ENVIRONMENTAL PROTECTION AGENCY - IWI Sample Management Office
Washington, VA 22313 - 703/683-0885

10/14/81 09

CHEMICAL RECOVERY - ELYRIA

Case 900
Sample Number 145834
E0631

ORGANICS ANALYSIS DATA SHEET

OH-293-20

LABORATORY NAME ENERGY RESOURCES CO. INC. MARK HUTSON F5-8104-5 81MC09509

LAB SAMPLE ID NO. 25-150 EE1B487 Well #1

QC REPORT NO. 7 Transmitted 10/15/81 bc

	ACID COMPOUNDS	ppb ug/l
21A	2,4,6- trichlorophenol	ND
22A	p-chloro-m-cresol	ND
24A	2- chlorophenol	ND
31A	2,4-dichlorophenol	ND
34A	2,4- dimethylphenol	45.
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	590.

	BASE/NEUTRAL COMPOUNDS	
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	*
25B	1,2-dichlorobenzene	ND
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	*
40B	4- chlorophenyl phenyl ether	ND

	BASE/NEUTRAL COMPOUNDS	ug/l
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	130.
56B	nitrobenzene	ND
61B	N-nitrosodimethylamine	ND
62B	N-nitrosodiphenylamine	ND
63B	N-nitrosodi-n-propylamine	ND
66B	bis (2-ethylhexyl) phthalate	27.
67B	butyl benzyl phthalate	*
68B	di-n-butyl phthalate	*
69B	di-n-octyl phthalate	ND
70B	diethyl phthalate	ND
71B	dimethyl phthalate	*
72B	benzo(a)anthracene	*
73B	benzo(a)pyrene	*
74B	3,4-benzofluoranthene	ND
75B	benzo(k)fluoranthene	*
76B	chrysene	*
77B	acenaphthylene	ND
78B	anthracene/phenanthrene	*
79B	benzo(ghi)perylene	ND
80B	fluorene	*
81B	phenanthrene	See 78B
82B	dibenzo(a,h)anthracene	ND
83B	indeno(1,2,3-cd)pyrene	ND
84B	pyrene	*

Sample Number
E 0631

ORGANICS ANALYSIS DATA SHEET - Page 2

LABORATORY NAME ENERGY RESOURCES CO. INC.

LAB SAMPLE ID NO. 25-150

QC REPORT NO. 7

	VOLATILES	ug/l
V	acrolein	ND
V	acrylonitrile	ND
V	benzene	1100.
V	carbon tetrachloride	ND
V	chlorobenzene	ND
0V	1,2-dichloroethane	ND
1V	1,1,1-trichloroethane	12,000
3V	1,1-dichloroethane	ND
4V	1,1,2-trichloroethane	ND
5V	1,1,2,2-tetrachloroethane	ND
16V	chloroethane	ND
19V	2-chloroethylvinyl ether	ND
23V	chloroform	ND
29V	1,1-dichloroethylene	ND
30V	1,2-trans-dichloroethylene	6100.
32V	1,2-dichloropropane	ND
33V	1,3-dichloropropylene	ND
38V	ethylbenzene	14,000.
44V	methylene chloride	71,000.
45V	methyl chloride	ND
46V	methyl bromide	ND
47V	bromoform	ND
48V	dichlorobromomethane	ND
49V	trichlorofluoromethane	ND
50V	dichlorodifluoromethane	ND
51V	chlorodibromomethane	ND
85V	tetrachloroethylene	ND
86V	toluene	100,000.
87V	trichloroethylene	6300.
88V	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	18.
108P	PCB-1221	ND
109P	PCB-1232	ND
110P	PCB-1248	29.
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

Lab Name: ENERGY RESOURCES CO., INC.

