36798

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

Date 9/29/86

COVER PAGE
INORGANIC ANALYSES DATA PACKAGE

Lab Name JTC Environmental Consultants Case No. 6358

SOW No. 784 Q.C. Report No. 291

Sample Numbers

EPA No.	Lab ID No.	EPA No.	Lab ID No.
MBH067	73-3596		
MBH068	-3597		

Comments:

ICP Interelement and background corrections applied? Yes ✓ No ___.

If yes, corrections applied before ✓ or after ___ generation of raw data.

Footnotes:

NR - not required by contract at this time

Form I:

Value - If the result is a value greater than or equal to the instrument detection limit but less than the contract required detection limit, report the value in brackets (i.e., [10]). Indicate the analytical method used with P (for ICP), A (Flame AA), or F (Furnace AA)

U - Indicates element was analyzed for but not detected. Report with the instrument detection limit value (e.g., 10U).

E - Indicates a value estimated or not reported due to the presence of interference. Explanatory note included on cover page.

S - Indicates value determined by Method of Standard Addition.

R - Indicates spike sample recovery is not within control limits.

P - Indicates duplicate analysis is not within control limits.

* - Indicates the correlation coefficient for method of standard addition is less than 0.995

ASB 001 0079

Incl 1

Form 1 A

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. MDH 35-7

Date 9/29/86

INORGANIC ANALYSIS DATA SHEET

LAB NAME JTC Environmental Cnslts. CASE NO. 6388

SOW NO. 784

LAB SAMPLE ID. NO. 73-3596 QC REPORT NO. 241

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	184U	P	13.	Magnesium	720U	P
2.	Antimony	56U	P	14.	Manganese	12U	P
3.	Arsenic	10U	F	15.	Mercury	.19U R	Cold.V.
4.	Barium	17U	P	16.	Nickel	27U	P
5.	Beryllium	2.5U	P	17.	Potassium	1000U	A
6.	Cadmium	4.6U	P	18.	Selenium	5U	F
7.	Calcium	940U	P	19.	Silver	4.3U	P
8.	Chromium	8.7U	P	20.	Sodium	8130	P
9.	Cobalt	23U	P	21.	Thallium	10U	F
10.	Copper	24U	P	22.	Tin	30U	P
11.	Iron	181	P	23.	Vanadium	19U	P
12.	Lead	5U	F	24.	Zinc	18U	P

Cyanide 10U Auto An Percent Solids (%) NR

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:

Lab Manager

ASB 001 0080

Form I D

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. MBH 065

Date 9/29/86

INORGANIC ANALYSIS DATA SHEET

LAB NAME JTC Environmental Cnslts.

CASE NO. 6388

SOW NO. 784

LAB SAMPLE ID. NO. 73-3597

QC REPORT NO. 291

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	22000	P	13.	Magnesium	9340	P
2.	Antimony	35UR	P	14.	Manganese	604R	P
3.	Arsenic	15	F	15.	Mercury	0.24	Cold.V.
4.	Barium	[23]	P	16.	Nickel	39	P
5.	Beryllium	[2]	P	17.	Potassium	[2890]	A
6.	Cadmium	2.9U	P	18.	Selenium	3.1U	F
7.	Calcium	3240	P	19.	Silver	2.7UR	P
8.	Chromium	32	P	20.	Sodium	3090U	P
9.	Cobalt	[23]	P	21.	Thallium	6.3U	F
10.	Copper	32	P	22.	Tin	19U	P
11.	Iron	64800	P	23.	Vanadium	50	P
12.	Lead	18	F	24.	Zinc	81	P
	Cyanide	0.6U	Auto An		Percent Solids (%)	79.82	

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: ____

Lab Manager ____

ASB 001 0081

Sample Number
BH-221

6369 · 2-028-05

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Clayton Environmental
Case No: 6369
Lab Sample ID No: B4996 (488746)
QC Report No: N/A
Sample Matrix: Soil
Contract No: 68-01-7260
Data Release Authorized By:
Date Sample Received: 8/29/86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 9/5/86
Date Analyzed: 9/5/86
Conc/(Dil Factor): 1 pH 7.4
Percent Moisture: (Not Decanted) 59.25%

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	25 U
74-83-9	Bromomethane	25 U
75-01-4	Vinyl Chloride	25 U
75-00-3	Chloroethane	25 U
75-09-2	Methylene Chloride	~~[illegible]~~
67-64-1	Acetone	~~[illegible]~~
75-15-0	Carbon Disulfide	4 J
75-35-4	1, 1-Dichloroethene	12 U
75-34-3	1, 1-Dichloroethane	12 U
156-60-5	Trans-1, 2-Dichloroethene	12 U
67-66-3	Chloroform	12 U
107-06-2	1, 2-Dichloroethane	12 U
78-93-3	2-Butanone	~~[illegible]~~
71-55-6	1, 1, 1-Trichloroethane	12 U
56-23-5	Carbon Tetrachloride	12 U
108-05-4	Vinyl Acetate	25 U
75-27-4	Bromodichloromethane	12 U

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	17 N
10061-02-6	Trans-1, 3-Dichloropropene	12 U
79-01-6	Trichloroethene	13 J
124-48-1	Dibromochloromethane	12 U
79-00-5	1, 1, 2-Trichloroethane	12 U
71-43-2	Benzene	2 J
10061-01-5	cis-1, 3-Dichloropropene	12 U
110-75-8	2-Chloroethylvinylether	25 U
75-25-2	Bromoform	12 U
108-10-1	4-Methyl-2-Pentanone	25 U
591-78-6	2-Hexanone	25 U
127-18-4	Tetrachloroethene	12 U
79-34-5	1, 1, 2, 2-Tetrachloroethane	12 U
108-88-3	Toluene	270 B
108-90-7	Chlorobenzene	36
100-41-4	Ethylbenzene	12 U
100-42-5	Styrene	12 U
	Total Xylenes	12 U

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/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.

N Matrix spike compound

I Instrument limit of detection was used because it was higher than the CRQL

A Indicates a value less than the dilution corrected limit of detection but greater than the CRQL

ASB 001 0082

oratory Name CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

ase No 6369

Sample Number
B14-221
0388-2-028-06

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

ncentration (Low) Medium (Circle One)

te Extracted/Prepared 9/2/86

te Analyzed 9/8/86 (A6001)

