M.B.A. Labs J-19268

PETERSON - RIEDEL WASTE ANALYSIS SUMMARY 9808 Hardy Rd (LNM PROFILE: J36143)

Waste Name: Comp. #7

TDWR CODE NUMBER:
DATE SAMPLED: 5-29-89
DATE ANALYSIS COMPLETED: 6-20-89
WASTE FORM (LIQ,DRY S, WET S): Liquid

*RCRA HAZARDOUS (Y/N): Yes - Corrosive
TDWR CI NON-HAZ (Y/N):
TDWR CII NON-HAZ (Y/N):
TDWR CIII NON-HAZ (Y/N):

*If yes indicate why (i,e, I(C)R,T)

ECTION I
****

100% CONSTITUENT ANALYSIS

COMPONENT	WEIGHT
% WATER (XX.YY):	95+%
RGANICS	
% LIQUID ORGANICS (XX.YY):	
% SOLID ORGANICS (XX.YY):	
NORGANICS	
% ASH (XX.YY):	
OTAL (100 ± 2% MAX) =	

MAJOR COMPONENT CHEMICAL NAMES (i.e. If GT 0.1%)

ORGANICS ORGANICS

INORGANICS

PCB's - <1.0 mg/kg

SAMPLE IS SPENT CAUSTIC

ECTION II
****

RCRA CHARACTERISTICS DATA

CHARACTERISTIC	VALUE	HAZARDOUS LIMIT
IGNITABILITY		
F.P. °F	>140	140° F Closed Cup
CORROSIVITY		
pH	13.1	LT 2.0 or GT 12.5
CORROSION RATE		LT 6.35 MM/YR
REACTIVITY (Y/N)	N	chemist'S JUDGEMENT
TOTAL METALS		
As	<1.0 mg/kg	
Ba	<1.0 mg/kg	
Cd	<1.0 mg/kg	
Cr	<1.0 mg/kg	
Pb	<1.0 mg/kg	
Hg	0.16 mg/kg	
Se	<1.0 mg/kg	
Ag	<1.0 mg/kg	
ENDRIN		
LINDANE		
METHOXYCHLOR		
TOXAPHENE		
2,4-D		
2,4,5-TP SILVEX		

9456974

RESTRICTED CHEMICALS

1. Acetaldehyde
2. Acetic Acid
3. Acetic Acid Anhydride
4. Acetone
5. Acetylene Tetrabromide
6. Amyl Acetate
7. Amyl Alcohol
8. Amyl Chloride
9. Aniline
10. Anisole
11. Aqua regia
12. Benzaldehyde
13. Benzene
14. Benzyl Chloride
15. Bromine
16. Bromobenzene
17. Butyl Acetate
18. Butyl Glycol
19. Butyric Acid
20. Calcium Sulfide
21. Carbon Disulfide
22. Carbon tetrachloride
23. Chloric Acid
24. Chlorine (Aqueous solution)
25. Chloroform
26. Chlorosulfonic Acid
27. Chromic Acid
28. Cresylic Acid
29. Decahydronapthalene
30. Dibenzyl ether
31. Dibutyl ether
32. Dibutyl phthalate
33. Dichlorobenzene
34. Dichloroethane
35. Diesel Oil
36. Diethylene glycol monobutyl ether
37. Diethylene
38. Diisobutyl ketone
39. Dioctyl phthalate
40. Ethanol
41. Ethyl Acetate
42. Ethyl Benzene
43. Ethyl Chloride
44. Ethyl Ether
45. Ethylene Chloride
46. Ethylene diechloride
47. Ethylene glycol monoethyl ether
48. Ethylene trichloride
49. Fluoroboric Acid
50. Furfuryl alcohol
51. Gasoline
52. Glacial acetic acid
53. Halothane
54. Heptane
55. Hexane
56. Hydrofluoric Acid
57. Hydrogen peroxide
58. Isooctane
59. Isopropyl ether
60. Methyl Butanol
61. Methyl ethyl ketone
62. Methylene chloride
63. Naptha
64. Napthalene
65. Nitric Acid
66. Octyl Cresol
67. Oleic acid
68. Orthophosphoric Acid
69. Perchloric acid
70. Perchloroethylen
71. Phosphorous trichloride
72. Potassium Hypochloride
73. Propionic Acid
74. Pseudocumene
75. Pyridine
76. Sulfur Trioxide
77. Sulfuric Acid
78. Tetrachloroethane
79. Tetrahydrofuran
80. Thiophene
81. Toluene
82. Triethylamine
83. Turpentine Oil
84. Xylene

I CERTIFY AND WARRANT THAT THE Comp 7 · J. 19268 DOES/DOES NOT CONTAIN ANY OF THE ABOVE NOTED RESTRICTED CHEMICALS IN CONCENTRATIONS GREATER THAN OR EQUAL TO 5% BY WEIGHT EITHER INDIVIDUALLY OR IN ANY COMBINATION.

SIGNATURE A. J. Kresse

TITLE Lab Director DATE 6/22/89

M.B.A. LABS

MICROBIOLOGICAL AND BIOCHEMICAL ASSAY LABORATORIES

P.O. BOX 9461 340 S. 66th STREET HOUSTON, TEXAS 77261
TELEPHONE NO. (713) 928-2701

SAMPLE SUBMITTED BY: Peterson - Riedel

DATE RECEIVED: 6-5-1989

DATE COMPLETED: 6-20-1989

LABORATORY REPORT NUMBER: J-19268-00

SAMPLE IDENTIFICATION: Composite #7

RESULTS

PARAMETER	METHOD #	DATE	TIME	ANALYST	RESULTS
Flash Point	SW 846 Method 1010	6-8-89	6:00	D.H.	>140°F
PCB's	EPA 608	6-12-89	1:30	D.H.	<1 ppm
pH (Dup)	EPA 150.1	6-20-89	11:00	H.E.	13.1 CORROSIVE

REPORTED BY Joe Krem

M.B.A. LABS

MICROBIOLOGICAL AND BIOCHEMICAL ASSAY LABORATORIES

P.O. BOX 9461 340 S. 66th STREET HOUSTON, TEXAS 77261
TELEPHONE NO. (713) 928-2701

SAMPLE SUBMITTED BY: Peterson - Riedel

DATE RECEIVED: 6-5-1989

DATE COMPLETED: 6-20-1989

LABORATORY REPORT NUMBER: J-19268-00

SAMPLE IDENTIFICATION: Composite #7

COMMON NAME	SUPERFUND LIST (TCL)
ORGANICS	
acenaphthene	<0.1%
acenaphthylene	<0.1%
acetone	<0.1%
aldrin	<0.1%
anthracene	<0.1%
Aroclor 1016	<1 mg/l
Aroclor 1221	<1 mg/l
Aroclor1232	<1 mg/l
Aroclor 1242	<1 mg/l
Aroclor 1248	<1 mg/l
Aroclor 1254	<1 mg/l
Aroclor 1260	<1 mg/l
benzene	<0.1%
benz(a)anthracene	<0.1%
benzo(b)fluoranthene	<0.1%
benzo(k)fluoranthene	<0.1%
benzoic acid	<0.1%
benzo(ghi)perylene	<0.1%
benzo(a)pyrene	<0.1%
benzyl alcohol	<0.1%

Jo Kram

COMMON NAME	
ORGANICS (CONTINUED)	
alpha-BHC	<0.1%
beta-BHC	<0.1%
delta-BHC	<0.1%
gamma-BHC	<0.1%
bis(2-chloroethoxy)methane	<0.1%
bis(2-chloroethyl)ether	<0.1%
bis(2-chloroisopropyl)ether	<0.1%
bis(2-ethylhexyl)phthalate	<0.1%
bromodichloromethane	<0.1%
bromomethane	<0.1%
4-bromophenyl phenyl ether	<0.1%
butyl benzyl phthalate	<0.1%
carbon disulfide	<0.1%
carbon tetrachloride	<0.1%
chlordane	<0.1%
p-chloroaniline	<0.1%
chlorobenzene	<0.1%
p-chloro-m-cresol	<0.1%
chlorodibromomethane	<0.1%
chloroethane	<0.1%
chloroform	<0.1%
chloromethane	<0.1%

Jo Kress

COMMON NAME	
ORGANICS (CONTINUED)	
2-chloronaphthalene	<0.1%
2-chlorophenol	<0.1%
4-chlorophenyl phenyl ether	<0.1%
chrysene	<0.1%
ortho-cresol	<0.1%
para-cresol	<0.1%
4,4'DDD	<0.1%
4,4'DDE	<0.1%
4,4'DDT	<0.1%
dibenzo(a,h)anthracene	<0.1%
dibenzofuran	<0.1%
di-n-butyl phthalate	<0.1%
m-dichlorobenzene	<0.1%
o-dichlorobenzene	<0.1%
p-dichlorobenzene	<0.1%
3,3'-dichlorobenzidine	<0.1%
1,1-dichloroethane	<0.1%
1,2-dichloroethane	<0.1%
1,1-dichloroethylene	<0.1%
trans-1,2-dichloroethylene	<0.1%
dichloromethane	<0.1%

Joe Krem

COMMON NAME	
ORGANICS (CONTINUED)	
2,4-dichlorophenol	<0.1%
1,2-dichloropropane	<0.1%
cis-1,3-dichloropropene	<0.1%
trans-1,3-dichloropropene	<0.1%
dieldrin	<0.1%
diethyl phthalate	<0.1%
2,4-dimethylphenol	<0.1%
dimethyl phthalate	<0.1%
4,6-dinitro-o-cresol	<0.1%
2,4-dinitrophenol	<0.1%
2,4-dinitrotoluene	<0.1%
2,6-dinitrotoluene	<0.1%
di-n-octyl phthalate	<0.1%
di-n-propylnitrosamine	<0.1%
endosulfan sulfate	<0.1%
endosulfan I (alpha)	<0.1%
endosulfan II (beta)	<0.1%
endrin	<0.1%
endrin ketone	<0.1%
ethyl benzene	<0.1%
fluoranthene	<0.1%
fluorene	<0.1%
heptachlor	<0.1%
heptachlor epoxide	<0.1%
hexachlorobenzene	<0.1%
hexachlorobutadiene	<0.1%

