-0	Carbon Disulfide	15u
75-35-4	1,1-Dichloroethene	15u
75-34-3	1,1-Dichloroethane	15u
156-60-5	Trans-1,2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1,2-Dichloroethane	15u
78-93-3	2-Butanone	30u
71-55-6	1,1,1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or (ug/Kg) (Circle One)
78-87-5	1,2-Dichloropropane	15u
10061-02-6	Trans-1,3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1,1,2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1,3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	30u
591-78-6	2-Hexanone	30u
127-18-4	Tetrachloroethene	15u
79-34-5	1,1,2,2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
[illegible]	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U flag. (CLP based on necessary concentration, dilution, action. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10 ug/l if limit of detection is 10 ug/l and a concentration of 3 ug/l is obtained, report as 3J.)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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Form I 11/[illegible]

Reviewer: Dieter Average: [illegible]

S578

Laboratory Name ECOLOGY & ENVIRONMENT INC.

Case No U-4474

Sample Number DC-SS-39

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 11-18-86

Date Analyzed 12-23-86

Conc./Dil Factor: 100

Percent Moisture (Decanted) 23

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
108-95-2	Phenol	21000	U
111-44-4	bis(2-Chloroethyl)Ether	21,000	U
95-57-8	2-Chlorophenol	21000	U
541-73-1	1,3-Dichlorobenzene	21000	U
106-46-7	1,4-Dichlorobenzene	21000	U
100-51-6	Benzyl Alcohol	21000	U
95-50-1	1,2-Dichlorobenzene	21000	U
95-48-7	2-Methylphenol	21000	U
39638-32-9	bis(2-chloroisopropyl)Ether	21000	U
106-44-5	4-Methylphenol	21000	U
621-64-7	N-Nitroso-Di-n-Propylamine	21000	U
67-72-1	Hexachloroethane	21000	U
98-95-3	Nitrobenzene	21000	U
78-59-1	Isophorone	21000	U
88-75-5	2-Nitrophenol	21000	U
105-67-9	2,4-Dimethylphenol	21000	U
65-85-0	Benzoic Acid	100,000	U
111-91-1	bis(2-Chloroethoxy)Methane	21000	U
120-83-2	2,4-Dichlorophenol	21000	U
120-82-1	1,2,4-Trichlorobenzene	1800	J
91-20-3	Naphthalene	21000	U
106-47-8	4-Chloroaniline	21000	U
87-68-3	Hexachlorobutadiene	21000	U
59-50-7	4-Chloro-3-Methylphenol	21000	U
91-57-6	2-Methylnaphthalene	21000	U
77-47-4	Hexachlorocyclopentadiene	21000	U
88-06-2	2,4,6-Trichlorophenol	21000	U
95-95-4	2,4,5-Trichlorophenol	100,000	U
91-58-7	2-Chloronaphthalene	21000	U
88-74-4	2-Nitroaniline	100,000	U
131-11-3	Dimethyl Phthalate	21000	U
208-96-8	Acenaphthylene	21000	U
99-09-2	3-Nitroaniline	100,000	U

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	21000	U
51-28-5	2,4-Dinitrophenol	100,000	U
100-02-7	4-Nitrophenol	100,000	U
132-64-9	Dibenzofuran	21000	U
121-14-2	2,4-Dinitrotoluene	21000	U
606-20-2	2,6-Dinitrotoluene	21000	U
84-66-2	Diethylphthalate	21000	U
7005-72-3	4-Chlorophenyl-phenylether	21000	U
86-73-7	Fluorene	21000	U
100-01-6	4-Nitroaniline	100,000	U
534-52-1	4,6-Dinitro-2-Methylphenol	100,000	U
86-30-6	N-Nitrosodiphenylamine (1)	21000	U
101-55-3	4-Bromophenyl-phenylether	21000	U
118-74-1	Hexachlorobenzene	21000	U
87-86-5	Pentachlorophenol	21,000,000	
85-01-8	Phenanthrene	21000	U
120-12-7	Anthracene	21000	U
84-74-2	Di-n-Butylphthalate	21000	U
206-44-0	Fluoranthene	21000	U
129-00-0	Pyrene	21000	U
85-68-7	Butylbenzylphthalate	21000	U
91-94-1	3,3'-Dichlorobenzidine	43000	U
56-55-3	Benzo(a)Anthracene	21000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	21000	U
218-01-9	Chrysene	21000	U
117-84-0	Di-n-Octyl Phthalate	21000	U
205-99-2	Benzo(b)Fluoranthene	21000	U
207-08-9	Benzo(k)Fluoranthene	21000	U
50-32-8	Benzo(a)Pyrene	3900	J
193-39-5	Indeno(1,2,3-cd)Pyrene	21000	U
53-70-3	Dibenzo(a,h)Anthracene	21000	U
191-24-2	Benzo(g,h,i)Perylene	21000	U

(1)-Cannot be separated from diphenylamine

Laboratory Name ecology and environment, inc.