/Dil Factor 2 (For GPC)

cent Moisture (Decanted) 59.2 %

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	2500 U
111-44-4	bis(2-Chloroethyl)Ether	2500 U
95-57-8	2-Chlorophenol	2500 U
541-73-1	1,3-Dichlorobenzene	2500 U
106-46-7	1,4-Dichlorobenzene	2500 U
100-51-6	Benzyl Alcohol	2500 U
95-50-1	1,2-Dichlorobenzene	2500 U
95-48-7	2-Methylphenol	2500 U
108-60-1	bis(2-chloroisopropyl)Ether	2500 U
106-44-5	4-Methylphenol	2500 U
621-64-7	N-Nitroso-Di-n-Propylamine	2500 U
67-72-1	Hexachloroethane	2500 U
98-95-3	Nitrobenzene	2500 U
78-59-1	Isophorone	2500 U
88-75-5	2-Nitrophenol	2500 U
105-67-9	2,4-Dimethylphenol	2500 U
65-85-0	Benzoic Acid	12000 U
111-91-1	bis(2-Chloroethoxy)Methane	2500 U
120-83-2	2,4-Dichlorophenol	2500 U
120-82-1	1,2,4-Trichlorobenzene	2500 U
91-20-3	Naphthalene	2500 U
106-47-8	4-Chloroaniline	2500 U
87-68-3	Hexachlorobutadiene	2500 U
59-50-7	4-Chloro-3-Methylphenol	2500 U
91-57-6	2-Methylnaphthalene	2500 U
77-47-4	Hexachlorocyclopentadiene	2500 U
88-06-2	2,4,6-Trichlorophenol	2500 U
95-95-4	2,4,5-Trichlorophenol	12000 U
91-58-7	2-Chloronaphthalene	2500 U
88-74-4	2-Nitroaniline	12000 U
131-11-3	Dimethyl Phthalate	2500 U
208-96-8	Acenaphthylene	2500 U
99-09-2	3-Nitroaniline	12000 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	2500 U
51-28-5	2,4-Dinitrophenol	12000 U
100-02-7	4-Nitrophenol	12000 U
132-64-9	Dibenzofuran	2500 U
121-14-2	2,4-Dinitrotoluene	2500 U
606-20-2	2,6-Dinitrotoluene	2500 U
84-66-2	Diethylphthalate	2500 U
7005-72-3	4-Chlorophenyl-phenylether	2500 U
86-73-7	Fluorene	2500 U
100-01-6	4-Nitroaniline	12000 U
534-52-1	4,6-Dinitro-2-Methylphenol	12000 U
86-30-6	N-Nitrosodiphenylamine (1)	2500 U
101-55-3	4-Bromophenyl-phenylether	2500 U
118-74-1	Hexachlorobenzene	2500 U
87-86-5	Pentachlorophenol	12000 U
85-01-8	Phenanthrene	2500 U
120-12-7	Anthracene	2500 U
84-74-2	Di-n-Butylphthalate	2500 U
206-44-0	Fluoranthene	2500 U
129-00-0	Pyrene	2500 U
85-68-7	Butylbenzylphthalate	2500 U
91-94-1	3,3'-Dichlorobenzidine	6900 N
56-55-3	Benzo(a)Anthracene	2500 U
117-81-7	bis(2-Ethylhexyl)Phthalate	2500 U
218-01-9	Chrysene	2500 U
117-84-0	Di-n-Octyl Phthalate	2500 U
205-99-2	Benzo(b)Fluoranthene	2700 N
207-08-9	Benzo(k)Fluoranthene	2500 U
50-32-8	Benzo(a)Pyrene	2500 U
193-39-5	Indeno(1,2,3-cd)Pyrene	3200 N
53-70-3	Dibenzo(a,h)Anthracene	3900 N
191-24-2	Benzo(g,h,i)Perylene	4200 N

(1)-Cannot be separated from diphenylamine

ASB 001 0083

Form I

7 85

6369 • 2-028-07

Laboratory Name Clayton

Case No 6369

Sample Number
BK-221

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 2 Sept. 1986

Date Analyzed 12 Sept. 1986

Conc (Dil) Factor 1.6 (GPC Effect)

Percent Moisture (decanted) 59.25

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	59 u
319-85-7	Beta-BHC	59 u
319-86-8	Delta-BHC	59 u
58-89-9	Gamma-BHC (Lindane)	59 u
76-44-8	Heptachlor	59 u
309-00-2	Aldrin	59 u
1024-57-3	Heptachlor Epoxide	59 u
959-98-8	Endosulfan I	59 u
60-57-1	Dieldrin	120 u
72-55-9	4,4'-DDE	120 u
72-20-8	Endrin	120 u
33213-65-9	Endosulfan II	120 u
72-54-8	4,4'-DDD	120 u
1031-07-8	Endosulfan Sulfate	120 u
50-29-3	4,4'-DDT	120 u
72-43-5	Methoxychlor	590 u
53494-70-5	Endrin Ketone	120 u
57-74-9	Chlordane	590 u
8001-35-2	Toxaphene	1200 u
12674-11-2	Aroclor-1016	590 u
11104-28-2	Aroclor-1221	590 u
11141-16-5	Aroclor-1232	590 u
53469-21-9	Aroclor-1242	590 u
12672-29-6	Aroclor-1248	590 u
11097-69-1	Aroclor-1254	1200 u
11096-82-5	Aroclor-1260	1200 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 30g V_t 20000ml 40000ml - due to GPC V_i 10ml

T.O. 9-24-86

7 85

ASB 001 0084

Laboratory Name Clayton Environmental

Case No. 6369

Sample Number
GH-221

Organics Analysis Data Sheet
(Page 4)

6369 • 2-029-03

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
75694	TRICHLOROFLUOROMETHANE	VOA	8.86	[illegible] J
67630	2-PROPANOL	VOA	9.43	[illegible] J
71238	1-PROPANOL	VOA	10.97	10 J
—	UNKNOWN	VOA	15.98	20 J
110543	HEXANE	VOA	19.51	30 J B
66251	HEXANAL	VOA	23.16	20 J B
80568	(-) ALPHA-PINENE	VOA	26.70	40 J
127913	2-BETA-PINENE	VOA	27.38	20 J
108883	TOLUENE	BNA	4.02	20000 J B
123422	3-METHYL-ACETATE 1-BUTANOL	BNA	4.46	30000 J B
—	UNKNOWN	BNA	5.15	50000 J B
123422	4-HYDROXY-4-METHYL-2-PENTANONE*	BNA	5.75	100000 J B
123422	4-HYDROXY-4-METHYL-2-PENTANONE*	BNA	5.79	30000 J B
—	UNKNOWN	BNA	5.98	20000 J
110123	5-METHYL-2-HEXANONE	BNA	6.07	50000 J B
2216344	4-METHYL OCTANE	BNA	6.18	40000 J B
2216333	3-METHYL OCTANE	BNA	6.30	30000 J B
—	UNKNOWN	BNA	7.39	20000 J B
—	UNKNOWN	BNA	8.16	10000 J B
—	UNKNOWN	BNA	9.13	10000 J
—	UNKNOWN	BNA	10.09	10000 J
10544501	MOL. SULFUR	BNA	26.48	20000 J
112958	EICOSANE	BNA	33.07	10000 J
—	UNKNOWN	BNA	35.12	10000 J

* Possible aldol condensation product

semi quant from GC-MS lib c.

Form 1, Part B

7 89

ASB 001 0085

ORGANICS ANALYSIS DATA SHEET
(PAGE 1)

SAMPLE NUMBER
BW-225

Laboratory Name:NANCO LABORATORY INC.
Lab Sample ID No:>P3197
Sample Matrix: WATER
Data Release Authorized By: George Odell

Case No: 6408
QC Report No: 000
Contract No:68-01-7102
Date Sample Received: 9/12/86

VOA ONLY

VOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 9/16/86
Date Analyzed: 9/16/86
Conc/Dil Factor: 1 pH: 6.9
Percent Moisture: N/A

CAS Number		ug/l or ug/Kg (Circle One)	CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	[redacted]	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	12.0	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	1.5 J
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
				Total Xylenes	5.0 U

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 actions. (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).