Joe Kiesu

COMMON NAME	
ORGANICS (CONTINUED)	
hexachlorocyclopentadiene	<0.1%
hexachloroethane	<0.1%
2-hexanone	<0.1%
indeno(1,2,3-cd)pyrene	<0.1%
isophorone	<0.1%
methoxychlor	<0.1%
methyl ethyl ketone	<0.1%
2-methylnaphthalene	<0.1%
4-methyl-2-pentanone	<0.1%
naphthalene	<0.1%
m-nitroaniline	<0.1%
o-nitroaniline	<0.1%
p-nitroaniline	<0.1%
nitrobenzene	<0.1%
2-nitrophenol	<0.1%
4-nitrophenol	<0.1%
N-nitrosodiphenylamine	<0.1%
pentachlorophenol	<0.1%
phenanthrene	<0.1%
phenol	<0.1%
pyrene	<0.1%
styrene	<0.1%
1,1,2,2-tetrachloroethane	<0.1%

Jo Kern

COMMON NAME	
ORGANICS (CONTINUED)	
tetrachloroethylene	<0.1%
toluene	<0.1%
toxaphene	<0.1%
tribromomethane	<0.1%
1,2,4-trichlorobenzene	<0.1%
1,1,1-trichloroethane	<0.1%
1,1,2-trichloroethane	<0.1%
trichloroethylene	<0.1%
2,4,5-trichlorophenol	<0.1%
2,4,6-trichlorophenol	<0.1%
vinyl acetate	<0.1%
vinyl chloride	<0.1%
total xylenes	<0.1%

Joe Kress

COMMON NAME	
METALS	
aluminum	10.0 mg/kg
antimony	<1 mg/kg
arsenic	<1 mg/kg
barium	<1 mg/kg
beryllium	<1 mg/kg
cadmium	<1 mg/kg
calcium	69.9 mg/kg
chromium	<1 mg/kg
cobalt	<1 mg/kg
copper	<1 mg/kg
iron	202 mg/kg
lead	<1 mg/kg
magnesium	<1 mg/kg
manganese	<1 mg/kg
mercury	.16 mg/kg
nickel	<1 mg/kg
potassium	<1 mg/kg
selenium	<1 mg/kg
silver	<1 mg/kg
sodium	11.5%
thallium	<1 mg/kg
tin	<1 mg/kg
zinc	24.3 mg/kg
MISCELLANEOUS	
cyanide	
phenols	
sulfide	

Joe Krese

M.B.A. Labs J-19269
9808 HARDY RD
CWM PROFILE: J36143

PETERSON RIEDEL WASTE ANALYSIS SUMMARY

Waste Name: Comp. # 8

TDWR CODE NUMBER:
DATE SAMPLED: 5-29-89
DATE ANALYSIS COMPLETED: 6-20-89
WASTE FORM (LIQ,DRY S, WET S): Liq.

*RCRA HAZARDOUS (Y/N): YES
TDWR CI NON-HAZ (Y/N):
TDWR CII NON-HAZ (Y/N):
TDWR CIII NON-HAZ (Y/N):

*If yes indicate why (i,e, I,C,R,T)

TOXIC, Flash Point

SECTION I
****

100% CONSTITUENT ANALYSIS

COMPONENT	WEIGHT
% WATER (XX.YY):	1.0
ORGANICS	
% LIQUID ORGANICS (XX.YY):	99
% SOLID ORGANICS (XX.YY):	
INORGANICS	
% ASH (XX.YY):	
TOTAL (100 ± 2% MAX) =	100

MAJOR COMPONENT CHEMICAL NAMES
(i.e. If GT 0.1%)

ORGANICS	ORGANICS
*Phenol - 25.4%	
*3-(Chloromethyl)-Heptane - 33.2%	
*Ortho - Cresol - 26.5%	
*Para - Cresol - 8.2%	
Other Phenols - 4.0%	
	INORGANICS
PCB's - <1.0 mg/kg	

*Corrosive to Skin

SECTION II
****

RCRA CHARACTERISTICS DATA

CHARACTERISTIC	VALUE	HAZARDOUS LIMIT
IGNITABILITY		
F.P. °F	136°	140° F Closed Cup
CORROSIVITY		
pH	3.7	LT 2.0 or GT 12.5
CORROSION RATE		LT 6.35 MM/YR
REACTIVITY (Y/N)	N	chemist'S JUDGEMENT
TOTAL METALS		
As	<1.0 mg/kg	
Ba	<1.0 mg/kg	
Cd	<1.0 mg/kg	
Cr	<1.0 mg/kg	
Pb	93.7 mg/kg	
Hg	<0.1 mg/kg	
Se	<1.0 mg/kg	
Ag	<1.0 mg/kg	
ENDRIN		
LINDANE		
METHOXYCHLOR		
TOXAPHENE		
2,4-D		
2,4,5-TP SILVEX		

RESTRICTED CHEMICALS

1. Acetaldehyde
2. Acetic Acid
3. Acetic Acid Anhydride
4. Acetone
5. Acetylene Tetrabromide
6. Amyl Acetate
7. Amyl Alcohol
8. Amyl Chloride
9. Aniline
10. Anisole
11. Aqua regia
12. Benzaldehyde
13. Benzene
14. Benzyl Chloride
15. Bromine
16. Bromobenzene
17. Butyl Acetate
18. Butyl Glycol
19. Butyric Acid
20. Calcium Sulfide
21. Carbon Disulfide
22. Carbon tetrachloride
23. Chloric Acid
24. Chlorine (Aqueous solution)
25. Chloroform
26. Chlorosulfonic Acid
27. Chromic Acid
28. Cresylic Acid
29. Decahydronapthalene
30. Dibenzyl ether
31. Dibutyl ether
32. Dibutyl phthalate
33. Dichlorobenzene
34. Dichloroethane
35. Diesel Oil
36. Diethylene glycol monobutyl ether
37. Diethylene
38. Diisobutyl ketone
39. Dioctyl phthalate
40. Ethanol
41. Ethyl Acetate
42. Ethyl Benzene
43. Ethyl Chloride
44. Ethyl Ether
45. Ethylene Chloride
46. Ethylene diechloride
47. Ethylene glycol monoethyl ether
48. Ethylene trichloride
49. Fluoroboric Acid
50. Furfuryl alcohol
51. Gasoline
52. Glacial acetic acid
53. Halothane
54. Heptane
55. Hexane
56. Hydrofluoric Acid
57. Hydrogen peroxide
58. Isooctane
59. Isopropyl ether
60. Methyl Butanol
61. Methyl ethyl ketone
62. Methylene chloride
63. Naptha
64. Napthalene
65. Nitric Acid
66. Octyl Cresol
67. Oleic acid
68. Orthophosphoric Acid
69. Perchloric acid
70. Perchloroethylen
71. Phosphorous trichloride
72. Potassium Hypochloride
73. Propionic Acid
74. Pseudocumene
75. Pyridine
76. Sulfur Trioxide
77. Sulfuric Acid
78. Tetrachloroethane
79. Tetrahydrofuran
80. Thiophene
81. Toluene
82. Triethylamine
83. Turpentine Oil
84. Xylene

I CERTIFY AND WARRANT THAT THE Comp 8 - J - 14269-W DOES / DOES NOT CONTAIN ANY OF THE ABOVE NOTED RESTRICTED CHEMICALS IN CONCENTRATIONS GREATER THAN OR EQUAL TO 5% BY WEIGHT EITHER INDIVIDUALLY OR IN ANY COMBINATION.

SIGNATURE A. J. Krause

TITLE Gob Director DATE 6/22/89

M.B.A. LABS

MICROBIOLOGICAL AND BIOCHEMICAL ASSAY LABORATORIES

P.O. BOX 9461 340 S. 66th STREET HOUSTON, TEXAS 77261
TELEPHONE NO. (713) 928-2701

SAMPLE SUBMITTED BY: Peterson - Riedel

DATE RECEIVED: 6-5-1989

DATE COMPLETED: 6-20-1989

LABORATORY REPORT NUMBER: J-19269-00

SAMPLE IDENTIFICATION: Composite #8

RESULTS

PARAMETER	METHOD #	DATE	TIME	ANALYST	RESULTS
Flash Point	SW 846 Method 1010	6-8-89	6:00	D.H.	136°F
PCB's	EPA 608	6-12-89	1:00	D.H.	<1 ppm
pH	EPA 150.1	6-20-89	11:00	H.E.	3.7

REPORTED BY Joe Krems

M.B.A. LABS

MICROBIOLOGICAL AND BIOCHEMICAL ASSAY LABORATORIES

P.O. BOX 9461 340 S. 66th STREET HOUSTON, TEXAS 77261
TELEPHONE NO. (713) 928-2701

SAMPLE SUBMITTED BY: Peterson - Riedel

DATE RECEIVED: 6-5-1989

DATE COMPLETED: 6-20-1989

LABORATORY REPORT NUMBER: J-19269

SAMPLE IDENTIFICATION: Composite #8

COMMON NAME	SUPERFUND LIST (TCL)
ORGANICS	
acenaphthene	<0.1%
acenaphthylene	<0.1%
acetone	<0.1%
aldrin	<0.1%
anthracene	<0.1%
Aroclor 1016	<1 ppm
Aroclor 1221	<1 ppm
Aroclor1232	<1 ppm
Aroclor 1242	<1 ppm
Aroclor 1248	<1 ppm
Aroclor 1254	<1 ppm
Aroclor 1260	<1 ppm
benzene	<0.1%
benz(a)anthracene	<0.1%
benzo(b)fluoranthene	<0.1%
benzo(k)fluoranthene	<0.1%
benzoic acid	<0.1%
benzo(ghi)perylene	<0.1%
benzo(a)pyrene	<0.1%
benzyl alcohol	<0.1%

Jo Kress

COMMON NAME	
ORGANICS (CONTINUED)	
alpha-BHC	<0.1%
beta-BHC	<0.1%
delta-BHC	<0.1%
gamma-BHC	<0.1%
bis(2-chloroethoxy)methane	<0.1%
bis(2-chloroethyl)ether	<0.1%
bis(2-chloroisopropyl)ether	<0.1%
bis(2-ethylhexyl)phthalate	<0.1%
bromodichloromethane	<0.1%
bromomethane	<0.1%
4-bromophenyl phenyl ether	<0.1%
butyl benzyl phthalate	<0.1%
carbon disulfide	<0.1%
carbon tetrachloride	<0.1%
chlordane	<0.1%
p-chloroaniline	<0.1%
chlorobenzene	<0.1%
p-chloro-m-cresol	<0.1%
chlorodibromomethane	<0.1%
chloroethane	<0.1%
chloroform	<0.1%
chloromethane	<0.1%