Case No V-4474

Sample Number DC-SS-39

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 11-18-86

Date Analyzed 12-10-86

Conc/Dil Factor 1000

Percent Moisture (decanted) 23

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha BHC	16,000 u
319-85-7	Beta BHC	16,000 u
319-86-8	Delta-BHC	16,000 u
58-89-9	Gamma BHC (Lindane)	16,000 u
76-44-8	Heptachlor	16,000 u
309-00-2	Aldrin	16,000 u
1024-57-3	Heptachlor Epoxide	16,000 u
959-98-8	Endosulfan I	16,000 u
60-57-1	Dieldrin	32,000 u
72-55-9	4,4'-DDE	32,000 u
72-20-8	Endrin	32,000 u
33213-65-9	Endosulfan II	32,000 u
72-54-8	4,4'-DDD	32,000 u
1031-07-8	Endosulfan Sulfate	32,000 u
50-29-3	4,4'-DDT	32,000 u
72-43-5	Methoxychlor	160,000 u
53494-70-5	Endrin Ketone	32,000 u
57-74-9	Chlordane	160,000 u
8001-35-2	Toxaphene	320,000 u
12674-11-2	Aroclor-1016	160,000 u
11104-28-2	Aroclor-1221	160,000 u
11141-16-5	Aroclor-1232	160,000 u
53469-21-9	Aroclor-1242	160,000 u
12672-29-6	Aroclor-1248	160,000 u
11097-69-1	Aroclor-1254	320,000 u
11096-82-5	Aroclor-1260	544,000

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_t 1,000 V_i 4

Laboratory Name [illegible]

Case No U-4474

Sample Number DC-SS-39

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	(RT) or Scan Number min.	Estimated Concentration (ug/l or ug/kg)
1.	No TIC's in VOA fraction			
2.				
3.	UNKNOWN AROMATIC	BNA	23.2	92000 J
4.	UNKNOWN AROMATIC		23.3	41000 J
5.	UNKNOWN AROMATIC		23.5	60000 J
6.	UNKNOWN AROMATIC		23.6	60000 J
7.	UNKNOWN AROMATIC		23.8	32000 J
8.	UNKNOWN AROMATIC		23.9	82000 J
9.	UNKNOWN AROMATIC		24.0	91000 J
10.	UNKNOWN AROMATIC		24.2	120000 J
11.	UNKNOWN AROMATIC		24.3	82000 J
12.	UNKNOWN AROMATIC		24.4	110000 J
13.	UNKNOWN AROMATIC		24.50	100000 J
14.	UNKNOWN AROMATIC		24.7	120000 J
15.	UNKNOWN AROMATIC		24.8	83000 J
16.	UNKNOWN AROMATIC		24.9	86000 J
17.	UNKNOWN AROMATIC		25.6	49000 J
18.	UNKNOWN AROMATIC		25.8	31000 J
19.	UNKNOWN AROMATIC		26.0	44000 J
20.	UNKNOWN AROMATIC		26.3	29000 J
21.	UNKNOWN AROMATIC		26.4	14000 J
22.	UNKNOWN AROMATIC		26.6	7500 J
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Laboratory Name [illegible]

Case No 11-4-171

Sample Number
DC-SS-39-RE

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	(RT) or Scan Number min.	Estimated Concentration (ug/l or ug/kg)
1.	No TIC's in VOA fraction			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
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27.				
28.				
29.				
30.				

Sample Number
DC-SS-40

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc Case No: U-4474
Lab Sample ID No: 9806 QC Report No:
Sample Matrix: Soil Contract No: EL-3140
Data Release Authorized By: [signature] Date Sample Received: 11-14-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed: 11-21-86
Conc./Dil Factor: 3 pH 6.6
Percent Moisture (Not Decanted) 17

CAS Number		ug/L or ug/Kg (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	40B
67-64-1	Acetone	150B
75-15-0	Carbon Disulfide	15u
75-35-4	1,1-Dichloroethene	15u
75-34-3	1,1-Dichloroethane	15u
156-60-5	Trans-1,2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1,2-Dichloroethane	15u
78-93-3	2-Butanone	46B
71-55-6	1,1,1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/L or ug/Kg (Circle One)
78-87-5	1,2-Dichloropropane	15u
10061-02-6	Trans-1,3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1,1,2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1,3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	31
591-78-6	2-Hexanone	30u
127-18-4	Tetrachloroethene	15u
79-34-5	1,1,2,2-Tetrachloroethane	15u
108-88-3	Toluene	33
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U based on necessary concentration, dilution, action. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 ug/L and a concentration of 3 ug/L is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes must be required to properly define the results. If used, they must be fully described, and such description attached to the data summary report.

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Form I 11/85

S583

Sample Number
DC-SS-40-RE

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc
Case No: U-4474
Lab Sample ID No: 9806 RE
QC Report No:
Sample Matrix: Soil
Contract No: EL-3140
Data Release Authorized By: [signature]
Date Sample Received: 11-14-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed: 11-26-86

Conc./Dil Factor: 3 pH: 6.6

Percent Moisture (Not Decanted): 17

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	44B
67-64-1	Acetone	30u
75-15-0	Carbon Disulfide	15u
75-35-4	1,1-Dichloroethene	15u
75-34-3	1,1-Dichloroethane	15u
156-60-5	Trans-1,2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1,2-Dichloroethane	15u
78-93-3	2-Butanone	30u
71-55-6	1,1,1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or (ug/Kg) (Circle One)
78-87-5	1,2-Dichloropropane	15u
10061-02-6	Trans-1,3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1,1,2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1,3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	30u
591-78-6	2-Hexanone	30u
127-18-4	Tetrachloroethene	15u
79-34-5	1,1,2,2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration, dilution, etc. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum sample detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 (e.g. 1 and a concentration of 3 is calculated, report as 3J.

C This flag applies to pesticide/PCB analytes where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the CLP Summary report.

