

Gascogne Laboratories, Inc.

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REPORT OF ANALYSIS

Report No. 87-4519

Report Date 9-28-87

Report To: ENPRO

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Sample I.D. Wipe samples as below

RECEIVED SEPT 30 1987

<u>Sample I.D.</u>	<u>F1</u>	<u>F2</u>	<u>F3</u>	<u>F4</u>	<u>G1</u>	<u>G2</u>
Arsenic (As)	7.8	4.5	2.7	6.4	2.9	4.0
Barium (Ba)	70	80	< 50	60	70	70
Cadmium (Cd)	120	240	17	260	7	3
Chromium (Cr)	210	250	410	210	68	170
Lead (Pb)	610	800	340	590	340	880
Mercury (Hg)	< 50	< 50	< 50	< 50	< 50	< 50
Selenium (Se)	4.6	0.6	< 0.5	0.9	0.9	0.6
Silver (Ag)	4	22	71	12	25	14

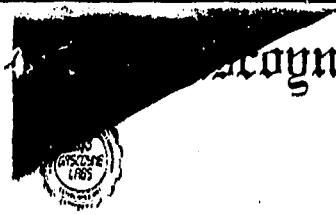
<u>Sample I.D.</u>	<u>HUT1</u>	<u>S01</u>	<u>F04</u>
Arsenic (As)	4.3	1.7	2.9
Barium (Ba)	50	50	< 50
Cadmium (Cd)	72	15	31
Chromium (Cr)	230	70	1800
Lead (Pb)	1200	270	830
Mercury (Hg)	< 50	< 50	< 50
Selenium (Se)	2.2	0.5	0.7
Silver (Ag)	11	31	29

Note: Results are expressed in micrograms/swipe.

AR100109

Irving M. Kipnis
Laboratory Director

Please see reverse side for explanations and other information. Irving M. Kipnis, Ph.D.



Watkins Laboratories, Inc.

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Sample I.D. Wipe samples

<u>Sample I.D.</u>	<u>Cyanide (CN)</u>	<u>Chloride (Cl)</u>	<u>Fluoride (F)</u>	<u>Sulfide (S)</u>
FO	54	8000	20	< 10
SO-1	53	4800	160	< 10
G-1	73	5000	6.6	< 10
G-2	240	12000	< 1	< 10
Hut-1	120	29000	< 1	< 10
F 1	440	82000	< 1	< 10
F 2	220	200000	< 1	< 10
F 3	120	24000	23	< 10
F 4	32	13000	19	< 10

Note: Results expressed as milligrams/swipe.

AR100110

Laboratory Director

Irving M. Kipnis, Ph.D.

Please see reverse side for explanations and other information.

Gascoyne Laboratories, Inc.

DR. W. J. GASCOYNE
1887-1938

W. J. GASCOYNE, JR.
1938-1952

W. J. GASCOYNE, III
1952-1978



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AR100111

Gascoyne Laboratories, Inc.

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1938-1952
W J GASCOYNE, III
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Section I

E.P. Toxicity Data

AR100112

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Sample I.D. #254

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.1	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	< 0.01	1.0 max.
Chromium (Cr)	< 0.1	5.0 max.
Lead (Pb)	0.2	5.0 max.
Mercury (Hg)	< 0.01	0.2 max.
Selenium (Se)	< 0.1	1.0 max.
Silver (Ag)	0.05	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

Ignitability

Flash Point > 200 degrees F above 140 degrees

Corrosivity

pH 7.5 2-12.5

Reactivity

Reaction with water	None	None
Reactive Cyanide (CN)	19	250 mg/kg
Reactive Sulfide (S)	< 2	500 mg/kg

AR100113


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Account: 11-1173

Order Date: October 2, 1981

Order #: 1111

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Sample ID: V10-

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	0.29	1.0 max.
Chromium (Cr)	< 0.1	5.0 max.
Lead (Pb)	59	5.0 max.
Mercury (Hg)	< 0.01	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	< 0.01	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

Ignitability

Flash Point > 200 degrees F above 140 degrees

Corrosivity

pH 9.8 2-12.5

Reactivity

Reaction with water	None	None
Reactive Cyanide (CN)	< 1	250 mg/kg
Reactive Sulfide (S)	< 1	500 mg/kg

AR100114


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Sample I.D. #265

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	0.89	1.0 max.
Chromium (Cr)	< 0.1	5.0 max.
Lead (Pb)	3.0	5.0 max.
Mercury (Hg)	< 0.01	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	< 0.01	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

Ignitability

Flash Point > 200 degrees F above 140 degrees

Corrosivity

pH 8.6 2-12.5

Reactivity

Reaction with water	None	None
Reactive Cyanide (CN)	< 1	250 mg/kg
Reactive Sulfide (S)	< 1	500 mg/kg

AR100115

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Sample I.D. #266

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	0.29	1.0 max.
Chromium (Cr)	< 0.1	5.0 max.
Lead (Pb)	0.1	5.0 max.
Mercury (Hg)	< 0.01	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	< 0.01	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

Ignitability

Flash Point > 200 degrees F above 140 degrees

Corrosivity

pH 8.8 2-12.5

Reactivity

Reaction with water	None	None
Reactive Cyanide (CN)	< 1	250 mg/kg
Reactive Sulfide (S)	< 1	500 mg/kg

AR100116

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Sample I.D. #268

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	< 0.01	1.0 max.
Chromium (Cr)	0.2	5.0 max.
Lead (Pb)	0.1	5.0 max.
Mercury (Hg)	< 0.01	0.2 max.
Selenium (Se)	< 0.05	1.0 max.
Silver (Ag)	< 0.01	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

Ignitability

Flash Point > 200 degrees F above 140 degrees

Corrosivity

pH 10.7 2-12.5

Reactivity

Reaction with water	None	None
Reactive Cyanide (CN)	< 1	250 mg/kg
Reactive Sulfide (S)	< 1	500 mg/kg

AR100117

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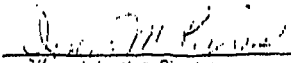
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Sample I.D. #275

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	0.02	1.0 max.
Chromium (Cr)	< 0.1	5.0 max.
Lead (Pb)	< 0.1	5.0 max.
Mercury (Hg)	< 0.1	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	< 0.01	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100118


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Sample I.D. #280

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	0.11	5.0 max.
Barium (Ba)	6	100.0 max.
Cadmium (Cd)	0.02	1.0 max.
Chromium (Cr)	< 0.1	5.0 max.
Lead (Pb)	0.1	5.0 max.
Mercury (Hg)	< 0.01	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	< 0.01	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

Ignitability

Flash Point > 200 degrees F above 140 degrees

Corrosivity

pH 11.5 2-12.5

Reactivity

Reaction with water	None	None
Reactive Cyanide (CN)	< 1	250 mg/kg
Reactive Sulfide (S)	< 1	500 mg/kg

AR100119


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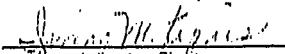
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Sample I.D. #284

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.05	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	< 0.01	1.0 max.
Chromium (Cr)	< 0.1	5.0 max.
Lead (Pb)	< 0.3	5.0 max.
Mercury (Hg)	< 0.01	0.2 max.
Selenium (Se)	< 0.05	1.0 max.
Silver (Ag)	< 0.01	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100120


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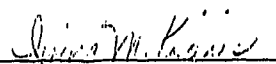
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Sample I.D. #285

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.1	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	< 0.01	1.0 max.
Chromium (Cr)	< 0.1	5.0 max.
Lead (Pb)	0.2	5.0 max.
Mercury (Hg)	< 0.01	0.2 max.
Selenium (Se)	< 0.05	1.0 max.
Silver (Ag)	< 0.01	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100121


Laboratory Director
Irving M. Kipnis, Ph.

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Sample I.D. #286

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	< 0.01	1.0 max.
Chromium (Cr)	< 0.1	5.0 max.
Lead (Pb)	0.1	5.0 max.
Mercury (Hg)	< 0.01	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	< 0.01	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100122


Laboratory Director

(Irving M. Kipnis, Ph.D)

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Sample I.D. #287

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	0.38	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	< 0.01	1.0 max.
Chromium (Cr)	< 0.1	5.0 max.
Lead (Pb)	0.2	5.0 max.
Mercury (Hg)	0.05	0.2 max.
Selenium (Se)	< 0.05	1.0 max.
Silver (Ag)	0.06	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100123


Laboratory Director
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Sample I.D. #288

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	< 0.01	1.0 max.
Chromium (Cr)	0.2	5.0 max.
Lead (Pb)	0.2	5.0 max.
Mercury (Hg)	< 0.01	0.2 max.
Selenium (Se)	< 0.05	1.0 max.
Silver (Ag)	< 0.01	5.0 max.



Note: Results are expressed in mg/liter of EP extract.

AR100124

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Cascoyne Laboratories, Inc.

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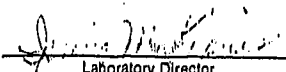
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Sample I.D. #289

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	0.04	1.0 max.
Chromium (Cr)	< 0.1	5.0 max.
Lead (Pb)	0.3	5.0 max.
Mercury (Hg)	< 0.01	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	0.03	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100125


Laboratory Director
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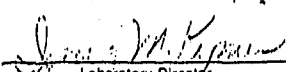
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Sample I.D.#291

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.05	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	1.7	1.0 max.
Chromium (Cr)	< 0.1	5.0 max.
Lead (Pb)	< 0.1	5.0 max.
Mercury (Hg)	< 0.01	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	0.06	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100126


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Sample I.D.#300

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	0.08	1.0 max.
Chromium (Cr)	< 0.1	5.0 max.
Lead (Pb)	26	5.0 max.
Mercury (Hg)	< 0.01	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	< 0.01	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100127

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Sample I.D. #309-S

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.1	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	1.8	1.0 max.
Chromium (Cr)	1.0	5.0 max.
Lead (Pb)	1.0	5.0 max.
Mercury (Hg)	0.02	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	0.50	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100128

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Sample I.D. #311-S

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.1	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	0.32	1.0 max.
Chromium (Cr)	0.6	5.0 max.
Lead (Pb)	0.1	5.0 max.
Mercury (Hg)	< 0.01	0.2 max.
Selenium (Se)	< 0.1	1.0 max.
Silver (Ag)	0.08	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100129

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Sample I.D.# 314-S

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.1	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	0.17	1.0 max.
Chromium (Cr)	2.0	5.0 max.
Lead (Pb)	0.9	5.0 max.
Mercury (Hg)	0.12	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	0.46	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100130


Laboratory Director
Irving H. Ripnis, Ph.D.

Please see reverse side for explanations and other information.

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REPORT OF ANALYSIS

Report No. 87-4379

Report Date October 5, 1987

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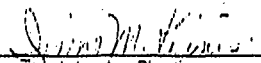
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Sample I.D.# 325

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	9.5	1.0 max.
Chromium (Cr)	0.1	5.0 max.
Lead (Pb)	8.6	5.0 max.
Mercury (Hg)	< 0.01	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	0.02	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100131


Laboratory Director
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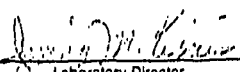
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Sample I.D.# 326

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	0.63	1.0 max.
Chromium (Cr)	< 0.1	5.0 max.
Lead (Pb)	7.5	5.0 max.
Mercury (Hg)	< 0.01	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	0.19	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100132


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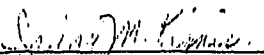
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Sample I.D. #335

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.1	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	0.52	1.0 max.
Chromium (Cr)	1.3	5.0 max.
Lead (Pb)	0.1	5.0 max.
Mercury (Hg)	0.40	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	0.54	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100133


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Sample I.D. #339

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.10	5.0 max.
Barium (Ba)	< 2	100.0 max.
Cadmium (Cd)	0.49	1.0 max.
Chromium (Cr)	< 0.6 <i>LL</i>	5.0 max.
Lead (Pb)	4.1	5.0 max.
Mercury (Hg)	< 0.01	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	0.64	5.0 max.



Note: Results are expressed in mg/liter of EP extract.

AR100134



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Sample I.D.# 339

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.10	5.0 max.
Barium (Ba)	2	100.0 max.
Cadmium (Cd)	0.49	1.0 max.
Chromium (Cr)	1.6	5.0 max.
Lead (Pb)	4.1	5.0 max.
Mercury (Hg)	< 0.01	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	0.64	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100135

James M. Kipnis
Laboratory Director

IRVING H. KIPNIS, Ph.D.

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Sample I.D. #357

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	0.59	1.0 max.
Chromium (Cr)	0.3	5.0 max.
Lead (Pb)	0.7	5.0 max.
Mercury (Hg)	< 0.01	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	< 0.01	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100136

Laboratory Director
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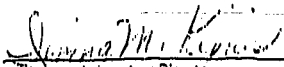
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Sample I.D. #361

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	< 1'	100.0 max.
Cadmium (Cd)	0.02	1.0 max.
Chromium (Cr)	< 0.1	5.0 max.
Lead (Pb)	0.7	5.0 max.
Mercury (Hg)	0.07	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	0.03	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100137


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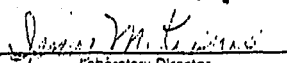
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Sample I.D. #367

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	1.5	1.0 max.
Chromium (Cr)	2.2	5.0 max.
Lead (Pb)	2.0	5.0 max.
Mercury (Hg)	1.5	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	6.1	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100138


Laboratory Director
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Sample I.D. #368

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	0.78	1.0 max.
Chromium (Cr)	< 0.1	5.0 max.
Lead (Pb)	0.1	5.0 max.
Mercury (Hg)	< 0.01	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	< 0.01	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100139

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Irving M. Kipnis, Ph.D.

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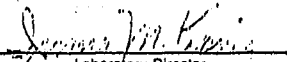
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Sample I.D.# 371

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.1	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	0.46	1.0 max.
Chromium (Cr)	0.1	5.0 max.
Lead (Pb)	4.8	5.0 max.
Mercury (Hg)	1.3	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	< 0.01	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100140


Laboratory Director
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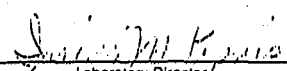
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Sample I.D.# 372

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	0.14	1.0 max.
Chromium (Cr)	< 0.1	5.0 max.
Lead (Pb)	< 0.1	5.0 max.
Mercury (Hg)	< 0.01	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	< 0.01	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100141


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Sample I.D. #377

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.1	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	0.04	1.0 max.
Chromium (Cr)	2.7	5.0 max.
Lead (Pb)	0.9	5.0 max.
Mercury (Hg)	0.098	0.2 max.
Selenium (Se)	< 0.1	1.0 max.
Silver (Ag)	0.45	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100142

J. M. Kipnis
Laboratory Director
GAYLING H. KIPNIS, Ph.D.

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Sample I.D.# 397

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	0.02	1.0 max.
Chromium (Cr)	0.1	5.0 max.
Lead (Pb)	0.1	5.0 max.
Mercury (Hg)	0.45	0.2 max.
Selenium (Se)	< 0.05	1.0 max.
Silver (Ag)	< 0.01	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

Ignitability

Flash Point > 200 degrees F above 140 degrees

Corrosivity

pH 10.6 2-12.5

Reactivity

Reaction with water	None	None
Reactive Cyanide (CN)	< 1	250 mg/kg
Reactive Sulfide (S)	< 1	500 mg/kg

AR100143

Irving M. Ripnis

Laboratory Director
Irving M. Ripnis, Ph.D.

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Sample I.D. #405

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	0.16	1.0 max.
Chromium (Cr)	< 0.1	5.0 max.
Lead (Pb)	1.8	5.0 max.
Mercury (Hg)	0.07	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	0.03	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100144

James M. Kipnis
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JAMES M. KIPNIS, Ph.D.

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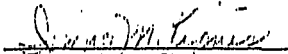
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Sample I.D. #407

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	0.06	1.0 max.
Chromium (Cr)	< 0.1	5.0 max.
Lead (Pb)	3.7	5.0 max.
Mercury (Hg)	< 0.01	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	0.01	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100145


Laboratory Director
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Sample I.D. #408

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	5.3	1.0 max.
Chromium (Cr)	0.4	5.0 max.
Lead (Pb)	0.5	5.0 max.
Mercury (Hg)	3.6	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	0.25	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100146


Laboratory Director, Irving H. Kipnis, Ph.D.

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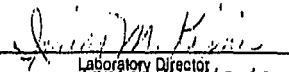
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Sample I.D.# 412

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	0.12	1.0 max.
Chromium (Cr)	< 0.1	5.0 max.
Lead (Pb)	0.4	5.0 max.
Mercury (Hg)	< 0.01	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	< 0.01	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100147


Laboratory Director
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Sample I.D. #413

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	0.28	1.0 max.
Chromium (Cr)	3.8	5.0 max.
Lead (Pb)	< 0.1	5.0 max.
Mercury (Hg)	< 0.2	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	0.36	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100148

James M. Lipnis
Laboratory Director

James M. Lipnis, Ph.D.

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Sample I.D.# 417

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	6.6	1.0 max.
Chromium (Cr)	< 0.1	5.0 max.
Lead (Pb)	< 0.1	5.0 max.
Mercury (Hg)	0.55	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	0.12	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100149

Irving M. Kipnis
Laboratory Director
Irving M. Kipnis, Ph.D.