Joe Kresse

COMMON NAME	
ORGANICS (CONTINUED)	
2-chloronaphthalene	<0.1%
2-chlorophenol	<0.1%
4-chlorophenyl phenyl ether	<0.1%
chrysene	<0.1%
ortho-cresol	26.5%
para-cresol	8.1%
4,4'DDD	<0.1%
4,4'DDE	<0.1%
4,4'DDT	<0.1%
dibenzo(a,h)anthracene	<0.1%
dibenzofuran	<0.1%
di-n-butyl phthalate	<0.1%
m-dichlorobenzene	<0.1%
o-dichlorobenzene	<0.1%
p-dichlorobenzene	<0.1%
3,3'-dichlorobenzidine	<0.1%
1,1-dichloroethane	<0.1%
1,2-dichloroethane	<0.1%
1,1-dichloroethylene	<0.1%
trans-1,2-dichloroethylene	<0.1%
dichloromethane	<0.1%

Jo Krew

COMMON NAME	
ORGANICS (CONTINUED)	
2,4-dichlorophenol	<0.1%
1,2-dichloropropane	<0.1%
cis-1,3-dichloropropene	<0.1%
trans-1,3-dichloropropene	<0.1%
dieldrin	<0.1%
diethyl phthalate	<0.1%
2,4-dimethylphenol	<0.1%
dimethyl phthalate	<0.1%
4,6-dinitro-o-cresol	<0.1%
2,4-dinitrophenol	<0.1%
2,4-dinitrotoluene	<0.1%
2,6-dinitrotoluene	<0.1%
di-n-octyl phthalate	<0.1%
di-n-propylnitrosamine	<0.1%
endosulfan sulfate	<0.1%
endosulfan I (alpha)	<0.1%
endosulfan II (beta)	<0.1%
endrin	<0.1%
endrin ketone	<0.1%
ethyl benzene	<0.1%
fluoranthene	<0.1%
fluorene	<0.1%
heptachlor	<0.1%
heptachlor epoxide	<0.1%
hexachlorobenzene	<0.1%
hexachlorobutadiene	<0.1%

Jon Kress

COMMON NAME	
ORGANICS (CONTINUED)	
hexachlorocyclopentadiene	<0.1%
hexachloroethane	<0.1%
2-hexanone	<0.1%
indeno(1,2,3-cd)pyrene	<0.1%
isophorone	<0.1%
methoxychlor	<0.1%
methyl ethyl ketone	<0.1%
2-methylnaphthalene	<0.1%
4-methyl-2-pentanone	<0.1%
naphthalene	<0.1%
m-nitroaniline	<0.1%
o-nitroaniline	<0.1%
p-nitroaniline	<0.1%
nitrobenzene	<0.1%
2-nitrophenol	<0.1%
4-nitrophenol	<0.1%
N-nitrosodiphenylamine	<0.1%
pentachlorophenol	<0.1%
phenanthrene	<0.1%
phenol	25.4%
pyrene	<0.1%
styrene	<0.1%
1,1,2,2-tetrachloroethane	<0.1%

Jo Kress

COMMON NAME	
ORGANICS (CONTINUED)	
tetrachloroethylene	<0.1%
toluene	<0.1%
toxaphene	<0.1%
tribromomethane	<0.1%
1,2,4-trichlorobenzene	<0.1%
1,1,1-trichloroethane	<0.1%
1,1,2-trichloroethane	<0.1%
trichloroethylene	<0.1%
2,4,5-trichlorophenol	<0.1%
2,4,6-trichlorophenol	<0.1%
vinyl acetate	<0.1%
vinyl chloride	<0.1%
total xylenes	<0.1%

Joe Krem

COMMON NAME	
METALS	
aluminum	7.8 mg/kg
antimony	<1 mg/kg
arsenic	<1 mg/kg
barium	<1 mg/kg
beryllium	<1 mg/kg
cadmium	<1 mg/kg
calcium	7.3 mg/kg
chromium	<1 mg/kg
cobalt	<1 mg/kg
copper	<1 mg/kg
iron	141 mg/kg
lead	93.7 mg/kg
magnesium	2.4 mg/kg
manganese	<1 mg/kg
mercury	<.1 mg/kg
nickel	<1 mg/kg
potassium	14.6 mg/kg
selenium	<1 mg/kg
silver	<1 mg/kg
sodium	60.7 mg/kg
thallium	<1 mg/kg
tin	<1 mg/kg
zinc	5.8 mg/kg
MISCELLANEOUS	
cyanide	
phenols	
sulfide	

Joel Kerry

M.B.A. Labs J-19262-00

Peterson - Riedel WASTE ANALYSIS SUMMARY 9808 Hardy Rd
CWM PROFILE J36145

Waste Name: Comp. #1

TDWR CODE NUMBER:
DATE SAMPLED: 5-29-1989
DATE ANALYSIS COMPLETED: 6-20-89
WASTE FORM (LIQ,DRY S, WET S): Dry

*RCRA HAZARDOUS (Y/N):
TDWR CI NON-HAZ (Y/N):
TDWR CII NON-HAZ (Y/N):
TDWR CIII NON-HAZ (Y/N):

*If yes indicate why (i,e, I,C,R,T)

ECTION I
****

100% CONSTITUENT ANALYSIS

COMPONENT	WEIGHT
% WATER (XX.YY):	0
RGANICS	
% LIQUID ORGANICS (XX.YY):	0
% SOLID ORGANICS (XX.YY):	100
NORGANICS	
% ASH (XX.YY):	----
OTAL (100 ± 2% MAX) =	100

MAJOR COMPONENT CHEMICAL NAMES
(i.e. If GT 0.1%)

ORGANICS	ORGANICS
<100 ppm	
	INORGANICS
PCB's <1.0 mg/kg	

ECTION II
****

RCRA CHARACTERISTICS DATA

CHARACTERISTIC	VALUE	HAZARDOUS LIMIT
IGNITABILITY		
F.P. °F	>140	140° F Closed Cup
CORROSIVITY		
pH	4.7	LT 2.0 or GT 12.5
CORROSION RATE	----	LT 6.35 MM/YR
REACTIVITY (Y/N)	No	chemist'S JUDGEMENT
TOTAL METALS		
As	<1.0 mg/kg	
Ba	<1.0 mg/kg	
Cd	<1.0 mg/kg	
Cr	<1.0 mg/kg	
Pb	365 mg/kg	
Hg	<0.12 mg/kg	
Se	<1.0 mg/kg	
Ag	<1.0 mg/kg	
ENDRIN		
LINDANE		
METHOXYCHLOR		
TOXAPHENE		
2,4-D		
2,4,5-TP SILVEX		

Contains
Nickel - 20.7%

RESTRICTED CHEMICALS

1. Acetaldehyde
2. Acetic Acid
3. Acetic Acid Anhydride
4. Acetone
5. Acetylene Tetrabromide
6. Amyl Acetate
7. Amyl Alcohol
8. Amyl Chloride
9. Aniline
10. Anisole
11. Aqua regia
12. Benzaldehyde
13. Benzene
14. Benzyl Chloride
15. Bromine
16. Bromobenzene
17. Butyl Acetate
18. Butyl Glycol
19. Butyric Acid
20. Calcium Sulfide
21. Carbon Disulfide
22. Carbon tetrachloride
23. Chloric Acid
24. Chlorine (Aqueous solution)
25. Chloroform
26. Chlorosulfonic Acid
27. Chromic Acid
28. Cresylic Acid
29. Decahydronapthalene
30. Dibenzyl ether
31. Dibutyl ether
32. Dibutyl phthalate
33. Dichlorobenzene
34. Dichloroethane
35. Diesel Oil
36. Diethylene glycol monobutyl ether
37. Diethylene
38. Diisobutyl ketone
39. Dioctyl phthalate
40. Ethanol
41. Ethyl Acetate
42. Ethyl Benzene
43. Ethyl Chloride
44. Ethyl Ether
45. Ethylene Chloride
46. Ethylene diechloride
47. Ethylene glycol monoethyl ether
48. Ethylene trichloride
49. Fluoroboric Acid
50. Furfuryl alcohol
51. Gasoline
52. Glacial acetic acid
53. Halothane
54. Heptane
55. Hexane
56. Hydrofluoric Acid
57. Hydrogen peroxide
58. Isooctane
59. Isopropyl ether
60. Methyl Butanol
61. Methyl ethyl ketone
62. Methylene chloride
63. Naptha
64. Napthalene
65. Nitric Acid
66. Octyl Cresol
67. Oleic acid
68. Orthophosphoric Acid
69. Perchloric acid
70. Perchloroethylen
71. Phosphorous trichloride
72. Potassium Hypochloride
73. Propionic Acid
74. Pseudocumene
75. Pyridine
76. Sulfur Trioxide
77. Sulfuric Acid
78. Tetrachloroethane
79. Tetrahydrofuran
80. Thiophene
81. Toluene
82. Triethylamine
83. Turpentine Oil
84. Xylene

I CERTIFY AND WARRANT THAT THE J-1926-2-CC - Comp I DOES / DOES NOT CONTAIN ANY OF THE ABOVE NOTED RESTRICTED CHEMICALS IN CONCENTRATIONS GREATER THAN OR EQUAL TO 5% BY WEIGHT EITHER INDIVIDUALLY OR IN ANY COMBINATION.