317

Form I

11/85

S584

Laboratory Name [illegible]

Case No U-4474

Sample Number DC-SS-40

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 11-18-86

Date Analyzed 12-22-86

Conc/Dil Factor: 10

Percent Moisture (Decanted) 17

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
108-95-2	Phenol	2000	U
111-44-4	bis(-2-Chloroethyl)Ether	2000	U
95-57-8	2-Chlorophenol	2000	U
541-73-1	1,3-Dichlorobenzene	2000	U
106-46-7	1,4-Dichlorobenzene	2000	U
100-51-6	Benzyl Alcohol	2000	U
95-50-1	1,2-Dichlorobenzene	2000	U
95-48-7	2-Methylphenol	2000	U
39638-32-9	bis(2-chloroisopropyl)Ether	2000	U
106-44-5	4-Methylphenol	2000	U
621-64-7	N-Nitroso-Di-n-Propylamine	2000	U
67-72-1	Hexachloroethane	2000	U
98-95-3	Nitrobenzene	2000	U
78-59-1	Isophorone	2000	U
88-75-5	2-Nitrophenol	2000	U
105-67-9	2,4-Dimethylphenol	2000	U
65-85-0	Benzoic Acid	9600	U
111-91-1	bis(2-Chloroethoxy)Methane	2000	U
120-83-2	2,4-Dichlorophenol	6200	
120-82-1	1,2,4-Trichlorobenzene	2000	U
91-20-3	Naphthalene	140	J
106-47-8	4-Chloroaniline	2000	U
87-68-3	Hexachlorobutadiene	2000	U
59-50-7	4-Chloro-3-Methylphenol	2000	U
91-57-6	2-Methylnaphthalene	2000	U
77-47-4	Hexachlorocyclopentadiene	2000	U
88-06-2	2,4,6-Trichlorophenol	1500	J
95-95-4	2,4,5-Trichlorophenol	9600	U
91-58-7	2-Chloronaphthalene	2000	U
88-74-4	2-Nitroaniline	9600	U
131-11-3	Dimethyl Phthalate	2000	U
208-96-8	Acenaphthylene	2000	U
99-09-2	3-Nitroaniline	9600	U

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	2000	U
51-28-5	2,4-Dinitrophenol	9600	U
100-02-7	4-Nitrophenol	1,000,000	
132-64-9	Dibenzofuran	2000	U
121-14-2	2,4-Dinitrotoluene	2000	U
606-20-2	2,6-Dinitrotoluene	2000	U
84-66-2	Diethylphthalate	2000	U
7005-72-3	4-Chlorophenyl-phenylether	2000	U
86-73-7	Fluorene	2000	U
100-01-6	4-Nitroaniline	9600	U
534-52-1	4,6-Dinitro-2-Methylphenol	9600	U
86-30-6	N-Nitrosodiphenylamine (1)	2000	U
101-55-3	4-Bromophenyl-phenylether	2000	U
118-74-1	Hexachlorobenzene	2000	U
87-86-5	Pentachlorophenol	1100	J
85-01-8	Phenanthrene	920	J
120-12-7	Anthracene	810	J
84-74-2	Di-n-Butylphthalate	880	J
206-44-0	Fluoranthene	2600	
129-00-0	Pyrene	2400	
85-68-7	Butylbenzylphthalate	2000	U
91-94-1	3,3'-Dichlorobenzidine	4000	U
56-55-3	Benzo(a)Anthracene	1400	J
117-81-7	bis(2-Ethylhexyl)Phthalate	2500	
218-01-9	Chrysene	2500	
117-84-0	Di-n-Octyl Phthalate	2000	U
205-99-2	Benzo(b)Fluoranthene	3600	
207-08-9	Benzo(k)Fluoranthene	2000	U
50-32-8	Benzo(a)Pyrene	1700	J
193-39-5	Indeno(1,2,3-cd)Pyrene	2100	
53-70-3	Dibenzo(a,h)Anthracene	530	J
191-24-2	Benzo(g,h,i)Perylene	2400	

(1)-Cannot be separated from diphenylamine

Laboratory Name ecology and environment, inc.

Case No U-4474

Sample Number DC-SS-40

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration Low Medium (Circle One)

Date Extracted/Prepared 11-18-86

Date Analyzed 12-10-86

Conc/Dil Factor 500

Percent Moisture (decanted) 16.9

GPC Cleanup ☐Yes ☐No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	8,000 U
319-85-7	Beta-BHC	8,000 U
319-86-8	Delta-BHC	8,000 U
58-89-9	Gamma-BHC (Lindane)	8,000 U
76-44-8	Heptachlor	8,000 U
309-00-2	Aldrin	8,000 U
1024-57-3	Heptachlor Epoxide	8,000 U
959-98-8	Endosulfan I	8,000 U
60-57-1	Dieldrin	16,000 U
72-55-9	4,4'-DDE	16,000 U
72-20-8	Endrin	16,000 U
33213-65-9	Endosulfan II	16,000 U
72-54-8	4,4'-DDD	16,000 U
1031-07-8	Endosulfan Sulfate	16,000 U
50-29-3	4,4'-DDT	16,000 U
72-43-5	Methoxychlor	80,000 U
53494-70-5	Endrin Ketone	16,000 U
57-74-9	Chlordane	80,000 U
8001-35-2	Toxaphene	160,000 U
12674-11-2	Aroclor-1016	80,000 U
11104-28-2	Aroclor-1221	80,000 U
11141-16-5	Aroclor-1232	80,000 U
53469-21-9	Aroclor-1242	80,000 U
12672-29-6	Aroclor-1248	80,000 U
11097-69-1	Aroclor-1254	119,000 J C
11096-82-5	Aroclor 1260	279,000 C