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Sample I.D.# 418

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	2.6	1.0 max.
Chromium (Cr)	1.0	5.0 max.
Lead (Pb)	0.1	5.0 max.
Mercury (Hg)	15	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	0.26	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100150

Irving M. Kipnis
Laboratory Director

Irving M. Kipnis, Ph.D.

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Sample I.D.# 419

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	3.1	1.0 max.
Chromium (Cr)	< 0.1	5.0 max.
Lead (Pb)	< 0.1	5.0 max.
Mercury (Hg)	0.03	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	0.02	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

Irving M. Kipnis
Laboratory Director
Irving M. Kipnis, Ph.D.

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Sample I.D. #420

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	0.02	1.0 max.
Chromium (Cr)	< 0.1	5.0 max.
Lead (Pb)	< 0.1	5.0 max.
Mercury (Hg)	< 0.2	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	1.05	5.0 max.



Note: Results are expressed in mg/liter of EP extract.

AR100152



Irving M. Kipnis
Laboratory Director
Irving M. Kipnis, Ph.D.

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REPORT OF ANALYSIS

Report No. 87-4379

Report Date October 5, 1987

Report To: ENPRO

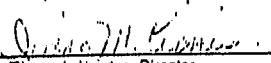
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Sample I.D./421

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	50	1.0 max.
Chromium (Cr)	< 0.1	5.0 max.
Lead (Pb)	5.8	5.0 max.
Mercury (Hg)	< 0.01	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	0.12	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100153


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Sample I.D.#422

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 1	5.0 max.
Barium (Ba)	5	100.0 max.
Cadmium (Cd)	94	1.0 max.
Chromium (Cr)	4.4	5.0 max.
Lead (Pb)	260	5.0 max.
Mercury (Hg)	2.3	0.2 max.
Selenium (Se)	< 0.5	1.0 max.
Silver (Ag)	61	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100154

J. M. Kipnis
Laboratory Director
W. H. Kipnis, Ph.D.

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Sample I.D.#428

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	1	100.0 max.
Cadmium (Cd)	0.66	1.0 max.
Chromium (Cr)	< 0.1	5.0 max.
Lead (Pb)	0.2	5.0 max.
Mercury (Hg)	0.02	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	0.01	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100155


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Sample I.D.# 433

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.1	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	< 0.01	1.0 max.
Chromium (Cr)	0.1	5.0 max.
Lead (Pb)	0.2	5.0 max.
Mercury (Hg)	< 0.01	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	0.02	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100156

Joseph M. Kipnis
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JOSEPH M. KIPNIS, Ph.D.

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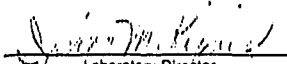
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Sample I.D. #435

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	0.03	1.0 max.
Chromium (Cr)	< 0.1	5.0 max.
Lead (Pb)	0.1	5.0 max.
Mercury (Hg)	< 0.01	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	< 0.01	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100157


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Sample I.D.# 437

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	0.02	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	0.01	1.0 max.
Chromium (Cr)	< 0.1	5.0 max.
Lead (Pb)	0.3	5.0 max.
Mercury (Hg)	< 0.01	0.2 max.
Selenium (Se)	< 0.05	1.0 max.
Silver (Ag)	< 0.01	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100158


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Sample I.D.#444

EP Toxicity

Test Results

Requirements

Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	0.38	1.0 max.
Chromium (Cr)	< 0.1	5.0 max.
Lead (Pb)	0.3	5.0 max.
Mercury (Hg)	< 0.01	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	< 0.01	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100159

James M. Kasper
Laboratory Director

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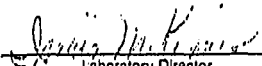
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Sample I.D.# 445

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	1	100.0 max.
Cadmium (Cd)	0.55	1.0 max.
Chromium (Cr)	< 0.1	5.0 max.
Lead (Pb)	38	5.0 max.
Mercury (Hg)	< 0.01	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	< 0.01	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100160


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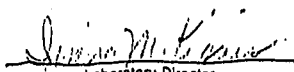
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Sample I.D.# 447

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	0.20	1.0 max.
Chromium (Cr)	< 0.1	5.0 max.
Lead (Pb)	3.7	5.0 max.
Mercury (Hg)	< 0.01	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	< 0.01	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100161


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Sample I.D.#480

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<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	1.05	1.0 max.
Chromium (Cr)	< 0.1	5.0 max.
Lead (Pb)	0.1	5.0 max.
Mercury (Hg)	< 0.01	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	0.20	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR1001E

James M. Kipnis
Laboratory Director
James M. Kipnis, Ph.D.

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Sample I.D.# 482

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	2.8	1.0 max.
Chromium (Cr)	< 0.1	5.0 max.
Lead (Pb)	0.3	5.0 max.
Mercury (Hg)	< 0.01	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	0.03	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100163

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Sample I.D. #483

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	3.9	1.0 max.
Chromium (Cr)	< 0.1	5.0 max.
Lead (Pb)	2.6	5.0 max.
Mercury (Hg)	< 0.01	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	0.04	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100164


Laboratory Director
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Sample I.D.# 484

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	0.35	1.0 max.
Chromium (Cr)	< 0.1	5.0 max.
Lead (Pb)	0.3	5.0 max.
Mercury (Hg)	< 0.01	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	0.04	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100165

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Sample I.D.#489

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	5.1	1.0 max.
Chromium (Cr)	< 0.1	5.0 max.
Lead (Pb)	55	5.0 max.
Mercury (Hg)	< 0.01	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	0.06	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100166


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Sample I.D.# 532

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.05	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	< 0.01	1.0 max.
Chromium (Cr)	< 0.1	5.0 max.
Lead (Pb)	< 0.1	5.0 max.
Mercury (Hg)	< 0.01	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	0.04	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

Ignitability

Flash Point > 200 degrees F above 140 degrees

Corrosivity

pH 4.2 2-12.5

Reactivity

Reaction with water	None	None
Reactive Cyanide (CN)	< 1	250 mg/kg
Reactive Sulfide (S)	< 1	500 mg/kg

AR100167


Laboratory Director
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Sample I.D./ 533

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	0.02	1.0 max.
Chromium (Cr)	< 0.1	5.0 max.
Lead (Pb)	3.6	5.0 max.
Mercury (Hg)	< 0.01	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	0.01	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100168

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Sample I.D./536

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	31	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	13	1.0 max.
Chromium (Cr)	84	5.0 max.
Lead (Pb)	0.8	5.0 max.
Mercury (Hg)	< 0.1	0.2 max.
Selenium (Se)	< 0.1	1.0 max.
Silver (Ag)	0.20	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100169

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Sample I.D. #539

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.05	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	0.09	1.0 max.
Chromium (Cr)	< 0.1	5.0 max.
Lead (Pb)	0.1	5.0 max.
Mercury (Hg)	< 0.01	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	< 0.01	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

Ignitability

Flash Point > 200 degrees F above 140 degrees

Corrosivity

pH 6.2 2-12.5

Reactivity

Reaction with water	None	None
Reactive Cyanide (CN)	< 1	250 mg/kg
Reactive Sulfide (S)	< 1	500 mg/kg

AR100170

James M. Kippie
Laboratory Director
Irving M. Kippie, Ph.D.

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Sample ID# 541

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	0.08	1.0 max.
Chromium (Cr)	< 0.1	5.0 max.
Lead (Pb)	4100	5.0 max.
Mercury (Hg)	< 0.01	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	0.20	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100171

Irving M. Kipnis

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Sample I.D.# 542

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	2	100.0 max.
Cadmium (Cd)	0.62	1.0 max.
Chromium (Cr)	0.3	5.0 max.
Lead (Pb)	29	5.0 max.
Mercury (Hg)	0.022	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	0.18	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100172

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Sample 2#5-5

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.01	5.0 max.
Barium (Ba)	1	100.0 max.
Cadmium (Cd)	3.5	1.0 max.
Chromium (Cr)	0.1	5.0 max.
Lead (Pb)	7.0	5.0 max.
Mercury (Hg)	< 0.01	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	< 0.01	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100173

Irving M. Kipnis
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Sample I.D.#548

<u>EP Toxicity</u>	<u>Test Results</u>	<u>Requirements</u>
Arsenic (As)	< 0.1	5.0 max.
Barium (Ba)	< 1	100.0 max.
Cadmium (Cd)	0.42	1.0 max.
Chromium (Cr)	< 0.1	5.0 max.
Lead (Pb)	3.0	5.0 max.
Mercury (Hg)	30	0.2 max.
Selenium (Se)	< 0.01	1.0 max.
Silver (Ag)	0.06	5.0 max.

Note: Results are expressed in mg/liter of EP extract.

AR100174


Laboratory Director
IRVING M. RIPNIA, Ph.D.

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Gascoyne Laboratories, Inc.

DR. W. J. GASCOYNE
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W. J. GASCOYNE, JR.
1938-1952
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Section II

Aqua Regia Data

AR100175

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Report No. 87-4379

Report Date October 5, 1987

Report To: ENPRO

Page 1 of 3

Sample I.D. Submitted Waste

<u>Location #</u>	<u>pH</u>	<u>Chloride</u>	<u>Nitrate</u>	<u>Sulfate</u>	<u>Acidity (as HCl)</u>
308	<1.0	pos.	neg.	pos.	19.1%
309	1.7	pos.	pos.	pos.	15.9
310	<1.0	pos.	neg.	pos.	13.4
311	2.5	pos.	neg.	pos.	13.8
312	1.0	pos.	neg.	pos.	14.3
313	2.0	pos.	pos.	pos.	15.8
314	2.5	pos.	pos.	pos.	11.5
315	<1.0	pos.	neg.	pos.	12.5
316	<1.0	pos.	neg.	pos.	11.0
317	4.1	pos.	neg.	pos.	0.5
318	2.2	pos.	neg.	pos.	10.9
319A	4.1	pos.	neg.	pos.	1.2
319B	3.0	pos.	pos.	pos.	4.9
320	4.4	pos.	neg.	pos.	0.2
321	2.4	pos.	neg.	pos.	13.7
322	3.0	pos.	neg.	pos.	6.8
323	1.4	pos.	neg.	pos.	18.8
324	1.5	pos.	pos.	pos.	13.4
327	2.1	pos.	neg.	pos.	13.9
332	5.5	pos.	neg.	pos.	0.7
334	<1.0	pos.	pos.	pos.	23.9
337	<1.0	pos.	pos.	pos.	14.1
338	<1.0	pos.	pos.	pos.	13.4
340	2.5	pos.	pos.	pos.	9.5



AR100176



Erving M. Kipnis

Laboratory Director
Erving M. Kipnis, Ph.D.

Please see reverse side for explanations and other information.

Gascoyne Laboratories, Inc.

Baltimore, MD 21224-8697

BALTIMORE, MD.
(301) 265-8510

REPORT OF ANALYSIS

SALISBURY, MD.
(301) 543-1051

Report No. 87-4379

Report Date October 5, 1987

Report To: ENPRO

Page 2 of 3

Sample ID, Submitted Waste

<u>Location #</u>	<u>pH</u>	<u>Chloride</u>	<u>Nitrate</u>	<u>Sulfate</u>	<u>Acidity (as HCl)</u>
342	<1.0	pos.	pos.	pos.	5.6%
343	2.3	pos.	pos.	pos.	0.5
348	<1.0	pos.	pos.	pos.	13.3
349	<1.0	pos.	pos.	neg.	28.9
350	<1.0	neg.	pos.	pos.	50.1 *
353	<1.0	neg.	pos.	pos.	28.6 *
354	2.1	pos.	trace	pos.	0.3
355	12.6	neg.	neg.	neg.	-
356	<1.0	pos.	pos.	pos.	11.7
362	<1.0	pos.	pos.	trace	4.4
363	1.3	pos.	-	pos.	4.0
365	1.3	pos.	-	pos.	6.8
369	2.3	pos.	pos.	pos.	15.0
373	<1.0	pos.	neg.	pos.	21.7
376	<1.0	neg.	pos.	pos.	29.4 *
378	<1.0	pos.	pos.	neg.	21.0
379	<1.0	pos.	neg.	pos.	20.2
385	<1.0	pos.	neg.	pos.	13.1
389	<1.0	pos.	neg.	pos.	23.6
390	<1.0	pos.	neg.	pos.	21.7
391	1.3	pos.	neg.	pos.	19.2
392	1.2	pos.	neg.	neg.	20.1
393	<1.0	pos.	pos.	pos.	23.1
394	<1.0	pos.	neg.	pos.	8.3

Note: * as H₂SO₄

ARI00177

Irving M. Ripnis
Laboratory Director
Irving M. Ripnis, Ph.D.

Please see reverse side for explanations and other information.

Gascoyne Laboratories, Inc.

Baltimore, MD 21224-6697

BALTIMORE, MD.
(301) 285-6510

SALISBURY
(301) 549-



REPORT OF ANALYSIS

Report No. 87-4379

Report Date October 5, 1987

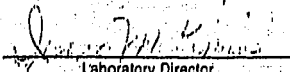
Report To: ENPRO

Page 3 of 3

Sample I.D. Submitted Waste

<u>Location #</u>	<u>pH</u>	<u>Chloride</u>	<u>Nitrate</u>	<u>Sulfate</u>	<u>Acidity (as HCl)</u>
395	<1.0	pos.	neg.	pos.	12.7%
396	<1.0	pos.	neg.	pos.	19.9
399	<1.0	pos.	neg.	pos.	7.2
401	<1.0	pos.	neg.	pos.	17.3
403	<1.0	pos.	pos.	pos.	9.0
404	<1.0	neg.	pos.	pos.	24.4
409	<1.0	pos.	neg.	neg.	14.6
416	1.3	pos.	neg.	neg.	18.7
468	<1.0	pos.	pos.	pos.	6.7
475	4.9	neg.	neg.	pos.	0.5
476	7.0	neg.	neg.	neg.	-

AR100178 


Laboratory Director
Irving H. Ripnis, Ph.D.

Please see reverse side for explanations and other information.

Gascoyne Laboratories, Inc.

DR. W. J. GASCOYNE
1887-1938
W. J. GASCOYNE, JR.
1938-1952
W. J. GASCOYNE, III
1952-1978



MAIN OFFICE
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SALISBURY, MD.
(301) 644-1051

Section III

Level II Data

AR100179

2101 Van Daman Street

• Holabird Industrial Park

• Baltimore, MD 21224-6697

GASCOYNE WASTE IDENTIFICATION REPORT

REPORT NO: 874379-1
 REPORT TO: ENPRO

INFORMATION SUPPLIED WITH SAMPLE

SAMPLE NO: #253
 Source/Process Generating Waste: _____
 Expected to be: Flammable _____ Toxic _____ Oxidizer _____ Reactive _____
 Corrosive _____ pH _____ Other _____
 Expected Components: _____ % _____ % _____ %
 _____ % _____ % _____ %

CHEMICAL CHARACTERISTICS (Level I Analysis)

Color:	<u>CLEAR</u>	Flash Point	<u>7200</u> °F.	pH	<u>21.0</u>
Phases:		Organic Vapors @ Room Temp.*	<u>NEG</u>	Water Content	<u>57.3</u> %
Solid	Approx. <u>0</u> %	Chlorinated Vapors @ Room Temp.*	<u>NEG</u>	Ash Content	_____ %
Semi-Solid	Approx. <u>0</u> %			Residue @ 100°C.*	_____ %
Liquid - Top Layer	Approx. <u>100</u> %	Specific Gravity	<u>1.145</u>	Oil Content*	_____ %
Liquid - Bottom Layer	Approx. <u>0</u> %	Specific Gravity	_____	Total Volatile Content, Less water*	_____ %
				Total Organic Content*	_____ %
				Total Organic Chlorides (Cl)*	_____ %
				Heat of Combustion (BTU/lb)	_____

LEVEL I ANALYSIS

CHEMICAL COMPOSITION

ALCOHOLS		NON-HALOGENATED SOLVENTS		ACID CONTENT
1 - iso-amyl alcohol	<u>21</u> %	1 - hexane	<u>21</u> %	Sulfuric
2 - 2-butanol	_____ %	2 - heptane	_____ %	Hydrochloric
3 - iso-butanol	_____ %	3 - octane	_____ %	Nitric
4 - n-butanol	_____ %	4 - iso-octane	_____ %	<u>Hydro Fluoric</u>
5 - tert-butanol	_____ %	5 - cyclohexane	_____ %	<u>47.8</u> %
6 - cyclohexanol	_____ %	6 - benzene	_____ %	ALKALI CONTENT
7 - diacetone alcohol	_____ %	7 - toluene	_____ %	Hydroxides
8 - ethanol	_____ %	8 - ethyl benzene	_____ %	Carbonates
9 - methanol	_____ %	9 - xylenes	_____ %	_____ %
10 - iso-propanol	_____ %	10 - styrene	_____ %	_____ %
11 - n-propanol	_____ %	11 - nitrobenzene	_____ %	GLYCOLS
		12 - pyridine	_____ %	Ethylene
		13 - acetone	_____ %	Propylene
		14 - methyl ethyl ketone	_____ %	_____ %
		15 - methyl iso-butyl ketone	_____ %	PCBs
		16 - methyl iso-amyl ketone	_____ %	_____ ppm
		17 - diethyl ether	_____ %	INORGANICS
		18 - dioxane	_____ %	_____ %
		19 - tetrahydrofuran	_____ %	_____ %
		20 - methyl cellosolve	_____ %	_____ %
		21 - cellosolve	_____ %	_____ %
		22 - butyl cellosolve	_____ %	_____ %
		23 - cellosolve acetate	_____ %	_____ %
		24 - methyl acetate	_____ %	_____ %
		25 - ethyl acetate	_____ %	_____ %
		26 - iso-propyl acetate	_____ %	_____ %
		27 - n-butyl acetate	_____ %	_____ %
		28 - iso-butyl acetate	_____ %	_____ %
		29 - petroleum distillates*	_____ %	_____ %

LEVEL II ANALYSIS

Comments: _____

Spring M. Kipnis
 Spring M. Kipnis, Ph.D.
 Laboratory Director

see reverse side for explanation of terms.