C
This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 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 properl define the results. If used, they must be fully described and such description attached to the data summary report.

ASB 001 0086

ORGANICS ANALYSIS DATA SHEET
(PAGE 4)

LABORATORY NAME :NANCO LABS.INC.
CASE NO: 6408

SAMPLE NUMBER

BH-22S

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1					
2	----	NONE FOUND	VOA	----	----
3					
4					
5					
6	----	NOT REQUIRED	BNA	----	-----
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					

FORM I, PART B

ASB 001 0087

ORGANICS ANALYSIS DATA SHEET

(PAGE 1)

SAMPLE NUMBER
BW-231

VOA ONLY

Laboratory Name: NANCO LABORATORY INC.
Lab Sample ID No: >P3201
Sample Matrix: WATER
Data Release Authorized By: Hiang: Chi

Case No: 6408
QC Report No: 067, 068
Contract No: 68-01-7102
Date Sample Received: 9/13/86

VOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 9/16/86
Date Analyzed: 9/16/86
Conc/Dil Factor: 1 pH: 4.8
Percent Moisture: N/A

CAS Number		ug/l or ug/Kg (Circle One)	CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	5.0 U	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	16.0	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
				Total Xylenes	5.0 U

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 actions. (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).

C
This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 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.

ORGANICS ANALYSIS DATA SHEET
(PAGE 4)

SAMPLE NUMBER

LABORATORY NAME :NANCO LABS.INC.
CASE NO: 6408

BH-231

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1					
2	----	NONE FOUND	VOA	----	----
3					
4					
5					
6	----	NOT REQUIRED	BNA	----	----
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					

FORM 1, PART B

ORGANICS ANALYSIS DATA SHEET
(PAGE 1)

SAMPLE NUMBER
Bn-230

Laboratory Name: NANCO LABORATORY INC.
Lab Sample ID No: >P3205
Sample Matrix: SOIL
Data Release Authorized By: [signature]

Case No: 6408
QC Report No: 067, 068
Contract No: 68-01-7102
Date Sample Received: 9/13/86

VOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 9/16/86
Date Analyzed: 9/16/86
Conc/Dil Factor: 1 pH: 6.6
Percent Moisture: 20

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U
74-83-9	Bromomethane	10.0 U
75-01-4	Vinyl Chloride	10.0 U
75-00-3	Chloroethane	10.0 U
75-09-2	Methylene Chloride	[redacted]
67-64-1	Acetone	[redacted]
75-15-0	Carbon Disulfide	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U
67-66-3	Chloroform	5.0 U
107-06-2	1,2-Dichloroethane	5.0 U
78-93-3	2-Butanone	21.0
71-55-6	1,1,1-Trichloroethane	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U
108-05-4	Vinyl Acetate	10.0 U
75-27-4	Bromodichloromethane	5.0 U

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
78-87-5	1,2-Dichloropropane	5.0 U
10061-02-6	Trans-1,3-Dichloropropene	5.0 U
79-01-6	Trichloroethene	5.0 U
124-48-1	Dibromochloromethane	5.0 U
79-00-5	1,1,2-Trichloroethane	5.0 U
71-43-2	Benzene	5.0 U
10061-01-5	cis-1,3-Dichloropropene	5.0 U
110-75-8	2-Chloroethylvinylether	10.0 U
75-25-2	Bromoform	5.0 U
591-78-6	2-Hexanone	10.0 U
108-10-1	4-Methyl-2-Pentanone	10.0 U
127-18-4	Tetrachloroethene	5.0 U
108-88-3	Toluene	5.0 U
108-90-7	Chlorobenzene	5.0 U
100-41-4	Ethylbenzene	5.0 U
100-42-5	Styrene	5.0 U
	Total Xylenes	5.0 U

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 actions. (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).

C
This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 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.

ASB 001 0090

ORGANIC ANALYSIS DATA SHEET
(PAGE 2)

LABORATORY NAME: NANCO LABS. INC.
CASE NO: 6408

SAMPLE NO.
BH-230

SEMIVOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 9/17/86
Date Analyzed: 9/30/86
Conc/Dil Factor:----------> 2
Percent Moisture: 20

GPC Cleanup: Yes X No____
Separatory Funnel Extraction: Yes____
Continuous Liquid - Liquid Extraction: Yes__

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	660.0 U
108-95-2	Phenol	660.0 U
62-53-3	Aniline	660.0 U
111-44-4	bis(-2-Chloroethyl)Ether	660.0 U
95-57-8	2-Chlorophenol	660.0 U
541-73-1	1,3-Dichlorobenzene	660.0 U
106-46-7	1,4-Dichlorobenzene	660.0 U
100-51-6	Benzyl Alcohol	660.0 U
95-50-1	1,2-Dichlorobenzene	660.0 U
95-48-7	2-Methylphenol	660.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	660.0 U
106-44-5	4-Methylphenol	660.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	660.0 U
67-72-1	Hexachloroethane	660.0 U
98-95-3	Nitrobenzene	660.0 U
78-59-1	Isophorone	660.0 U
88-75-5	2-Nitrophenol	660.0 U
105-67-9	2,4-Dimethylphenol	660.0 U
65-85-0	Benzoic Acid	3300.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	660.0 U
120-83-2	2,4-Dichlorophenol	660.0 U
120-82-1	1,2,4-Trichlorobenzene	660.0 U
91-20-3	Naphthalene	660.0 U
106-47-8	4-Chloroaniline	660.0 U
87-68-3	Hexachlorobutadiene	660.0 U
59-50-7	4-Chloro-3-Methylphenol	660.0 U
91-57-6	2-Methylnaphthalene	660.0 U
77-47-4	Hexachlorocyclopentadiene	660.0 U
88-06-2	2,4,6-Trichlorophenol	660.0 U
95-95-4	2,4,5-Trichlorophenol	3300.0 U
91-58-7	2-Chloronaphthalene	660.0 U
88-74-4	2-Nitroaniline	3300.0 U
131-11-3	Dimethyl Phthalate	660.0 U
208-96-8	Acenaphthylene	660.0 U
99-09-2	3-Nitroaniline	3300.0 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	660.0 U
51-28-5	2,4-Dinitrophenol	3300.0 U
100-02-7	4-Nitrophenol	3300.0 U
132-64-9	Dibenzofuran	660.0 U
121-14-2	2,4-Dinitrotoluene	660.0 U
606-20-2	2,6-Dinitrotoluene	660.0 U
84-66-2	Diethylphthalate	660.0 U
7005-72-3	4-Chlorophenyl-phenylether	660.0 U
86-73-7	Fluorene	660.0 U
100-01-6	4-Nitroaniline	3300.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	3300.0 U
86-30-6	N-Nitrosodiphenylamine (1)	660.0 U
101-55-3	4-Bromophenyl-phenylether	660.0 U
118-74-1	Hexachlorobenzene	660.0 U
87-86-5	Pentachlorophenol	3300.0 U
85-01-8	Phenanthrene	660.0 U
120-12-7	Anthracene	660.0 U
84-74-2	Di-n-Butylphthalate	660.0 U
206-44-0	Fluoranthene	660.0 U
92-87-5	Benzidine	5280.0 U
129-00-0	Pyrene	660.0 U
85-68-7	Butylbenzylphthalate	660.0 U
91-94-1	3,3'-Dichlorobenzidine	1320.0 U
56-55-3	Benzo(a)Anthracene	660.0 U
117-81-7	bis(2-Ethylhexyl)Phthalate	[redacted]
218-01-9	Chrysene	660.0 U
117-84-0	Di-n-Octyl Phthalate	660.0 U
205-99-2	Benzo(b)Fluoranthene	660.0 U
207-08-9	Benzo(k)Fluoranthene	660.0 U
50-32-8	Benzo(a)Pyrene	660.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	660.0 U
53-70-3	Dibenz(a,h)Anthracene	660.0 U
191-24-2	Benzo(g,h,i)Perylene	660.0 U