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_t 1000 V_i 4

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Form 1

7-85
491005

S586

Laboratory Name [illegible] and environmental

Case No [illegible]

Sample Number
DC-SS-40

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	(RT) or Scan Number min.	Estimated Concentration (ug/l or ug/kg)
1.	Hexane isomer	VOA	22.9	19 J
2.	Unknown hydrocarbon	VOA	24.2	13 J
3.				
4.	UNKNOWN AROMATIC	BNA	20.3	7300 J
5	UNKNOWN AROMATIC		20.7	19000 J
6.	UNKNOWN AROMATIC		21.0	14000 J
7	UNKNOWN AROMATIC		21.1	16000 J
8.	UNKNOWN AROMATIC		21.3	27000 J
9.	UNKNOWN AROMATIC		21.6	18000 J
10.	UNKNOWN AROMATIC		21.7	21000 J
11.	UNKNOWN AROMATIC		21.9	5700 J
12.	UNKNOWN AROMATIC		22.8	5200 J
13.	UNKNOWN AROMATIC		24.5	2900 J
14. 57/66/98	2,7-DIMETHYLPHENANTHRENE		24.8	5200 J
15.	PCB		24.9-25.4	—
16.	UNKNOWN		25.8	7100 J
17	PCB		26.4-28.2	—
18.	UNKNOWN AROMATIC		28.4	8300 J
19.	PCB		28.5-	—
20.	UNKNOWN AROMATIC		28.8	13000 J
21.	UNKNOWN AROMATIC		29.0	4900 J
22.	PCB		29.1-29.4	—
23.	UNKNOWN		29.6	3900 J
24	PCB	—	29.8-31.3	—
25				
26.				
27.				
28.				
29.				
30				

Laboratory Name _____

Case No 11-1-1-7-1

Sample Number
DC-SS-40-RE

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	(RT) or Scan Number min.	Estimated Concentration (ug/l or ug/kg)
1.	No TIC's in VOA fraction			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
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27.				
28.				
29.				
30				

Sample Number
DC-SS-41

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc Case No: U-4474
Lab Sample ID No: 9807 QC Report No:
Sample Matrix: Soil Contract No: IL-3140
Data Release Authorized By: [signature] Date Sample Received: 11-14-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed: 11-21-86
Conc./Dil Factor: 3 pH 6.4
Percent Moisture: (Not Decanted) 34

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	37 B
67-64-1	Acetone	41 B
75-15-0	Carbon Disulfide	15u
75-35-4	1,1-Dichloroethene	15u
75-34-3	1,1-Dichloroethane	15u
156-60-5	Trans-1,2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1,2-Dichloroethane	15u
78-93-3	2-Butanone	37 B
71-55-6	1,1,1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1,2-Dichloropropane	15u
10061-02-6	Trans-1,3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1,1,2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1,3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	34
591-78-6	2-Hexanone	30u
127-18-4	Tetrachloroethene	15u
79-34-5	1,1,2,2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration, dilution, etc. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

***C** This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described, and such description attached to the data summary report.

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Form I 11/85

recycled paper

S589

Laboratory Name CHELSEA ENVIRONMENTAL INC.

Case No U-4474

Sample Number DC-SS-41

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 11-18-86

Date Analyzed 12-23-86

Conc/Dil Factor 100

Percent Moisture (Decanted) 34

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	25000 U
111-44-4	bis(2-Chloroethyl)Ether	25000 U
95-57-8	2-Chlorophenol	25000 U
541-73-1	1,3-Dichlorobenzene	25000 U
106-46-7	1,4-Dichlorobenzene	25000 U
100-51-6	Benzyl Alcohol	25000 U
95-50-1	1,2-Dichlorobenzene	25000 U
95-48-7	2-Methylphenol	25000 U
39638-32-9	bis(2-chloroisopropyl)Ether	25000 U
106-44-5	4-Methylphenol	25000 U
621-64-7	N-Nitroso-Di-n-Propylamine	25000 U
67-72-1	Hexachloroethane	25000 U
98-95-3	Nitrobenzene	25000 U
78-59-1	Isophorone	25000 U
88-75-5	2-Nitrophenol	25000 U
105-67-9	2,4-Dimethylphenol	25000 U
65-85-0	Benzoic Acid	120000 U
111-91-1	bis(2-Chloroethoxy)Methane	25000 U
120-83-2	2,4-Dichlorophenol	25000 U
120-82-1	1,2,4-Trichlorobenzene	25000 U
91-20-3	Naphthalene	25000 U
106-47-8	4-Chloroaniline	25000 U
87-68-3	Hexachlorobutadiene	25000 U
59-50-7	4-Chloro-3-Methylphenol	25000 U
91-57-6	2-Methylnaphthalene	25000 U
77-47-4	Hexachlorocyclopentadiene	25000 U
88-06-2	2,4,6-Trichlorophenol	25000 U
95-95-4	2,4,5-Trichlorophenol	120000 U
91-58-7	2-Chloronaphthalene	25000 U
88-74-4	2-Nitroaniline	120000 U
131-11-3	Dimethyl Phthalate	25000 U
208-96-8	Acenaphthylene	25000 U
99-09-2	3-Nitroaniline	120000 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	25000 U
51-28-5	2,4-Dinitrophenol	120000 U
100-02-7	4-Nitrophenol	120000 U
132-64-9	Dibenzofuran	25000 U
121-14-2	2,4-Dinitrotoluene	25000 U
606-20-2	2,6-Dinitrotoluene	25000 U
84-66-2	Diethylphthalate	25000 U
7005-72-3	4-Chlorophenyl-phenylether	25000 U
86-73-7	Fluorene	25000 U
100-01-6	4-Nitroaniline	120000 U
534-52-1	4,6-Dinitro-2-Methylphenol	120000 U
86-30-6	N-Nitrosodiphenylamine (1)	25000 U
101-55-3	4-Bromophenyl-phenylether	25000 U
118-74-1	Hexachlorobenzene	25000 U
87-86-5	Pentachlorophenol	120000 U
85-01-8	Phenanthrene	25000 U
120-12-7	Anthracene	25000 U
84-74-2	Di-n-Butylphthalate	25000 U
206-44-0	Fluoranthene	25000 U
129-00-0	Pyrene	25000 U
85-68-7	Butylbenzylphthalate	25000 U
91-94-1	3,3'-Dichlorobenzidine	50000 U
56-55-3	Benzo(a)Anthracene	25000 U
117-81-7	bis(2-Ethylhexyl)Phthalate	25000 U
218-01-9	Chrysene	25000 U
117-84-0	Di-n-Octyl Phthalate	25000 U
205-99-2	Benzo(b)Fluoranthene	25000 U
207-08-9	Benzo(k)Fluoranthene	25000 U
50-32-8	Benzo(a)Pyrene	25000 U
193-39-5	Indeno(1,2,3-cd)Pyrene	25000 U
53-70-3	Dibenz(a,h)Anthracene	25000 U
191-24-2	Benzo(g,h,i)Perylene	25000 U