AR100180
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GASCOYNE WASTE IDENTIFICATION REPORT

REPORT NO.: 874379-2

REPORT TO: ENPRO

INFORMATION SUPPLIED WITH SAMPLE

SAMPLE NO.: 256

Source/Process Generating Waste: _____

Expected to be: Flammable _____ Toxic _____ Oxidizer _____ Reactive _____

Corrosive _____ pH _____ Other _____

Expected Components: _____ % _____ % _____ %

_____ % _____ % _____ %

CHEMICAL CHARACTERISTICS (Level I Analysis)

Color: <u>BROWN</u>	Flash Point: _____ °F.	pH: <u>5.0</u>	
Phases:	Organic Vapors @ Room Temp.* _____	Water Content: <u>0.2</u> %	
Solid: Approx. <u>100</u> %	Chlorinated Vapors @ Room Temp.* _____	Ash Content: <u>86.2</u> %	
Semi-Solid: Approx. <u>0</u> %		Residue @ 100°C.*: <u>98.8</u> %	
Liquid - Top Layer: Approx. <u>0</u> %	Specific Gravity: <u>0</u>	Oil Content*: _____ %	
Liquid - Bottom Layer: Approx. <u>0</u> %	Specific Gravity: <u>0</u>	Total Volatile Content, Less water*: <u>1.0</u> %	
		Total Organic Content*(<u>LOI</u>): <u>13.6</u> %	
		Total Organic Chlorides (Cl)*: _____ %	
		Heat of Combustion (BTU/lb): _____	

LEVEL I ANALYSIS

CHEMICAL COMPOSITION

<p>ALCOHOLS</p> <p>1 - iso-amyl-alcohol <u>N/A</u> %</p> <p>2 - 2-butanol _____ %</p> <p>3 - iso-butanol _____ %</p> <p>4 - n-butanol _____ %</p> <p>5 - tert-butanol _____ %</p> <p>6 - cyclohexanol _____ %</p> <p>7 - diacetone alcohol _____ %</p> <p>8 - ethanol _____ %</p> <p>9 - methanol _____ %</p> <p>10 - iso-propanol _____ %</p> <p>11 - n-propanol _____ %</p> <p>HALOGENATED SOLVENTS</p> <p>1 - carbon tetrachloride <u>N/A</u> %</p> <p>2 - chlorobenzene _____ %</p> <p>3 - chloroform _____ %</p> <p>4 - 1,1 dichloroethane _____ %</p> <p>5 - 1,2 dichloroethane _____ %</p> <p>6 - 1,2 dichloroethylene _____ %</p> <p>7 - freon _____ %</p> <p>8 - methylene chloride _____ %</p> <p>9 - 1,1,2,2 tetrachloroethane _____ %</p> <p>10 - tetrachloroethylene _____ %</p> <p>11 - 1,1,1 trichloroethane _____ %</p> <p>12 - trichloroethylene _____ %</p> <p>13 - 1,1,2 trichloroethane _____ %</p>	<p>NON-HALOGENATED SOLVENTS</p> <p>1 - hexane <u>N/A</u> %</p> <p>2 - heptane _____ %</p> <p>3 - octane _____ %</p> <p>4 - iso-octane _____ %</p> <p>5 - cyclohexane _____ %</p> <p>6 - benzene _____ %</p> <p>7 - toluene _____ %</p> <p>8 - ethyl benzene _____ %</p> <p>9 - xylenes _____ %</p> <p>10 - styrene _____ %</p> <p>11 - nitrobenzene _____ %</p> <p>12 - pyridine _____ %</p> <p>13 - acetone _____ %</p> <p>14 - methyl ethyl ketone _____ %</p> <p>15 - methyl iso-butyl ketone _____ %</p> <p>16 - methyl iso-amyl-ketone _____ %</p> <p>17 - diethyl ether _____ %</p> <p>18 - dioxane _____ %</p> <p>19 - tetrahydrofuran _____ %</p> <p>20 - methyl cellosolve _____ %</p> <p>21 - cellosolve _____ %</p> <p>22 - butyl cellosolve _____ %</p> <p>23 - cellosolve acalate _____ %</p> <p>24 - methyl acetate _____ %</p> <p>25 - ethyl acetate _____ %</p> <p>26 - iso-propyl acetate _____ %</p> <p>27 - n-butyl acetate _____ %</p> <p>28 - iso-butyl acetate _____ %</p> <p>29 - petroleum distillates* _____ %</p>	<p>ACID CONTENT</p> <p>Sulfuric <u>21</u> %</p> <p>Hydrochloric <u>21</u> %</p> <p>Nitric <u>21</u> %</p> <p>_____ %</p> <p>_____ %</p> <p>ALKALAI CONTENT</p> <p>Hydroxides <u>21</u> %</p> <p>Carbonates <u>21</u> %</p> <p>_____ %</p> <p>_____ %</p> <p>GLYCOLS</p> <p>Ethylene _____ %</p> <p>Propylene _____ %</p> <p>PCBs _____ ppm</p> <p>INORGANICS</p> <p>Acid Insoluble <u>93.9</u> %</p> <p>Aluminum (Al) <u>0.1</u> %</p> <p>Iron (Fe) <u>0.3</u> %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p>
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LEVEL II ANALYSIS

Comments: LOI - Loss on Ignition Less Water

Gascoyne Laboratories, Inc.
A Commercial Testing Laboratory

See reverse side for explanation of terms.

Irving M. Kipnis
Irving M. Kipnis Ph.D.
Laboratory Director

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Holabird Industrial Park
Baltimore, MD 21224-6697
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AR100181

GASCOYNE WASTE IDENTIFICATION REPORT

REPORT NO: 874329-3

REPORT TO: ENPRO

INFORMATION SUPPLIED WITH SAMPLE

SAMPLE NO: 301

Source/Process Generating Waste: _____

Expected to be: Flammable _____ Toxic _____ Oxidizer _____ Reactive _____
 Corrosive _____ pH _____ Other _____

Expected Components: _____ % _____ % _____ %
 _____ % _____ % _____ %

CHEMICAL CHARACTERISTICS (Level I Analysis)

Color: <u>CLEAR/BROWN</u>	Flash Point: <u>7200</u> °F.	pH: <u>5.0</u>
Phases:	Organic Vapors @ Room Temp.: <u>NEG</u>	Water Content: <u>99.3</u> %
Solid: Approx. <u>2</u> %	Chlorinated Vapors @ Room Temp.: <u>NEG</u>	Ash Content: <u>0.6</u> %
Semi-Solid: Approx. <u>0</u> %	Specific Gravity: <u>0.999</u>	Residue @ 100°C.: <u>0.4</u> %
Liquid - Top Layer: Approx. <u>98</u> %	Specific Gravity: <u>0</u>	Oil Content*: <u>20.1</u> %
Liquid - Bottom Layer: Approx. <u>0</u> %		Total Volatile Content, Less water*: <u>20.1</u> %
		Total Organic Content*: <u>0.3</u> %
		Total Organic Chlorides (Cl)*: <u>0</u> %
		Heat of Combustion (BTU/lb): <u>—</u>

CHEMICAL COMPOSITION

ALCOHOLS 1 - iso-amylic alcohol <u>21</u> % 2 - 2-butanol _____ % 3 - iso-butanol _____ % 4 - n-butanol _____ % 5 - tert-butanol _____ % 6 - cyclohexanol _____ % 7 - diacetone alcohol _____ % 8 - ethanol _____ % 9 - methanol _____ % 10 - iso-propanol _____ % 11 - n-propanol _____ %	NON-HALOGENATED SOLVENTS 1 - hexane <u>21</u> % 2 - heptane _____ % 3 - octane _____ % 4 - iso-octane _____ % 5 - cyclohexane _____ % 6 - benzene _____ % 7 - toluene _____ % 8 - ethyl benzene _____ % 9 - xylenes _____ % 10 - styrene _____ % 11 - nitrobenzene _____ % 12 - pyridine _____ % 13 - acetone _____ % 14 - methyl ethyl ketone _____ % 15 - methyl iso-butyl ketone _____ % 16 - methyl iso-amylic ketone _____ % 17 - diethyl ether _____ % 18 - dioxane _____ % 19 - tetrahydrofuran _____ % 20 - methyl cellosolve _____ % 21 - cellosolve _____ % 22 - butyl cellosolve _____ % 23 - cellosolve acetate _____ % 24 - methyl acetate _____ % 25 - ethyl acetate _____ % 26 - iso-propyl acetate _____ % 27 - n-butyl acetate _____ % 28 - iso-butyl acetate _____ % 29 - petroleum distillates* <u>✓</u> %	ACID CONTENT Sulfuric <u>21</u> % Hydrochloric <u>21</u> % Nitric <u>21</u> % _____ % _____ % ALKALI CONTENT Hydroxides <u>21</u> % Carbonates <u>21</u> % _____ % _____ % GLYCOLS Ethylene <u>21</u> % Propylene <u>21</u> % _____ % _____ % PCBs _____ ppm INORGANICS _____ % _____ % _____ % _____ % _____ % _____ % _____ % _____ % _____ % _____ %
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Comments: _____

Gascoyne Laboratories, Inc.
 A Commercial Testing Laboratory

Irving M. Kipnis
 Irving M. Kipnis, Ph.D.
 Laboratory Director

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 Holabird Industrial Park
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 (301) 285-8510

reverse side for explanation of terms.

AR100182

GASCOYNE WASTE IDENTIFICATION REPORT

REPORT NO.: 874379-4

REPORT TO: ENPRO

INFORMATION SUPPLIED WITH SAMPLE

SAMPLE NO.: 370

Source/Process Generating Waste: _____

Expected to be: Flammable _____ Toxic _____ Oxidizer _____ Reactive _____
Corrosive _____ pH _____ Other _____

Expected Components: _____ % _____ % _____ % _____ %

CHEMICAL CHARACTERISTICS

(Level I Analysis)

Color:	<u>brown & green</u>	Flash Point	_____ °F.	pH	<u>4.0</u>
Phases:		Organic Vapors @ Room Temp.*	_____	Water Content	<u>29.3</u> %
Solid	Approx. <u>100</u> %	Chlorinated Vapors @ Room Temp.*	_____	Ash Content	<u>36.0</u> %
Semi-Solid	Approx. <u>0</u> %			Residue @ 100°C.*	<u>65.0</u> %
Liquid - Top Layer	Approx. <u>0</u> %	Specific Gravity	<u>0</u>	Oil Content*	_____ %
Liquid - Bottom Layer	Approx. <u>0</u> %	Specific Gravity	<u>0</u>	Total Volatile Content, Less water*	<u>5.7</u> %
				Total Organic Content* (<u>LOI</u>)	<u>34.7</u> %
				Total Organic Chlorides (Cl)*	_____ %
				Heat of Combustion (BTU/lb)	_____

CHEMICAL COMPOSITION

ALCOHOLS

1 - iso-amyl-alcohol	<u>N/A</u> %
2 - 2-butanol	_____ %
3 - iso-butanol	_____ %
4 - n-butanol	_____ %
5 - tert-butanol	_____ %
6 - cyclohexanol	_____ %
7 - diacetone alcohol	_____ %
8 - ethanol	_____ %
9 - methanol	_____ %
10 - iso-propanol	_____ %
11 - n-propanol	_____ %

NON-HALOGENATED SOLVENTS

1 - hexane	<u>N/A</u> %
2 - heptane	_____ %
3 - octane	_____ %
4 - iso-octane	_____ %
5 - cyclohexane	_____ %
6 - benzene	_____ %
7 - toluene	_____ %
8 - ethyl benzene	_____ %
9 - xylenes	_____ %
10 - styrene	_____ %
11 - nitrobenzene	_____ %
12 - pyridine	_____ %
13 - acetone	_____ %
14 - methyl ethyl ketone	_____ %
15 - methyl iso-butyl ketone	_____ %
16 - methyl iso-amyl-ketone	_____ %
17 - diethyl ether	_____ %
18 - dioxane	_____ %
19 - tetrahydrofuran	_____ %
20 - methyl cellosolve	_____ %
21 - cellosolve	_____ %
22 - butyl cellosolve	_____ %
23 - cellosolve acetate	_____ %
24 - methyl acetate	_____ %
25 - ethyl acetate	_____ %
26 - iso-propyl acetate	_____ %
27 - n-butyl acetate	_____ %
28 - iso-butyl acetate	_____ %
29 - petroleum distillates*	<u>✓</u> %

ACID CONTENT

Sulfuric	<u><1</u> %
Hydrochloric	<u><1</u> %
Nitric	<u><1</u> %
_____	_____ %
_____	_____ %

ALKALI CONTENT

Hydroxides	<u><1</u> %
Carbonates	<u><1</u> %
_____	_____ %
_____	_____ %

GLYCOLS

Ethylene	_____ %
Propylene	_____ %

PCBs

_____ ppm

INORGANICS

<u>Zinc (Zn)</u>	<u>1.8</u> %
<u>Nickel (Ni)</u>	<u>1.7</u> %
<u>Iron (Fe)</u>	<u>8.1</u> %
<u>Copper (Cu)</u>	<u>6.5</u> %
<u>Calcium (Ca)</u>	<u>0.3</u> %
<u>Aluminum (Al)</u>	<u>0.3</u> %
<u>Sodium (Na)</u>	<u>1.0</u> %
_____	_____ %

LEVEL I ANALYSIS

LEVEL II ANALYSIS

Comments: (1) LOI - LOSS ON IGNITION LESS WATER

Gascoyne Laboratories, Inc.

A Commercial Testing Laboratory

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*See reverse side for explanation of terms.

Irving M. Kipnis
Irving M. Kipnis, Ph.D.
Laboratory Director

GASCOYNE WASTE IDENTIFICATION REPORT

REPORT NO: 874379-5

REPORT TO: ENPRO

ORIGINAL

INFORMATION SUPPLIED WITH SAMPLE

SAMPLE NO: 379

Source/Process Generating Waste: _____

Expected to be: Flammable _____ Toxic _____ Oxidizer _____ Reactive _____
Corrosive _____ pH _____ Other _____

Expected Components: _____ % _____ %
_____ % _____ %

CHEMICAL CHARACTERISTICS (Level I Analysis)

LEVEL I ANALYSIS

Color: <u>green & yellow</u>	Flash Point: _____ °F.	pH: _____	<1
Phases:	Organic Vapors @ Room Temp.* _____	Water Content: _____	36.9 %
Solid: Approx. <u>90</u> %	Chlorinated Vapors @ Room Temp.* _____	Ash Content: _____	25.9 %
Semi-Solid: Approx. <u>0</u> %	Specific Gravity: _____	Residue @ 100°C.* _____	52.2 %
Liquid - Top Layer: Approx. <u>10</u> %	Specific Gravity: _____	Oil Content* _____	10.9 %
Liquid - Bottom Layer: Approx. <u>0</u> %	Specific Gravity: _____	Total Volatile Content, Less water* _____	_____ %
		Total Organic Content* _____	_____ %
		Total Organic Chlorides (Cl)* _____	_____ %
		Heat of Combustion (BTU/lb) _____	_____ %

CHEMICAL COMPOSITION

LEVEL II ANALYSIS

<p>ALCOHOLS</p> <p>1 - iso-amyl-alcohol <u>N/A</u> %</p> <p>2 - 2-butanol _____ %</p> <p>3 - iso-butanol _____ %</p> <p>4 - n-butanol _____ %</p> <p>5 - tert-butanol _____ %</p> <p>6 - cyclohexanol _____ %</p> <p>7 - diacetone alcohol _____ %</p> <p>8 - ethanol _____ %</p> <p>9 - methanol _____ %</p> <p>10 - iso-propanol _____ %</p> <p>11 - n-propanol _____ %</p> <p>HALOGENATED SOLVENTS</p> <p>1 - carbon tetrachloride _____ %</p> <p>2 - chlorobenzene _____ %</p> <p>3 - chloroform _____ %</p> <p>4 - 1,1 dichloroethane _____ %</p> <p>5 - 1,2 dichloroethane _____ %</p> <p>6 - 1,2 dichloroethylene _____ %</p> <p>7 - freon _____ %</p> <p>8 - methylene chloride _____ %</p> <p>9 - 1,1,2,2 tetrachloroethane _____ %</p> <p>10 - tetrachloroethylene _____ %</p> <p>11 - 1,1,1 trichloroethane _____ %</p> <p>12 - trichloroethylene _____ %</p> <p>13 - 1,1,2 trichloroethane <u>✓</u> %</p>	<p>NON-HALOGENATED SOLVENTS</p> <p><u>N/A</u> %</p> <p>1 - hexane _____ %</p> <p>2 - heptane _____ %</p> <p>3 - octane _____ %</p> <p>4 - iso-octane _____ %</p> <p>5 - cyclohexane _____ %</p> <p>6 - benzene _____ %</p> <p>7 - toluene _____ %</p> <p>8 - ethyl benzene _____ %</p> <p>9 - xylenes _____ %</p> <p>10 - styrene _____ %</p> <p>11 - nitrobenzene _____ %</p> <p>12 - pyridine _____ %</p> <p>13 - acetone _____ %</p> <p>14 - methyl ethyl ketone _____ %</p> <p>15 - methyl iso-butyl ketone _____ %</p> <p>16 - methyl iso-amyl-ketone _____ %</p> <p>17 - diethyl ether _____ %</p> <p>18 - dioxane _____ %</p> <p>19 - tetrahydrofuran _____ %</p> <p>20 - methyl cellosolve _____ %</p> <p>21 - cellosolve _____ %</p> <p>22 - butyl cellosolve _____ %</p> <p>23 - cellosolve acetate _____ %</p> <p>24 - methyl acetate _____ %</p> <p>25 - ethyl acetate _____ %</p> <p>26 - iso-propyl acetate _____ %</p> <p>27 - n-butyl acetate _____ %</p> <p>28 - iso-butyl acetate _____ %</p> <p>29 - petroleum distillates* <u>✓</u> %</p>	<p>ACID CONTENT</p> <p>Sulfuric _____ %</p> <p>Hydrochloric _____ %</p> <p>Nitric _____ %</p> <p>ALKALI CONTENT</p> <p>Hydroxides <u><1</u> %</p> <p>Carbonates <u><1</u> %</p> <p>GLYCOLS</p> <p>Ethylene _____ %</p> <p>Propylene _____ %</p> <p>PCBs _____ ppm</p> <p>INORGANICS</p> <p>Zinc (Zn) <u>1.8</u> %</p> <p>Nickel (Ni) <u>1.6</u> %</p> <p>Iron (Fe) <u>2.8</u> %</p> <p>Copper (Cu) <u>7.1</u> %</p> <p>Sodium (Na) <u>0.7</u> %</p> <p>Calcium (Ca) <u>0.2</u> %</p> <p>Aluminum (Al) <u>0.5</u> %</p>
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Comments: _____

Irving M. Kipnis
Irving M. Kipnis, Ph.D.
Laboratory Director

See reverse side for explanation of terms.