(1) - Cannot be separated from diphenylamine

ASB 001 0091

ORGANICS ANALYSIS DATA SHEET

(PAGE 3)

SAMPLE NUMBER

BH-230

LABORATORY NAME: NANCO LABS, INC.

CASE NO: 6408

PESTICIDE/PCBs

Concentration: (Low) Medium

Date Extracted/Prepared: 9/17/86

Date Analyzed: 10/2/86

Conc/Dil Factor: ------> 2

Percent Moisture:

GPC Cleanup: Yes_X___No___

Separatory Funnel Extraction: Yes___X_

Continuous Liquid-Liquid Extraction: Yes___

CAS Number		ug/l or (ug/Kg) (Circle One)
319-84-6	Alpha-BHC	16.00 U
319-85-7	Beta-BHC	16.00 U
319-86-8	Delta-BHC	16.00 U
58-89-9	Gamma-BHC (Lindane)	16.00 U
76-44-8	Heptachlor	16.00 U
309-00-2	Aldrin	16.00 U
1024-57-3	Heptachlor Epoxide	16.00 U
959-98-8	Endosulfan I	16.00 U
60-57-1	Dieldrin	32.00 U
72-55-9	4,4'-DDE	32.00 U
72-20-8	Endrin	32.00 U
33213-65-9	Endosulfan II	32.00 U
72-54-8	4,4'-DDD	32.00 U
7421-93-4	Endrin Aldehyde	32.00 U
1031-07-8	Endosulfan Sulfate	32.00 U
50-29-3	4,4'-DDT	32.00 U
72-43-5	Methoxychlor	32.00 U
53494-70-5	Endrin Ketone	160.00 U
57-74-9	Chlordane	160.00 U
8001-35-2	Toxaphene	320.00 U
12674-11-2	Aroclor-1016	160.00 U
11104-28-2	Aroclor-1221	160.00 U
11141-16-5	Aroclor-1232	160.00 U
53469-21-9	Aroclor-1242	160.00 U
12672-29-6	Aroclor-1248	160.00 U
11097-69-1	Aroclor-1254	320.00 U
11096-82-5	Aroclor-1260	320.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

Vs _____ or Ws 30 gm Vt 40000 Vi 3

ASB 001 0092

FORM I

ORGANICS ANALYSIS DATA SHEET
(PAGE 4)

SAMPLE NUMBER

LABORATORY NAME :NANCO LABS.INC.
CASE NO: 6408

BH-230

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1					
2	----	UNKNOWN	VOA	22.82	7.4 J
3					
4					
5					
6	127184	TETRACHLOROETHENE	BNA	6.40	3800.0 J
7	-----	UNKNOWN ALKENE	BNA	6.70	1800.0 J
8	-----	UNKNOWN HYDRCARBON	BNA	6.90	5600.0 J
9	-----	UNKNOWN HYDRCARBON	BNA	7.11	8700.0 J
10	123422	2-PENTANONE,4-HYDROXY-4-METHYL	BNA	7.55	57000.0 J
11	-----	UNKNOWN	BNA	10.86	3000.0 J
12	-----	UNKNOWN	BNA	11.98	1200.0 J
13	-----	~~ISOMER OF 1,2-BENZENEDICARBOXYLIC ACID~~ Unknown phthalate	BNA	26.39	1200.0 J
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					

FORM I, PART B

ASB 001 0093

ORGANICS ANALYSIS DATA SHEET
(PAGE 1)

SAMPLE NUMBER
6H-229

Laboratory Name: NANCO LABORATORY INC.
Lab Sample ID No: >P3202
Sample Matrix: SOIL
Data Release Authorized By: [signature]

Case No: 6408
QC Report No: 067, 068
Contract No: 68-01-7102
Date Sample Received: 9/12/86

VOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 9/16/86
Date Analyzed: 9/16/86
Conc/Dil Factor: 1 pH: 5.7
Percent Moisture: 28

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U
74-83-9	Bromomethane	10.0 U
75-01-4	Vinyl Chloride	10.0 U
75-00-3	Chloroethane	10.0 U
75-09-2	Methylene Chloride	[redacted]
67-64-1	Acetone	[redacted]
75-15-0	Carbon Disulfide	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U
67-66-3	Chloroform	5.0 U
107-06-2	1,2-Dichloroethane	5.0 U
78-93-3	2-Butanone	27.0
71-55-6	1,1,1-Trichloroethane	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U
108-05-4	Vinyl Acetate	10.0 U
75-27-4	Bromodichloromethane	5.0 U

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
78-87-5	1,2-Dichloropropane	5.0 U
10061-02-6	Trans-1,3-Dichloropropene	5.0 U
79-01-6	Trichloroethene	5.0 U
124-48-1	Dibromochloromethane	5.0 U
79-00-5	1,1,2-Trichloroethane	5.0 U
71-43-2	Benzene	5.0 U
10061-01-5	cis-1,3-Dichloropropene	5.0 U
110-75-8	2-Chloroethylvinylether	10.0 U
75-25-2	Bromoform	5.0 U
591-78-6	2-Hexanone	10.0 U
108-10-1	4-Methyl-2-Pentanone	10.0 U
127-18-4	Tetrachloroethene	5.0 U
108-88-3	Toluene	5.0 U
108-90-7	Chlorobenzene	5.0 U
100-41-4	Ethylbenzene	5.0 U
100-42-5	Styrene	5.0 U
	Total Xylenes	5.0 U

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 actions. (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).