(1)-Cannot be separated from diphenylamine

Laboratory Name ecology and environment, inc.

Case No V-4474

Sample Number DC-SS-41

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 11-18-86

Date Analyzed 12-10-86

Conc/Dil Factor 200

Percent Moisture (decanted) 34.3

GPC Cleanup ☐Yes ☐No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or (ug/Kg) (Circle One)
319-84-6	Alpha-BHC	3,200U
319-85-7	Beta-BHC	3,200U
319-86-8	Delta-BHC	3,200U
58-89-9	Gamma-BHC (Lindane)	3,200U
76-44-8	Heptachlor	3,200U
309-00-2	Aldrin	3,200U
1024-57-3	Heptachlor Epoxide	3,200U
959-98-8	Endosulfan I	3,200U
60-57-1	Dieldrin	6,400U
72-55-9	4,4'-DDE	6,400U
72-20-8	Endrin	6,400U
33213-65-9	Endosulfan II	6,400U
72-54-8	4,4'-DDD	6,400U
1031-07-8	Endosulfan Sulfate	6,400U
50-29-3	4,4'-DDT	6,400U
72-43-5	Methoxychlor	32,000U
53494-70-5	Endrin Ketone	6,400U
57-74-9	Chlordane	32,000U
8001-35-2	Toxaphene	64,000U
12674-11-2	Aroclor-1016	32,000U
11104-28-2	Aroclor-1221	32,000U
11141-16-5	Aroclor-1232	32,000U
53469-21-9	Aroclor-1242	32,000U
12672-29-6	Aroclor-1248	26,600J
11097-69-1	Aroclor-1254	64,000U
11096-82-5	Aroclor-1260	85,800

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_t 1,000 V_i 4

Form 1

7 85
491095

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Case No. [illegible]

Sample Number: DC-SS-41

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min.	Estimated Concentration (ug/l or ug/kg)
1. 79209	Acetic acid, methyl ester	VOA	11.3	52 J
2	Hexene isomer		18.0	47 J
3	Hexene isomer		18.8	170 J
4	Hexene isomer		19.5	7 J
5	Unknown hydrocarbon		19.9	22 J
6	Unknown alcohol		23.8	14 J
7	Unknown hydrocarbon		24.3	13 J
8	Unknown hydrocarbon		24.7	12 J
9				
10	UNKNOWN AROMATIC	BNA	19.8	52000 J
11	UNKNOWN AROMATIC		20.0	69000 J
12	UNKNOWN AROMATIC		20.1	54000 J
13	UNKNOWN AROMATIC		20.2	210000 J
14	UNKNOWN AROMATIC		20.4	50000 J
15	UNKNOWN AROMATIC		20.5	100000 J
16	UNKNOWN AROMATIC		20.7	610000 J
17	UNKNOWN AROMATIC		20.8	230000 J
18	UNKNOWN AROMATIC		20.9	390000 J
19	UNKNOWN AROMATIC		21.0	470000 J
20	UNKNOWN AROMATIC		21.2	720000 J
21	UNKNOWN AROMATIC		21.3	150000 J
22	DIMETHYL DECYL BENZENE		21.5	450000 J
23	UNKNOWN AROMATIC		21.6	360000 J
24	UNKNOWN AROMATIC		21.8	240000 J
25	UNKNOWN AROMATIC		22.1	54000 J
26	UNKNOWN		22.4	77000 J
27	UNKNOWN AROMATIC		22.7	52000 J
28	UNKNOWN		24.4	110000 J
29	UNKNOWN		25.7	120000 J
30				

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Form I Part B

S592

Sample Number
DC-SS-42

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc Case No: U-4474
Lab Sample ID No: 9808 QC Report No:
Sample Matrix: Soil Contract No: IL-3140
Data Release Authorized By: [illegible] Date Sample Received: 11-14-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed: 11-21-86
Conc/Dil Factor: 3 pH 7.2
Percent Moisture (Not Decanted) 20