SIGNATURE Herman Kesse

TITLE Lab Dir DATE 6/20/89

M.B.A. LABS

MICROBIOLOGICAL AND BIOCHEMICAL ASSAY LABORATORIES

P.O. BOX 9461 340 S. 66th STREET HOUSTON, TEXAS 77261
TELEPHONE NO. (713) 928-2701

SAMPLE SUBMITTED BY: Peterson - Riedel

DATE RECEIVED: 6-5-1989

DATE COMPLETED: 6-20-1989

LABORATORY REPORT NUMBER: J-19262-00

SAMPLE IDENTIFICATION: Composite 1

RESULTS

PARAMETER	METHOD #	DATE	TIME	ANALYST	RESULTS
Flash Point	SW 846 Method 1010	6-8-89	6:00	D.H.	>140°F
PCB's	EPA 608	6-12-89	1:30	D.H.	<1 ppm
pH	EPA 150.1	6-10-89	11:00	H.E.	4.7

REPORTED BY Jo Kress

M.B.A. LABS

MICROBIOLOGICAL AND BIOCHEMICAL
ASSAY LABORATORIES

P.O. BOX 9461 340 S. 66th STREET HOUSTON, TEXAS 77261
TELEPHONE NO. (713) 928-2701

SAMPLE SUBMITTED BY: Peterson - Riedel

DATE RECEIVED: 6-5-1989

DATE COMPLETED: 6-20-1989

LABORATORY REPORT NUMBER: J-19262

SAMPLE IDENTIFICATION: Composite 1

COMMON NAME	SUPERFUND LIST (TCL)
ORGANICS	
acenaphthene	<100 mg/kg
acenaphthylene	<100 mg/kg
acetone	9.58 mg/kg
aldrin	<100 mg/kg
anthracene	<100 mg/kg
Aroclor 1016	<1 mg/kg
Aroclor 1221	<1 mg/kg
Aroclor1232	<1 mg/kg
Aroclor 1242	<1 mg/kg
Aroclor 1248	<1 mg/kg
Aroclor 1254	<1 mg/kg
Aroclor 1260	<1 mg/kg
benzene	<0.02 mg/kg
benz(a)anthracene	<100 mg/kg
benzo(b)fluoranthene	<100 mg/kg
benzo(k)fluoranthene	<100 mg/kg
benzoic acid	<100 mg/kg
benzo(ghi)perylene	<100 mg/kg
benzo(a)pyrene	<100 mg/kg
benzyl alcohol	<100 mg/kg

Joe Krenz

COMMON NAME	
ORGANICS (CONTINUED)	
alpha-BHC	<100 mg/kg
beta-BHC	<100 mg/kg
delta-BHC	<100 mg/kg
gamma-BHC	<100 mg/kg
bis(2-chloroethoxy)methane	<100 mg/kg
bis(2-chloroethyl)ether	<100 mg/kg
bis(2-chloroisopropyl)ether	<100 mg/kg
bis(2-ethylhexyl)phthalate	<100 mg/kg
bromodichloromethane	<0.02 mg/kg
bromomethane	<0.04 mg/kg
4-bromophenyl phenyl ether	<100 mg/kg
butyl benzyl phthalate	<100 mg/kg
carbon disulfide	<0.02 mg/kg
carbon tetrachloride	<0.02 mg/kg
chlordane	<100 mg/kg
p-chloroaniline	<100 mg/kg
chlorobenzene	<0.02 mg/kg
p-chloro-m-cresol	<100 mg/kg
chlorodibromomethane	<0.02 mg/kg
chloroethane	<0.04 mg/kg
chloroform	<0.02 mg/kg
chloromethane	<0.04 mg/kg

Jor Krem

COMMON NAME	
ORGANICS (CONTINUED)	
2-chloronaphthalene	<100 mg/kg
2-chlorophenol	<100 mg/kg
4-chlorophenyl phenyl ether	<100 mg/kg
chrysene	<100 mg/kg
ortho-cresol	<100 mg/kg
para-cresol	<100 mg/kg
4,4'DDD	<100 mg/kg
4,4'DDE	<100 mg/kg
4,4'DDT	<100 mg/kg
dibenzo(a,h)anthracene	<100 mg/kg
dibenzofuran	<100 mg/kg
di-n-butyl phthalate	<100 mg/kg
m-dichlorobenzene	<100 mg/kg
o-dichlorobenzene	<100 mg/kg
p-dichlorobenzene	<100 mg/kg
3,3'-dichlorobenzidine	<100 mg/kg
1,1-dichloroethane	<0.02 mg/kg
1,2-dichloroethane	<0.02 mg/kg
1,1-dichloroethylene	<0.02 mg/kg
trans-1,2-dichloroethylene	<0.02 mg/kg
dichloromethane	<0.02 mg/kg

Jor Kreni

COMMON NAME	
ORGANICS (CONTINUED)	
2,4-dichlorophenol	<100 mg/kg
1,2-dichloropropane	<0.02 mg/kg
cis-1,3-dichloropropene	<0.02 mg/kg
trans-1,3-dichloropropene	<0.02 mg/kg
dieldrin	<100 mg/kg
diethyl phthalate	<100 mg/kg
2,4-dimethylphenol	<100 mg/kg
dimethyl phthalate	<100 mg/kg
4,6-dinitro-o-cresol	<100 mg/kg
2,4-dinitrophenol	<100 mg/kg
2,4-dinitrotoluene	<100 mg/kg
2,6-dinitrotoluene	<100 mg/kg
di-n-octyl phthalate	<100 mg/kg
di-n-propylnitrosamine	<100 mg/kg
endosulfan sulfate	<100 mg/kg
endosulfan I (alpha)	<100 mg/kg
endosulfan II (beta)	<100 mg/kg
endrin	<100 mg/kg
endrin ketone	<100 mg/kg
ethyl benzene	<0.02 mg/kg
fluoranthene	<100 mg/kg
fluorene	<100 mg/kg
heptachlor	<100 mg/kg
heptachlor epoxide	<100 mg/kg
hexachlorobenzene	<100 mg/kg
hexachlorobutadiene	<100 mg/kg

Joe Krenz

COMMON NAME	
ORGANICS (CONTINUED)	
hexachlorocyclopentadiene	<100 mg/kg
hexachloroethane	<100 mg/kg
2-hexanone	<0.02 mg/kg
indeno(1,2,3-cd)pyrene	<100 mg/kg
isophorone	<100 mg/kg
methoxychlor	<100 mg/kg
methyl ethyl ketone	<0.02 mg/kg
2-methylnaphthalene	<100 mg/kg
4-methyl-2-pentanone	<0.02 mg/kg
naphthalene	<100 mg/kg
m-nitroaniline	<100 mg/kg
o-nitroaniline	<100 mg/kg
p-nitroaniline	<100 mg/kg
nitrobenzene	<100 mg/kg
2-nitrophenol	<100 mg/kg
4-nitrophenol	<100 mg/kg
N-nitrosodiphenylamine	<100 mg/kg
pentachlorophenol	<100 mg/kg
phenanthrene	<100 mg/kg
phenol	<100 mg/kg
pyrene	<100 mg/kg
styrene	<100 mg/kg
1,1,2,2-tetrachloroethane	<0.02 mg/kg

Jor Kren

COMMON NAME	
ORGANICS (CONTINUED)	
tetrachloroethylene	<0.02 mg/kg
toluene	<0.02 mg/kg
toxaphene	<100 mg/kg
tribromomethane	<0.02 mg/kg
1,2,4-trichlorobenzene	<100 mg/kg
1,1,1-trichloroethane	<0.02 mg/kg
1,1,2-trichloroethane	<0.02 mg/kg
trichloroethylene	<0.02 mg/kg
2,4,5-trichlorophenol	<100 mg/kg
2,4,6-trichlorophenol	<100 mg/kg
vinyl acetate	<0.02 mg/kg
vinyl chloride	<0.04 mg/kg
total xylenes	<0.04 mg/kg

Joe Kress

COMMON NAME	
METALS	
aluminum	<1 mg/kg
antimony	<1 mg/kg
arsenic	<1 mg/kg
barium	<1 mg/kg
beryllium	<1 mg/kg
cadmium	<1 mg/kg
calcium	<1 mg/kg
chromium	<1 mg/kg
cobalt	203 mg/kg
copper	<1 mg/kg
iron	<1 mg/kg
lead	365 mg/kg
magnesium	101 mg/kg
manganese	<1 mg/kg
mercury	<.12 mg/kg
nickel	20.7% ?
potassium	1013 mg/kg
selenium	<1 mg/kg
silver	<1 mg/kg
sodium	<1 mg/kg
thallium	<1 mg/kg
tin	<1 mg/kg
zinc	810 mg/kg
MISCELLANEOUS	
cyanide	
phenols	
sulfide	

Joe Krewo

M.B.A. Labs J-19263-00

PETERSON - RIEDEL WASTE ANALYSIS SUMMARY 9808 Hardy Rd CWM PROFILE J36145

Waste Name: Comp. #2

TDWR CODE NUMBER:
DATE SAMPLED: 5-29-89
DATE ANALYSIS COMPLETED: 6-20-89
WASTE FORM (LIQ,DRY S, WET S): Dry

*RCRA HAZARDOUS (Y/N):
TDWR CI NON-HAZ (Y/N):
TDWR CII NON-HAZ (Y/N):
TDWR CIII NON-HAZ (Y/N):

*If yes indicate why (i,e, I,C,R,T)

ECTION I
****

100% CONSTITUENT ANALYSIS

COMPONENT	WEIGHT
% WATER (XX.YY):	0
RGANICS	
% LIQUID ORGANICS (XX.YY):	0
% SOLID ORGANICS (XX.YY):	75%
Inorganic solids	25%
NORGANICS	
% ASH (XX.YY):	----
OTAL (100 ± 2% MAX) =	

MAJOR COMPONENT CHEMICAL NAMES (i.e. If GT 0.1%)

ORGANICS ORGANICS

*Propyl parabenz - 95% +

INORGANICS

PCB's <1.0 mg/kg

*Propyl parabenz can cause severe alergic response & produce anaphalactic shock

ECTION II
****

RCRA CHARACTERISTICS DATA

CHARACTERISTIC	VALUE	HAZARDOUS LIMIT
IGNITABILITY		
F.P. °F	>140	140° F Closed Cup
CORROSIVITY		
pH	3.7	LT 2.0 or GT 12.5
CORROSION RATE	----	LT 6.35 MM/YR
REACTIVITY (Y/N)	No	chemist'S JUDGEMENT
TOTAL METALS		
As	<1.0 mg/kg	
Ba	<1.0 mg/kg	
Cd	22.5 mg/kg	
Cr	<1.0 mg/kg	
Zinc - 5.8% Pb	<1.0 mg/kg	
Hg	<0.10 mg/kg	
Se	<1.0 mg/kg	
Ag	<1.0 mg/kg	
ENDRIN		
LINDANE		
METHOXYCHLOR		
TOXAPHENE		
2,4-D		
2,4,5-TP SILVEX		