C
This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 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

ORGANIC ANALYSIS DATA SHEET
(PAGE 2)

LABORATORY NAME: NANCO LABS. INC.
CASE NO: 6408

SAMPLE NO.
BH-229

SEMIVOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 9/17/86
Date Analyzed: 9/30/86
Conc/Dil Factor:----------> 2
Percent Moisture: 28

GPC Cleanup: Yes X No____
Separatory Funnel Extraction: Yes____
Continuous Liquid - Liquid Extraction: Yes__

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	660.0 U
108-95-2	Phenol	660.0 U
62-53-3	Aniline	660.0 U
111-44-4	bis(-2-Chloroethyl)Ether	660.0 U
95-57-8	2-Chlorophenol	660.0 U
541-73-1	1,3-Dichlorobenzene	660.0 U
106-46-7	1,4-Dichlorobenzene	660.0 U
100-51-6	Benzyl Alcohol	660.0 U
95-50-1	1,2-Dichlorobenzene	660.0 U
95-48-7	2-Methylphenol	660.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	660.0 U
106-44-5	4-Methylphenol	660.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	660.0 U
67-72-1	Hexachloroethane	660.0 U
98-95-3	Nitrobenzene	660.0 U
78-59-1	Isophorone	660.0 U
88-75-5	2-Nitrophenol	660.0 U
105-67-9	2,4-Dimethylphenol	660.0 U
65-85-0	Benzoic Acid	[illegible] J
111-91-1	bis(-2-Chloroethoxy)Methane	660.0 U
120-83-2	2,4-Dichlorophenol	660.0 U
120-82-1	1,2,4-Trichlorobenzene	660.0 U
91-20-3	Naphthalene	[illegible]
106-47-8	4-Chloroaniline	660.0 U
87-68-3	Hexachlorobutadiene	660.0 U
59-50-7	4-Chloro-3-Methylphenol	660.0 U
91-57-6	2-Methylnaphthalene	2700.0
77-47-4	Hexachlorocyclopentadiene	660.0 U
88-06-2	2,4,6-Trichlorophenol	660.0 U
95-95-4	2,4,5-Trichlorophenol	3300.0 U
91-58-7	2-Chloronaphthalene	660.0 U
88-74-4	2-Nitroaniline	3300.0 U
131-11-3	Dimethyl Phthalate	660.0 U
208-96-8	Acenaphthylene	12000.0
99-09-2	3-Nitroaniline	3300.0 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	4700.0
51-28-5	2,4-Dinitrophenol	3300.0 U
100-02-7	4-Nitrophenol	3300.0 U
132-64-9	Dibenzofuran	[illegible] JB
121-14-2	2,4-Dinitrotoluene	[illegible]
606-20-2	2,6-Dinitrotoluene	660.0 U
84-66-2	Diethylphthalate	660.0 U
7005-72-3	4-Chlorophenyl-phenylether	660.0 U
86-73-7	Fluorene	[illegible]
100-01-6	4-Nitroaniline	3300.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	3300.0 U
86-30-6	N-Nitrosodiphenylamine (1)	2090.0
101-55-3	4-Bromophenyl-phenylether	660.0 U
118-74-1	Hexachlorobenzene	660.0 U
87-86-5	Pentachlorophenol	3300.0 U
85-01-8	Phenanthrene	97000.0
120-12-7	Anthracene	100000.0 J
84-74-2	Di-n-Butylphthalate	4100.0
206-44-0	Fluoranthene	120000.0 JB
92-87-5	Benzidine	5280.0 U
129-00-0	Pyrene	2500.0
85-68-7	Butylbenzylphthalate	980.0
91-94-1	3,3'-Dichlorobenzidine	1320.0 U
56-55-3	Benzo(a)Anthracene	39000.0
117-81-7	bis(2-Ethylhexyl)Phthalate	[illegible]
218-01-9	Chrysene	19000.0
117-84-0	Di-n-Octyl Phthalate	660.0 U
205-99-2	Benzo(b)Fluoranthene	[illegible]
207-08-9	Benzo(k)Fluoranthene	42000.0
50-32-8	Benzo(a)Pyrene	[illegible]
193-39-5	Indeno(1,2,3-cd)Pyrene	[illegible]
53-70-3	Dibenz(a,h)Anthracene	[illegible]
191-24-2	Benzo(g,h,i)Perylene	[illegible]

(1) - Cannot be separated from diphenylamine

ASB 001 0095

FORM 1

ORGANICS ANALYSIS DATA SHEET

(PAGE 3)

SAMPLE NUMBER

BH 229

LABORATORY NAME: NANCO LABS, INC.

CASE NO: 6408

PESTICIDE/PCBs

Concentration: Low Medium

Date Extracted/Prepared: 9/17/86

Date Analyzed: 10/2/86

Conc/Dil Factor: ------> 2

Percent Moisture: 28

GPC Cleanup: Yes_X__No___

Separatory Funnel Extraction: Yes__X_

Continuous Liquid-Liquid Extraction: Yes___

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	16.00 U
319-85-7	Beta-BHC	16.00 U
319-86-8	Delta-BHC	16.00 U
58-89-9	Gamma-BHC (Lindane)	16.00 U
76-44-8	Heptachlor	16.00 U
309-00-2	Aldrin	16.00 U
1024-57-3	Heptachlor Epoxide	16.00 U
959-98-8	Endosulfan I	16.00 U
60-57-1	Dieldrin	32.00 U
72-55-9	4,4'-DDE	32.00 U
72-20-8	Endrin	32.00 U
33213-65-9	Endosulfan II	32.00 U
72-54-8	4,4'-DDD	32.00 U
7421-93-4	Endrin Aldehyde	32.00 U
1031-07-8	Endosulfan Sulfate	32.00 U
50-29-3	4,4'-DDT	32.00 U
72-43-5	Methoxychlor	32.00 U
53494-70-5	Endrin Ketone	160.00 U
57-74-9	Chlordane	160.00 U
8001-35-2	Toxaphene	320.00 U
12674-11-2	Aroclor-1016	160.00 U
11104-28-2	Aroclor-1221	160.00 U
11141-16-5	Aroclor-1232	160.00 U
53469-21-9	Aroclor-1242	160.00 U
12672-29-6	Aroclor-1248	160.00 U
11097-69-1	Aroclor-1254	320.00 U
11096-82-5	Aroclor-1260	320.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

Vs _____ or Ws 30 gm Vt 40000 Vi 3

FORM I

ASB 001 0096

ORGANICS ANALYSIS DATA SHEET
(PAGE 4)

SAMPLE NUMBER

LABORATORY NAME :NANCO LABS.INC.
CASE NO: 6408

BH-229

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1					
2	----	UNKNOWN	VOA	27.25	2.0 J
3					
4					
5					
6	123422	2-PENTANONE,4-HYDROXY-4-METHYL	BNA	7.55	42000.0 J
7	----	ISOMER OF DIMETHYL NAPHTHALENE	BNA	19.84	8400.0 J
8	----	UNKNOWN	BNA	26.41	6700.0 J
9	----	ISOMER OF METHYL PHENANTHRENE	BNA	26.97	29000.0 J
10	----	ISOMER OF METHYL PHENANTHRENE	BNA	27.05	6900.0 J
11	----	ISOMER OF METHYL PHENANTHRENE	BNA	27.17	9600.0 J
12	----	ISOMER OF METHYL PHENANTHRENE	BNA	27.27	28000.0 J
13	----	~~ISOMER OF 1,3-BENZENEDICARBOXYLIC ACID~~ Unknown phthalate	BNA	27.66	6100.0 J
14	----	ISOMER OF PHENYL NAPTHALENE	BNA	27.91	13000.0 J
15	----	ISOMER OF DIMETHYL PHENANTHRENE	BNA	28.38	6900.0 J
16	----	ISOMER OF DIMETHYL PHENANTHRENE	BNA	28.74	22000.0 J
17	----	UNKNOWN	BNA	30.14	5800.0 J
18	----	ISOMER OF METHYL PYRENE	BNA	30.83	22000.0 J
19	----	ISOMER OF BENZO(b)FLUORENE	BNA	31.06	16000.0 J
20	----	ISOMER OF METHYL PYRENE	BNA	31.41	15000.0 J
21	----	ISOMER OF TERPHENYL	BNA	32.17	19000.0 J
22	----	ISOMER OF TERPHENYL	BNA	32.41	11000.0 J
23	----	UNKNOWN	BNA	34.07	5030.0 J
24	----	ISOMER OF METHYL CHRYSENE	BNA	34.69	7700.0 J
25	----	UNKNOWN	BNA	34.94	4900.0 J
26					