Gascoyne Laboratories, Inc.
A Commercial Testing Laboratory

2101 Van Deman Street
Holabird Industrial Park
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(301) 285-8510

AR 100181

GASCYNE WASTE IDENTIFICATION REPORT

REPORT NO.: 874379-6

REPORT TO: ENPRO

INFORMATION SUPPLIED WITH SAMPLE

SAMPLE NO.: 426

Source/Process Generating Waste: _____

Expected to be: Flammable _____ Toxic _____ Oxidizer _____ Reactive _____
Corrosive _____ pH _____ Other _____

Expected Components: _____ % _____ %
_____ % _____ %

CHEMICAL CHARACTERISTICS

(Level I Analysis)

Color:	<u>CLEAR</u>	Flash Point	<u>7200</u> °F.	pH	<u>4.5</u>
Phases:		Organic Vapors @ Room Temp.*	<u>NEG</u>	Water Content	<u>99.8</u> %
Solid	Approx <u>0</u> %	Chlorinated Vapors @ Room Temp.*	<u>NEG</u>	Ash Content	<u>0.1</u> %
Semi-Solid	Approx <u>0</u> %			Residue @ 100°C.*	<u>0.2</u> %
Liquid - Top Layer	Approx <u>100</u> %	Specific Gravity	<u>1.010</u>	Oil Content*	<u>20.1</u> %
Liquid - Bottom Layer	Approx <u>0</u> %	Specific Gravity	<u>0</u>	Total Volatile Content, Less water*	<u>20.1</u> %
				Total Organic Content*	<u>0.1</u> %
				Total Organic Chlorides (Cl)*	<u>0.4</u> %
				Heat of Combustion (BTU/lb)	_____

LEVEL I ANALYSIS

CHEMICAL COMPOSITION

<p>ALCOHOLS</p> <p>1 - iso-amyl-alcohol <u>21</u> %</p> <p>2 - 2-butanol _____ %</p> <p>3 - iso-butanol _____ %</p> <p>4 - n-butanol _____ %</p> <p>5 - tert-butanol _____ %</p> <p>6 - cyclohexanol _____ %</p> <p>7 - diacetone alcohol _____ %</p> <p>8 - ethanol _____ %</p> <p>9 - methanol _____ %</p> <p>10 - iso-propanol _____ %</p> <p>11 - n-propanol _____ %</p>	<p>NON-HALOGENATED SOLVENTS</p> <p>1 - hexane <u>21</u> %</p> <p>2 - heptane _____ %</p> <p>3 - octane _____ %</p> <p>4 - iso-octane _____ %</p> <p>5 - cyclohexane _____ %</p> <p>6 - benzene _____ %</p> <p>7 - toluene _____ %</p> <p>8 - ethyl benzene _____ %</p> <p>9 - xylenes _____ %</p> <p>10 - styrene _____ %</p> <p>11 - nitrobenzene _____ %</p> <p>12 - pyridine _____ %</p> <p>13 - acetone _____ %</p> <p>14 - methyl ethyl ketone _____ %</p> <p>15 - methyl iso-butyl ketone _____ %</p> <p>16 - methyl iso-amyl-ketone _____ %</p> <p>17 - diethyl ether _____ %</p> <p>18 - dioxane _____ %</p> <p>19 - tetrahydrofuran _____ %</p> <p>20 - methyl cellosolve _____ %</p> <p>21 - cellosolve _____ %</p> <p>22 - butyl cellosolve _____ %</p> <p>23 - cellosolve acetate _____ %</p> <p>24 - methyl acetate _____ %</p> <p>25 - ethyl acetate _____ %</p> <p>26 - iso-propyl acetate _____ %</p> <p>27 - n-butyl acetate _____ %</p> <p>28 - iso-butyl acetate _____ %</p> <p>29 - petroleum distillates* _____ %</p>	<p>ACID CONTENT</p> <p>Sulfuric <u>21</u> %</p> <p>Hydrochloric <u>21</u> %</p> <p>Nitric <u>21</u> %</p> <p>_____ %</p> <p>_____ %</p> <p>ALKALI CONTENT</p> <p>Hydroxides <u>21</u> %</p> <p>Carbonates <u>21</u> %</p> <p>_____ %</p> <p>_____ %</p> <p>GLYCOLS</p> <p>Ethylene <u>21</u> %</p> <p>Propylene <u>21</u> %</p> <p>_____ %</p> <p>PCBs</p> <p>_____ ppm</p> <p>INORGANICS</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p>
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LEVEL II ANALYSIS

Comments: _____

See reverse side for explanation of terms.

Irving M. Kipnis
Irving M. Kipnis, Ph.D.
Laboratory Director

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AR100185

GASCOYNE WASTE IDENTIFICATION REPORT

REPORT NO: 874379-7

REPORT TO: ENPRO

INFORMATION SUPPLIED WITH SAMPLE

SAMPLE NO: 438

Source/Process Generating Waste: _____

Expected to be: Flammable _____ Toxic _____ Oxidizer _____ Reactive _____

Corrosive _____ pH _____ Other _____

Expected Components: _____ % _____ % _____ %

_____ % _____ % _____ %

CHEMICAL CHARACTERISTICS

(Level I Analysis)

Color: <u>CLEAR/BROWN</u>	Flash Point: <u>7200</u> °F	pH: <u>9.0</u>
Phases	Organic Vapors @ Room Temp.*: <u>NEG</u>	Water Content: <u>89.6</u> %
Solid: Approx. <u>10</u> %	Chlorinated Vapors @ Room Temp.*: <u>NEG</u>	Ash Content: <u>4.3</u> %
Semi-Solid: Approx. <u>0</u> %	Specific Gravity: <u>1.041</u>	Residue @ 100°C*: <u>5.4</u> %
Liquid - Top Layer: Approx. <u>90</u> %	Specific Gravity: <u>0</u>	Oil Content*: <u>20.1</u> %
Liquid - Bottom Layer: Approx. <u>0</u> %		Total Volatile Content, Less water*: <u>5.0</u> %
		Total Organic Content*: <u>6.1</u> %
		Total Organic Chlorides (Cl)*: <u>0.3</u> %
		Heat of Combustion (BTU/lb): <u>-</u>

LEVEL I ANALYSIS

CHEMICAL COMPOSITION

<p>ALCOHOLS</p> <p>1 - iso-amylic alcohol <u>21</u> %</p> <p>2 - 2-butanol _____ %</p> <p>3 - iso-butanol _____ %</p> <p>4 - n-butanol _____ %</p> <p>5 - tert-butanol _____ %</p> <p>6 - cyclohexanol _____ %</p> <p>7 - diacetone alcohol _____ %</p> <p>8 - ethanol _____ %</p> <p>9 - methanol _____ %</p> <p>10 - iso-propanol _____ %</p> <p>11 - n-propanol _____ %</p> <p>HALOGENATED SOLVENTS</p> <p>1 - carbon tetrachloride <u>21</u> %</p> <p>2 - chlorobenzene _____ %</p> <p>3 - chloroform _____ %</p> <p>4 - 1,1 dichloroethane _____ %</p> <p>5 - 1,2 dichloroethane _____ %</p> <p>6 - 1,2 dichloroethylene _____ %</p> <p>7 - freon _____ %</p> <p>8 - methylene chloride _____ %</p> <p>9 - 1,1,2,2 tetrachloroethane _____ %</p> <p>10 - tetrachloroethylene _____ %</p> <p>11 - 1,1,1 trichloroethane _____ %</p> <p>12 - trichloroethylene _____ %</p> <p>13 - 1,1,2 trichloroethane _____ %</p>	<p>NON-HALOGENATED SOLVENTS</p> <p>1 - hexane <u>21</u> %</p> <p>2 - heptane _____ %</p> <p>3 - octane _____ %</p> <p>4 - iso-octane _____ %</p> <p>5 - cyclohexane _____ %</p> <p>6 - benzene _____ %</p> <p>7 - toluene _____ %</p> <p>8 - ethyl benzene _____ %</p> <p>9 - xylenes _____ %</p> <p>10 - styrene _____ %</p> <p>11 - nitrobenzene _____ %</p> <p>12 - pyridine _____ %</p> <p>13 - acetone _____ %</p> <p>14 - methyl ethyl ketone _____ %</p> <p>15 - methyl iso-butyl ketone _____ %</p> <p>16 - methyl iso-amylic ketone _____ %</p> <p>17 - diethyl ether _____ %</p> <p>18 - dioxane _____ %</p> <p>19 - tetrahydrofuran _____ %</p> <p>20 - methyl cellosolve _____ %</p> <p>21 - cellosolve _____ %</p> <p>22 - butyl cellosolve _____ %</p> <p>23 - cellosolve acetate _____ %</p> <p>24 - methyl acetate _____ %</p> <p>25 - ethyl acetate _____ %</p> <p>26 - iso-propyl acetate _____ %</p> <p>27 - n-butyl acetate _____ %</p> <p>28 - iso-butyl acetate _____ %</p> <p>29 - petroleum distillates* <u>✓</u> %</p>	<p>ACID CONTENT</p> <p>Sulfuric <u>21</u> %</p> <p>Hydrochloric <u>21</u> %</p> <p>Nitric <u>21</u> %</p> <p>ALKALI CONTENT</p> <p>Hydroxides <u>as NaOH</u> <u>0.6</u> %</p> <p>Carbonates <u>21</u> %</p> <p>GLYCOLS</p> <p>Ethylene <u>21</u> %</p> <p>Propylene <u>21</u> %</p> <p>PCBs _____ ppm</p> <p>INORGANICS</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p>
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LEVEL II ANALYSIS

Comments: _____

Irving M. Kipnis

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AR10018

GASCOYNE WASTE IDENTIFICATION REPORT

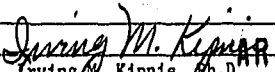
REPORT NO: 874379-9
 REPORT TO: ENPRO

INFORMATION SUPPLIED WITH SAMPLE				
SAMPLE NO: <u>448</u>				
Source/Process Generating Waste: _____				
Expected to be:	Flammable _____	Toxic _____	Oxidizer _____	Reactive _____
	Corrosive _____	pH _____	Other _____	
Expected Components:	_____ %	_____ %	_____ %	_____ %
	_____ %	_____ %	_____ %	_____ %

CHEMICAL CHARACTERISTICS (Level 1 Analysis)					
Color:	<u>clear brown/white</u>	Flash Point:	<u>7200</u> °F.	pH:	<u>5.0</u>
Phases:		Organic Vapors @ Room Temp.:	<u>NEG</u>	Water Content:	<u>85.0</u> %
Solid:	Approx <u>2</u> %	Chlorinated Vapors @ Room Temp.:	<u>NEG</u>	Ash Content:	<u>0.1</u> %
Semi-Solid:	Approx <u>0</u> %			Residue @ 100°C.:	<u>2.9</u> %
Liquid - Top Layer:	Approx <u>98</u> %	Specific Gravity:	<u>1.108</u>	Oil Content*:	<u><0.1</u> %
Liquid - Bottom Layer:	Approx <u>0</u> %	Specific Gravity:	<u>0</u>	Total Volatile Content, Less water*:	<u>2.1</u> %
				Total Organic Content*:	<u>14.9</u> %
				Total Organic Chlorides (Cl)*:	<u><0.1</u> %
				Heat of Combustion (BTU/lb):	<u>—</u>

CHEMICAL COMPOSITION					
ALCOHOLS		NON-HALOGENATED SOLVENTS		ACID CONTENT	
1 - iso-amy alcohol	<u><1</u> %	1 - hexane	<u><1</u> %	Sulfuric	<u><1</u> %
2 - 2-butanol	_____ %	2 - heptane	_____ %	Hydrochloric	<u><1</u> %
3 - iso-butanol	_____ %	3 - octane	_____ %	Nitric	<u><1</u> %
4 - n-butanol	_____ %	4 - iso-octane	_____ %		_____ %
5 - tert-butanol	_____ %	5 - cyclohexane	_____ %		_____ %
6 - cyclohexanol	_____ %	6 - benzene	_____ %	ALKALI CONTENT	
7 - diacetone a-cetol	_____ %	7 - toluene	_____ %	Hydroxides	<u><1</u> %
8 - ethanol	_____ %	8 - ethyl benzene	_____ %	Carbonates	<u><1</u> %
9 - methanol	_____ %	9 - xylenes	_____ %		_____ %
10 - iso-propanol	_____ %	10 - styrene	_____ %		_____ %
11 - n-propanol	_____ %	11 - nitrobenzene	_____ %	GLYCOLS	
		12 - pyridine	_____ %	Ethylene	<u><1</u> %
		13 - acetone	_____ %	Propylene	<u><1</u> %
		14 - methyl ethyl ketone	_____ %		_____ %
HALOGENATED SOLVENTS		15 - methyl iso-butyl ketone	_____ %	PCBs	<u><10</u> ppm
1 - carbon tetrachloride	_____ %	16 - methyl iso-amy ketone	_____ %		_____ %
2 - chlorobenzene	_____ %	17 - diethyl ether	_____ %	INORGANICS	
3 - chloroform	_____ %	18 - dioxane	_____ %		_____ %
4 - 1,1 dichloroethane	_____ %	19 - tetrahydrofuran	_____ %		_____ %
5 - 1,2 dichloroethane	_____ %	20 - methyl cellosolve	_____ %		_____ %
6 - 1,2 dichloroethylene	_____ %	21 - cellosolve	_____ %		_____ %
7 - freon	_____ %	22 - butyl cellosolve	_____ %		_____ %
8 - methylene chloride	_____ %	23 - cellosolve acetate	_____ %		_____ %
9 - 1,1,2 tetrachloroethane	_____ %	24 - methyl acetate	_____ %		_____ %
10 - tetrachloroethylene	_____ %	25 - ethyl acetate	_____ %		_____ %
11 - 1,1,1 trichloroethane	_____ %	26 - iso-propyl acetate	_____ %		_____ %
12 - trichloroethylene	_____ %	27 - n-butyl acetate	_____ %		_____ %
13 - 1,1,2 trichloroethane	_____ %	28 - iso-butyl acetate	_____ %		_____ %
		29 - petroleum distillates*	<u>✓</u> %		_____ %

Comments: _____


 Irving M. Kipnis, Ph.D.
 Laboratory Director

See reverse side for explanation of terms.

