D.2
N.D

L1631210002--St. Clair Co.
P.T.s Showclub
ILD984809295
Superfund/HRS

153482

CERCLA
Screening Site Inspection Analytical Results

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

Confidential Material May be Enclosed

Printed on Recycled Paper

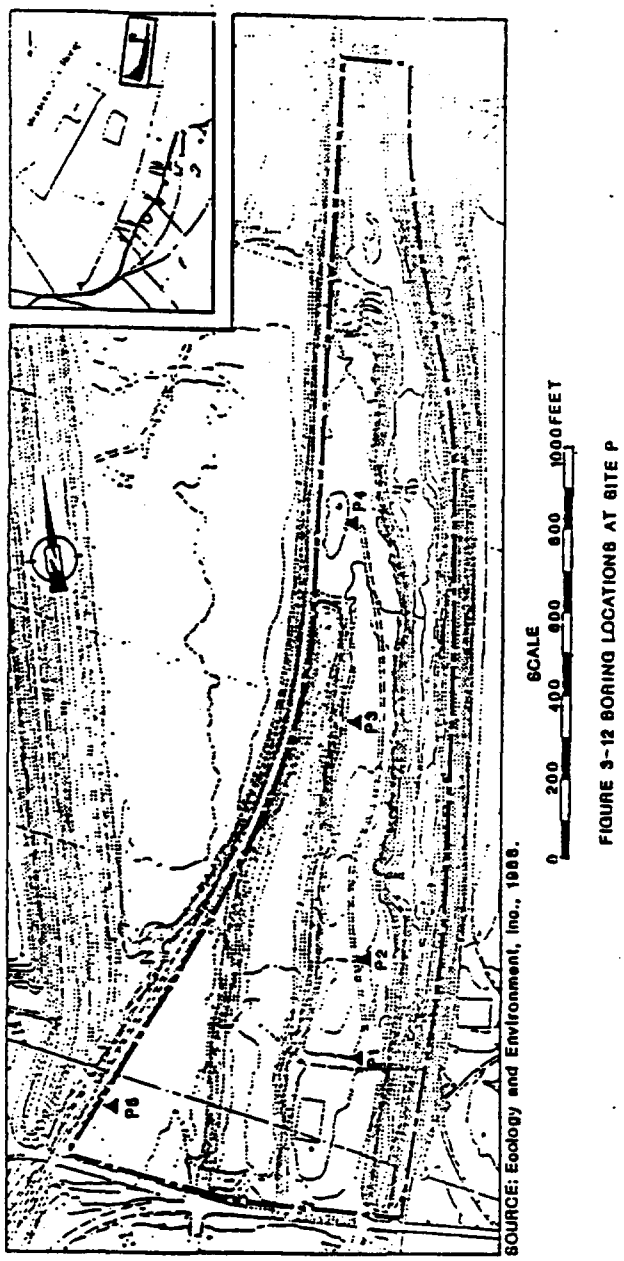

FIGURE 3-1
Sample Location Map

TABLE 3-3
SAMPLE SUMMARY

PT's Showclub ILD984809295				
SAMPLING POINT	P5-56 2-12-87	P1-53 2-11-87	P2-54 2-11-87	P5-55 2-12-87
PARAMETER	Background			
VOLATILES (PPB)				
Chloroform	5.0 U	10.0	--	--
2-Butanone (MEK)	21.0 B	150.0 B	64.0 B	
Benzene	5.0 U	39.0	--	--
4-Methyl-2-Pentanone	10.0 U	39.0	24.0 B	--
2-Hexanone	10.0 U	30.0	2.0 BJ	--
Toluene	5.0 U	330.0	--	--
Chlorobenzene	5.0 U	110.0	--	--
Ethylbenzene	5.0 U	95.0	--	--
Xylene(total)	5.0 U	360.0	--	--
2-Butanol	UNKNOWN>TIC	77.0 J		
TICs		6.0	4.0	1.0
SEMIVOLATILES (PPB)				
Phenol	330.0 U	3100.0 J	--	--
1,4-Dichlorobenzene	330.0 U	7100.0 J	--	--
1,2-Dichlorobenzene	330.0 U	2900.0 J	--	--
Di-n-Butylphthalate	260.0 J	13000.0 J		
bis(2-Ethylhexyl)phthalate	180.0 J	--	--	--
Tridecane	UNKNOWN>TIC	130000.0 J	--	--
Hexadecane	UNKNOWN>TIC	150000.0 J	--	--
5-Propyl-tridecane	UNKNOWN>TIC	140000.0 J	--	--
Molecular Sulfur	UNKNOWN>TIC	85000.0 J	290.0 J	--
2,3-Dimethyl Undecane	UNKNOWN>TIC	--	470.0 J	--
Hexadecane	UNKNOWN>TIC	--	560.0 J	--
TICs	0.0	16.0	10.0	0.0
INORGANICS (PPM)				
Cadmium	1.0 U	3.1	--	--
Lead	72.0 *	--	3.0 *	426.0 *
Mercury	0.1 U	3.1	54.0	--
Zinc	59.0 *	370.0 *		
Cyanide	1.0 U	--	11.0	12.0