RESTRICTED CHEMICALS

1. Acetaldehyde
2. Acetic Acid
3. Acetic Acid Anhydride
4. Acetone
5. Acetylene Tetrabromide
6. Amyl Acetate
7. Amyl Alcohol
8. Amyl Chloride
9. Aniline
10. Anisole
11. Aqua regia
12. Benzaldehyde
13. Benzene
14. Benzyl Chloride
15. Bromine
16. Bromobenzene
17. Butyl Acetate
18. Butyl Glycol
19. Butyric Acid
20. Calcium Sulfide
21. Carbon Disulfide
22. Carbon tetrachloride
23. Chloric Acid
24. Chlorine (Aqueous solution)
25. Chloroform
26. Chlorosulfonic Acid
27. Chromic Acid
28. Cresylic Acid
29. Decahydronapthalene
30. Dibenzyl ether
31. Dibutyl ether
32. Dibutyl phthalate
33. Dichlorobenzene
34. Dichloroethane
35. Diesel Oil
36. Diethylene glycol monobutyl ether
37. Diethylene
38. Diisobutyl ketone
39. Dioctyl phthalate
40. Ethanol
41. Ethyl Acetate
42. Ethyl Benzene
43. Ethyl Chloride
44. Ethyl Ether
45. Ethylene Chloride
46. Ethylene diechloride
47. Ethylene glycol monoethyl ether
48. Ethylene trichloride
49. Fluoroboric Acid
50. Furfuryl alcohol
51. Gasoline
52. Glacial acetic acid
53. Halothane
54. Heptane
55. Hexane
56. Hydrofluoric Acid
57. Hydrogen peroxide
58. Isooctane
59. Isopropyl ether
60. Methyl Butanol
61. Methyl ethyl ketone
62. Methylene chloride
63. Naptha
64. Napthalene
65. Nitric Acid
66. Octyl Cresol
67. Oleic acid
68. Orthophosphoric Acid
69. Perchloric acid
70. Perchloroethylen
71. Phosphorous trichloride
72. Potassium Hypochloride
73. Propionic Acid
74. Pseudocumene
75. Pyridine
76. Sulfur Trioxide
77. Sulfuric Acid
78. Tetrachloroethane
79. Tetrahydrofuran
80. Thiophene
81. Toluene
82. Triethylamine
83. Turpentine Oil
84. Xylene

I CERTIFY AND WARRANT THAT THE J-19263-00 DOES/DOES NOT CONTAIN ANY OF THE ABOVE NOTED RESTRICTED CHEMICALS IN CONCENTRATIONS GREATER THAN OR EQUAL TO 5% BY WEIGHT EITHER INDIVIDUALLY OR IN ANY COMBINATION.

SIGNATURE Herman J. Kesse

TITLE Lab Dir DATE 6/20/89

M.B.A. LABS

MICROBIOLOGICAL AND BIOCHEMICAL
ASSAY LABORATORIES

P.O. BOX 9461 340 S. 66th STREET HOUSTON, TEXAS 77261
TELEPHONE NO. (713) 928-2701

SAMPLE SUBMITTED BY: Peterson - Riedel

DATE RECEIVED: 6-5-1989

DATE COMPLETED: 6-20-1989

LABORATORY REPORT NUMBER: J-19263-00

SAMPLE IDENTIFICATION: Composite #2

RESULTS

PARAMETER	METHOD #	DATE	TIME	ANALYST	RESULTS
Flash Point	SW 846 Method 1010	6-8-89	6:00	D.H.	>140°F
PCB's	EPA 608	6-12-89	1:00	D.H.	<1 ppm
pH	EPA 150.1	6-20-89	11:00	H.E.	3.7

REPORTED BY Joe Kerns

M.B.A. LABS

MICROBIOLOGICAL AND BIOCHEMICAL ASSAY LABORATORIES

P.O. BOX 9461 340 S. 66th STREET HOUSTON, TEXAS 77261
TELEPHONE NO. (713) 928-2701

SAMPLE SUBMITTED BY: Peterson Reidel

DATE RECEIVED: 6-5-1989

DATE COMPLETED: 6-30-1989

LABORATORY REPORT NUMBER: J-19263

SAMPLE IDENTIFICATION: Composite #2

COMMON NAME	SUPERFUND LIST (TCL)
ORGANICS	
acenaphthene	<0.1%
acenaphthylene	<0.1%
acetone	<0.02 mg/kg
aldrin	<0.1%
anthracene	<0.1%
Aroclor 1016	<1 mg/kg
Aroclor 1221	<1 mg/kg
Aroclor1232	<1 mg/kg
Aroclor 1242	<1 mg/kg
Aroclor 1248	<1 mg/kg
Aroclor 1254	<1 mg/kg
Aroclor 1260	<1 mg/kg
benzene	<0.02 mg/kg
benz(a)anthracene	<0.1%
benzo(b)fluoranthene	<0.1%
benzo(k)fluoranthene	<0.1%
benzoic acid	<0.1%
benzo(ghi)perylene	<0.1%
benzo(a)pyrene	<0.1%
benzyl alcohol	<0.1%

Joi Krew

COMMON NAME	
ORGANICS (CONTINUED)	
alpha-BHC	<0.1%
beta-BHC	<0.1%
delta-BHC	<0.1%
gamma-BHC	<0.1%
bis(2-chloroethoxy)methane	<0.1%
bis(2-chloroethyl)ether	<0.1%
bis(2-chloroisopropyl)ether	<0.1%
bis(2-ethylhexyl)phthalate	<0.1%
bromodichloromethane	<0.02 mg/kg
bromomethane	<0.1 mg/kg
4-bromophenyl phenyl ether	<0.1%
butyl benzyl phthalate	<0.1%
carbon disulfide	<0.02 mg/kg
carbon tetrachloride	<0.02 mg/kg
chlordane	<0.1%
p-chloroaniline	<0.1%
chlorobenzene	<0.02 mg/kg
p-chloro-m-cresol	<0.1%
chlorodibromomethane	<0.02 mg/kg
chloroethane	<0.1 mg/kg
chloroform	<0.02 mg/kg
chloromethane	<0.1 mg/kg

Jo Krene

COMMON NAME	
ORGANICS (CONTINUED)	
2-chloronaphthalene	<0.1%
2-chlorophenol	<0.1%
4-chlorophenyl phenyl ether	<0.1%
chrysene	<0.1%
ortho-cresol	<0.1%
para-cresol	<0.1%
4,4'DDD	<0.1%
4,4'DDE	<0.1%
4,4'DDT	<0.1%
dibenzo(a,h)anthracene	<0.1%
dibenzofuran	<0.1%
di-n-butyl phthalate	<0.1%
m-dichlorobenzene	<0.1%
o-dichlorobenzene	<0.1%
p-dichlorobenzene	<0.1%
3,3'-dichlorobenzidine	<0.1%
1,1-dichloroethane	<0.02 mg/kg
1,2-dichloroethane	<0.02 mg/kg
1,1-dichloroethylene	<0.02 mg/kg
trans-1,2-dichloroethylene	<0.02 mg/kg
dichloromethane	<0.02 mg/kg

Joe Kern

COMMON NAME	
ORGANICS (CONTINUED)	
2,4-dichlorophenol	<0.1%
1,2-dichloropropane	<0.02 mg/kg
cis-1,3-dichloropropene	<0.02 mg/kg
trans-1,3-dichloropropene	<0.02 mg/kg
dieldrin	<0.1%
diethyl phthalate	<0.1%
2,4-dimethylphenol	<0.1%
dimethyl phthalate	<0.1%
4,6-dinitro-o-cresol	<0.1%
2,4-dinitrophenol	<0.1%
2,4-dinitrotoluene	<0.1%
2,6-dinitrotoluene	<0.1%
di-n-octyl phthalate	<0.1%
di-n-propylnitrosamine	<0.1%
endosulfan sulfate	<0.1%
endosulfan I (alpha)	<0.1%
endosulfan II (beta)	<0.1%
endrin	<0.1%
endrin ketone	<0.1%
ethyl benzene	<0.02 mg/kg
fluoranthene	<0.1%
fluorene	<0.1%
heptachlor	<0.1%
heptachlor epoxide	<0.1%
hexachlorobenzene	<0.1%
hexachlorobutadiene	<0.1%

Jo Krem

COMMON NAME	
ORGANICS (CONTINUED)	
hexachlorocyclopentadiene	<0.1%
hexachloroethane	<0.1%
2-hexanone	<0.02 mg/kg
indeno(1,2,3-cd)pyrene	<0.1%
isophorone	<0.1%
methoxychlor	<0.1%
methyl ethyl ketone	<0.02 mg/kg
2-methylnaphthalene	<0.1%
4-methyl-2-pentanone	<0.02 mg/kg
naphthalene	<0.1%
m-nitroaniline	<0.1%
o-nitroaniline	<0.1%
p-nitroaniline	<0.1%
nitrobenzene	<0.1%
2-nitrophenol	<0.1%
4-nitrophenol	<0.1%
N-nitrosodiphenylamine	<0.1%
pentachlorophenol	<0.1%
phenanthrene	<0.1%
phenol	<0.1%
pyrene	<0.1%
styrene	<0.1%
1,1,2,2-tetrachloroethane	<0.02 mg/kg

Jos Kern

COMMON NAME	
ORGANICS (CONTINUED)	
tetrachloroethylene	<0.02 mg/kg
toluene	<0.02 mg/kg
toxaphene	<0.1%
tribromomethane	<0.02 mg/kg
1,2,4-trichlorobenzene	<0.1%
1,1,1-trichloroethane	<0.02 mg/kg
1,1,2-trichloroethane	<0.02 mg/kg
trichloroethylene	3.02 mg/kg
2,4,5-trichlorophenol	<0.1%
2,4,6-trichlorophenol	<0.1%
vinyl acetate	<0.02 mg/kg
vinyl chloride	<0.04 mg/kg
total xylenes	<0.04 mg/kg

Jo Krenc

COMMON NAME	
METALS	
aluminum	<1 mg/kg
antimony	<1 mg/kg
arsenic	<1 mg/kg
barium	<1 mg/kg
beryllium	<1 mg/kg
cadmium	22.5 mg/kg
calcium	257 mg/kg
chromium	<1 mg/kg
cobalt	<1 mg/kg
copper	<1 mg/kg
iron	<1 mg/kg
lead	<1 mg/kg
magnesium	32.1 mg/kg
manganese	<1 mg/kg
mercury	<.1 mg/kg
nickel	<1 mg/kg
potassium	128 mg/kg
selenium	<1 mg/kg
silver	<1 mg/kg
sodium	225 mg/kg
thallium	<1 mg/kg
tin	<1 mg/kg
zinc	5.8%
MISCELLANEOUS	
cyanide	
phenols	
sulfide	