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GASCOYNE WASTE IDENTIFICATION REPORT

REPORT NO.: 874379-10

REPORT TO: ENPRO

INFORMATION SUPPLIED WITH SAMPLE

SAMPLE NO.: 454

Source/Process Generating Waste: _____

Expected to be: Flammable _____ Toxic _____ Oxidizer _____ Reactive _____

Corrosive _____ pH _____ Other _____

Expected Components: _____ % _____ % _____ % _____ %

LEVEL I ANALYSIS

CHEMICAL CHARACTERISTICS (Level I Analysis)

Color: <u>Clear</u>	Flash Point: <u>7200</u> °F.	pH: <u>5.0</u>	
Phases:	Organic Vapors @ Room Temp.*: <u>NEG</u>	Water Content: <u>99.7</u> %	Ash Content: <u>20.1</u> %
Solid: Approx. <u>0</u> %	Chlorinated Vapors @ Room Temp.*: <u>NEG</u>	Residue @ 100°C.*: <u>20.1</u> %	Oil Content*: <u>20.1</u> %
Semi-Solid: Approx. <u>0</u> %		Total Volatile Content, Less water*: <u>0.3</u> %	Total Organic Content*: <u>0.3</u> %
Liquid - Top Layer: Approx. <u>100</u> %	Specific Gravity: <u>1.010</u>	Total Organic Chlorides (Cl)*: <u>0.3</u> %	Heat of Combustion (BTU/lb): _____
Liquid - Bottom Layer: Approx. <u>0</u> %	Specific Gravity: <u>0</u>		

CHEMICAL COMPOSITION

<p>ALCOHOLS</p> <p>1 - iso-amyl-alcohol <u>21</u> %</p> <p>2 - 2-butanol _____ %</p> <p>3 - iso-butanol _____ %</p> <p>4 - n-butanol _____ %</p> <p>5 - tert-butanol _____ %</p> <p>6 - cyclohexanol _____ %</p> <p>7 - diacetone alcohol _____ %</p> <p>8 - ethanol _____ %</p> <p>9 - methanol _____ %</p> <p>10 - iso-propanol _____ %</p> <p>11 - n-propanol _____ %</p>	<p>NON-HALOGENATED SOLVENTS</p> <p>1 - hexane <u>21</u> %</p> <p>2 - heptane _____ %</p> <p>3 - octane _____ %</p> <p>4 - iso-octane _____ %</p> <p>5 - cyclohexane _____ %</p> <p>6 - benzene _____ %</p> <p>7 - toluene _____ %</p> <p>8 - ethyl benzene _____ %</p> <p>9 - xylenes _____ %</p> <p>10 - styrene _____ %</p> <p>11 - nitrobenzene _____ %</p> <p>12 - pyridine _____ %</p> <p>13 - acetone _____ %</p> <p>14 - methyl ethyl ketone _____ %</p> <p>15 - methyl iso-butyl ketone _____ %</p> <p>16 - methyl iso-amyl-ketone _____ %</p> <p>17 - dialhyl ether _____ %</p> <p>18 - dioxane _____ %</p> <p>19 - tetrahydrofuran _____ %</p> <p>20 - methyl cellosolve _____ %</p> <p>21 - cellosolve _____ %</p> <p>22 - butyl cellosolve _____ %</p> <p>23 - cellosolve acetate _____ %</p> <p>24 - methyl acetate _____ %</p> <p>25 - ethyl acetate _____ %</p> <p>26 - iso-propyl acetate _____ %</p> <p>27 - n-butyl acetate _____ %</p> <p>28 - iso-butyl acetate _____ %</p> <p>29 - petroleum distillates* _____ %</p>	<p>ACID CONTENT</p> <p>Sulfuric <u>21</u> %</p> <p>Hydrochloric <u>21</u> %</p> <p>Nitric <u>21</u> %</p> <p>_____ %</p> <p>_____ %</p> <p>ALKALAI CONTENT</p> <p>Hydroxides <u>21</u> %</p> <p>Carbonates <u>21</u> %</p> <p>_____ %</p> <p>_____ %</p> <p>GLYCOLS</p> <p>Ethylene <u>21</u> %</p> <p>Propylene <u>21</u> %</p> <p>PCBs _____ ppm</p> <p>INORGANICS</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p>
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LEVEL II ANALYSIS

Comments: _____

Irving M. Kipnis

Irving M. Kipnis, Ph.D.
Laboratory Director

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See reverse side for explanation of terms.

AR100189

GASCOYNE WASTE IDENTIFICATION REPORT

REPORT NO: 874379-11
 REPORT TO: ENPRO

INFORMATION SUPPLIED WITH SAMPLE				
SAMPLE NO.: <u>465</u>				
Source/Process Generating Waste: _____				
Expected to be:	Flammable _____	Toxic _____	Oxidizer _____	Reactive _____
	Corrosive _____	pH _____	Other _____	
Expected Components:	_____ %	_____ %	_____ %	_____ %
	_____ %	_____ %	_____ %	_____ %

CHEMICAL CHARACTERISTICS (Level I Analysis)						
LEVEL I ANALYSIS	Color:	<u>Clear/Yellow</u>	Flash Point	<u>7200</u> °F.	pH	<u>4.0</u>
	Phases		Organic Vapors @ Room Temp.*	<u>NEG</u>	Water Content	<u>22.4</u> %
	Solid	Approx. <u>1</u> %	Chlorinated Vapors @ Room Temp.*	<u>NEG</u>	Ash Content	<u>3.8</u> %
	Semi-Solid	Approx. <u>0</u> %			Residue @ 100°C*	<u>6.9</u> %
	Liquid - Top Layer	Approx. <u>99</u> %	Specific Gravity	<u>1.127</u>	Oil Content*	<u>20.1</u> %
	Liquid - Bottom Layer	Approx. <u>0</u> %	Specific Gravity	<u>0</u>	Total Volatile Content, Less water*	<u>15.7</u> %
					Total Organic Content*	<u>18.8</u> %
					Total Organic Chlorides (Cl)*	<u>—</u> %
					Heat of Combustion (BTU/lb)	<u>—</u>

CHEMICAL COMPOSITION						
LEVEL II ANALYSIS	ALCOHOLS		NON-HALOGENATED SOLVENTS		ACID CONTENT	
	1 - iso-amyl-alcohol	<u>21</u> %	1 - hexane	<u>21</u> %	Sulfuric	<u>3.3</u> %
	2 - 2-butanol	_____ %	2 - heptane	_____ %	Hydrochloric	_____ %
	3 - iso-butanol	_____ %	3 - octane	_____ %	Nitric	_____ %
	4 - n-butanol	_____ %	4 - iso-octane	_____ %	_____	_____ %
	5 - tert-butanol	_____ %	5 - cyclohexane	_____ %	ALKALAI CONTENT	
	6 - cyclohexanol	_____ %	6 - benzene	_____ %	Hydroxides	_____ %
	7 - diacetone a.cohol	_____ %	7 - toluene	_____ %	Carbonates	_____ %
	8 - ethanol	_____ %	8 - ethyl benzene	_____ %	_____	_____ %
	9 - methanol	_____ %	9 - xylenes	_____ %	_____	_____ %
	10 - iso-propanol	_____ %	10 - styrene	_____ %	GLYCOLS	
	11 - n-propanol	_____ %	11 - nitrobenzene	_____ %	Ethylene	<u>21</u> %
			12 - pyridine	_____ %	Propylene	<u>21</u> %
HALOGENATED SOLVENTS		13 - acetone	_____ %	PCBs	<u><10</u> ppm	
1 - carbon tetrachloride	_____ %	14 - methyl ethyl ketone	_____ %	INORGANICS		
2 - chlorobenzene	_____ %	15 - methyl iso-butyl ketone	_____ %	_____	_____ %	
3 - chloroform	_____ %	16 - methyl iso-amyl-ketone	_____ %	_____	_____ %	
4 - 1,1 dichloroethane	_____ %	17 - diethyl ether	_____ %	_____	_____ %	
5 - 1,2 dichloroethane	_____ %	18 - dioxane	_____ %	_____	_____ %	
6 - 1,2 dichloroethylene	_____ %	19 - tetrahydrofuran	_____ %	_____	_____ %	
7 - freon	_____ %	20 - methyl cellosolve	_____ %	_____	_____ %	
8 - methylene chloride	_____ %	21 - cellosolve	_____ %	_____	_____ %	
9 - 1,1,1,2 tetrachloroethane	_____ %	22 - butyl cellosolve	_____ %	_____	_____ %	
10 - tetrachloroethylene	_____ %	23 - cellosolve acetate	_____ %	_____	_____ %	
11 - 1,1,1 trichloroethane	_____ %	24 - methyl acetate	_____ %	_____	_____ %	
12 - trichloroethylene	_____ %	25 - ethyl acetate	_____ %	_____	_____ %	
13 - 1,1,2 trichloroethane	_____ %	26 - iso-propyl acetate	_____ %	_____	_____ %	
		27 - n-butyl acetate	_____ %	_____	_____ %	
		28 - iso-butyl acetate	_____ %	_____	_____ %	
		29 - petroleum distillates*	_____ %	_____	_____ %	

Comments: _____

Irving M. Kipnis
 Irving M. Kipnis, Laboratory Director

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See reverse side for explanation of terms.

GASCOYNE WASTE IDENTIFICATION REPORT

REPORT NO: 874399-12
 REPORT TO: ENPRO

INFORMATION SUPPLIED WITH SAMPLE

SAMPLE NO: 466

Source/Process Generating Waste: _____

Expected to be: Flammable _____ Toxic _____ Oxidizer _____ Reactive _____
 Corrosive _____ pH _____ Other _____

Expected Components: _____ % _____ % _____ %
 _____ % _____ % _____ %

CHEMICAL CHARACTERISTICS (Level I Analysis)

Color: <u>clear</u>	Flash Point: <u>>200</u> °F.	pH: <u>5.0</u>
Phases: _____	Organic Vapors @ Room Temp.* <u>NEG</u>	Water Content: <u>99.7</u> %
Solid: Approx. <u>0</u> %	Chlorinated Vapors @ Room Temp.* <u>NEG</u>	Ash Content: <u><0.1</u> %
Semi-Solid: Approx. <u>0</u> %		Residue @ 100°C.*: <u><0.1</u> %
Liquid - Top Layer: Approx. <u>100</u> %	Specific Gravity: <u>1.006</u>	Oil Content*: <u><0.1</u> %
Liquid - Bottom Layer: Approx. <u>0</u> %	Specific Gravity: <u>0</u>	Total Volatile Content, Less water*: <u>0.3</u> %
		Total Organic Content*: <u>0.3</u> %
		Total Organic Chlorides (Cl)*: <u>0.3</u> %
		Heat of Combustion (BTU/lb): <u>—</u>

CHEMICAL COMPOSITION

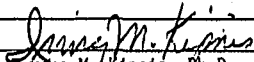
ALCOHOLS	NON-HALOGENATED SOLVENTS	ACID CONTENT
1 - iso-amyl-alcohol <u><1</u> %	1 - hexane <u><1</u> %	Sulfuric <u><1</u> %
2 - 2-butanol _____ %	2 - heptane _____ %	Hydrochloric <u><1</u> %
3 - iso-butanol _____ %	3 - octane _____ %	Nitric <u><1</u> %
4 - n-butanol _____ %	4 - iso-octane _____ %	_____ %
5 - tert-butanol _____ %	5 - cyclohexane _____ %	_____ %
6 - cyclohexanol _____ %	6 - benzene _____ %	ALKALI CONTENT
7 - diacetone alcohol _____ %	7 - toluene _____ %	Hydroxides <u><1</u> %
8 - ethanol _____ %	8 - ethyl benzene _____ %	Carbonates <u><1</u> %
9 - methanol _____ %	9 - xylenes _____ %	_____ %
10 - isopropanol _____ %	10 - styrene _____ %	GLYCOLS
11 - n-propanol _____ %	11 - nitrobenzene _____ %	Ethylene <u><1</u> %
	12 - pyridine _____ %	Propylene <u><1</u> %
	13 - acetone _____ %	PCBs _____ ppm
	14 - methyl ethyl ketone _____ %	INORGANICS
	15 - methyl iso-butyl ketone _____ %	_____ %
	16 - methyl iso-amyl-ketone _____ %	_____ %
	17 - diethyl ether _____ %	_____ %
	18 - dioxane _____ %	_____ %
	19 - tetrahydrofuran _____ %	_____ %
	20 - methyl cellosolve _____ %	_____ %
	21 - cellosolve _____ %	_____ %
	22 - butyl cellosolve _____ %	_____ %
	23 - cellosolve acetate _____ %	_____ %
	24 - methyl acetate _____ %	_____ %
	25 - ethyl acetate _____ %	_____ %
	26 - iso-propyl acetate _____ %	_____ %
	27 - n-butyl acetate _____ %	_____ %
	28 - iso-butyl acetate _____ %	_____ %
	29 - petroleum distillates* _____ %	_____ %
		_____ %

LEVEL I ANALYSIS

LEVEL II ANALYSIS

Comments: _____

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 Irving M. Kipnis, Ph.D.
 Laboratory Director

see reverse side for explanation of terms.

ARI 100

GASCOYNE WASTE IDENTIFICATION REPORT

REPORT NO: 874379-13

REPORT TO: ENPRO

INFORMATION SUPPLIED WITH SAMPLE

SAMPLE NO: 467

Source/Process Generating Waste: _____

Expected to be: Flammable _____ Toxic _____ Oxidizer _____ Reactive _____

Corrosive _____ pH _____ Other _____

Expected Components: _____ % _____ % _____ %

_____ % _____ % _____ %

CHEMICAL CHARACTERISTICS (Level I Analysis)

Color: CLEAR Flash Point: >200 °F. pH: 5.0

Phases: Organic Vapors @ Room Temp.: NEG Water Content: 99.7 %

Ash Content: 20.1 %

Solid: Approx. 0 % Chlorinated Vapors @ Room Temp.: NEG Residue @ 100°C.: 20.1 %

Semi-Solid: Approx. 0 % Oil Content: 20.1 %

Liquid - Top Layer: Approx. 100 % Specific Gravity: 1.006 Total Volatile Content, Less water: 20.1 %

Liquid - Bottom Layer: Approx. 0 % Specific Gravity: _____ Total Organic Content: 20.1 %

Total Organic Chlorides (Cl): 0.2 %

Heat of Combustion (BTU/lb): _____

LEVEL I ANALYSIS

CHEMICAL COMPOSITION

ALCOHOLS		NON-HALOGENATED SOLVENTS		ACID CONTENT	
1 - iso-amyl-alcohol	21 %	1 - hexane	21 %	Sulfuric	21 %
2 - 2-butanol	_____ %	2 - heptane	_____ %	Hydrochloric	21 %
3 - iso-butanol	_____ %	3 - octane	_____ %	Nitric	21 %
4 - n-butanol	_____ %	4 - iso-octane	_____ %	_____	_____ %
5 - tert-butanol	_____ %	5 - cyclohexane	_____ %	ALKALAI CONTENT	_____ %
6 - cyclohexanol	_____ %	6 - benzene	_____ %	Hydroxides	21 %
7 - diacetone alcohol	_____ %	7 - toluene	_____ %	Carbonates	21 %
8 - ethanol	_____ %	8 - ethyl benzene	_____ %	_____	_____ %
9 - methanol	_____ %	9 - xylenes	_____ %	_____	_____ %
10 - iso-propanol	_____ %	10 - styrene	_____ %	GLYCOLS	_____ %
11 - n-propanol	_____ %	11 - nitrobenzene	_____ %	Ethylene	21 %
		12 - pyridine	_____ %	Propylene	21 %
		13 - acetone	_____ %	_____	_____ %
		14 - methyl ethyl ketone	_____ %	PCBs	_____ ppm
		15 - methyl iso-butyl ketone	_____ %	INORGANICS	_____ %
		16 - methyl iso-amyl-ketone	_____ %	_____	_____ %
		17 - diethyl ether	_____ %	_____	_____ %
		18 - dioxane	_____ %	_____	_____ %
		19 - tetrahydrofuran	_____ %	_____	_____ %
		20 - methyl cellosolve	_____ %	_____	_____ %
		21 - cellosolve	_____ %	_____	_____ %
		22 - butyl cellosolve	_____ %	_____	_____ %
		23 - cellosolve acetate	_____ %	_____	_____ %
		24 - methyl acetate	_____ %	_____	_____ %
		25 - ethyl acetate	_____ %	_____	_____ %
		26 - iso-propyl acetate	_____ %	_____	_____ %
		27 - n-butyl acetate	_____ %	_____	_____ %
		28 - iso-butyl acetate	_____ %	_____	_____ %
		29 - petroleum distillates*	_____ %	_____	_____ %
				_____	_____ %

LEVEL II ANALYSIS

Comments: _____

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Irving M. Kipnis
Irving M. Kipnis Ph.D.
Laboratory Director

See reverse side for explanation of terms.