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	60 B
67-64-1	Acetone	58 B
75-15-0	Carbon Disulfide	15u
75-35-4	1,1-Dichloroethene	15u
75-34-3	1,1-Dichloroethane	15u
156-60-5	Trans-1,2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1,2-Dichloroethane	15u
78-93-3	2-Butanone	39 B
71-55-6	1,1,1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1,2-Dichloropropane	15u
10061-02-6	Trans-1,3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1,1,2-Trichloroethane	15u
71-43-2	Benzene	15u
10061-01-5	cis-1,3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	30u
591-78-6	2-Hexanone	30u
127-18-4	Tetrachloroethene	15u
79-34-5	1,1,2,2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration, dilution, etc. (This is not necessarily the instrument detection limit.) The footnote should read: U Compound was analyzed for but not detected. The number is the minimum reportable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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S593

Laboratory Name CHECKOT ENVIRONMENT INC.

Case No U-4474

Sample Number DC-SS-42

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 11-18-86

Date Analyzed 12-22-86

Conc./Dil Factor 10

Percent Moisture (Decanted) 20

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
108-95-2	Phenol	2100	U
111-44-4	bis(2-Chloroethyl)Ether	2100	U
95-57-8	2-Chlorophenol	2100	U
541-73-1	1,3-Dichlorobenzene	2100	U
106-46-7	1,4-Dichlorobenzene	2100	U
100-51-6	Benzyl Alcohol	2100	U
95-50-1	1,2-Dichlorobenzene	2100	U
95-48-7	2-Methylphenol	2100	U
39638-32-9	bis(2-chloroisopropyl)Ether	2100	U
106-44-5	4-Methylphenol	2100	U
621-64-7	N-Nitroso-Di-n-Propylamine	2100	U
67-72-1	Hexachloroethane	2100	U
98-95-3	Nitrobenzene	2100	U
78-59-1	Isophorone	2100	U
88-75-5	2-Nitrophenol	2100	U
105-67-9	2,4-Dimethylphenol	2100	U
65-85-0	Benzoic Acid	10000	U
111-91-1	bis(2-Chloroethoxy)Methane	2100	U
120-83-2	2,4-Dichlorophenol	2100	U
120-82-1	1,2,4-Trichlorobenzene	2100	U
91-20-3	Naphthalene	290	J
106-47-8	4-Chloroaniline	2100	U
87-68-3	Hexachlorobutadiene	2100	U
59-50-7	4-Chloro-3-Methylphenol	2100	U
91-57-6	2-Methylnaphthalene	2100	U
77-47-4	Hexachlorocyclopentadiene	2100	U
88-06-2	2,4,6-Trichlorophenol	2100	U
95-95-4	2,4,5-Trichlorophenol	10000	U
91-58-7	2-Chloronaphthalene	2100	U
88-74-4	2-Nitroaniline	10000	U
131-11-3	Dimethyl Phthalate	2100	U
208-96-8	Acenaphthylene	2100	U
99-09-2	3-Nitroaniline	10000	U

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	2100	U
51-28-5	2,4-Dinitrophenol	10000	U
100-02-7	4-Nitrophenol	10000	U
132-64-9	Dibenzofuran	2100	U
121-14-2	2,4-Dinitrotoluene	2100	U
606-20-2	2,6-Dinitrotoluene	2100	U
84-66-2	Diethylphthalate	2100	U
7005-72-3	4-Chlorophenyl-phenylether	2100	U
86-73-7	Fluorene	2100	U
100-01-6	4-Nitroaniline	10000	U
534-52-1	4,6-Dinitro-2-Methylphenol	10000	U
86-30-6	N-Nitrosodiphenylamine (1)	2100	U
101-55-3	4-Bromophenyl-phenylether	2100	U
118-74-1	Hexachlorobenzene	2100	U
87-86-5	Pentachlorophenol	20000	
85-01-8	Phenanthrene	2100	U
120-12-7	Anthracene	2100	U
84-74-2	Di-n-Butylphthalate	2100	U
206-44-0	Fluoranthene	2100	U
129-00-0	Pyrene	2100	U
85-68-7	Butylbenzylphthalate	2100	U
91-94-1	3,3'-Dichlorobenzidine	4100	U
56-55-3	Benzo(a)Anthracene	2100	U
117-81-7	bis(2-Ethylhexyl)Phthalate	2100	U
218-01-9	Chrysene	2100	U
117-84-0	Di-n-Octyl Phthalate	2100	U
205-99-2	Benzo(b)Fluoranthene	2100	U
207-08-9	Benzo(k)Fluoranthene	750	J
50-32-8	Benzo(a)Pyrene	180	J
193-39-5	Indeno(1,2,3-cd)Pyrene	2100	U
53-70-3	Dibenz(a,h)Anthracene	2100	U
191-24-2	Benzo(g,h,i)Perylene	2100	U

(1)-Cannot be separated from diphenylamine

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Form I

7/85

S594

Laboratory Name ecology and environment, inc.