Jo Kern

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 6
First International Bldg., 1201 Elm St.
Dallas, Texas 75270

CHAIN OF CUSTODY RECORD

PROJ. NO.: 9808

PROJECT NAME: Hardy Road Drum Site

SAMPLERS: (Signature) Bruce McClurth

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	GC/MS	metals	PCB's	Flash pt			REMARKS
1			✓		Hardy Road	1	✓	✓	✓	✓	✓		Samples 1, 7
2			✓		"	1	✓	✓	✓	✓	✓		Sample 2, 4, 8, 9, 10, 13
3			✓		"	1	✓	✓	✓	✓	✓		Sample 3, 5, 12, 17, 24
4			✓		"	1	✓	✓	✓	✓	✓		Sample 6
5			✓		"	1	✓	✓	✓	✓	✓		Sample 11, 14, 16, 18
6			✓		"	1	✓	✓	✓	✓	✓		Sample 15
7			✓		"	1	✓	✓	✓	✓	✓		Sample 19
8			✓		"	1	✓	✓	✓		✓		Sample 20, 21, 22, 23
9			✓		"	1	✓	✓	✓	✓	✓		Sample 25
10			✓		"	1	✓	✓	✓	✓	✓		Sample 26
9809-1			✓		1002 LAtevieu 733406-039	1	✓	✓	✓	✓	✓		9811

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Bruce McClurth	5-29-89 1100	Cynthia L. Miller			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

6-06731

M.B.A. Labs J-19267

9808 Hardy Rd
CNM PROFILE J36145

PETERSON - RIEDEL WASTE ANALYSIS SUMMARY

Waste Name: Comp. #6 ([illegible])

TDWR CODE NUMBER:
DATE SAMPLED: 5-29-89
DATE ANALYSIS COMPLETED: 6-20-89
WASTE FORM (LIQ,DRY S, WET S): Dry.

*RCRA HAZARDOUS (Y/N):
TDWR CI NON-HAZ (Y/N):
TDWR CII NON-HAZ (Y/N):
TDWR CIII NON-HAZ (Y/N):

*If yes indicate why (i,e, I,C,R,T)

ECTION I
****

100% CONSTITUENT ANALYSIS

COMPONENT	WEIGHT
% WATER (XX.YY):	
RGANICS	
% LIQUID ORGANICS (XX.YY):	
% SOLID ORGANICS (XX.YY):	1.0%
INORGANICS	99.0%
NORGANICS	
% ASH (XX.YY):	
OTAL (100 ± 2% MAX) =	

MAJOR COMPONENT CHEMICAL NAMES
(i.e. If GT 0.1%)

ORGANICS	ORGANICS
Kerosine - 0.6%	
*Diphenylamine - 74 mg/kg	
Trichloro ethene - 1 mg/kg	
	INORGANICS
PCB's - <1.0 mg/kg	

*From N-Nitrosodiphenyl Amine

ECTION II
****

RCRA CHARACTERISTICS DATA

CHARACTERISTIC	VALUE	HAZARDOUS LIMIT
IGNITABILITY		
F.P. °F	>140	140° F Closed Cup
CORROSIVITY		
pH	4.8	LT 2.0 or GT 12.5
CORROSION RATE		LT 6.35 MM/YR
REACTIVITY (Y/N)	N	chemist'S JUDGEMENT
TOTAL METALS		
As	<1.0 mg/kg	
Nickel - 89.3mg/kg Ba	50.9 mg/kg	
Zinc - 14026.0mg/kgCd	<1.0 mg/kg	
Mn - 48.0 mg/kg Cr	<1.0 mg/kg	
Pb	<1.0 mg/kg	
Hg	<0.1 mg/kg	
Se	<1.0 mg/kg	
Ag	<1.0 mg/kg	
ENDRIN		
LINDANE		
METHOXYCHLOR		
TOXAPHENE		
2,4-D		
2,4,5-TP SILVEX		

RESTRICTED CHEMICALS

1. Acetaldehyde
2. Acetic Acid
3. Acetic Acid Anhydride
4. Acetone
5. Acetylene Tetrabromide
6. Amyl Acetate
7. Amyl Alcohol
8. Amyl Chloride
9. Aniline
10. Anisole
11. Aqua regia
12. Benzaldehyde
13. Benzene
14. Benzyl Chloride
15. Bromine
16. Bromobenzene
17. Butyl Acetate
18. Butyl Glycol
19. Butyric Acid
20. Calcium Sulfide
21. Carbon Disulfide
22. Carbon tetrachloride
23. Chloric Acid
24. Chlorine (Aqueous solution)
25. Chloroform
26. Chlorosulfonic Acid
27. Chromic Acid
28. Cresylic Acid
29. Decahydronapthalene
30. Dibenzyl ether
31. Dibutyl ether
32. Dibutyl phthalate
33. Dichlorobenzene
34. Dichloroethane
35. Diesel Oil
36. Diethylene glycol monobutyl ether
37. Diethylene
38. Diisobutyl ketone
39. Dioctyl phthalate
40. Ethanol
41. Ethyl Acetate
42. Ethyl Benzene
43. Ethyl Chloride
44. Ethyl Ether
45. Ethylene Chloride
46. Ethylene diechloride
47. Ethylene glycol monoethyl ether
48. Ethylene trichloride
49. Fluoroboric Acid
50. Furfuryl alcohol
51. Gasoline
52. Glacial acetic acid
53. Halothane
54. Heptane
55. Hexane
56. Hydrofluoric Acid
57. Hydrogen peroxide
58. Isooctane
59. Isopropyl ether
60. Methyl Butanol
61. Methyl ethyl ketone
62. Methylene chloride
63. Naptha
64. Napthalene
65. Nitric Acid
66. Octyl Cresol
67. Oleic acid
68. Orthophosphoric Acid
69. Perchloric acid
70. Perchloroethylen
71. Phosphorous trichloride
72. Potassium Hypochloride
73. Propionic Acid
74. Pseudocumene
75. Pyridine
76. Sulfur Trioxide
77. Sulfuric Acid
78. Tetrachloroethane
79. Tetrahydrofuran
80. Thiophene
81. Toluene
82. Triethylamine
83. Turpentine Oil
84. Xylene

I CERTIFY AND WARRANT THAT THE Corry 6-J-19267-00 DOES/DOES NOT CONTAIN ANY OF THE ABOVE NOTED RESTRICTED CHEMICALS IN CONCENTRATIONS GREATER THAN OR EQUAL TO 5% BY WEIGHT EITHER INDIVIDUALLY OR IN ANY COMBINATION.

SIGNATURE H. J. Krause

TITLE Sales Dir DATE 6/20/89

M.B.A. LABS

MICROBIOLOGICAL AND BIOCHEMICAL ASSAY LABORATORIES

P.O. BOX 9461 340 S. 66th STREET HOUSTON, TEXAS 77261
TELEPHONE NO. (713) 928-2701

SAMPLE SUBMITTED BY: Peterson - Riedel

DATE RECEIVED: 6-5-1989

DATE COMPLETED: 6-20-1989

LABORATORY REPORT NUMBER: J-19267-00

SAMPLE IDENTIFICATION: Composite 6

RESULTS

PARAMETER	METHOD #	DATE	TIME	ANALYST	RESULTS
Flash Point	SW 846 Method # 1010	6-8-89	5:00	D.H.	>140°F
PCB's	EPA 608	6-12-89	11:00	D.H.	<1 ppm
pH	EPA 150.1	6-20-89	11:00	H.E.	4.8

REPORTED BY Jo Kiesel

M.B.A. LABS

MICROBIOLOGICAL AND BIOCHEMICAL ASSAY LABORATORIES

P.O. BOX 9461 340 S. 66th STREET HOUSTON, TEXAS 77261
TELEPHONE NO. (713) 928-2701

SAMPLE SUBMITTED BY: Peterson - Riedel

DATE RECEIVED: 6-5-1989

DATE COMPLETED: 6-20-1989

LABORATORY REPORT NUMBER: J-19267

SAMPLE IDENTIFICATION: Composite 6

COMMON NAME	SUPERFUND LIST (TCL)
ORGANICS	
acenaphthene	<100 mg/kg
acenaphthylene	<100 mg/kg
acetone	<0.02 mg/kg
aldrin	<100 mg/kg
anthracene	<100 mg/kg
Aroclor 1016	<1 mg/kg
Aroclor 1221	<1 mg/kg
Aroclor1232	<1 mg/kg
Aroclor 1242	<1 mg/kg
Aroclor 1248	<1 mg/kg
Aroclor 1254	<1 mg/kg
Aroclor 1260	<1 mg/kg
benzene	<0.02 mg/kg
benz(a)anthracene	<100 mg/kg
benzo(b)fluoranthene	<100 mg/kg
benzo(k)fluoranthene	<100 mg/kg
benzoic acid	<100 mg/kg
benzo(ghi)perylene	<100 mg/kg
benzo(a)pyrene	<100 mg/kg
benzyl alcohol	<100 mg/kg

Joe Krem

COMMON NAME	
ORGANICS (CONTINUED)	
alpha-BHC	<100 mg/kg
beta-BHC	<100 mg/kg
delta-BHC	<100 mg/kg
gamma-BHC	<100 mg/kg
bis(2-chloroethoxy)methane	<100 mg/kg
bis(2-chloroethyl)ether	<100 mg/kg
bis(2-chloroisopropyl)ether	<100 mg/kg
bis(2-ethylhexyl)phthalate	<100 mg/kg
bromodichloromethane	<0.02 mg/kg
bromomethane	<0.04 mg/kg
4-bromophenyl phenyl ether	<100 mg/kg
butyl benzyl phthalate	<100 mg/kg
carbon disulfide	<0.02 mg/kg
carbon tetrachloride	<0.02 mg/kg
chlordane	<100 mg/kg
p-chloroaniline	<100 mg/kg
chlorobenzene	<0.02 mg/kg
p-chloro-m-cresol	<100 mg/kg
chlorodibromomethane	<0.02 mg/kg
chloroethane	<0.04 mg/kg
chloroform	<0.02 mg/kg
chloromethane	<0.04 mg/kg