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GASCUYNE WASTE IDENTIFICATION REPORT

REPORT NO: 874379-14

REPORT TO: ENPRO

INFORMATION SUPPLIED WITH SAMPLE

SAMPLE NO: 478

Source/Process Generating Waste: _____

Expected to be: Flammable _____ Toxic _____ Oxidizer _____ Reactive _____

Corrosive _____ pH _____ Other _____

Expected Components: _____ % _____ % _____ %

_____ % _____ % _____ %

CHEMICAL CHARACTERISTICS (Level I Analysis)

Color	<u>CLEAR/BROWN</u>	Flash Point	<u>7200</u> °F.	pH	<u>6.5</u>
Phases		Organic Vapors @ Room Temp.*	<u>NEG</u>	Water Content	<u>99.2</u> %
Solid	Approx. <u>0.5</u> %	Chlorinated Vapors @ Room Temp.*	<u>NEG</u>	Ash Content	<u>0.1</u> %
Semi-Solid	Approx. <u>0</u> %			Residue @ 100°C.*	<u>0.2</u> %
Liquid - Top Layer	Approx. <u>99.5</u> %	Specific Gravity	<u>1.007</u>	Oil Content*	<u>0.1</u> %
Liquid - Bottom Layer	Approx. <u>0</u> %	Specific Gravity	<u>0</u>	Total Volatile Content, Less water*	<u>0.6</u> %
				Total Organic Content*	<u>0.7</u> %
				Total Organic Chlorides (Cl)*	<u>0.3</u> %
				Heat of Combustion (BTU/lb)	<u>—</u>

CHEMICAL COMPOSITION

<p>ALCOHOLS</p> <p>1 - iso-amyl-alcohol <u><1</u> %</p> <p>2 - 2-butanol _____ %</p> <p>3 - iso-butanol _____ %</p> <p>4 - n-butanol _____ %</p> <p>5 - tert-butanol _____ %</p> <p>6 - cyclohexanol _____ %</p> <p>7 - diacetone alcohol _____ %</p> <p>8 - ethanol _____ %</p> <p>9 - methanol _____ %</p> <p>10 - iso-propanol _____ %</p> <p>11 - n-propanol _____ %</p> <p>HALOGENATED SOLVENTS</p> <p>1 - carbon tetrachloride _____ %</p> <p>2 - chlorobenzene _____ %</p> <p>3 - chloroform _____ %</p> <p>4 - 1,1 dichloroethane _____ %</p> <p>5 - 1,2 dichloroethane _____ %</p> <p>6 - 1,2 dichloroethylene _____ %</p> <p>7 - freon _____ %</p> <p>8 - methylene chloride _____ %</p> <p>9 - 1,1,2,2 tetrachloroethane _____ %</p> <p>10 - tetrachloroethylene _____ %</p> <p>11 - 1,1,1 trichloroethane _____ %</p> <p>12 - trichloroethylene _____ %</p> <p>13 - 1,1,2 trichloroethane _____ %</p>	<p>NON-HALOGENATED SOLVENTS</p> <p>1 - hexane <u><1</u> %</p> <p>2 - heptane _____ %</p> <p>3 - octane _____ %</p> <p>4 - iso-octane _____ %</p> <p>5 - cyclonexane _____ %</p> <p>6 - benzene _____ %</p> <p>7 - toluene _____ %</p> <p>8 - ethyl benzene _____ %</p> <p>9 - xylene _____ %</p> <p>10 - styrene _____ %</p> <p>11 - nitrobenzene _____ %</p> <p>12 - pyridine _____ %</p> <p>13 - acetone _____ %</p> <p>14 - methyl ethyl ketone _____ %</p> <p>15 - methyl iso-butyl ketone _____ %</p> <p>16 - methyl iso-amyl-ketone _____ %</p> <p>17 - diethyl ether _____ %</p> <p>18 - dioxane _____ %</p> <p>19 - tetrahydrofuran _____ %</p> <p>20 - methyl cellosolve _____ %</p> <p>21 - cellosolve _____ %</p> <p>22 - butyl cellosolve _____ %</p> <p>23 - cellosolve acetate _____ %</p> <p>24 - methyl acetate _____ %</p> <p>25 - ethyl acetate _____ %</p> <p>26 - iso-propyl acetate _____ %</p> <p>27 - n-butyl acetate _____ %</p> <p>28 - iso-butyl acetate _____ %</p> <p>29 - petroleum distillates* <u>Y</u> %</p>	<p>ACID CONTENT</p> <p>Sulfuric <u><1</u> %</p> <p>Hydrochloric <u><1</u> %</p> <p>Nitric <u><1</u> %</p> <p>_____ %</p> <p>_____ %</p> <p>ALKALI CONTENT</p> <p>Hydroxides <u><1</u> %</p> <p>Carbonates <u><1</u> %</p> <p>_____ %</p> <p>_____ %</p> <p>GLYCOLS</p> <p>Ethylene <u><1</u> %</p> <p>Propylene <u><1</u> %</p> <p>PCBs _____ ppm</p> <p>INORGANICS</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p>
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LEVEL I ANALYSIS

LEVEL II ANALYSIS

Comments: _____

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J. Irving M. Kipnis
Irving M. Kipnis, Ph.D.
Laboratory Director

See reverse side for explanation of terms.

AR 100199

GASCOYNE WASTE IDENTIFICATION REPORT

REPORT NO.: 874379-15

REPORT TO: ENPRO

INFORMATION SUPPLIED WITH SAMPLE

SAMPLE NO.: 479

Source/Process Generating Waste: _____

Expected to be: Flammable _____ Toxic _____ Oxidizer _____ Reactive _____
Corrosive _____ pH _____ Other _____

Expected Components: _____ % _____ % _____ % _____ %
_____ % _____ % _____ % _____ %

CHEMICAL CHARACTERISTICS (Level I Analysis)

LEVEL I ANALYSIS

Color	<u>clear/brown</u>	Flash Point	<u>7200</u> °F.	pH	<u>8.0</u>
Phases		Organic Vapors @ Room Temp.*	<u>NEG</u>	Water Content	<u>96.7</u> %
Solid	Approx <u>2</u> %	Chlorinated Vapors @ Room Temp.*	<u>NEG</u>	Ash Content	<u>0.4</u> %
Semi-Solid	Approx <u>0</u> %			Residue @ 100°C.*	<u>0.6</u> %
Liquid - Top Layer	Approx <u>98</u> %	Specific Gravity	<u>1.011</u>	Oil Content*	<u>20.1</u> %
Liquid - Bottom Layer	Approx <u>0</u> %	Specific Gravity	<u>0</u>	Total Volatile Content, Less water*	<u>2.7</u> %
				Total Organic Content*	<u>2.9</u> %
				Total Organic Chlorides (Cl)*	<u>0.3</u> %
				Heat of Combustion (BTU/lb)	<u>—</u>

CHEMICAL COMPOSITION

LEVEL II ANALYSIS

ALCOHOLS

1 - iso-amyl-alcohol	<u><1</u> %
2 - 2-butanol	_____ %
3 - iso-butanol	_____ %
4 - n-butanol	_____ %
5 - tert-butanol	_____ %
6 - cyclohexanol	_____ %
7 - diacetone alcohol	_____ %
8 - ethanol	_____ %
9 - methanol	_____ %
10 - iso-propanol	_____ %
11 - n-propanol	_____ %

HALOGENATED SOLVENTS

1 - carbon tetrachloride	_____ %
2 - chlorobenzene	_____ %
3 - chloroform	_____ %
4 - 1,1 dichloroethane	_____ %
5 - 1,2 dichloroethane	_____ %
6 - 1,2 dichloroethylene	_____ %
7 - freon	_____ %
8 - methylene chloride	_____ %
9 - 1,1,2,2 tetrachloroethane	_____ %
10 - tetrachloroethylene	_____ %
11 - 1,1,1 trichloroethane	_____ %
12 - trichloroethylene	_____ %
13 - 1,1,2 trichloroethane	_____ %

NON-HALOGENATED SOLVENTS

1 - hexane	<u><1</u> %
2 - heptane	_____ %
3 - octane	_____ %
4 - iso-octane	_____ %
5 - cyclohexane	_____ %
6 - benzene	_____ %
7 - toluene	_____ %
8 - ethyl benzene	_____ %
9 - xylenes	_____ %
10 - styrene	_____ %
11 - nitrobenzene	_____ %
12 - pyridine	_____ %
13 - acetone	_____ %
14 - methyl ethyl ketone	_____ %
15 - methyl iso-butyl ketone	_____ %
16 - methyl iso-amyl-ketone	_____ %
17 - diethyl ether	_____ %
18 - dioxane	_____ %
19 - tetrahydrofuran	_____ %
20 - methyl cellosolve	_____ %
21 - cellosolve	_____ %
22 - butyl cellosolve	_____ %
23 - cellosolve acetate	_____ %
24 - methyl acetate	_____ %
25 - ethyl acetate	_____ %
26 - iso-propyl acetate	_____ %
27 - n-butyl acetate	_____ %
28 - iso-butyl acetate	_____ %
29 - petroleum distillates*	_____ %

ACID CONTENT

Sulfuric	<u><1</u> %
Hydrochloric	<u><1</u> %
Nitric	<u><1</u> %
_____	_____ %

ALKALI CONTENT

Hydroxides	<u><1</u> %
Carbonates	<u><1</u> %
_____	_____ %
_____	_____ %

GLYCOLS

Ethylene	<u><1</u> %
Propylene	<u><1</u> %

PCBs

_____	_____ ppm
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INORGANICS

_____	_____ %
_____	_____ %
_____	_____ %
_____	_____ %
_____	_____ %
_____	_____ %
_____	_____ %
_____	_____ %
_____	_____ %
_____	_____ %

Comments: _____

See reverse side for explanation of terms.

Irving M. Kipnis
Irving M. Kipnis, Ph.D.
Laboratory Director

Gascoyne Laboratories, Inc.

A Commercial Testing Laboratory

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AR100194

GASCOYNE WASTE IDENTIFICATION REPORT

REPORT NO: 874379-16
 REPORT TO: ENPRO

INFORMATION SUPPLIED WITH SAMPLE

SAMPLE NO: 498
 Source/Process Generating Waste: _____
 Expected to be: Flammable _____ Toxic _____ Oxidizer _____ Reactive _____
 Corrosive _____ pH _____ Other _____
 Expected Components: _____ % _____ % _____ %
 _____ % _____ % _____ %

CHEMICAL CHARACTERISTICS (Level I Analysis)

Color	<u>BROWN</u>	Flash Point	<u>7200</u> °F.	pH	<u><1.0</u>
Phases		Organic Vapors @ Room Temp.*	<u>NEG</u>	Water Content	<u>11.9</u> %
Solid	Approx. <u>0</u> %	Chlorinated Vapors @ Room Temp.*	<u>NEG</u>	Ash Content	<u><0.1</u> %
Semi-Solid	Approx. <u>0</u> %			Residue @ 100°C.*	<u>85</u> %
Liquid - Top Layer	Approx. <u>100</u> %	Specific Gravity	<u>1.811</u>	Oil Content*	<u><0.1</u> %
Liquid - Bottom Layer	Approx. <u>0</u> %	Specific Gravity	<u>0</u>	Total Volatile Content, Less water*	<u>85</u> %
				Total Organic Content*	<u><0.1</u> %
				Total Organic Chlorides (Cl)*	<u><0.1</u> %
				Heat of Combustion (BTU/lb)	<u>—</u>

CHEMICAL COMPOSITION

<p>ALCOHOLS</p> <p>1 - iso-amyl-alcohol <u><1</u> %</p> <p>2 - 2-butanol _____ %</p> <p>3 - iso-butanol _____ %</p> <p>4 - n-butanol _____ %</p> <p>5 - tert-butanol _____ %</p> <p>6 - cyclohexanol _____ %</p> <p>7 - diacetone alcohol _____ %</p> <p>8 - ethanol _____ %</p> <p>9 - methanol _____ %</p> <p>10 - iso-propanol _____ %</p> <p>11 - n-propanol _____ %</p> <p>HALOGENATED SOLVENTS</p> <p>1 - carbon tetrachloride _____ %</p> <p>2 - chlorobenzene _____ %</p> <p>3 - chloroform _____ %</p> <p>4 - 1,1 dichloroethane _____ %</p> <p>5 - 1,2 dichloroethane _____ %</p> <p>6 - 1,2 dichloroethylene _____ %</p> <p>7 - keron _____ %</p> <p>8 - methylene chloride _____ %</p> <p>9 - 1,1,2 tetrachloroethane _____ %</p> <p>10 - tetrachloroethylene _____ %</p> <p>11 - 1,1,1 trichloroethane _____ %</p> <p>12 - trichloroethylene _____ %</p> <p>13 - 1,1,2 trichloroethane _____ %</p>	<p>NON-HALOGENATED SOLVENTS</p> <p>1 - hexane <u><1</u> %</p> <p>2 - heptane _____ %</p> <p>3 - octane _____ %</p> <p>4 - iso-octane _____ %</p> <p>5 - cyclohexane _____ %</p> <p>6 - benzene _____ %</p> <p>7 - toluene _____ %</p> <p>8 - ethyl benzene _____ %</p> <p>9 - xylenes _____ %</p> <p>10 - styrene _____ %</p> <p>11 - nitrobenzene _____ %</p> <p>12 - pyridine _____ %</p> <p>13 - acetone _____ %</p> <p>14 - methyl ethyl ketone _____ %</p> <p>15 - methyl iso-butyl ketone _____ %</p> <p>16 - methyl iso-amyl-ketone _____ %</p> <p>17 - diethyl ether _____ %</p> <p>18 - dioxane _____ %</p> <p>19 - tetrahydrofuran _____ %</p> <p>20 - methyl cellosolve _____ %</p> <p>21 - cellosolve _____ %</p> <p>22 - butyl cellosolve _____ %</p> <p>23 - cellosolve acetate _____ %</p> <p>24 - methyl acetate _____ %</p> <p>25 - ethyl acetate _____ %</p> <p>26 - iso-propyl acetate _____ %</p> <p>27 - n-butyl acetate _____ %</p> <p>28 - iso-butyl acetate _____ %</p> <p>29 - petroleum distillates* _____ %</p>	<p>ACID CONTENT</p> <p>Sulfuric <u>88.0</u> %</p> <p>Hydrochloric <u><1</u> %</p> <p>Nitric <u><1</u> %</p> <p>_____ %</p> <p>_____ %</p> <p>ALKALI CONTENT</p> <p>Hydroxides <u><1</u> %</p> <p>Carbonates <u><1</u> %</p> <p>_____ %</p> <p>_____ %</p> <p>GLYCOLS</p> <p>Ethylene <u><1</u> %</p> <p>Propylene <u><1</u> %</p> <p>_____ %</p> <p>PCBs</p> <p>_____ ppm</p> <p>INORGANICS</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p>
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LEVEL I ANALYSIS

LEVEL II ANALYSIS

Comments: _____

 See reverse side for explanation of terms.

Irving M. Kipnis
 Irving M. Kipnis, Ph.D.
 Laboratory Director

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AR100194

GASCOYNE WASTE IDENTIFICATION REPORT

REPORT NO.: 874379-17

REPORT TO: ENPRO

INFORMATION SUPPLIED WITH SAMPLE

SAMPLE NO.: 500

Source/Process Generating Waste: _____

Expected to be: Flammable _____ Toxic _____ Oxidizer _____ Reactive _____

Corrosive _____ pH _____ Other _____

Expected Components: _____ % _____ % _____ %

_____ % _____ % _____ %

CHEMICAL CHARACTERISTICS

(Level I Analysis)

Color: <u>CLEAR/BROWN</u>	Flash Point: <u>7200</u> °F.	pH: <u>4.0</u>
Phases:	Organic Vapors @ Room Temp.* <u>NEG</u>	Water Content: <u>56.1</u> %
Solids: Approx. <u>2</u> %	Chlorinated Vapors @ Room Temp.* <u>NEG</u>	Ash Content: <u>20.1</u> %
Semi-Solids: Approx. <u>0</u> %		Residue @ 100°C.*: <u>43</u> %
Liquid - Top Layer: Approx. <u>98</u> %	Specific Gravity: <u>1.338</u>	Oil Content*: <u>20.1</u> %
Liquid - Bottom Layer: Approx. <u>0</u> %	Specific Gravity: _____	Total Volatile Content, Less water*: <u>43</u> %
		Total Organic Content*: _____ %
		Total Organic Chlorides (Cl)*: <u>20.1</u> %
		Heat of Combustion (BTU/lb): _____

LEVEL I ANALYSIS

CHEMICAL COMPOSITION

<p>ALCOHOLS</p> <p>1 - iso-amylic alcohol <u><1</u> %</p> <p>2 - 2-butanol _____ %</p> <p>3 - iso-butanol _____ %</p> <p>4 - n-butanol _____ %</p> <p>5 - tert-butanol _____ %</p> <p>6 - cyclohexanol _____ %</p> <p>7 - diacetone alcohol _____ %</p> <p>8 - ethanol _____ %</p> <p>9 - methanol _____ %</p> <p>10 - iso-propanol _____ %</p> <p>11 - n-propanol _____ %</p> <p>HALOGENATED SOLVENTS</p> <p>1 - carbon tetrachloride _____ %</p> <p>2 - chlorobenzene _____ %</p> <p>3 - chloroform _____ %</p> <p>4 - 1,1 dichloroethane _____ %</p> <p>5 - 1,2 dichloroethane _____ %</p> <p>6 - 1,2 dichloroethylene _____ %</p> <p>7 - trion _____ %</p> <p>8 - methylene chloride _____ %</p> <p>9 - 1,1,2,2 tetrachloroethane _____ %</p> <p>10 - tetrachloroethylene _____ %</p> <p>11 - 1,1,1 trichloroethane _____ %</p> <p>12 - trichloroethylene _____ %</p> <p>13 - 1,1,2 trichloroethane _____ %</p>	<p>NON-HALOGENATED SOLVENTS</p> <p>1 - hexane <u><1</u> %</p> <p>2 - heptane _____ %</p> <p>3 - octane _____ %</p> <p>4 - iso-octane _____ %</p> <p>5 - cyclohexane _____ %</p> <p>6 - benzene _____ %</p> <p>7 - toluene _____ %</p> <p>8 - ethyl benzene _____ %</p> <p>9 - xylenes _____ %</p> <p>10 - styrene _____ %</p> <p>11 - nitrobenzene _____ %</p> <p>12 - pyridine _____ %</p> <p>13 - acetone _____ %</p> <p>14 - methyl ethyl ketone _____ %</p> <p>15 - methyl iso-butyl ketone _____ %</p> <p>16 - methyl iso-amylic ketone _____ %</p> <p>17 - diethyl ether _____ %</p> <p>18 - dioxane _____ %</p> <p>19 - tetrahydrofuran _____ %</p> <p>20 - methyl cellosolve _____ %</p> <p>21 - cellosolve _____ %</p> <p>22 - butyl cellosolve _____ %</p> <p>23 - cellosolve acetate _____ %</p> <p>24 - methyl acetate _____ %</p> <p>25 - ethyl acetate _____ %</p> <p>26 - iso-propyl acetate _____ %</p> <p>27 - n-butyl acetate _____ %</p> <p>28 - iso-butyl acetate _____ %</p> <p>29 - petroleum distillates* _____ %</p>	<p>ACID CONTENT</p> <p>Sulfuric <u>43.3</u> %</p> <p>Hydrochloric <u><1</u> %</p> <p>Nitric <u><1</u> %</p> <p>ALKALI CONTENT</p> <p>Hydroxides <u><1</u> %</p> <p>Carbonates <u><1</u> %</p> <p>GLYCOLS</p> <p>Ethylene <u><1</u> %</p> <p>Propylene <u><1</u> %</p> <p>PCBs _____ ppm</p> <p>INORGANICS</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p> <p>_____ %</p>
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LEVEL II ANALYSIS

Comments: _____

Gascoyne Laboratories, Inc.