SITE PRIORITY STATUS RECOMMENDATION

The author of this report recommends that the PT's Showclub (Sauget-Monsanto Landfill or Site P) located in Sauget, Illinois (ILD984809295) be assigned a medium priority status rating. And that Region V offices of the USEPA task the State of Illinois to conduct an expanded site inspection as soon as possible. This recommendation is based upon the results of the screening site inspection performed in February, 1986 and the fact that the site may be adversely impacting groundwater supplies in the area.

Results of soil boring samples revealed the presence of elevated levels of volatiles, semi-volatiles and metals. The possible leaching of these substances into groundwater and surface run-off may adversely affected wetland areas located on-site. Groundwater, discharging to local discharge zones in the area, may be adversely affected by contamination from the site.

The probability that contaminants existing on the surface, due to the presence of cinders and ash, which were used as cover, would impact the air pathway and potentially cause harm to employees and patrons of the establishment located on-site, as well as those within a four-mile radius of the site is of concern.

The site is located near an area of heavy industry/mixed commercial use within the village of Sauget, Illinois. The site is bounded by the Illinois Central Gulf and Terminal Railroad Association Railroads along the eastern and western boundaries of the site. The two tracks converge and form the northern boundary of the site, creating a triangularly-shaped area. The site is bounded to the south by Monsanto Avenue.

Access to the site has not been restricted, except to vehicular access north of the nightclub. There are no residences, schools or daycares located within 200 feet of the site. There is a series of buildings (connected) located to the east of the railroad tracks bordering the site along the eastern boundary. Use of these buildings is unknown.

JC - P1-53

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ecology and environment, inc.

Case No: U-4906, 4928, 4971, 4989.

Lab Sample ID No: 1032

QC Report No:

Sample Matrix: Soil

Contract No: IL-3140

Data Release Authorized By: C Szytowicz

Date Sample Received: 2-14-87

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed: 2-20-87

Conc/Dil Factor: 1 pH 10.2

Percent Moisture: (Not Decanted) 20

Concentrations reported "as received"

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
00-3	Chloroethane	10u
75-09-2	Methylene Chloride	14 B
67-64-1	Acetone	820 BE
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	5u
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	10
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone	150 B
71-55-6	1, 1, 1-Trichloroethane	5u
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	5u
10061-02-6	Trans-1, 3-Dichloropropene	5u
79-01-6	Trichloroethene	5u
124-48-1	Dibromochloromethane	5u
79-00-5	1, 1, 2-Trichloroethane	5u
71-43-2	Benzene	39
10061-01-5	cis-1, 3-Dichloropropene	5u
110-75-8	2-Chloroethylvinylether	10u
75-25-2	Bromoform	5u
108-10-1	4-Methyl-2-Pentanone	39
591-78-6	2-Hexanone	30
127-18-4	Tetrachloroethene	5u
79-34-5	1, 1, 2, 2-Tetrachloroethane	5u
108-88-3	Toluene	330
108-90-7	Chlorobenzene	110
100-41-4	Ethylbenzene	95
100-42-5	Styrene	5u
	Total Xylenes	360

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

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Sample 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.

E This flag indicates an approximate concentration. The amount detected in the analysis exceeds the