Case No V-4474

Sample Number DC-SS-42

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 11-18-86

Date Analyzed 12-10-86

Conc/Dil Factor 100

Percent Moisture (decanted) 20.3

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha BHC	1600 u
319-85-7	Beta BHC	1,600 u
319-86-8	Delta-BHC	1,600 u
58-89-9	Gamma BHC (Lindane)	1,600 u
76-44-8	Heptachlor	1,600 u
309-00-2	Aldrin	1,600 u
1024-57-3	Heptachlor Epoxide	1,600 u
959-98-8	Endosulfan I	1,600 u
60-57-1	Dieldrin	3,200 u
72-55-9	4,4'-DDE	3,200 u
72-20-8	Endrin	3,200 u
33213-65-9	Endosulfan II	3,200 u
72-54-8	4,4'-DDD	3,200 u
1031-07-8	Endosulfan Sulfate	3,200 u
50-29-3	4,4'-DDT	3,200 u
72-43-5	Methoxychlor	16,000 u
53494-70-5	Endrin Ketone	3,200 u
57-74-9	Chlordane	16,000 u
8001-35-2	Toxaphene	32,000 u
12674-11-2	Aroclor-1016	16,000 u
11104-28-2	Aroclor-1221	16,000 u
11141-16-5	Aroclor-1232	16,000 u
53469-21-9	Aroclor-1242	16,000 u
12672-29-6	Aroclor-1248	16,000 u
11097-69-1	Aroclor-1254	32,000 u
11096-82-5	Aroclor-1260	52,800

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_t 1000 V_i 4

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Form 1

S595

Laboratory Name [illegible]

Case No 4-4474

Sample Number DC-SS-42

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	(RT) or Scan Number min.	Estimated Concentration (ug/l or ug/kg)
1.	No TIC's in VOA fraction			
2.				
3.	UNKNOWN AROMATIC	BNA	19.7	35000 J
4.	UNKNOWN AROMATIC		19.9	31000 J
5.	UNKNOWN AROMATIC		20.0	52000 J
6.	UNKNOWN AROMATIC		20.2	57000 J
7.	UNKNOWN AROMATIC		20.4	71000 J
8.	UNKNOWN AROMATIC		20.5	24000 J
9.	UNKNOWN AROMATIC		20.8	220000 J
10.	UNKNOWN AROMATIC		20.9	57000 J
11.	UNKNOWN AROMATIC		21.0	62000 J
12.	UNKNOWN AROMATIC		21.1	96000 J
13.	UNKNOWN AROMATIC		21.4	140000 J
14.	UNKNOWN AROMATIC		21.5	40000 J
15.	UNKNOWN AROMATIC		21.7	93000 J
16.	DIMETHYL DEYL BENZENE		21.8	62000 J
17.	UNKNOWN AROMATIC		21.9	37000 J
18.	UNKNOWN AROMATIC		22.2	20000 J
19.	UNKNOWN AROMATIC		22.8	18000 J
20.	UNKNOWN AROMATIC		23.2	17000 J
21.	UNKNOWN AROMATIC		23.4	13000 J
22.	UNKNOWN AROMATIC		23.7	13000 J
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

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S596

Sample Number
DC-SS-43

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment, Inc Case No: U-4474
Lab Sample ID No: 9809 QC Report No:
Sample Matrix: Soil Contract No: IL-3140
Data Release Authorized By: [signature] Date Sample Received: 11-14-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed: 11-26-86
Conc./Dil Factor: 3 pH 7.3
Percent Moisture (Not Decanted) 22

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	30u
74-83-9	Bromomethane	30u
75-01-4	Vinyl Chloride	30u
75-00-3	Chloroethane	30u
75-09-2	Methylene Chloride	29 B
67-64-1	Acetone	21 B J
75-15-0	Carbon Disulfide	15u
75-35-4	1, 1-Dichloroethene	15u
75-34-3	1, 1-Dichloroethane	15u
156-60-5	Trans-1, 2-Dichloroethene	15u
67-66-3	Chloroform	15u
107-06-2	1, 2-Dichloroethane	15u
78-93-3	2-Butanone	40 B
71-55-6	1, 1, 1-Trichloroethane	15u
56-23-5	Carbon Tetrachloride	15u
108-05-4	Vinyl Acetate	30u
75-27-4	Bromodichloromethane	15u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	15u
10061-02-6	Trans-1, 3-Dichloropropene	15u
79-01-6	Trichloroethene	15u
124-48-1	Dibromochloromethane	15u
79-00-5	1, 1, 2-Trichloroethane	15u
71-43-2	Benzene	4 J
10061-01-5	cis-1, 3-Dichloropropene	15u
110-75-8	2-Chloroethylvinylether	30u
75-25-2	Bromoform	15u
108-10-1	4-Methyl-2-Pentanone	30u
591-78-6	2-Hexanone	30u
127-18-4	Tetrachloroethene	15u
79-34-5	1, 1, 2, 2-Tetrachloroethane	15u
108-88-3	Toluene	15u
108-90-7	Chlorobenzene	15u
100-41-4	Ethylbenzene	15u
100-42-5	Styrene	15u
	Total Xylenes	15u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration, dilution, action. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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Form I 11/85

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S597

Laboratory Name [illegible]