FORM I, PART B

ASB 001 0097

logged in

Asbestos Dump
2S
3W

WA85-0830 - AMENDMENT THREE (3)
U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

Date 9/24/86 CH

COVER PAGE
INORGANIC ANALYSES DATA PACKAGE

Lab Name Chemtech Consulting Group

Case No. 6408

SOW No. 785

Q.C. Report No. G2- 732

Sample Numbers

EPA No.	Lab ID No.	EPA No.	Lab ID No.
MBH 069	G2-732-01		
070	-02		
071	-03		
072	-04		
073	-05		

Comments:

RECEIVED
SEP 24 1986
SMO BRANCH

ICP interelement and background corrections applied? Yes X No ____.

If yes, corrections applied before X or after ____ generation of raw data.

Footnotes:

NR - Not required by contract at this time

Form I:

Value - If the result is a value greater than or equal to the instrument detection limit but less than the contract-required detection limit, report the value in brackets (i.e., [10]). Indicate the analytical method used with P (for ICP), A (for Flame AA) or F (for Furnace AA).

U - Indicates element was analyzed for but not detected. Report with the instrument detection limit value (e.g., 10U).

E - Indicates a value estimated or not reported due to the presence of interference. Explanatory note included on cover page.

S - Indicates value determined by Method of Standard Addition.

N - Indicates spike sample recovery is not within control limits.

* - Indicates duplicate analysis is not within control limits.

+ - Indicates the correlation coefficient for method of standard addition is less than 0.995

M - Indicates duplicate injection results exceeded control limits.

Indicate method used: P for ICP; A for Flame AA and F for Furnace.

ASB 001 0098

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. MBH 069

Date 9/24/86

INORGANIC ANALYSIS DATA SHEET

LAB NAME Chemtech Consulting Group

CASE NO. 6408

SOW NO. 785

Lab Receipt Date 9/15/86

LAB SAMPLE ID. NO. G2-732-01

QC REPORT NO. G2-732

Elements Identified and Measured

Concentration: Low X Medium ____

Matrix: Water X Soil ____ Sludge ____ Other ____

(ug/L) or mg/kg dry weight (Circle One)

1.	Aluminum	53U	P	13.	Magnesium	211U	P
2.	Antimony	50U	P	14.	Manganese	9U	P
3.	Arsenic	5U	F	15.	Mercury	0.2	
4.	Barium	50U	P	16.	Nickel	20U	P
5.	Beryllium	4U	P	17.	Potassium	500U	A
6.	Cadmium	5U	P	18.	Selenium	3U	F
7.	Calcium	217U	P	19.	Silver	5U	P
8.	Chromium	8U	P	20.	Sodium	1000U	P
9.	Cobalt	20U	P	21.	Thallium	8U	F
10.	Copper	21U	P	22.	Vanadium	20U	P
11.	Iron	22U	P	23.	Zinc	33	P N
12.	Lead	[3]	F		Precent Solids (%)		
	Cyanide	10U					

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: Color: Before- COLORLESS, After- COLORLESS, Clarity: CLEAR

Lab Manager E Hedva

ASB 001 0099

Form I

U.S EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. MBH 070

Date 9/29/86

INORGANIC ANALYSIS DATA SHEET

LAB NAME Chemtech Consulting Group
CASE NO. 6408
SOW NO. 785
Lab Receipt Date 9/15/86
LAB SAMPLE ID. NO. G2-732-02
QC REPORT NO. G2- 732

Elements Identified and Measured

Concentration: Low X Medium ____

Matrix: Water X Soil ____ Sludge ____ Other ____

(ug/L) or mg/kg dry weight (Circle One)

1.	Aluminum	53U	P	13.	Magnesium	5430	P
2.	Antimony	50U	P	14.	Manganese	63	P
3.	Arsenic	5U	F	15.	Mercury	0.2U	
4.	Barium	50U	P	16.	Nickel	20U	P
5.	Beryllium	4U	P	17.	Potassium	500U	A
6.	Cadmium	5U	P	18.	Selenium	3U	F
7.	Calcium	15900	P	19.	Silver	5U	P
8.	Chromium	8U	P	20.	Sodium	14700	P
9.	Cobalt	20U	P	21.	Thallium	8U	F
10.	Copper	21U	P	22.	Vanadium	20U	P
11.	Iron	246	P	23.	[illegible]		
12.	Lead	3U	F		Precent Solids (%)		
	Cyanide	10U					

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: Color: Before- COLORLESS After- COLORLESS Clarity: CLEAR

Lab Manager [signature]

ASB 001 0100

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. MBH 071

Date 9/24/86

INORGANIC ANALYSIS DATA SHEET

LAB NAME Chemtech Consulting Group

CASE NO. 6408

SOW NO. 785

Lab Receipt Date 9/15/86

LAB SAMPLE ID. NO. G2-732-03

QC REPORT NO. G2- 732

Elements Identified and Measured

Concentration: Low X Medium ____

Matrix: Water X Soil ____ Sludge ____ Other ____

(ug/L) or mg/kg dry weight (Circle One)

1.	Aluminum	53U	P	13.	Magnesium	6960	P
2.	Antimony	50U	P	14.	Manganese	187	P
3.	Arsenic	5U	F	15.	Mercury	0.2U	
4.	Barium	50U	P	16.	Nickel	20U	P
5.	Beryllium	4U	P	17.	Potassium	[999]	A
6.	Cadmium	5U	P	18.	Selenium	3U	F
7.	Calcium	20700	P	19.	Silver	5U	P
8.	Chromium	8U	P	20.	Sodium	14800	P
9.	Cobalt	20U	P	21.	Thallium	8U	F
10.	Copper	21U	P	22.	Vanadium	20U	P
11.	Iron	353	P	23.	[illegible]		
12.	Lead	3U	F		Percent Solids (%)		
	Cyanide	10U					

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: Color: Before- COLORLESS, After- COLORLESS, Clarity: CLEAR

Lab Manager [signature]

ASB 001 0101

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. MBH 072

Date 9/24/86

INORGANIC ANALYSIS DATA SHEET

LAB NAME Chemtech Consulting Group

CASE NO. 6408

SOW NO. 785

Lab Receipt Date 9/15/86

LAB SAMPLE ID. NO. G2-732-04

QC REPORT NO. G2-732

Elements Identified and Measured

Concentration: Low X Medium ____

Matrix: Water ____ Soil X Sludge ____ Other ____

ug/L or (mg/kg dry weight) (Circle One)