Laboratory Name Ecology & Environment, Inc

Case No IL-3140

Sample Number
DC-P1-53

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 2-16-87

Date Analyzed: 03-05-87

Conc/Dil Factor: 100

Percent Moisture (Decanted) 20

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

Concentrations reported "as received" basis

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	3100 J
111-44-4	bis(-2-Chloroethyl)Ether	16000u
95-57-8	2-Chlorophenol	16000u
541-73-1	1 3-Dichlorobenzene	16000u
106-46-7	1. 4-Dichlorobenzene	7100 J
100-51-6	Benzyl Alcohol	16000u
-50-1	1. 2-Dichlorobenzene	2900 J
95-48-7	2-Methylphenol	16000u
39638-32-9	bis(2-chloroisopropyl)Ether	16000u
106-44-5	4-Methylphenol	16000u
621-64-7	N-Nitroso-Di-n-Propylamine	16000u
67-72-1	Hexachloroethane	16000u
98-95-3	Nitrobenzene	16000u
78-59-1	Isophorone	16000u
88-75-5	2-Nitrophenol	16000u
105-67-9	2. 4-Dimethylphenol	16000u
65-85-0	Benzoic Acid	80000u
111-91-1	bis(-2-Chloroethoxy)Methane	16000u
120-83-2	2. 4-Dichlorophenol	16000u
120-82-1	1 2. 4-Trichlorobenzene	16000u
91-20-3	Naphthalene	16000u
106-47-8	4-Chloroaniline	16000u
87-68-3	Hexachlorobutadiene	16000u
59-50-7	4-Chloro-3-Methylphenol	16000u
91-57-6	2-Methylnaphthalene	16000u
77-47-4	Hexachlorocyclopentadiene	16000u
88-06-2	2 4 6-Trichlorophenol	16000u
95-95-4	2. 4 5-Trichlorophenol	80000u
91-58-7	2-Chloronaphthalene	16000u
-74-4	2-Nitroaniline	80000u
-11-3	Dimethyl Phthalate	16000u
208-96-8	Acenaphthylene	16000u
99-09-2	3-Nitroaniline	80000u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	16000u
51-28-5	2. 4-Dinitrophenol	80000u
100-02-7	4-Nitrophenol	80000u
132-64-9	Dibenzofuran	16000u
121-14-2	2 4-Dinitrotoluene	16000u
606-20-2	2. 6-Dinitrotoluene	16000u
84-66-2	Diethylphthalate	16000u
7005-72-3	4-Chlorophenyl-phenylether	16000u
86-73-7	Fluorene	16000u
100-01-6	4-Nitroaniline	80000u
534-52-1	4. 6-Dinitro-2-Methylphenol	80000u
86-30-6	N-Nitrosodiphenylamine (1)	16000u
101-55-3	4-Bromophenyl-phenylether	16000u
118-74-1	Hexachlorobenzene	16000u
87-86-5	Pentachlorophenol	80000u
85-01-8	Phenanthrene	16000u
120-12-7	Anthracene	16000u
84-74-2	Di-n-Butylphthalate	13000 J
206-44-0	Fluoranthene	16000u
129-00-0	Pyrene	16000u
85-68-7	Butylbenzylphthalate	16000u
91-94-1	3. 3'-Dichlorobenzidine	32000u
56-55-3	Benzo(a)Anthracene	16000u
117-81-7	bis(2-Ethylhexyl)Phthalate	16000u
218-01-9	Chrysene	16000u
117-84-0	Di-n-Octyl Phthalate	16000u
205-99-2	Benzo(b)Fluoranthene	16000u
207-08-9	Benzo(k)Fluoranthene	16000u
50-32-8	Benzo(a)Pyrene	16000u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	16000u
53-70-3	Dibenz(a, h)Anthracene	16000u
191-24-2	Benzo(g, h, i)Perylene	16000u

(1)-Cannot be separated from diphenylamine

Laboratory Name ecology and environment, inc.

Case No V-4906, 4928, 4971, 4989

Sample Number DC-P1-53

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 2-16-87

Date Analyzed 2-23-87

Conc/Dil Factor 50

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)
319-84-6	Alpha-BHC	4000 u
319-85-7	Beta-BHC	4000 u
319-86-8	Delta-BHC	4000 u
58-89-9	Gamma-BHC (Lindane)	4000 u
76-44-8	Heptachlor	4000 u
309-00-2	Aldrin	4000 u
1024-57-3	Heptachlor Epoxide	4000 u
959-98-8	Endosulfan I	4000 u
60-57-1	Dieldrin	8000 u
72-55-9	4,4'-DDE	8000 u
72-20-8	Endrin	8000 u
33213-65-9	Endosulfan II	8000 u
72-54-8	4,4'-DDD	8000 u
1031-07-8	Endosulfan Sulfate	8000 u
50-29-3	4,4'-DDT	8000 u
72-43-5	Methoxychlor	40,000 u
53494-70-5	Endrin Ketone	8000 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	80,000 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 3 V_t 1,000 V_i 4

Form 1

7 85
49109

Laboratory Name Ecology & Environment Inc.