Joel Kerr

COMMON NAME	
ORGANICS (CONTINUED)	
2-chloronaphthalene	<100 mg/kg
2-chlorophenol	<100 mg/kg
4-chlorophenyl phenyl ether	<100 mg/kg
chrysene	<100 mg/kg
ortho-cresol	<100 mg/kg
para-cresol	<100 mg/kg
4,4'DDD	<100 mg/kg
4,4'DDE	<100 mg/kg
4,4'DDT	<100 mg/kg
dibenzo(a,h)anthracene	<100 mg/kg
dibenzofuran	<100 mg/kg
di-n-butyl phthalate	<100 mg/kg
m-dichlorobenzene	<100 mg/kg
o-dichlorobenzene	<100 mg/kg
p-dichlorobenzene	<100 mg/kg
3,3'-dichlorobenzidine	<100 mg/kg
1,1-dichloroethane	<0.02 mg/kg
1,2-dichloroethane	<0.02 mg/kg
1,1-dichloroethylene	<0.02 mg/kg
trans-1,2-dichloroethylene	<0.02 mg/kg
dichloromethane	<0.02 mg/kg

Jo Kern

COMMON NAME	
ORGANICS (CONTINUED)	
2,4-dichlorophenol	<100 mg/kg
1,2-dichloropropane	<0.02 mg/kg
cis-1,3-dichloropropene	<0.02 mg/kg
trans-1,3-dichloropropene	<0.02 mg/kg
dieldrin	<100 mg/kg
diethyl phthalate	<100 mg/kg
2,4-dimethylphenol	<100 mg/kg
dimethyl phthalate	<100 mg/kg
4,6-dinitro-o-cresol	<100 mg/kg
2,4-dinitrophenol	<100 mg/kg
2,4-dinitrotoluene	<100 mg/kg
2,6-dinitrotoluene	<100 mg/kg
di-n-octyl phthalate	<100 mg/kg
di-n-propylnitrosamine	<100 mg/kg
endosulfan sulfate	<100 mg/kg
endosulfan I (alpha)	<100 mg/kg
endosulfan II (beta)	<100 mg/kg
endrin	<100 mg/kg
endrin ketone	<100 mg/kg
ethyl benzene	<100 mg/kg
fluoranthene	<100 mg/kg
fluorene	<100 mg/kg
heptachlor	<100 mg/kg
heptachlor epoxide	<100 mg/kg
hexachlorobenzene	<100 mg/kg
hexachlorobutadiene	<100 mg/kg

Joe Krause

COMMON NAME	
ORGANICS (CONTINUED)	
hexachlorocyclopentadiene	<100 mg/kg
hexachloroethane	<100 mg/kg
2-hexanone	<0.02 mg/kg
indeno(1,2,3-cd)pyrene	<100 mg/kg
isophorone	<100 mg/kg
methoxychlor	<100 mg/kg
methyl ethyl ketone	<0.02 mg/kg
2-methylnaphthalene	<100 mg/kg
4-methyl-2-pentanone	<0.02 mg/kg
naphthalene	<100 mg/kg
m-nitroaniline	<100 mg/kg
o-nitroaniline	<100 mg/kg
p-nitroaniline	<100 mg/kg
nitrobenzene	<100 mg/kg
2-nitrophenol	<100 mg/kg
4-nitrophenol	<100 mg/kg
N-nitrosodiphenylamine	<100 mg/kg
pentachlorophenol	<100 mg/kg
phenanthrene	<100 mg/kg
phenol	<100 mg/kg
pyrene	<100 mg/kg
styrene	<0.02 mg/kg
1,1,2,2-tetrachloroethane	<0.02 mg/kg

Joe Kerns

COMMON NAME	
ORGANICS (CONTINUED)	
tetrachloroethylene	<0.02 mg/kg
toluene	<0.02 mg/kg
toxaphene	<100 mg/kg
tribromomethane	<0.02 mg/kg
1,2,4-trichlorobenzene	<100 mg/kg
1,1,1-trichloroethane	<0.02 mg/kg
1,1,2-trichloroethane	<0.02 mg/kg
trichloroethylene	1.31 mg/kg
2,4,5-trichlorophenol	<100 mg/kg
2,4,6-trichlorophenol	<100 mg/kg
vinyl acetate	<0.02 mg/kg
vinyl chloride	<0.04 mg/kg
total xylenes	<0.04 mg/kg

Joe Kiesel

COMMON NAME	
METALS	
aluminum	1234 mg/kg
antimony	<1 mg/kg
arsenic	<1 mg/kg
barium	50.9 mg/kg
beryllium	<1 mg/kg
cadmium	<1 mg/kg
calcium	6.1%
chromium	<1 mg/kg
cobalt	<1 mg/kg
copper	<1 mg/kg
iron	2262 mg/kg
lead	<1 mg/kg
magnesium	6706 mg/kg
manganese	48.0 mg/kg
mercury	<.1 mg/kg
nickel	89.3 mg/kg
potassium	2911 mg/kg
selenium	<1 mg/kg
silver	<1 mg/kg
sodium	160 mg/kg
thallium	<1 mg/kg
tin	<1 mg/kg
zinc	14026 mg/kg
MISCELLANEOUS	
cyanide	
phenols	
sulfide	

Joe Krause

M.B.A. Labs J-19271-00

PETERSON - RIEDEL WASTE ANALYSIS SUMMARY 9808 Harry Rd
CWM PROFILE J36145

Waste Name: Comp. # 10 (1 - 6 ST CONTAINER) → ALL SOLIDS

TDWR CODE NUMBER:
DATE SAMPLED: 5-29-89
DATE ANALYSIS COMPLETED: 6-20-89
WASTE FORM (LIQ,DRY S, WET S): Dry

*RCRA HAZARDOUS (Y/N): NO
TDWR CI NON-HAZ (Y/N):
TDWR CII NON-HAZ (Y/N):
TDWR CIII NON-HAZ (Y/N):

*If yes indicate why (i,e, I,C,R,T)

ECTION I
****

100% CONSTITUENT ANALYSIS

COMPONENT	WEIGHT
% WATER (XX.YY):	
RGANICS	
% LIQUID ORGANICS (XX.YY):	
% SOLID ORGANICS (XX.YY):	
NORGANICS - SOLIDS	100%
% ASH (XX.YY):	
OTAL (100 ± 2% MAX) =	

MAJOR COMPONENT CHEMICAL NAMES
(i.e. If GT 0.1%)

ORGANICS	ORGANICS
Acetone - 34 mg/kg	
	INORGANICS
PCB's - <1.0 mg/kg	

ECTION II
****

RCRA CHARACTERISTICS DATA

CHARACTERISTIC	VALUE	HAZARDOUS LIMIT
IGNITABILITY		
F.P. °F	>140	140° F Closed Cup
CORROSIVITY		
pH	6.9	LT 2.0 or GT 12.5
CORROSION RATE		LT 6.35 MM/YR
REACTIVITY (Y/N)		chemist'S JUDGEMENT
TOTAL METALS		
As	<1.0 mg/kg	
Ba	<1.0 mg/kg	
Cd	<1.0 mg/kg	
Cr	<1.0 mg/kg	
Pb	<1.0 mg/kg	
Hg	0.15 mg/kg	
Se	<1.0 mg/kg	
Ag	<1.0 mg/kg	
ENDRIN		
LINDANE		
METHOXYCHLOR		
TOXAPHENE		
2,4-D		
2,4,5-TP SILVEX		

RESTRICTED CHEMICALS

1. Acetaldehyde
2. Acetic Acid
3. Acetic Acid Anhydride
4. Acetone
5. Acetylene Tetrabromide
6. Amyl Acetate
7. Amyl Alcohol
8. Amyl Chloride
9. Aniline
10. Anisole
11. Aqua regia
12. Benzaldehyde
13. Benzene
14. Benzyl Chloride
15. Bromine
16. Bromobenzene
17. Butyl Acetate
18. Butyl Glycol
19. Butyric Acid
20. Calcium Sulfide
21. Carbon Disulfide
22. Carbon tetrachloride
23. Chloric Acid
24. Chlorine (Aqueous solution)
25. Chloroform
26. Chlorosulfonic Acid
27. Chromic Acid
28. Cresylic Acid
29. Decahydronapthalene
30. Dibenzyl ether
31. Dibutyl ether
32. Dibutyl phthalate
33. Dichlorobenzene
34. Dichloroethane
35. Diesel Oil
36. Diethylene glycol monobutyl ether
37. Diethylene
38. Diisobutyl ketone
39. Dioctyl phthalate
40. Ethanol
41. Ethyl Acetate
42. Ethyl Benzene
43. Ethyl Chloride
44. Ethyl Ether
45. Ethylene Chloride
46. Ethylene diechloride
47. Ethylene glycol monoethyl ether
48. Ethylene trichloride
49. Fluoroboric Acid
50. Furfuryl alcohol
51. Gasoline
52. Glacial acetic acid
53. Halothane
54. Heptane
55. Hexane
56. Hydrofluoric Acid
57. Hydrogen peroxide
58. Isooctane
59. Isopropyl ether
60. Methyl Butanol
61. Methyl ethyl ketone
62. Methylene chloride
63. Naptha
64. Napthalene
65. Nitric Acid
66. Octyl Cresol
67. Oleic acid
68. Orthophosphoric Acid
69. Perchloric acid
70. Perchloroethylen
71. Phosphorous trichloride
72. Potassium Hypochloride
73. Propionic Acid
74. Pseudocumene
75. Pyridine
76. Sulfur Trioxide
77. Sulfuric Acid
78. Tetrachloroethane
79. Tetrahydrofuran
80. Thiophene
81. Toluene
82. Triethylamine
83. Turpentine Oil
84. Xylene

I CERTIFY AND WARRANT THAT THE Comp 10 - J 19271-00 DOES/DOES NOT CONTAIN ANY OF THE ABOVE NOTED RESTRICTED CHEMICALS IN CONCENTRATIONS GREATER THAN OR EQUAL TO 5% BY WEIGHT EITHER INDIVIDUALLY OR IN ANY COMBINATION.