A Commercial Testing Laboratory

2101 Van Daman Street
 Holabird Industrial Park
 Baltimore, MD 21224-8697
 (301) 285-8510

See reverse side for explanation of terms.

Irving M. Kipnis
 Irving M. Kipnis, Ph.D.
 Laboratory Director

AR 100 P9

GASCOYNE WASTE IDENTIFICATION REPORT

REPORT NO.: 874379-18

REPORT TO: ENPRO

INFORMATION SUPPLIED WITH SAMPLE

SAMPLE NO: 503

Source/Process Generating Waste: _____

Expected to be: Flammable _____ Toxic _____ Oxidizer _____ Reactive _____

Corrosive _____ pH _____ Other _____

Expected Components: _____ % _____ % _____ %

_____ % _____ % _____ %

CHEMICAL CHARACTERISTICS

(Level I Analysis)

Color: <u>Clear Yellow</u>	Flash Point: <u>2200</u> °F.	pH: <u>7.5</u>	
Phases:	Organic Vapors @ Room Temp.* <u>NEG</u>	Water Content: <u>99.4</u> %	
Solid: Approx. <u>0</u> %	Chlorinated Vapors @ Room Temp.* <u>NEG</u>	Ash Content: <u><0.1</u> %	
Semi-Solid: Approx. <u>0</u> %		Residue @ 100°C.*: <u>0.9</u> %	
Liquid - Top Layer: Approx. <u>100</u> %	Specific Gravity: <u>1.010</u>	Oil Content*: <u><0.1</u> %	
Liquid - Bottom Layer: Approx. <u>0</u> %	Specific Gravity: <u>0</u>	Total Volatile Content, Less water*: <u><0.1</u> %	
		Total Organic Content*: <u>0.6</u> %	
		Total Organic Chlorides (Cl)*: <u><0.1</u> %	
		Heat of Combustion (BTU/lb): _____	

CHEMICAL COMPOSITION

ALCOHOLS	NON-HALOGENATED SOLVENTS	ACID CONTENT
1 - iso-amyl-alcohol <u><1</u> %	1 - hexane <u><1</u> %	Sulfuric <u><1</u> %
2 - 2-pentanol _____ %	2 - heptane _____ %	Hydrochloric <u><1</u> %
3 - iso-butanol _____ %	3 - octane _____ %	Nitric <u><1</u> %
4 - n-butanol _____ %	4 - iso-octane _____ %	_____ %
5 - tert-butanol _____ %	5 - cyclohexane _____ %	_____ %
6 - cyclohexanol _____ %	6 - benzene _____ %	ALKALAI CONTENT
7 - diacetone alcohol _____ %	7 - toluene _____ %	Hydroxides <u><1</u> %
8 - ethanol _____ %	8 - ethyl benzene _____ %	Carbonates <u><1</u> %
9 - methanol _____ %	9 - xylenes _____ %	_____ %
10 - iso-propanol _____ %	10 - styrene _____ %	_____ %
11 - n-propanol _____ %	11 - nitrobenzene _____ %	GLYCOLS
	12 - pyridine _____ %	Ethylene <u><1</u> %
	13 - acetone _____ %	Propylene <u><1</u> %
HALOGENATED SOLVENTS	14 - methyl ethyl ketone _____ %	PCBs _____ ppm
1 - carbon tetrachloride _____ %	15 - methyl iso-butyl ketone _____ %	
2 - chlorobenzene _____ %	16 - methyl iso-amyl-ketone _____ %	INORGANICS
3 - chloroform _____ %	17 - diethyl ether _____ %	_____ %
4 - 1,1 dichloroethane _____ %	18 - dioxane _____ %	_____ %
5 - 1,2 dichloroethane _____ %	19 - tetrahydrofuran _____ %	_____ %
6 - 1,2 dichloroethylene _____ %	20 - methyl cellosolve _____ %	_____ %
7 - freon _____ %	21 - cellosolve _____ %	_____ %
8 - methylene chloride _____ %	22 - butyl cellosolve _____ %	_____ %
9 - 1,1,2,2 tetrachloroethane _____ %	23 - cellosolve acetate _____ %	_____ %
10 - tetrachloroethylene _____ %	24 - methyl acetate _____ %	_____ %
11 - 1,1,1 trichloroethane _____ %	25 - ethyl acetate _____ %	_____ %
12 - trichloroethylene _____ %	26 - iso-propyl acetate _____ %	_____ %
13 - 1,1,2 trichloroethane _____ %	27 - n-butyl acetate _____ %	_____ %
	28 - iso-butyl acetate _____ %	_____ %
	29 - petroleum distillates* _____ %	_____ %

LEVEL I ANALYSIS

LEVEL II ANALYSIS

Comments: _____

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See reverse side for explanation of terms.

Irving M. Kipnis
Irving M. Kipnis, Ph.D.
Laboratory Director

AR100197

GASCOYNE WASTE IDENTIFICATION REPORT

REPORT NO: 874379-19

REPORT TO: ENPRO

INFORMATION SUPPLIED WITH SAMPLE

SAMPLE NO: 504

Source/Process Generating Waste: _____

Expected to be: Flammable _____ Toxic _____ Oxidizer _____ Reactive _____

Corrosive _____ pH _____ Other _____

Expected Components: _____ % _____ % _____ % _____ %

LEVEL I ANALYSIS

CHEMICAL CHARACTERISTICS (Level I Analysis)

Color: <u>Clear yellow/white</u>	Flash Point: <u>7200</u> °F.	pH: <u>2.0</u>
Phases	Organic Vapors @ Room Temp.* <u>NEG</u>	Water Content <u>99.5</u> %
Solid Approx <u>1</u> %	Chlorinated Vapors @ Room Temp.* <u>NEG</u>	Ash Content <u>0.1</u> %
Semi-Solid Approx <u>0</u> %		Residue @ 100°C.* <u>0.3</u> %
Liquid - Top Layer Approx <u>99</u> %	Specific Gravity <u>1.005</u>	Oil Content* <u>0.1</u> %
Liquid - Bottom Layer Approx <u>0</u> %	Specific Gravity <u>0</u>	Total Volatile Content, Less water* <u>0.2</u> %
		Total Organic Content* <u>0.5</u> %
		Total Organic Chlorides (Cl)* <u>-</u> %
		Heat of Combustion (BTU/lb) <u>-</u>

LEVEL II ANALYSIS

CHEMICAL COMPOSITION

ALCOHOLS 1 - iso-amyl-alcohol <u><1</u> % 2 - 2-butanol _____ % 3 - iso-butanol _____ % 4 - n-butanol _____ % 5 - tert-butanol _____ % 6 - cyclohexanol _____ % 7 - diacetone alcohol _____ % 8 - ethanol _____ % 9 - methanol _____ % 10 - iso-propanol _____ % 11 - n-propanol _____ %	NON-HALOGENATED SOLVENTS 1 - hexane <u><1</u> % 2 - heptane _____ % 3 - octane _____ % 4 - iso-octane _____ % 5 - cyclohexane _____ % 6 - benzene _____ % 7 - toluene _____ % 8 - ethyl benzene _____ % 9 - xylenes _____ % 10 - styrene _____ % 11 - nitrobenzene _____ % 12 - pyridine _____ % 13 - acetone _____ % 14 - methyl ethyl ketone _____ % 15 - methyl iso-butyl ketone _____ % 16 - methyl iso-amyl-ketone _____ % 17 - diethyl ether _____ % 18 - dioxane _____ % 19 - tetrahydrofuran _____ % 20 - methyl cellosolve _____ % 21 - cellosolve _____ % 22 - butyl cellosolve _____ % 23 - cellosolve acetate _____ % 24 - methyl acetate _____ % 25 - ethyl acetate _____ % 26 - iso-propyl acetate _____ % 27 - n-butyl acetate _____ % 28 - iso-butyl acetate _____ % 29 - petroleum distillates* <u>✓</u> %	ACID CONTENT Sulfuric <u><1</u> % Hydrochloric <u><1</u> % Nitric <u><1</u> % _____ % _____ % ALKALI CONTENT Hydroxides <u><1</u> % Carbonates <u><1</u> % _____ % _____ % GLYCOLS Ethylene <u><1</u> % Propylene <u><1</u> % PCBs _____ ppm INORGANICS _____ % _____ % _____ % _____ % _____ % _____ % _____ % _____ % _____ % _____ % _____ %
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Comments: _____

Irving M. Kipnis
 Irving M. Kipnis, Ph.D.
 Laboratory Director

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See reverse side for explanation of terms.

ART 100198

GASCOYNE WASTE IDENTIFICATION REPORT

REPORT NO.: 874379-20

ORIGINAL
4/83

REPORT TO: ENPRO

INFORMATION SUPPLIED WITH SAMPLE

SAMPLE NO: 531

Source/Process Generating Waste: _____

Expected to be: Flammable _____ Toxic _____ Oxidizer _____ Reactive _____
Corrosive _____ pH _____ Other _____

Expected Components: _____ % _____ % _____ %
_____ % _____ % _____ %

CHEMICAL CHARACTERISTICS (Level I Analysis)

Color: <u>CLEAR</u>	Flash Point: <u>7200</u> °F.	pH: <u>5.5</u>	
Phases:	Organic Vapors @ Room Temp.: <u>NEG</u>	Water Content: <u>97.9</u> %	
Solid: Approx. <u>0</u> %	Chlorinated Vapors @ Room Temp.: <u>NEG</u>	Ash Content: <u>0.8</u> %	
Semi-Solid: Approx. <u>0</u> %		Residue @ 100°C.: <u>1.5</u> %	
Liquid - Top Layer: Approx. <u>100</u> %	Specific Gravity: <u>1.012</u>	Oil Content*: <u>20.1</u> %	
Liquid - Bottom Layer: Approx. <u>0</u> %	Specific Gravity: <u>0</u>	Total Volatile Content, Less water*: <u>0.6</u> %	
		Total Organic Content*: <u>0.4</u> %	
		Total Organic Chlorides (Cl)*: _____ %	
		Heat of Combustion (BTU/lb): _____	

CHEMICAL COMPOSITION

ALCOHOLS	NON-HALOGENATED SOLVENTS	ACID CONTENT
1 - iso-amyl-alcohol <u><1</u> %	1 - hexane _____ %	Sulfuric <u><1</u> %
2 - 2-butanol _____ %	2 - heptane _____ %	Hydrochloric <u><1</u> %
3 - iso-butanol _____ %	3 - octane _____ %	Nitric <u><1</u> %
4 - n-butanol _____ %	4 - iso-octane _____ %	_____ %
5 - tert-butanol _____ %	5 - cyclohexane _____ %	_____ %
6 - cyclohexanol _____ %	6 - benzene _____ %	ALKALI CONTENT
7 - diacetone alcohol _____ %	7 - toluene _____ %	Hydroxides <u><1</u> %
8 - ethanol _____ %	8 - ethyl benzene _____ %	Carbonates <u><1</u> %
9 - methanol _____ %	9 - xylenes _____ %	_____ %
10 - iso-propanol _____ %	10 - styrene _____ %	GLYCOLS
11 - n-propanol _____ %	11 - nitrobenzene _____ %	Ethylene <u><1</u> %
	12 - pyridine _____ %	Propylene <u><1</u> %
	13 - acetone _____ %	_____ %
	14 - methyl ethyl ketone _____ %	PCBs _____ ppm
	15 - methyl iso-butyl ketone _____ %	INORGANICS
	16 - methyl iso-amyl-ketone _____ %	_____ %
	17 - diethyl ether _____ %	_____ %
	18 - dioxane _____ %	_____ %
	19 - tetrahydrofuran _____ %	_____ %
	20 - methyl cellosolve _____ %	_____ %
	21 - cellosolve _____ %	_____ %
	22 - butyl cellosolve _____ %	_____ %
	23 - cellosolve acetate _____ %	_____ %
	24 - methyl acetate _____ %	_____ %
	25 - ethyl acetate _____ %	_____ %
	26 - iso-propyl acetate _____ %	_____ %
	27 - n-butyl acetate _____ %	_____ %
	28 - iso-butyl acetate _____ %	_____ %
	29 - petroleum distillates* _____ %	_____ %

LEVEL I ANALYSIS

LEVEL II ANALYSIS

Comments: _____

Gascoyne Laboratories, Inc.

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reverse side for explanation of terms.

Irving M. Kipnis
Irving M. Kipnis Ph.D.
Laboratory Director

AR100199

GASCOYNE WASTE IDENTIFICATION REPORT

REPORT NO.: 874379-21

REPORT TO: ENPRO

INFORMATION SUPPLIED WITH SAMPLE

SAMPLE NO.: 534

Source/Process Generating Waste: _____

Expected to be: Flammable _____ Toxic _____ Oxidizer _____ Reactive _____

Corrosive _____ pH _____ Other _____

Expected Components: _____ % _____ % _____ % _____ %

LEVEL I ANALYSIS

CHEMICAL CHARACTERISTICS (Level I Analysis)

Color: Brown Flash Point: >200 °F. pH: 2.1

Phases: Organic Vapors @ Room Temp.* NEG. Water Content: 12.8 %

Ash Content: 16.1 %

Solid Approx. 0 % Chlorinated Vapors @ Room Temp.* NEG. Residue @ 100°C.* _____ %

Semi-Solid Approx. 0 % Oil Content* _____ %

Liquid - Top Layer Approx. 100 % Specific Gravity: 1.374 Total Volatile Content, Less water* _____ %

Liquid - Bottom Layer Approx. 0 % Specific Gravity _____ Total Organic Content* _____ %

Total Organic Chlorides (Cl)* _____ %

Heat of Combustion (BTU/lb) _____

LEVEL II ANALYSIS

CHEMICAL COMPOSITION

ALCOHOLS	NON-HALOGENATED SOLVENTS	ACID CONTENT
1 - iso-amyl-alcohol <u>N/A</u> %	1 - hexane <u>N/A</u> %	Sulfuric <u>2.1</u> %
2 - 2-butanol _____ %	2 - heptane _____ %	Hydrochloric <u>22.6</u> %
3 - iso-butanol _____ %	3 - octane _____ %	Nitric <u>2.1</u> %
4 - n-butanol _____ %	4 - iso-octane _____ %	_____ %
5 - tert-butanol _____ %	5 - cyclohexane _____ %	_____ %
6 - cyclohexanol _____ %	6 - benzene _____ %	_____ %
7 - diacetone alcohol _____ %	7 - toluene _____ %	ALKALAI CONTENT
8 - ethanol _____ %	8 - ethyl benzene _____ %	Hydroxides _____ %
9 - methanol _____ %	9 - xylenes _____ %	Carbonates _____ %
10 - iso-propanol _____ %	10 - styrene _____ %	_____ %
11 - n-propanol _____ %	11 - nitrobenzene _____ %	_____ %
	12 - pyridine _____ %	GLYCOLS
	13 - acetone _____ %	Ethylene _____ %
	14 - methyl ethyl ketone _____ %	Propylene _____ %
	15 - methyl iso-butyl ketone _____ %	PCBs _____ ppm
	16 - methyl iso-amyl-ketone _____ %	
	17 - diethyl ether _____ %	INORGANICS
	18 - dioxane _____ %	Iron (Fe) <u>11.7</u> %
	19 - tetrahydrofuran _____ %	Copper (Cu) <u>0.8</u> %
	20 - methyl cellosolve _____ %	Zinc (Zn) <u>0.4</u> %
	21 - cellosolve _____ %	_____ %
	22 - butyl cellosolve _____ %	_____ %
	23 - cellosolve acetate _____ %	_____ %
	24 - methyl acetate _____ %	_____ %
	25 - ethyl acetate _____ %	_____ %
	26 - iso-propyl acetate _____ %	_____ %
	27 - n-butyl acetate _____ %	_____ %
	28 - iso-butyl acetate _____ %	_____ %
	29 - petroleum distillates* _____ %	_____ %
		_____ %

Comments: _____

Gascoyne Laboratories, Inc.