Case No U-4906, 4928, 4971, 4989

Sample Number DC-P1-53

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. 14898794	2-Butanol	VOA	15.4	77 J
2.	Unknown hydrocarbon	VOA	16.7	120 J
3.	Hexene isomer	VOA	17.1	398 J
4.	Hexene isomer	VOA	19.2	14 J
5.	Unknown hydrocarbon	VOA	28.2	21 J
6.	Hexane isomer	VOA	21.2	100 BJ
7.	Unknown hydrocarbon	VOA	35.9	40 J
8.				
9.				
10. 629505	Tridecane	BNA	18.98	130,000 J
11	Unknown hydrocarbon		19.22	63,000 J
12	Unknown hydrocarbon		19.32	58,000 J
13. 544763	Hexadecane		19.77	150,000 J
14.	Unknown hydrocarbon		20.48	52,000 J
15.	Unknown hydrocarbon		21.22	70,000 J
16.	Unknown hydrocarbon		21.30	82,000 J
17. 55045119	5-Propyl-Tridecane		21.85	140,000 J
18.	Unknown hydrocarbon		21.95	47,000 J
19.	Unknown hydrocarbon		22.73	71,000 J
20.	Unknown hydrocarbon		22.61	170,000 J
21.	Unknown hydrocarbon		23.93	110,000 J
22.	Unknown hydrocarbon		24.46	52,000 J
23.	Unknown hydrocarbon		25.20	160,000 J
24. 10544500	Molecular Sulfur		25.34	85,000 J
25.	Unknown hydrocarbon		26.41	76,000 J
26.	Unknown hydrocarbon		27.98	110,000 J
27.	Unknown hydrocarbon		29.07	77,000 J
28.	Unknown hydrocarbon		30.77	57,000 J
29.	Unknown hydrocarbon		33.04	97,000 J

Form I

Sample No.
DC-P1-53

Date 5/11/87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Ecology and Environment, Inc. CASE NO. U-4906/U-4928/U-4971/U-4989

SOW NO. 784

LAB SAMPLE ID. NO. 1032 QC REPORT NO. _____

Elements Identified and Measured

Concentration: Low _____ Medium _____

Matrix: Water _____ Soil X Sludge _____ Other _____

ug/L or mg/kg as received (Circle One)

1.	Aluminum	4010			P	13.	Magnesium	NR			
2.	Antimony	12	R	U	P	14.	Manganese	161	*		P
3.	Arsenic	0.96	R	U	F	15.	Mercury	3.1			CV
4.	Barium	101			P	16.	Nickel	20	*		P
5.	Beryllium	1.0		U	F	17.	Potassium	NR			
6.	Cadmium	3.1			P	18.	Selenium	0.96	R	U	F
7.	Calcium	NR				19.	Silver	2.0		U	P
8.	Chromium	13			P	20.	Sodium	NR			
9.	Cobalt	10		U	P	21.	Thallium	1.9		U	F
10.	Copper	40			P	22.	Tin	7.7		U	F
11.	Iron	10200			P	23.	Vanadium	15			P
12.	Lead	0.96	*	U	F	24.	Zinc	370	*		P
Cyanide		1.0		U		Percent Solids (%)		80			

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: NR: Analysis not requested.

Lab Manager M. [illegible]

DC-P2-54

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ecology and environment, inc.

Case No: U-4906, 4928, 4971, 4989.

Lab Sample ID No: 1033

QC Report No:

Sample Matrix: Soil

Contract No: IL-3140

Data Release Authorized By: CSzytowicz

Date Sample Received: 2-14-87

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed: 2-20-87

Conc/Dil Factor: 1 pH 8.0

Percent Moisture: (Not Decanted) 16

Concentrations reported "as received"

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-[illegible]-2	Methylene Chloride	4 BJ
67-64-1	Acetone	870 BE
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	5u
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	5u
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone	64 B
71-55-6	1, 1, 1-Trichloroethane	5u
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

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

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

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.

E This flag indicates an approximate concentration. The amount detected in the

Laboratory Name Ecology & Environment, Inc

Case No IL-3140

Sample Number
DC-P2-54

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared 03-05-87

Date Analyzed: 03-18-87

Conc/Dil Factor: 2

Percent Moisture (Decanted) 16

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

Concentrations reported "as received" basis

CAS Number		ug/l or (ug/Kg) (Circle One)
108-95-2	Phenol	330u
111-44-4	bis(2-Chloroethyl)Ether	330u
95-57-8	2-Chlorophenol	330u
541-73-1	1,3-Dichlorobenzene	330u
106-46-7	1,4-Dichlorobenzene	330u
100-51-6	Benzyl Alcohol	330u
[illegible]-50-1	1,2-Dichlorobenzene	330u
[illegible]-48-7	2-Methylphenol	330u
39638-32-9	bis(2-chloroisopropyl)Ether	330u
106-44-5	4-Methylphenol	330u
621-64-7	N-Nitroso-Di-n-Propylamine	330u
67-72-1	Hexachloroethane	330u
98-95-3	Nitrobenzene	330u
78-59-1	Isophorone	330u
88-75-5	2-Nitrophenol	330u
105-67-9	2,4-Dimethylphenol	330u
65-85-0	Benzoic Acid	1600u
111-91-1	bis(2-Chloroethoxy)Methane	330u
120-83-2	2,4-Dichlorophenol	330u
120-82-1	1,2,4-Trichlorobenzene	330u
91-20-3	Naphthalene	330u
106-47-8	4-Chloroaniline	330u
87-68-3	Hexachlorobutadiene	330u
59-50-7	4-Chloro-3-Methylphenol	330u
91-57-6	2-Methylnaphthalene	330u
77-47-4	Hexachlorocyclopentadiene	330u
88-06-2	2,4,6-Trichlorophenol	330u
95-95-4	2,4,5-Trichlorophenol	1600u
91-58-7	2-Chloronaphthalene	330u
[illegible]-74-4	2-Nitroaniline	1600u
[illegible]11-3	Dimethyl Phthalate	330u
208-96-8	Acenaphthylene	330u
99-09-2	3-Nitroaniline	1600u