QC Report No: 7

Case 588

Sample Number: E0631

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc. (ug/l)	(Surrogates only) Spike Added (ug/l)	% Recovery
d6-phenol	Acid	72.	100.	72%
fluorophenol	Acid	101.	100.	101%
d8-naphthalene	B/N	26.	100.	26%
d5-nitrobenzene	B/N	88.	100.	88%
d5-pyridine	B/N	52.	100.	52%
d6-benzene	VOA	68.	100.	68%
d8-toluene	VOA	71.	100.	71%

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	Fraction	% Maximum Score Attained Mass Matching Routine: HP-PBS (specify)
1.	00000 78933	R.T. = 12.4 2 Butanone	VOA	Computer match 97.41%
2.	00001 06423	R.T. = 32.1 1,4 dimethyl benzene	VOA	Computer match 98.08 %
3.	00001 08383	R.T. = 33.2 1,3 dimethyl benzene	VOA	Computer match 98.06 %
4.	00042 51165	R.T. = 4.1 propyl thiocyanic acid ester	Acid	Computer match 97.74%
5.	00006 07996	R.T. = 45 Butanoic Acid	Acid	Computer match 97.69%
6.	00001 49575	R.T. = 8.7 2-ethyl-hexanoic acid	Acid	Computer match 97.88 %
7.		R.T. = 10.2 Cyclohexanetetrol-1,2,4,5	Acid	Ref. book match 24070 # 23425
8.	00001 89101	R.T. = 13.4 2-methyl-Benzoic acid	Acid	Computer match 98.10%
9.	00035 38609	R.T. = 14.6 2-butenyl-benzene	Acid	Computer match 98.00 %
10.	00011 42072	R.T. = 3.8 1-ethenyl-3-methylene-Cyclopentane	B/N	Computer match 85.51%
11.	00001 06423	R.T. = 4.8 1,4-dimethyl benzene	B/N	Computer match 98.08 %
12.		R.T. = 6.6 Unknown	B/N	
13.	00001 08678	R.T. = 7.0 1,3,5-trimethyl-Benzene	B/N	Computer match 98.07%
14.	00006 20144	R.T. = 7.9 1-ethyl-3-methyl-Benzene	B/N	Computer match 98.08%
15.	00006 30024	R.T. = 8.4 Octacosane	B/N	Computer match 98.31%
16.	00005 35773	R.T. = 9.7 1-methyl-3-(1-methylethyl)-Benzene	B/N	Computer match 97.94%
17.				
18.				
19.				
20.				

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

Chemical Recovery

MARK HUTSON
F 5-8104-5
SEP 2 1 1981
Well #1

INORGANICS ANALYSIS DATA SHEET

585-180 EB1B487 transmitted 9/24/81 by: 81 MC09509

LABORATORY NAME Versar Inc. SAMPLE NO. ME 8264

LAB SAMPLE ID NO. 5650 QC REPORT NO.

TASK 1 (Elements to be identified and measured)

		ug/l			ug/l
1.	Aluminum	136,000.[c]	10.	Nickel	460.
2.	Chromium	1,620.	11.	Manganese	6560.
3.	Barium	164.	12.	Zinc	4,550.
4.	Beryllium	8.	13.	Boron	1,450.
5.	Cadmium	300.	14.	Vanadium	290.
6.	Cobalt	280.	15.	Calcium	742,000.
7.	Copper	1,000.	16.	Magnesium	125,000.
8.	Iron	276,000.	17.	Sodium	597,000.
9.	Lead	840.			

TASK 2 (Elements to be identified and measured)

		ug/l			ug/l
1.	Arsenic	700.[a]	5.	Mercury	<1.
2.	Antimony	70.	6.	Tin	120.[b]
3.	Selenium	<100.[b]	7.	Silver	< 100.
4.	Thallium	<200.[a]			

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 200.
b) with a detection limit of 100.
c) with a detection limit of 1,000.
d) analyzed on a sample aliquot preserved with HCl from F/pH sample bottle
e) average of two replicate determinations
f) insufficient sample aliquot