1.	Aluminum	11000 P	13.	Magnesium	2600 P
2.	Antimony	15U P N J	14.	Manganese	235 P
3.	Arsenic	[2.1] F N	15.	Mercury	0.15
4.	Barium	65 P	16.	Nickel	15 P
5.	Beryllium	1.5 P	17.	Potassium	[379] A
6.	Cadmium	1.5U P	18.	Selenium	0.9U F N
7.	Calcium	1890 P	19.	Silver	1.5U P
8.	Chromium	18 P	20.	Sodium	[736] P
9.	Cobalt	[13] P	21.	Thallium	2.4U F
10.	Copper	43 P	22.	Vanadium	62 P *
11.	Iron	23600 P	23.	Zinc	194* P *
12.	Lead	75 RP		Precent Solids (%)	66.0
	Cyanide	[illegible]			

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: Color: Before- BROWN , After- PL. YELLOW Texture: MEDIUM

Lab Manager [signature]

ASB 001 0102

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. MBH 073

Date 9/24/86

INORGANIC ANALYSIS DATA SHEET

LAB NAME Chemtech Consulting Group

CASE NO. 6408

SOW NO. 785

Lab Receipt Date 9/15/86

LAB SAMPLE ID. NO. G2-732-05

QC REPORT NO. G2-732

Elements Identified and Measured

Concentration: Low X Medium ____

Matrix: Water ____ Soil X Sludge ____ Other ____

ug/L or (mg/kg dry weight) (Circle One)

1.	Aluminum	11700	P	13.	Magnesium	2370	P
2.	Antimony	12U	P N	14.	Manganese	112	P
3.	Arsenic	1.2U	F N	15.	Mercury	0.12U	
4.	Barium	82	P	16.	Nickel	13	P
5.	Beryllium	1.2	P	17.	Potassium	[418]	A
6.	Cadmium	1.2U	P	18.	Selenium	0.7U	F N
7.	Calcium	1510	P	19.	Silver	1.2U	P
8.	Chromium	20	P	20.	Sodium	[426]	P
9.	Cobalt	[6.4]	P	21.	Thallium	2.0U	F
10.	Copper	13	P	22.	Vanadium	32	P *
11.	Iron	14100	P	23.	Zinc	77	P *
12.	Lead	8.8	F		Precent Solids (%)	81.6	
	Cyanide	0.31U					

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: Color: Before- GREY, After- COLORLESS Texture: FINE

Lab Manager [signature]

ASB 001 0103

Sample Number
BH223

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ECOLOGY & ENVIRONMENT INC.
Case No: 6388
Lab Sample ID No: 7812
Report No:
Sample Matrix: WATER
Contract No: 68-01-7158
Data Release Authorized By: C Zlotowicz
Date Sample Received: 9-6-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 9-8-86
Date Analyzed: 9-8-86
Conc/Dil Factor: 1 pH —
Percent Moisture: (Not Decanted) —

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

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

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/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.

ASB 001 0104

Laboratory Name ecology and environment, inc.

Case No 6388

Sample Number BH223

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared 9-8-86

Date Analyzed: 9-9-86

Conc/Dil Factor: 4

Percent Moisture (Decanted) —

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

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	20	U
51-28-5	2, 4-Dinitrophenol	100	U
100-02-7	4-Nitrophenol	100	U
132-64-9	Dibenzofuran	20	U
121-14-2	2, 4-Dinitrotoluene	20	U
606-20-2	2, 6-Dinitrotoluene	20	U
84-66-2	Diethylphthalate	20	U
7005-72-3	4-Chlorophenyl-phenylether	20	U
86-73-7	Fluorene	20	U
100-01-6	4-Nitroaniline	100	U
534-52-1	4, 6-Dinitro-2-Methylphenol	100	U
86-30-6	N-Nitrosodiphenylamine (1)	20	U
101-55-3	4-Bromophenyl-phenylether	20	U
118-74-1	Hexachlorobenzene	20	U
87-86-5	Pentachlorophenol	100	U
85-01-8	Phenanthrene	20	U
120-12-7	Anthracene	20	U
84-74-2	Di-n-Butylphthalate	~~89~~ 8	
206-44-0	Fluoranthene	20	U
129-00-0	Pyrene	20	U
85-68-7	Butylbenzylphthalate	20	U
91-94-1	3, 3'-Dichlorobenzidine	40	U
56-55-3	Benzo(a)Anthracene	20	U
117-81-7	bis(2-Ethylhexyl)Phthalate	20	U
218-01-9	Chrysene	20	U
117-84-0	Di-n-Octyl Phthalate	20	U
205-99-2	Benzo(b)Fluoranthene	20	U
207-08-9	Benzo(k)Fluoranthene	20	U
50-32-8	Benzo(a)Pyrene	20	U
193-39-5	Indeno(1, 2, 3-cd)Pyrene	20	U
53-70-3	Dibenza, h)Anthracene	20	U
191-24-2	Benzo(g, h, i)Perylene	20	U

(1)-Cannot be separated from diphenylamine

ASB 001 0105

Laboratory Name ecology and environment, inc.

Case No 6388

Sample Number
BH 223

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 9-9-86

Date Analyzed 9-17-86

Conc/Dil Factor 2

Percent Moisture (decanted) –

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	0.10	U
319-85-7	Beta-BHC	0.10	U
319-86-8	Delta-BHC	0.10	U
58-89-9	Gamma-BHC (Lindane)	0.10	U
76-44-8	Heptachlor	0.10	U
309-00-2	Aldrin	0.10	U
1024-57-3	Heptachlor Epoxide	0.10	U
959-98-8	Endosulfan I	0.10	U
60-57-1	Dieldrin	0.20	U
72-55-9	4,4'-DDE	0.20	U
72-20-8	Endrin	0.20	U
33213-65-9	Endosulfan II	0.20	U
72-54-8	4,4'-DDD	0.20	U
1031-07-8	Endosulfan Sulfate	0.20	U
50-29-3	4,4'-DDT	0.20	U
72-43-5	Methoxychlor	1.0	U
53494-70-5	Endrin Ketone	0.20	U
57-74-9	Chlordane	1.0	U
8001-35-2	Toxaphene	2.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	2.0	U
11096-82-5	Aroclor-1260	2.0	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 500 or W_s _____ V_t 10,000 V_i 4 µl

ASB 001 0106

Laboratory Name ecology and environment, inc.