CAS Number		ug/l or (ug/Kg) (Circle One)
83-32-9	Acenaphthene	330u
51-28-5	2,4-Dinitrophenol	1600u
100-02-7	4-Nitrophenol	1600u
132-64-9	Dibenzofuran	330u
121-14-2	2,4-Dinitrotoluene	330u
606-20-2	2,6-Dinitrotoluene	330u
84-66-2	Diethylphthalate	330u
7005-72-3	4-Chlorophenyl-phenylether	330u
86-73-7	Fluorene	330u
100-01-6	4-Nitroaniline	1600u
534-52-1	4,6-Dinitro-2-Methylphenol	1600u
86-30-6	N-Nitrosodiphenylamine (1)	330u
101-55-3	4-Bromophenyl-phenylether	330u
118-74-1	Hexachlorobenzene	330u
87-86-5	Pentachlorophenol	1600u
85-01-8	Phenanthrene	330u
120-12-7	Anthracene	330u
84-74-2	Di-n-Butylphthalate	130 J
206-44-0	Fluoranthene	330u
129-00-0	Pyrene	330u
85-68-7	Butylbenzylphthalate	330u
91-94-1	3,3'-Dichlorobenzidine	660u
56-55-3	Benzo(a)Anthracene	330u
117-81-7	bis(2-Ethylhexyl)Phthalate	330u
218-01-9	Chrysene	330u
117-84-0	Di-n-Octyl Phthalate	330u
205-99-2	Benzo(b)Fluoranthene	330u
207-08-9	Benzo(k)Fluoranthene	330u
50-32-8	Benzo(a)Pyrene	330u
193-39-5	Indeno(1,2,3-cd)Pyrene	330u
53-70-3	Dibenz(a,h)Anthracene	330u
191-24-2	Benzo(g,h,i)Perylene	330u

(1)-Cannot be separated from diphenylamine

Laboratory Name ecology and environment, inc.

Case No U-4906, 4928, 4971, 4989

Sample Number DC-P2-54

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 2/16/87

Date Analyzed 2/23/87

Conc/Dil Factor 1

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)
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 3 V_t 1,000 V_i 4

Laboratory Name Ecology & Environment Inc.

Case No U-4906, 4928, 4971, 4989

Sample Number DC-P2-54

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	Hexane isomer	VOA	21.2	66 BJ
2.	Unknown alcohol (?)	VOA	23.7	10 J
3.	Unknown alcohol (?)	VOA	37.8	19 J
4.	Dichlorobenzene isomers	VOA	40.1	62 J
5.				
6.	Unknown	BNA	19.4	1200 J
7.	Unknown hydrocarbon	BNA	20.3	220 J
8.	Unknown	BNA	21.0	1400 J
9.	Unknown hydrocarbon	BNA	21.1	630 J
10.	Unknown	BNA	22.4	1100 J
17312775	2,3-Dimethyl Undecane	BNA	23.2	470 J
12. 544763	Hexadecane	BNA	24.0	560 J
13.	Unknown hydrocarbon	BNA	25.3	330 J
14.	Unknown	BNA	25.7	250 J
15.	Unknown hydrocarbon	BNA	26.6	230 J
16. 10544500	Molecular Sulfur	BNA	26.7	290 J
17.	Unknown	BNA	29.3	1100 J
18.	Unknown hydrocarbon	BNA	31.1	640 J
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				

Form I

Sample No.
DC-P2-54

Date 5/11/87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Ecology and Environment, Inc. CASE NO. U-4906/U-4928/U-4971/U-4989

SOW NO. 784

LAB SAMPLE ID. NO. 1033 QC REPORT NO. _____

Elements Identified and Measured

Concentration: Low _____ Medium _____

Matrix: Water _____ Soil X Sludge _____ Other _____

ug/L or mg/kg as received (Circle One)

1.	Aluminum	1070		P	13.	Magnesium	NR		
2.	Antimony	12	R U	P	14.	Manganese	78	*	P
3.	Arsenic	1.9	R U	F	15.	Mercury	0.54		CV
4.	Barium	40	U	P	16.	Nickel	8.0	* U	P
5.	Beryllium	1.0	U	F	17.	Potassium	NR		
6.	Cadmium	1.0	U	P	18.	Selenium	0.95	R U	F
7.	Calcium	NR			19.	Silver	2.0	U	P
8.	Chromium	2.6		P	20.	Sodium	NR		
9.	Cobalt	10	U	P	21.	Thallium	1.9	U	F
10.	Copper	5.0	U	P	22.	Tin	7.6	U	F
11.	Iron	3470		P	23.	Vanadium	10	U	P
12.	Lead	3.0	*	F	24.	Zinc	14	*	P

Cyanide 11 Percent Solids (%) 84

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: NR: Analysis not requested.