Case No U-4474

Sample Number DC-SS-43

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 11-18-86

Date Analyzed 12-22-86

Conc./Dil Factor 10

Percent Moisture (Decanted) 22

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
108-95-2	Phenol	2100	U
111-44-4	bis(2-Chloroethyl)Ether	2100	U
95-57-8	2-Chlorophenol	2100	U
541-73-1	1,3-Dichlorobenzene	2100	U
106-46-7	1,4-Dichlorobenzene	210	J
100-51-6	Benzyl Alcohol	2100	U
95-50-1	1,2-Dichlorobenzene	2100	U
95-48-7	2-Methylphenol	2100	U
39638-32-9	bis(2-chloroisopropyl)Ether	2100	U
106-44-5	4-Methylphenol	2100	U
621-64-7	N-Nitroso-Di-n-Propylamine	2100	U
67-72-1	Hexachloroethane	2100	U
98-95-3	Nitrobenzene	2100	U
78-59-1	Isophorone	2100	U
88-75-5	2-Nitrophenol	2100	U
105-67-9	2,4-Dimethylphenol	2100	U
65-85-0	Benzoic Acid	10000	U
111-91-1	bis(2-Chloroethoxy)Methane	2100	U
120-83-2	2,4-Dichlorophenol	2100	U
120-82-1	1,2,4-Trichlorobenzene	2100	U
91-20-3	Naphthalene	110	J
106-47-8	4-Chloroaniline	2100	U
87-68-3	Hexachlorobutadiene	2100	U
59-50-7	4-Chloro-3-Methylphenol	2100	U
91-57-6	2-Methylnaphthalene	2100	U
77-47-4	Hexachlorocyclopentadiene	2100	U
88-06-2	2,4,6-Trichlorophenol	2100	U
95-95-4	2,4,5-Trichlorophenol	10000	U
91-58-7	2-Chloronaphthalene	2100	U
88-74-4	2-Nitroaniline	10000	U
131-11-3	Dimethyl Phthalate	2100	U
208-96-8	Acenaphthylene	2100	U
99-09-2	3-Nitroaniline	10000	U

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	770	J
51-28-5	2,4-Dinitrophenol	10000	U
100-02-7	4-Nitrophenol	10000	U
132-64-9	Dibenzofuran	460	J
121-14-2	2,4-Dinitrotoluene	2100	U
606-20-2	2,6-Dinitrotoluene	2100	U
84-66-2	Diethylphthalate	2100	U
7005-72-3	4-Chlorophenyl-phenylether	2100	U
86-73-7	Fluorene	1500	J
100-01-6	4-Nitroaniline	10000	U
534-52-1	4,6-Dinitro-2-Methylphenol	10000	U
86-30-6	N-Nitrosodiphenylamine (1)	2100	U
101-55-3	4-Bromophenyl-phenylether	2100	U
118-74-1	Hexachlorobenzene	2100	U
87-86-5	Pentachlorophenol	25000	
85-01-8	Phenanthrene	15000	
120-12-7	Anthracene	4100	
84-74-2	Di-n-Butylphthalate	2100	U
206-44-0	Fluoranthene	20000	
129-00-0	Pyrene	19000	
85-68-7	Butylbenzylphthalate	2100	U
91-94-1	3,3'-Dichlorobenzidine	4200	U
56-55-3	Benzo(a)Anthracene	10000	
117-81-7	bis(2-Ethylhexyl)Phthalate	2100	U
218-01-9	Chrysene	10000	
117-84-0	Di-n-Octyl Phthalate	2100	U
205-99-2	Benzo(b)Fluoranthene	15000	
207-08-9	Benzo(k)Fluoranthene	2100	U
50-32-8	Benzo(a)Pyrene	7800	
193-39-5	Indeno(1,2,3-cd)Pyrene	5200	
53-70-3	Dibenz(a,h)Anthracene	1500	J
191-24-2	Benzo(g,h,i)Perylene	5400	

(1)-Cannot be separated from diphenylamine

Laboratory Name ecology and environment, inc.

Case No V-4474

Sample Number DC-SS-43

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 11-18-86

Date Analyzed 12-10-86

Conc/Dil Factor 50

Percent Moisture (decanted) ~~44.6~~ 22

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	800 U
319-85-7	Beta-BHC	800 U
319-86-8	Delta-BHC	800 U
58-89-9	Gamma-BHC (Lindane)	800 U
76-44-8	Heptachlor	800 U
309-00-2	Aldrin	800 U
1024-57-3	Heptachlor Epoxide	800 U
959-98-8	Endosulfan I	800 U
60-57-1	Dieldrin	1600 U
72-55-9	4,4'-DDE	1600 U
72-20-8	Endrin	1600 U
33213-65-9	Endosulfan II	1600 U
72-54-8	4,4'-DDD	1600 U
1031-07-8	Endosulfan Sulfate	1600 U
50-29-3	4,4'-DDT	1600 U
72-43-5	Methoxychlor	8,000 U
53494-70-5	Endrin Ketone	1,600 U
57-74-9	Chlordane	8,000 U
8001-35-2	Toxaphene	16,000 U
12674-11-2	Aroclor-1016	8,000 U
11104-28-2	Aroclor-1221	8,000 U
11141-16-5	Aroclor-1232	8,000 U
53469-21-9	Aroclor-1242	8,000 U
12672-29-6	Aroclor-1248	17,000
11097-69-1	Aroclor-1254	16,000 U
11096-82-5	Aroclor-1260	30,100

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30 V_t 1000 V_i 4

335

Form 1

7 85
431095

recycled paper

S599

Laboratory Name [illegible]

Case No [illegible]

Sample Number
DC-SS-43

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	(RT) or Scan Number min.	Estimated Concentration (ug/l or ug/kg)
1.		No TIC's in VOA fraction			
2.					
3.	100005	1-CHLORO-4-NITROBENZENE	BNA	14.2	4500 J
4.		UNKNOWN AROMATIC		20.7	1300 J
5.		UNKNOWN AROMATIC		21.6	1200 J
6.	832644	4-METHYLPHENANTHRENE		24.2	1400 J
7.	613127	2-METHYLANTHRACENE		24.3	1800 J
8.		UNKNOWN		24.5	2000 J
9.		UNKNOWN		27.0	3200 J
10.	238217	1-METHYLPYRENE		28.1	2600 J
11.					
12.					
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