Case No 6388

Sample Number BH 223

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. 76131	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	VOA	320	19 J
2. –	UNKNOWN HYDROCARBON	VOA	499	4 J
3.				
4.				
5. 2196498	1,13-TETRADECADIENE	BNA	1056	72 BJ
6. –	UNKNOWN	BNA	1432	180 BJ
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

ASB 001 0107

42 7 85
491095

Sample Number
BK216

VOA ONLY

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ENSECO
Lab Sample ID: >4360 ::30
Sample Matrix: WATER
Data release Authorized by: Na

Case No.: 6316
QC Report No.: 204
Contract No.: 68-01-70
Date Sample Received: 8-14-86

reject

Volatile Compounds
Concentration: Low Medium (Circle One)
Date Extracted: 8-28-86
Date Analyzed: 8-28-86 19:30
Conc/Dil factor: 1.00 pH : ---
Percent Moisture: (Not Decanted) ---

C.A.S. Number		ug/l or ug/kg (Circle One)	C.A.S. Number		ug/l or ug/kg (Circle One)
74-87-3	Chloromethane	[illegible]	78-87-5	1,2-Dichloropropane	[illegible]
74-83-9	Bromomethane	[illegible]	10061-02-6	Trans-1,3-Dichloropropene	[illegible]
75-01-4	Vinyl Chloride	[illegible]	79-01-6	Trichloroethene	[illegible]
75-00-3	Chloroethane	[illegible]	124-48-1	Dibromochloromethane	[illegible]
75-09-2	Methylene Chloride	[illegible]	79-00-5	1,1,2-Trichloroethane	[illegible]
67-64-1	Acetone	[illegible]	71-43-2	Benzene	[illegible]
75-15-0	Carbon Disulfide	[illegible]	10061-01-5	cis-1,3-Dichloropropene	[illegible]
75-35-4	1,1-Dichloroethene	[illegible]	110-75-8	2-Chloroethylvinylether	[illegible]
75-34-3	1,1-Dichloroethane	[illegible]	75-25-2	Bromoform	[illegible]
156-60-5	Trans-1,2-Dichloroethene	[illegible]	108-10-1	4-Methyl-2-Pentanone	[illegible]
67-66-3	Chloroform	[illegible]	591-78-6	2-Hexanone	[illegible]
107-02-2	1,2-Dichloroethane	[illegible]	127-18-4	Tetrachloroethene	[illegible]
78-93-3	2-Butanone	[illegible]	79-34-5	1,1,2,2-Tetrachloroethane	[illegible]
71-55-6	1,1,1-Trichloroethane	[illegible]	108-88-3	Toluene	[illegible]
56-23-6	Carbon Tetrachloride	[illegible]	108-90-7	Chlorobenzene	[illegible]
108-05-4	Vinyl Acetate	[illegible]	100-41-4	Ethylbenzene	[illegible]
75-27-4	Bromodichloromethane	[illegible]	100-42-5	Styrene	[illegible]
				Total Xylenes	[illegible]

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 < than the specified detection limit but > than zero

[illegible]

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 data the 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

OPTIONAL FLAGS

N - Compound not present in Calibration File.

ASB 001 0108

Laboratory Name ENSECO

Case No. 6313

Sample Number B4 216

VOA only

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.	110 VOA unknowns	VOA		
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.				

ASB 001 0109

Sample Number
BH-217

6368-2-028-01

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Clayton Environmental
Case No: 6369
Lab Sample ID No: 84974 (488742)
QC Report No: NA
Sample Matrix: WATER
Contract No: 68-D1-7260
Data Release Authorized By: [signature]
Date Sample Received: 8/29/86

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 9/4/86
Date Analyzed: 9/4/86
Conc/Dil Factor: 1 pH NA
Percent Moisture: (Not Decanted) NA

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	5U
67-64-1	Acetone	[illegible]
75-15-0	Carbon Disulfide	6N
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	10U
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	7N
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	0.7 J
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 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

N — Matrix spike compound

M — Instrument limit of detection was used because it was higher than the CRDL

A — Indicates a value less than the dilution corrected limit of detection but greater than the CRDL

077

Form I

11/85

ASB 001 0110

6369-2-029-01

Laboratory Name: Clayton Environmental

Case No: 6369

Sample Number: 614-219

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)
110-54-3	HEXANE	VOA	19.57	7J
1				
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				

ASB 001 0111

Form 1, Part B

7 85

Sample Number
BH 224

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Ecology & Environment Inc
Case No: 6388
Lab Sample ID No: 7813
QC Report No:
Sample Matrix: SOIL
Contract No: 68-01-7158
Data Release Authorized By: C Stojtowicz
Date Sample Received: 9-6-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 9-9-86
Date Analyzed: 9-9-86
Conc/Dil Factor: 1 pH 7.16
Percent Moisture: (Not Decanted) 21

CAS Number		ug/l or ug/Kg (Circle One)	
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	~~5~~	~~IB~~
67-64-1	Acetone	~~11~~	~~IB~~
75-15-0	Carbon Disulfide	6	U
75-35-4	1, 1-Dichloroethene	6	U
75-34-3	1, 1-Dichloroethane	6	U
156-60-5	Trans-1, 2-Dichloroethene	6	U
67-66-3	Chloroform	6	U
107-06-2	1, 2-Dichloroethane	6	U
78-93-3	2-Butanone	13	B
71-55-6	1, 1, 1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	13	U
75-27-4	Bromodichloromethane	6	U

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

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/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.

ASB 001 0112

73

Laboratory Name: ecology and environment, inc.

Case No: 6388

Sample Number: BH224

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 9-11-86

Date Analyzed: 9-12-86

Conc/Dil Factor: 2

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	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	2020	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	2020	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	2020	U
131-11-3	Dimethyl Phthalate	420	U
208-96-8	Acenaphthylene	420	U
99-09-2	3-Nitroaniline	2020	U

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	420	U
51-28-5	2. 4-Dinitrophenol	2020	U
100-02-7	4-Nitrophenol	2020	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	2020	U
534-52-1	4. 6-Dinitro-2-Methylphenol	2020	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	2020	U
85-01-8	Phenanthrene	420	U
120-12-7	Anthracene	420	U
84-74-2	Di-n-Butylphthalate	2040	
206-44-0	Fluoranthene	420	U
129-00-0	Pyrene	420	U
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3. 3'-Dichlorobenzidine	840	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

ASB 001 0113

Laboratory Name ecology and environment, inc.

Case No 6388

Sample Number
BH 224

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared 9-11-86

Date Analyzed 9-17-86

Conc/Dil Factor: 1

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)	
319-84-6	Alpha-BHC	8.0	U
319-85-7	Beta-BHC	8.0	U
319-86-8	Delta-BHC	8.0	U
58-89-9	Gamma-BHC (Lindane)	8.0	U
76-44-8	Heptachlor	8.0	U
309-00-2	Aldrin	8.0	U
1024-57-3	Heptachlor Epoxide	8.0	U
959-98-8	Endosulfan I	8.0	U
60-57-1	Dieldrin	16	U
72-55-9	4,4'-DDE	16	U
72-20-8	Endrin	16	U
33213-65-9	Endosulfan II	16	U
72-54-8	4,4'-DDD	16	U
1031-07-8	Endosulfan Sulfate	16	U
50-29-3	4,4'-DDT	16	U
72-43-5	Methoxychlor	80	U
53494-70-5	Endrin Ketone	16	U
57-74-9	Chlordane	80	U
8001-35-2	Toxaphene	160	U
12674-11-2	Aroclor-1016	80	U
11104-28-2	Aroclor-1221	80	U
11141-16-5	Aroclor-1232	80	U
53469-21-9	Aroclor-1242	80	U
12672-29-6	Aroclor-1248	80	U
11097-69-1	Aroclor-1254	160	U
11096-82-5	Aroclor-1260	160	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 1000 V_i 4

ASB 001 0114

Laboratory Name ecology and environment, inc.

Case No 6388

Sample Number BH224

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.	NO VOLATILE COMPOUNDS FOUND			
2.				
3.	NO SEMI-VOLATILE COMPOUNDS FOUND			
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				

ASB 001 0115

Form 1, Part B

7 85
491095