Lab Manager M. K

DC-P5-55

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ecology and environment, inc.

Case No: U-4906, 4928, 4971, 4989.

Lab Sample ID No: 1034

QC Report No:

Sample Matrix: Soil

Contract No: IL-3140

Data Release Authorized By: CSlotowicz

Date Sample Received: 2-14-87

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed: 2-20-87

Conc/Dil Factor: 1 pH 8.3

Percent Moisture: (Not Decanted) 19

Concentrations reported "as received"

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
7[illegible]-2	Methylene Chloride	2 BJ
67-64-1	Acetone	270 BE
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	5u
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	5u
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone	18 B
71-55-6	1, 1, 1-Trichloroethane	5u
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

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

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 components 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

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.

E This flag indicates an approximate concentration. The amount detected in the

Laboratory Name Ecology & Environment, Inc

Case No IL-3140

Sample Number
DC-P5-55

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 03-05-87

Date Analyzed: 03-18-87

Conc/Dil Factor: 2

Percent Moisture (Decanted) 19

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

Concentrations reported "as received" basis

CAS Number		ug/l or (ug/Kg) (Circle One)
108-95-2	Phenol	330u
111-44-4	bis(2-Chloroethyl)Ether	330u
95-57-8	2-Chlorophenol	330u
541-73-1	1,3-Dichlorobenzene	330u
106-46-7	1,4-Dichlorobenzene	330u
100-51-6	Benzyl Alcohol	330u
-50-1	1,2-Dichlorobenzene	330u
95-48-7	2-Methylphenol	330u
39638-32-9	bis(2-chloroisopropyl)Ether	330u
106-44-5	4-Methylphenol	330u
621-64-7	N-Nitroso-Di-n-Propylamine	330u
67-72-1	Hexachloroethane	330u
98-95-3	Nitrobenzene	330u
78-59-1	Isophorone	330u
88-75-5	2-Nitrophenol	330u
105-67-9	2,4-Dimethylphenol	330u
65-85-0	Benzoic Acid	1600u
111-91-1	bis(2-Chloroethoxy)Methane	330u
120-83-2	2,4-Dichlorophenol	330u
120-82-1	1,2,4-Trichlorobenzene	330u
91-20-3	Naphthalene	330u
106-47-8	4-Chloroaniline	330u
87-68-3	Hexachlorobutadiene	330u
59-50-7	4-Chloro-3-Methylphenol	330u
91-57-6	2-Methylnaphthalene	330u
77-47-4	Hexachlorocyclopentadiene	330u
88-06-2	2,4,6-Trichlorophenol	330u
95-95-4	2,4,5-Trichlorophenol	1600u
91-58-7	2-Chloronaphthalene	330u
-74-4	2-Nitroaniline	1600u
11-3	Dimethyl Phthalate	330u
208-96-8	Acenaphthylene	330u
99-09-2	3-Nitroaniline	1600u

CAS Number		ug/l or (ug/Kg) (Circle One)
83-32-9	Acenaphthene	330u
51-28-5	2,4-Dinitrophenol	1600u
100-02-7	4-Nitrophenol	1600u
132-64-9	Dibenzofuran	330u
121-14-2	2,4-Dinitrotoluene	330u
606-20-2	2,6-Dinitrotoluene	330u
84-66-2	Diethylphthalate	330u
7005-72-3	4-Chlorophenyl-phenylether	330u
86-73-7	Fluorene	330u
100-01-6	4-Nitroaniline	1600u
534-52-1	4,6-Dinitro-2-Methylphenol	1600u
86-30-6	N-Nitrosodiphenylamine (1)	330u
101-55-3	4-Bromophenyl-phenylether	330u
118-74-1	Hexachlorobenzene	330u
87-86-5	Pentachlorophenol	1600u
85-01-8	Phenanthrene	330u
120-12-7	Anthracene	330u
84-74-2	Di-n-Butylphthalate	51 J
206-44-0	Fluoranthene	330u
129-00-0	Pyrene	330u
85-68-7	Butylbenzylphthalate	330u
91-94-1	3,3'-Dichlorobenzidine	660u
56-55-3	Benzo(a)Anthracene	330u
117-81-7	bis(2-Ethylhexyl)Phthalate	330u
218-01-9	Chrysene	330u
117-84-0	Di-n-Octyl Phthalate	330u
205-99-2	Benzo(b)Fluoranthene	330u
207-08-9	Benzo(k)Fluoranthene	330u
50-32-8	Benzo(a)Pyrene	330u
193-39-5	Indeno(1,2,3-cd)Pyrene	330u
53-70-3	Dibenz(a,h)Anthracene	330u
191-24-2	Benzo(g,h,i)Perylene	330u

(1)-Cannot be separated from diphenylamine

Laboratory Name ecology and environment, inc.

