ENVIRONMENTAL PROTECTION AGENCY
P.O. Box 548, Alexandria, VA 22313 - 703/683-0885

11/19/81 11/20/81 CAB

CASE 6LO
Sample Number
E 0673
145861

11/12/81

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME ENERGY RESOURCES CO. INC.

LAB SAMPLE ID NO. 25-163

QC REPORT NO. 9

82MR01513
MARK HUTSON
FS-8104-05 River upstream from Harbor
CHEMICAL RECOVERY

	ACID COMPOUNDS	ug/l
21A	2,4,6- trichlorophenol	59.
22A	p-chloro-m-cresol	ND
24A	2- chlorophenol	ND
31A	2,4-dichlorophenol	74.
34A	2,4- dimethylphenol	ND
57A	2- nitrophenol	ND
58A	4- nitrophenol	ND
59A	2,4- dinitrophenol	ND
60A	4,6- dinitro-o-cresol	ND
64A	pentachlorophenol	ND
65A	phenol	ND

	BASE/NEUTRAL COMPOUNDS	ug/l
1B	acenaphthene	ND
5B	benzidine	ND
8B	1,2,4- trichlorobenzene	ND
9B	hexachlorobenzene	ND
12B	hexachloroethane	ND
18B	bis(2-chloroethyl)ether	ND
20B	2-chloronaphthalene	ND
25B	1,2-dichlorobenzene	*
26B	1,3-dichlorobenzene	ND
27B	1,4-dichlorobenzene	ND
28B	3,3'-dichlorobenzidine	ND
35B	2,4- dinitrotoluene	ND
36B	2,6- dinitrotoluene	ND
37B	1,2- diphenylhydrazine (as azobenzene)	ND
39B	fluoranthene	ND
40B	4- chlorophenyl phenyl ether	ND
41B	4-bromophenyl phenyl ether	ND
42B	bis (2-chloroisopropyl) ether	ND
43B	bis (2-chloroethoxy) methane	ND
52B	hexachlorobutadiene	ND
53B	hexachlorocyclopentadiene	ND
54B	isophorone	ND
55B	naphthalene	ND
56B	nitrobenzene	ND
61B	N-nitrosodimethylamine	ND
62B	N-nitrosodiphenylamine	ND
63B	N-nitrosodi-n-propylamine	ND
66B	bis (2-ethylhexyl) phthalate	18.
67B	butyl benzyl phthalate	ND
68B	di-n-butyl phthalate	ND
69B	di-n-octyl phthalate	ND
70B	diethyl phthalate	*
71B	dimethyl phthalate	ND
72B	benzo(a)anthracene	ND
73B	benzo(a)pyrene	ND
74B	3,4-benzofluoranthene	ND
75B	benzo(k)fluoranthene	ND
76B	chrysene	ND
77B	acenaphthylene	ND
78B	anthracene	ND
79B	benzo(ghi)perylene	ND
80B	fluorene	ND
81B	phenanthrene	ND
82B	dibenzo(a,h)anthracene	ND
83B	indeno(1,2,3-cd)pyrene	ND
84B	pyrene	ND

Case 6028
Sample Number
E 0673

ORGANICS ANALYSIS DATA SHEET - Page 2

ABORATORY NAME ENERGY RESOURCES CO. INC.

AB SAMPLE ID NO. 25-163

C REPORT NO. 9

	VOLATILES	ug/l
'	acrolein	ND
'	acrylonitrile	ND
'	benzene	ND
'	carbon tetrachloride	ND
'	chlorobenzene	ND
1V	1,2-dichloroethane	ND
V	1,1,1-trichloroethane	ND
1V	1,1-dichloroethane	ND
V	1,1,2-trichloroethane	ND
5V	1,1,2,2-tetrachloroethane	ND
6V	chloroethane	ND
9V	2-chloroethylvinyl ether	ND
3V	chloroform	ND
9V	1,1-dichloroethylene	ND
0V	1,2-trans-dichloroethylene	ND
2V	1,2-dichloropropane	ND
3V	1,3-dichloropropylene	ND
3V	ethylbenzene	ND
4V	methylene chloride	12
5V	methyl chloride	ND
6V	methyl bromide	ND
7V	bromoform	ND
8V	dichlorobromomethane	ND
9V	trichlorofluoromethane	ND
0V	dichlorodifluoromethane	ND
1V	chlorodibromomethane	ND
5V	tetrachloroethylene	ND
6V	toluene	ND
7V	trichloroethylene	ND
8V	vinyl chloride	ND