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See reverse side for explanation of terms.

Irving M. Kipnis
Irving M. Kipnis, Ph.D.
Laboratory Director

AR100200

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GASCOYNE WASTE IDENTIFICATION REPORT

REPORT NO: 874379-22

REPORT TO: ENPRO

INFORMATION SUPPLIED WITH SAMPLE

SAMPLE NO: 535

Source/Process Generating Waste: _____

Expected to be: Flammable _____ Toxic _____ Oxidizer _____ Reactive _____

Corrosive _____ pH _____ Other _____

Expected Components: _____ % _____ % _____ %

_____ % _____ % _____ %

CHEMICAL CHARACTERISTICS

(Level I Analysis)

Color: <u>blue</u>	Flash Point: <u>7200</u> °F.	pH: <u>9.0</u>	
Phases	Organic Vapors @ Room Temp.* <u>NEG</u>	Water Content: <u>65.3</u> %	
Solid Approx. <u>0</u> %	Chlorinated Vapors @ Room Temp.* <u>NEG</u>	Ash Content: _____ %	
Semi-Solid Approx. <u>0</u> %		Residue @ 100°C.* <u>2.8</u> %	
Liquid - Top Layer Approx. <u>100</u> %	Specific Gravity <u>1.022</u>	Oil Content* <u>0.6</u> %	
Liquid - Bottom Layer Approx. <u>0</u> %	Specific Gravity <u>0</u>	Total Volatiles Content, Less water* <u>31.9</u> %	
		Total Organic Content* <u>33.5</u> %	
		Total Organic Chlorides (Cl)* <u><0.1</u> %	
		Heat of Combustion (BTU/lb) _____	

CHEMICAL COMPOSITION

ALCOHOLS	NON-HALOGENATED SOLVENTS	ACID CONTENT
1 - iso-amyl alcohol <u><1</u> %	1 - hexane <u><1</u> %	Sulfuric <u><1</u> %
2 - 2-butanol _____ %	2 - heptane _____ %	Hydrochloric <u><1</u> %
3 - iso-butanol _____ %	3 - octane _____ %	Nitric <u><1</u> %
4 - n-butanol _____ %	4 - iso-octane _____ %	_____ %
5 - tert-butanol _____ %	5 - cyclohexane _____ %	_____ %
6 - cyclohexanol _____ %	6 - benzene _____ %	ALKALI CONTENT
7 - diacetone alcohol _____ %	7 - toluene _____ %	Hydroxides _____ %
8 - ethanol _____ %	8 - ethyl benzene _____ %	Carbonates _____ %
9 - methanol _____ %	9 - xylenes _____ %	_____ %
10 - iso-propanol _____ %	10 - styrene _____ %	GLYCOLS
11 - n-propanol <u>✓</u> %	11 - nitrobenzene _____ %	Ethylene <u><1</u> %
	12 - pyridine _____ %	Propylene <u><1</u> %
	13 - acetone _____ %	PCBs <u><5</u> ppm
	14 - methyl ethyl ketone _____ %	INORGANICS
	15 - methyl iso-butyl ketone _____ %	<u>Ammonia</u> <u>0.1</u> %
	16 - methyl iso-amyl-ketone _____ %	_____ %
	17 - diethyl ether _____ %	_____ %
	18 - dioxane _____ %	_____ %
	19 - tetrahydrofuran _____ %	_____ %
	20 - methyl cellosolve _____ %	_____ %
	21 - cellosolve _____ %	_____ %
	22 - butyl cellosolve _____ %	_____ %
	23 - cellosolve acetate _____ %	_____ %
	24 - methyl acetate _____ %	_____ %
	25 - ethyl acetate _____ %	_____ %
	26 - iso-propyl acetate _____ %	_____ %
	27 - n-butyl acetate _____ %	_____ %
	28 - iso-butyl acetate _____ %	_____ %
	29 - petroleum distillates* <u>✓</u> %	_____ %

HALOGENATED SOLVENTS

1 - carbon tetrachloride <u><1</u> %
2 - chlorobenzene _____ %
3 - chloroform _____ %
4 - 1,1 dichloroethane _____ %
5 - 1,2 dichloroethane _____ %
6 - 1,2 dichloroethylene _____ %
7 - freon _____ %
8 - methylene chloride _____ %
9 - 1,1,2,2 tetrachloroethane _____ %
10 - tetrachloroethylene _____ %
11 - 1,1,1 trichloroethane _____ %
12 - trichloroethylene _____ %
13 - 1,1,2 trichloroethane <u>✓</u> %

LEVEL I ANALYSIS

LEVEL II ANALYSIS

Comments: 1 major unknown peak found on gas chromatograph

Gascoyne Laboratories, Inc.
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see reverse side for explanation of terms.

James M. Kipnis
James M. Kipnis, Ph.D. 600201
Laboratory Director

GASCOYNE WASTE IDENTIFICATION REPORT

REPORT NO.: 874379-23

REPORT TO: ENPEO

INFORMATION SUPPLIED WITH SAMPLE

SAMPLE NO.: 540

Source/Process Generating Waste: _____

Expected to be: Flammable _____ Toxic _____ Oxidizer _____ Reactive _____

Corrosive _____ pH _____ Other _____

Expected Components: _____ %

_____ %

CHEMICAL CHARACTERISTICS (Level I Analysis)

Color: <u>CLEAR</u>	Flash Point: <u>>200</u> °F.	pH: <u>4.0</u>
Phases: _____	Organic Vapors @ Room Temp.: <u>NEG</u>	Water Content: <u>97.3</u> %
Solid: Approx. <u>0</u> %	Chlorinated Vapors @ Room Temp.: <u>NEG</u>	Ash Content: <u><0.1</u> %
Semi-Solid: Approx. <u>0</u> %		Residue @ 100°C.: <u>2.7</u> %
Liquid - Top Layer: Approx. <u>100</u> %	Specific Gravity: <u>1.004</u>	Oil Content*: <u><0.1</u> %
Liquid - Bottom Layer: Approx. <u>0</u> %	Specific Gravity: <u>0</u>	Total Volatile Content, Less water*: <u><0.1</u> %
		Total Organic Content*: <u>2.7</u> %
		Total Organic Chlorides (Cl)*: <u><0.1</u> %
		Heat of Combustion (BTU/lb): _____

CHEMICAL COMPOSITION

ALCOHOLS	NUN-HALOGENATED SOLVENTS	ACID CONTENT
1 - iso-amyl-alcohol <u><1</u> %	1 - hexane <u><1</u> %	Sulfuric <u><1</u> %
2 - 2-butanol _____ %	2 - heptane _____ %	Hydrochloric <u><1</u> %
3 - iso-butanol _____ %	3 - octane _____ %	Nitric <u><1</u> %
4 - n-butanol _____ %	4 - iso-octane _____ %	_____ %
5 - tert-butanol _____ %	5 - cyclohexane _____ %	
6 - cyclohexanol _____ %	6 - benzene _____ %	ALKALAI CONTENT
7 - diacetone alcohol _____ %	7 - toluene _____ %	Hydroxides <u><1</u> %
8 - ethanol _____ %	8 - ethyl benzene _____ %	Carbonates <u><1</u> %
9 - methanol _____ %	9 - xylenes _____ %	_____ %
10 - iso-propanol _____ %	10 - styrene _____ %	
11 - n-propanol _____ %	11 - nitrobenzene _____ %	GLYCOLS
	12 - pyridine _____ %	Ethylene <u><1</u> %
	13 - acetone _____ %	Propylene <u><1</u> %
	14 - methyl ethyl ketone _____ %	
	15 - methyl iso-butyl ketone _____ %	PCBs
	16 - methyl iso-amyl-ketone _____ %	<u><5</u> ppm
	17 - diethyl ether _____ %	
	18 - dioxane _____ %	INORGANICS
	19 - tetrahydrofuran _____ %	_____ %
	20 - methyl cellosolve _____ %	_____ %
	21 - cellosolve _____ %	_____ %
	22 - butyl cellosolve _____ %	_____ %
	23 - cellosolve acetate _____ %	_____ %
	24 - methyl acetate _____ %	_____ %
	25 - ethyl acetate _____ %	_____ %
	26 - iso-propyl acetate _____ %	_____ %
	27 - n-butyl acetate _____ %	_____ %
	28 - iso-butyl acetate _____ %	_____ %
	29 - petroleum distillates* <u><1</u> %	_____ %

HALOGENATED SOLVENTS

1 - carbon tetrachloride _____ %
2 - chlorobenzene _____ %
3 - chloroform _____ %
4 - 1,1 dichloroethane _____ %
5 - 1,2 dichloroethane _____ %
6 - 1,2 dichloroethylene _____ %
7 - freon _____ %
8 - methylene chloride _____ %
9 - 1,1,2,2 tetrachloroethane _____ %
10 - tetrachloroethylene _____ %
11 - 1,1,1 trichloroethane _____ %
12 - trichloroethylene _____ %
13 - 1,1,2 trichloroethane <u><1</u> %

LEVEL I ANALYSIS

LEVEL II ANALYSIS

Comments: 2 major peak found on gas chromatograph

Gascoyne Laboratories, Inc.

A Commercial Testing Laboratory

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See reverse side for explanation of terms.

Irving M. Kipnis
Irving M. Kipnis, R.D. 100202
Laboratory Director

GASCOYNE WASTE IDENTIFICATION REPORT

REPORT NO: 874379-24

REPORT TO: ENPEO

INFORMATION SUPPLIED WITH SAMPLE

SAMPLE NO: 544

Source/Process Generating Waste: _____

Expected to be: Flammable _____ Toxic _____ Oxidizer _____ Reactive _____

Corrosive _____ pH _____ Other _____

Expected Components: _____ % _____ % _____ % _____ %

LEVEL I ANALYSIS

CHEMICAL CHARACTERISTICS (Level I Analysis)

Color	<u>milky white</u>	Flash Point	<u>7200</u> °F.	pH	<u>7.0</u>
Phases		Organic Vapors @ Room Temp.*	<u>NEG</u>	Water Content	<u>77.2</u> %
Solid	Approx <u>0</u> %	Chlorinated Vapors @ Room Temp.*	<u>NEG</u>	Ash Content	<u>0.6</u> %
Semi-Solid	Approx <u>0</u> %			Residue @ 100°C.*	<u>17.5</u> %
Liquid - Top Layer	Approx <u>100</u> %	Specific Gravity	<u>1.036</u>	Oil Content*	<u>1.2</u> %
Liquid - Bottom Layer	Approx <u>0</u> %	Specific Gravity	<u>0</u>	Total Volatile Content, Less water*	<u>5.3</u> %
				Total Organic Content*	<u>22.2</u> %
				Total Organic Chlorides (Cl)*	<u>—</u> %
				Heat of Combustion (BTU/lb)	<u>—</u>

CHEMICAL COMPOSITION

ALCOHOLS	NON-HALOGENATED SOLVENTS	ACID CONTENT
1 - iso-amyl alcohol <u><1</u> %	1 - hexane <u><1</u> %	Sulfuric <u><1</u> %
2 - 2-butanol _____ %	2 - heptane _____ %	Hydrochloric <u><1</u> %
3 - iso-butanol _____ %	3 - octane _____ %	Nitric <u><1</u> %
4 - n-butanol _____ %	4 - iso-octane _____ %	_____ %
5 - tert-butanol _____ %	5 - cyclohexane _____ %	_____ %
6 - cyclohexanol _____ %	6 - benzene _____ %	_____ %
7 - diacetone alcohol _____ %	7 - toluene _____ %	ALKALI CONTENT
8 - ethanol _____ %	8 - ethyl benzene _____ %	Hydroxides <u><1</u> %
9 - methanol _____ %	9 - xylenes _____ %	Carbonates <u><1</u> %
10 - iso-propanol _____ %	10 - styrene _____ %	_____ %
11 - n-propanol _____ %	11 - nitrobenzene _____ %	_____ %
	12 - pyridine _____ %	GLYCOLS
	13 - acetone _____ %	Ethylene <u><1</u> %
	14 - methyl ethyl ketone _____ %	Propylene <u><1</u> %
	15 - methyl iso-butyl ketone _____ %	_____ %
	16 - methyl iso-amyl ketone _____ %	PCBs <u><5</u> ppm
	17 - diethyl ether _____ %	_____ %
	18 - dioxane _____ %	INORGANICS
	19 - tetrahydrofuran _____ %	_____ %
	20 - methyl cellosolve _____ %	_____ %
	21 - cellosolve _____ %	_____ %
	22 - butyl cellosolve _____ %	_____ %
	23 - cellosolve acetate _____ %	_____ %
	24 - methyl acetate _____ %	_____ %
	25 - ethyl acetate _____ %	_____ %
	26 - iso-propyl acetate _____ %	_____ %
	27 - n-butyl acetate _____ %	_____ %
	28 - iso-butyl acetate _____ %	_____ %
	29 - petroleum distillates* <u><1</u> %	_____ %

LEVEL II ANALYSIS

Comments: _____

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AR 100203

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DR W J GASCOYNE
1887-1938
W. J. GASCOYNE, JR.
1938-1952
W. J. GASCOYNE, III
1952-1978



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Section IV

Miscellaneous Data



AR100204



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REPORT OF ANALYSIS

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Report To: ENPRO

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Sample I.D.As Below

	<u>Sulfate (SO₄)</u>	<u>Copper (Cu)</u>	<u>Appearance</u>
#351	Negative	Major Constituent	blue solid
#455	Positive	0.17 %	light blue liq.
#457	Negative	1.1 %	blue liquid
#493	Positive	2.0 %	blue liquid
#494	Positive	8.1 %	brown, some blue crystals
#495	Positive	1.9 %	blue liquid
#496	Positive	23.6 %	blue crystalline
#497	Positive	2.2 %	blue liquid/blue crystals
#499	Positive	0.93 %	green liquid
#501	Positive	1.3 %	green liquid
#507	Positive	24.0 %	blue crystalline
#508	Positive	21.0 %	blue crystalline
#514	Positive	23.8 %	black, some blue/green
#515	Trace	> 90 %	brown, some green
#518	Trace	17.1 %	grey, some blue/green
#538	Trace	0.53 %	green liquid
#543	Negative	4.5 %	blue liquid

AR100205

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Sample I.D. As Below

Alkalinity

278	62.3 % (as Na_2CO_3)
290	83.4 % (as Na_2CO_3)
303	0.2 % (as NaOH)
398	14.4 % (as NH_4OH)
406	0.4 % (as NaOH)
427	19.5 % (as NaOH)
429	79.5 % (as Na_2CO_3)
470	76.6 % (as Na_2CO_3)

ARI00206

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Sample I.D.As Below

Water, K.F.

341	99.9 %
352	99.0
384	99.1
387	99.4
423	99.0
434	97.5
436	99.0
547	97.0

AR100207

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Sample I.D.s Below

	<u>Acidity (as HCl)</u>	<u>Acidity (as H₂SO₄)</u>
253	-	100 %
307	10.1 %	-
328	-	0.8 %
329	-	3.1
347	-	37.3
380	0.2	-
386	0.1	-
410	28.8	-
430	-	39.8



AR100208



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Sample I.D. As Below

<u>Sample Location #</u>	<u>Parameter</u>	<u>Test Results</u>
331	Aluminum (Al)	> 90 %
304	Silver (Ag)	0.38 %
305	Silver (Ag)	1.4 %
306	Silver (Ag)	None Detected
282	Sodium (Na)	29.3 %
302	Tungsten (W)	*
330	Tungsten (W)	*
492	Zinc (Zn)	> 90 %
546	Platinum (Pt)	None Detected

Note: * Samples 302 and 330 are insoluble in Aqua Regia and Sulfuric Acid. Tungsten metal exhibits the same properties of acid insolubility.

AR100209

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REPORT OF ANALYSIS

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Sample I.D.As Below

<u>Sample Location #</u>	<u>Parameter</u>	<u>Test Results</u>
292	pH	3.3
388	Water, K.F.	99.4 %
	Ammonia (N)	0.23 %
402	Cyanide (CN)	0.23 %
471	Ash	0.61 %
439	Cyanide (CN)	0.51 ppm (mg/kg)
450	Ethanol	> 75 %
	Water, K.F.	9.9 %
	Flash Point	< 85 degrees F

AR100210

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REPORT OF ANALYSIS

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Sample I.D. A-537

Report Date October 6, 1987

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pH	2.0
Water Content	< 0.1 %
Ash Content	< 0.1 %
Residue (100 degrees C)	99.8 %

Note: Sample submitted to check for Ammonia chloride, however, pH and Ash content suggest the presence of an organic acid.

AR100211

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