Case No U-4906, 4928, 4971, 4989

Sample Number DC-P5-55

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 2-16-87

Date Analyzed 2-24-87

Conc/Dil Factor 1

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)
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 3 V_t 1,000 V_i 4

Laboratory Name Ecology & Environment Inc.

Case No U-4906, 4928, 4971, 4989

Sample Number DC-P5-55

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	Hexane isomer	VOA	21.2	16 BJ
2.				
3.	No TIC's in BNA fraction			
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
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27.				
28.				
29.				
30.				

Form I

Sample No.
DC-P5-55

Date 5/11/87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Ecology and Environment, Inc. CASE NO. U-4906/U-4928/U-4971/U-4989

SOW NO. 784

LAB SAMPLE ID. NO. 1034 QC REPORT NO. _____

Elements Identified and Measured

Concentration: Low _____ Medium _____

Matrix: Water _____ Soil X Sludge _____ Other _____

ug/L or mg/kg as received (Circle One)

1.	Aluminum	4970		P	13.	Magnesium	NR		
2.	Antimony	12	R U	P	14.	Manganese	505 *		P
3.	Arsenic	2.5	R	F	15.	Mercury	0.10	U	CV
4.	Barium	66		P	16.	Nickel	12 *		P
5.	Beryllium	1.0	U	F	17.	Potassium	NR		
6.	Cadmium	1.0	U	P	18.	Selenium	1.0 R	U	F
7.	Calcium	NR			19.	~~Silver~~	~~2.0~~	~~U~~	~~P~~
8.	Chromium	11		P	20.	Sodium	NR		
9.	Cobalt	10	U	P	21.	Thallium	2.0	U	F
10.	Copper	13		P	22.	Tin	8.0	U	F
11.	Iron	12400		P	23.	Vanadium	18		P
12.	Lead	426 *		F	24.	Zinc	40 *		P

Cyanide 12 Percent Solids (%) 81

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: NR: Analysis not requested.

Lab Manager D. [illegible]

DC-P5-56

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ecology and environment, inc.

Case No: U-4906, 4928, 4971, 4989.

Lab Sample ID No: 1035

QC Report No:

Sample Matrix: Soil

Contract No: IL-3140

Data Release Authorized By: C Hytowicz

Date Sample Received: 2-14-87

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed: 2-20-87

Conc/Dil Factor: 1 pH 8.4

Percent Moisture: (Not Decanted) 20

Concentrations reported "as received"

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride	48J
67-64-1	Acetone	330 BE
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	5u
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	5u
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone	21 B
71-55-6	1, 1, 1-Trichloroethane	5u
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

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

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., 10 J). If limit of detection is 10 ug/l and a

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.

E This flag indicates an approximate concentration. The amount detected in the

Laboratory Name Ecology & Environment, Inc

se No IL-3140

Sample Number
DC-P5-56

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared 03-05-87

Date Analyzed: 03-26-87

Conc/Dil Factor: 2

Percent Moisture (Decanted) 20

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

Concentrations reported "as received" basis

CAS Number		ug/l or (ug/Kg) (Circle One)
108-95-2	Phenol	330u
111-44-4	bis(-2-Chloroethyl)Ether	330u
95-57-8	2-Chlorophenol	330u
541-73-1	1 3-Dichlorobenzene	330u
106-46-7	1. 4-Dichlorobenzene	330u
100-51-6	Benzyl Alcohol	330u
95-50-1	1. 2-Dichlorobenzene	330u
95-48-7	2-Methylphenol	330u
39638-32-9	bis(2-chloroisopropyl)Ether	330u
106-44-5	4-Methylphenol	330u
621-64-7	N-Nitroso-Di-n-Propylamine	330u
67-72-1	Hexachloroethane	330u
98-95-3	Nitrobenzene	330u
78-59-1	Isophorone	330u
88-75-5	2-Nitrophenol	330u
105-67-9	2. 4-Dimethylphenol	330u
65-85-0	Benzoic Acid	1600u
111-91-1	bis(-2-Chloroethoxy)Methane	330u
120-83-2	2. 4-Dichlorophenol	330u
120-82-1	1. 2. 4-Trichlorobenzene	330u
91-20-3	Naphthalene	330u
106-47-8	4-Chloroaniline	330u
87-68-3	Hexachlorobutadiene	330u
59-50-7	4-Chloro-3-Methylphenol	330u
91-57-6	2-Methylnaphthalene	330u
77-47-4	Hexachlorocyclopentadiene	330u
88-06-2	2 4. 6-Trichlorophenol	330u
95-95-4	2. 4 5-Trichlorophenol	1600u
91-58-7	2-Chloronaphthalene	330u
88-74-4	2-Nitroaniline	1600u
[illegible]-11-3	Dimethyl Phthalate	330u
208-96-8	Acenaphthylene	330u
99-09-2	3-Nitroaniline	1600u