	PESTICIDES	ug/l
89P	aldrin	ND
90P.	dieldrin	ND
91P	chlordane	ND
92P	4,4'-DDT	ND
93P	4,4'-DDE	ND
94P	4,4'-DDD	ND
95P	α -endosulfan	ND
96P	β -endosulfan	ND
97P	endosulfan sulfate	ND
98P	endrin	ND
99P	endrin aldehyde	ND
100P	heptachlor	ND
101P	heptachlor epoxide	ND
102P	α -BHC	ND
103P	β -BHC	ND
104P	δ -BHC	ND
105P	γ -BHC	ND
106P	PCB-1242	ND
107P	PCB-1254	ND
108P	PCB-1221	ND
109P	PCB-1232	ND
110P	PCB-1248	ND
111P	PCB-1260	ND
112P	PCB-1016	ND
113P	toxaphene	ND

	DIOXINS	
129B	2,3,7,8-tetrachlorodibenzo-p-dioxin	ND

*Less than 10 ug/l
(pesticides less than 0.1 ug/l)

ND = Not detected

ORGANICS ANALYSIS DATA SHEET - Page 3

Lab Name: ENERGY RESOURCES CO. INC.

QC Report No: 9

Case 628

Sample Number
E0673

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc. (ug/l)	(Surrogates only) Spike Added (ug/l)	% Recovery
d_6-phenol	Acid	56.	100.	56%
fluorophenol	Acid	98.	100.	98%
d_5-nitrobenzene	B/N	106.	100.	106%
d_8-naphthalene	B/N	73.	100.	73%
d_5-pyridine	B/N	104.	100.	104%
d_6-benzene	VOA	96.	100.	96%
d_8-toluene	VOA	93.	100.	93%

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	Fraction	% Maximum Score Attained Mass Matching Routine: HP PBS (specify)
1.	00000 88062	R.T. = 13.0 2,4,6-trichlorophenol	Acid	Computer match 86.11%
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.			3	

11/5/81 CJ4 Chemical Recovery FOS-8104-05

U.S. ENVIRONMENTAL PROTECTION AGENCY - HWI Sample Management Office
P.O. Box 818 - Alexandria, Virginia 22313 - 703/ 557-2490/FTS-8-557-2490

11/6/81 CAB

MARK HUTSON

INORGANICS ANALYSIS DATA SHEET 82MR015/3

585-210 upstream from Hanslan

LABORATORY NAME Versar SAMPLE NO. ME 8334

LAB SAMPLE ID NO. 6409 QC REPORT NO.

TASK 1 (Elements to be identified and measured)

		ug/l			ug/l
1.	Aluminum	550.	10.	Nickel	<20.
2.	Chromium	<10.	11.	Manganese	100.
3.	Barium	50.	12.	Zinc	<10.
4.	Beryllium	<2.	13.	Boron	80.
5.	Cadmium	<5.	14.	Vanadium	<10.
6.	Cobalt	<10.	15.	Calcium	67,900.
7.	Copper	<20.	16.	Magnesium	18,200.
8.	Iron	900.	17.	Sodium	23,000.
9.	Lead	<40.			

TASK 2 (Elements to be identified and measured)

		ug/l			ug/l
1.	Arsenic	<10.	5.	Mercury	<1.
2.	Antimony	<20.	6.	Tin	<20.
3.	Selenium	<10.	7.	Silver	<20.
4.	Thallium	<10.			

TASK 3 (Elements to be identified and measured)

1.	Ammonia	mg/l	4.	Cyanide	mg/l
2.	Fluoride	mg/l	5.	pH	Units
3.	Sulfide	mg/l	6.	TOC	mg/l

COMMENTS:

a) with a detection limit of
b) with a detection limit of
c) with a detection limit of
d) analyzed on a sample aliquot preserved with HCl from F/pH sample bottle
e) average of two replicate determinations
f) insufficient sample aliquot