CAS Number		ug/l or (ug/Kg) (Circle One)
83-32-9	Acenaphthene	330u
51-28-5	2. 4-Dinitrophenol	1600u
100-02-7	4-Nitrophenol	1600u
132-64-9	Dibenzofuran	330u
121-14-2	2 4-Dinitrotoluene	330u
606-20-2	2 6-Dinitrotoluene	330u
84-66-2	Diethylphthalate	330u
7005-72-3	4-Chlorophenyl-phenylether	330u
86-73-7	Fluorene	330u
100-01-6	4-Nitroaniline	1600u
534-52-1	4. 6-Dinitro-2-Methylphenol	1600u
86-30-6	N-Nitrosodiphenylamine (1)	330u
101-55-3	4-Bromophenyl-phenylether	330u
118-74-1	Hexachlorobenzene	330u
87-86-5	Pentachlorophenol	1600u
85-01-8	Phenanthrene	330u
120-12-7	Anthracene	330u
84-74-2	Di-n-Butylphthalate	260 J
206-44-0	Fluoranthene	330u
129-00-0	Pyrene	330u
85-68-7	Butylbenzylphthalate	330u
91-94-1	3. 3'-Dichlorobenzidine	660u
56-55-3	Benzo(a)Anthracene	330u
117-81-7	bis(2-Ethylhexyl)Phthalate	180 J
218-01-9	Chrysene	330u
117-84-0	Di-n-Octyl Phthalate	330u
205-99-2	Benzo(b)Fluoranthene	330u
207-08-9	Benzo(k)Fluoranthene	330u
50-32-8	Benzo(a)Pyrene	330u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	330u
53-70-3	Dibenz(a, h)Anthracene	330u
191-24-2	Benzo(g, h, i)Perylene	330u

(1)-Cannot be separated from diphenylamine

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Laboratory Name ecology and environment, inc.

Case No U-4906, 4928, 4971, 4989

Sample Number DC-P5-56

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 2-16-87

Date Analyzed 2-24-87

Conc/Dil Factor 1

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)
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 3 V_t 1,000 V_i 4

Form 1

7/85
491095

Laboratory Name Ecology & Environment Inc.

Case No U-4906, 4928, 4971, 4989

Sample Number DC-P5-56

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number MCC-10	Estimated Concentration (ug/l or ug/kg)
1.	Hexane isomer	VOA	21.2	17 BJ
2.				
3.	No TIC's in BNA fraction			
4.				
5.				
6.				
7.				
8.				
9.				
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28.				
29.				
30				

Form I

Sample No.
DC-P5-56

Date 5/11/87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Ecology and Environment, Inc. CASE NO. U-4906/U-4928/U-4971/U-4989

SOW NO. 784

LAB SAMPLE ID. NO. 1035 QC REPORT NO. _____

Elements Identified and Measured

Concentration: Low _____ Medium _____

Matrix: Water _____ Soil X Sludge _____ Other _____

ug/L or mg/kg as received (Circle One)

1.	Aluminum	4430			P	13.	Magnesium	NR			
2.	Antimony	12	R	U	P	14.	Manganese	568	*		P
3.	Arsenic	3.2	R		F	15.	Mercury	0.10		U	CV
4.	Barium	95			P	16.	Nickel	18	*		P
5.	Beryllium	1.0		U	F	17.	Potassium	NR			
6.	Cadmium	1.0		U	P	18.	Selenium	0.98	R	U	F
7.	Calcium	NR				19.	Silver	2.0		U	P
8.	Chromium	8.1			P	20.	Sodium	NR			
9.	Cobalt	10		U	P	21.	Thallium	2.0		U	F
10.	Copper	19			P	22.	Tin	7.8		U	F
11.	Iron	10400			P	23.	Vanadium	13			P
12.	Lead	72	*		F	24.	Zinc	59	*		P
Cyanide		1.0		U		Percent Solids (%)		80			

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: NR: Analysis not requested.

Lab Manager D. [illegible]