SIGNATURE H. J. Krisse

TITLE Gal Dir DATE 6/20/89

M.B.A. LABS

MICROBIOLOGICAL AND BIOCHEMICAL ASSAY LABORATORIES

P.O. BOX 9461 340 S. 66th STREET HOUSTON, TEXAS 77261

TELEPHONE NO. (713) 928-2701

SAMPLE SUBMITTED BY: Peterson - Riedel

DATE RECEIVED: 6-5-1989

DATE COMPLETED: 6-20-1989

LABORATORY REPORT NUMBER: J-19271-00

SAMPLE IDENTIFICATION: Composite 10

RESULTS

PARAMETER	METHOD #	DATE	TIME	ANALYST	RESULTS
Flash Point	SW 846 Method 1010	6-8-89	5:30	D.H.	>140°F
PCB's	EPA 608	6-12-89	1:00	D.H.	<1 ppm
pH	EPA 150.1	6-20-89	11:00	H.E.	6.9

REPORTED BY Joe Krenz

M.B.A. LABS

MICROBIOLOGICAL AND BIOCHEMICAL ASSAY LABORATORIES

P.O. BOX 9461 340 S. 66th STREET HOUSTON, TEXAS 77261
TELEPHONE NO. (713) 928-2701

SAMPLE SUBMITTED BY: Peterson - Riedel

DATE RECEIVED: 6-5-1989

DATE COMPLETED: 6-21-1989

LABORATORY REPORT NUMBER: J-19271

SAMPLE IDENTIFICATION: Composite 10

COMMON NAME	SUPERFUND LIST (TCL)
ORGANICS	
acenaphthene	< 50 mg/kg
acenaphthylene	< 50 mg/kg
acetone	34 mg/kg
aldrin	< 50 mg/kg
anthracene	< 50 mg/kg
Aroclor 1016	<1 mg/kg
Aroclor 1221	<1 mg/kg
Aroclor1232	<1 mg/kg
Aroclor 1242	<1 mg/kg
Aroclor 1248	<1 mg/kg
Aroclor 1254	<1 mg/kg
Aroclor 1260	<1 mg/kg
benzene	<0.02 mg/kg
benz(a)anthracene	< 50 mg/kg
benzo(b)fluoranthene	< 50 mg/kg
benzo(k)fluoranthene	< 50 mg/kg
benzoic acid	< 50 mg/kg
benzo(ghi)perylene	< 50 mg/kg
benzo(a)pyrene	< 50 mg/kg
benzyl alcohol	< 50 mg/kg

COMMON NAME	
ORGANICS (CONTINUED)	
alpha-BHC	<50 mg/kg
beta-BHC	<50 mg/kg
delta-BHC	<50 mg/kg
gamma-BHC	<50 mg/kg
bis(2-chloroethoxy)methane	<50 mg/kg
bis(2-chloroethyl)ether	<50 mg/kg
bis(2-chloroisopropyl)ether	<50 mg/kg
bis(2-ethylhexyl)phthalate	<50 mg/kg
bromodichloromethane	<0.02 mg/kg
bromomethane	<0.04 mg/kg
4-bromophenyl phenyl ether	<50 mg/kg
butyl benzyl phthalate	<50 mg/kg
carbon disulfide	<0.02 mg/kg
carbon tetrachloride	<0.02 mg/kg
chlordane	<50 mg/kg
p-chloroaniline	<50 mg/kg
chlorobenzene	<0.02 mg/kg
p-chloro-m-cresol	<50 mg/kg
chlorodibromomethane	<0.02 mg/kg
chloroethane	<0.04 mg/kg
chloroform	<0.02 mg/kg
chloromethane	<0.04 mg/kg

Jo Kerry

COMMON NAME	
ORGANICS (CONTINUED)	
2-chloronaphthalene	<50 mg/kg
2-chlorophenol	<50 mg/kg
4-chlorophenyl phenyl ether	<50 mg/kg
chrysene	<50 mg/kg
ortho-cresol	<50 mg/kg
para-cresol	<50 mg/kg
4,4'DDD	<50 mg/kg
4,4'DDE	<50 mg/kg
4,4'DDT	<50 mg/kg
dibenzo(a,h)anthracene	<50 mg/kg
dibenzofuran	<50 mg/kg
di-n-butyl phthalate	<50 mg/kg
m-dichlorobenzene	<50 mg/kg
o-dichlorobenzene	<50 mg/kg
p-dichlorobenzene	<50 mg/kg
3,3'-dichlorobenzidine	<50 mg/kg
1,1-dichloroethane	<0.02 mg/kg
1,2-dichloroethane	<0.02 mg/kg
1,1-dichloroethylene	<0.02 mg/kg
trans-1,2-dichloroethylene	<0.02 mg/kg
dichloromethane	<0.02 mg/kg

Jo Kern

COMMON NAME	
ORGANICS (CONTINUED)	
2,4-dichlorophenol	<50 mg/kg
1,2-dichloropropane	<0.02 mg/kg
cis-1,3-dichloropropene	<0.02 mg/kg
trans-1,3-dichloropropene	<0.02 mg/kg
dieldrin	<50 mg/kg
diethyl phthalate	<50 mg/kg
2,4-dimethylphenol	<50 mg/kg
dimethyl phthalate	<50 mg/kg
4,6-dinitro-o-cresol	<50 mg/kg
2,4-dinitrophenol	<50 mg/kg
2,4-dinitrotoluene	<50 mg/kg
2,6-dinitrotoluene	<50 mg/kg
di-n-octyl phthalate	<50 mg/kg
di-n-propylnitrosamine	<50 mg/kg
endosulfan sulfate	<50 mg/kg
endosulfan I (alpha)	<50 mg/kg
endosulfan II (beta)	<50 mg/kg
endrin	<50 mg/kg
endrin ketone	<50 mg/kg
ethyl benzene	<0.02 mg/kg
fluoranthene	<50 mg/kg
fluorene	<50 mg/kg
heptachlor	<50 mg/kg
heptachlor epoxide	<50 mg/kg
hexachlorobenzene	<50 mg/kg
hexachlorobutadiene	<50 mg/kg

Jor Krem

COMMON NAME	
ORGANICS (CONTINUED)	
hexachlorocyclopentadiene	<50 mg/kg
hexachloroethane	<50 mg/kg
2-hexanone	<0.02 mg/kg
indeno(1,2,3-cd)pyrene	<50 mg/kg
isophorone	<50 mg/kg
methoxychlor	<50 mg/kg
methyl ethyl ketone	<0.02 mg/kg
2-methylnaphthalene	<50 mg/kg
4-methyl-2-pentanone	<0.02 mg/kg
naphthalene	<50 mg/kg
m-nitroaniline	<50 mg/kg
o-nitroaniline	<50 mg/kg
p-nitroaniline	<50 mg/kg
nitrobenzene	<50 mg/kg
2-nitrophenol	<50 mg/kg
4-nitrophenol	<50 mg/kg
N-nitrosodiphenylamine	<50 mg/kg
pentachlorophenol	<50 mg/kg
phenanthrene	<50 mg/kg
phenol	<50 mg/kg
pyrene	<50 mg/kg
styrene	<50 mg/kg
1,1,2,2-tetrachloroethane	<0.02 mg/kg

Jon Kraus

COMMON NAME	
ORGANICS (CONTINUED)	
tetrachloroethylene	<0.02 mg/kg
toluene	<0.02 mg/kg
toxaphene	<50 mg/kg
tribromomethane	<0.02 mg/kg
1,2,4-trichlorobenzene	<50 mg/kg
1,1,1-trichloroethane	<0.02 mg/kg
1,1,2-trichloroethane	<0.02 mg/kg
trichloroethylene	<0.02 mg/kg
2,4,5-trichlorophenol	<50 mg/kg
2,4,6-trichlorophenol	<50 mg/kg
vinyl acetate	<0.02 mg/kg
vinyl chloride	<0.04 mg/kg
total xylenes	<0.04 mg/kg

Jon Kern

COMMON NAME	
METALS	
aluminum	<1 mg/kg
antimony	<1 mg/kg
arsenic	<1 mg/kg
barium	<1 mg/kg
beryllium	<1 mg/kg
cadmium	<1 mg/kg
calcium	281 mg/kg
chromium	<1 mg/kg
cobalt	<1 mg/kg
copper	<1 mg/kg
iron	28.1 mg/kg
lead	<1 mg/kg
magnesium	120 mg/kg
manganese	<1 mg/kg
mercury	.15 mg/kg
nickel	<1 mg/kg
potassium	179 mg/kg
selenium	<1 mg/kg
silver	<1 mg/kg
sodium	9.5%
thallium	<1 mg/kg
tin	<1 mg/kg
zinc	1261 mg/kg
MISCELLANEOUS	
cyanide	
phenols	
sulfide	

Joe Krem

9808 HARDY Rd
CWM PROFILE J36145

M.B.A. LABS

MICROBIOLOGICAL AND BIOCHEMICAL ASSAY LABORATORIES

P.O. BOX 9461 340 S. 66th STREET HOUSTON, TEXAS 77261
TELEPHONE NO. (713) 928-2701

SAMPLE SUBMITTED BY: Peterson - Riedel

DATE RECEIVED: 6-1-1989

DATE COMPLETED: 6-12-1989

LABORATORY REPORT NUMBER: J-19191-00

SAMPLE IDENTIFICATION: Sample # 9808-28

RESULTS

TOTAL METALS - AS IS

PARAMETER	METHOD #	DATE	TIME	ANALYST	RESULTS
Beryllium	EPA 200.7	6-2-89	8:00	Alam	<0.5 mg/kg
Cadmium	EPA 200.7	6-2-89	8:00	Alam	<0.5 mg/kg
Chromium	EPA 200.7	6-2-89	8:00	Alam	5.1 mg/kg
Copper	EPA 200.7	6-2-89	8:00	Alam	<0.5 mg/kg
Lead	EPA 239.2	6-2-89	8:00	Alam	13.3 mg/kg
Nickel	EPA 200.7	6-2-89	8:00	Alam	<0.5 mg/kg
Selenium	EPA 200.7	6-2-89	8:00	Alam	<0.5 mg/kg
Silver	EPA 200.7	6-2-89	8:00	Alam	<0.5 mg/kg
Thallium	EPA 200.7	6-2-89	8:00	Alam	<0.5 mg/kg
Antimony	EPA 200.7	6-2-89	8:00	Alam	<0.5 mg/kg
Zinc	EPA 200.7	6-2-89	8:00	Alam	314 mg/kg
Arsenic	EPA 206.2	614-89	8:00	Alam	1.1 mg/kg
Mercury	EPA 245.1	6-6-89	10:00	P.D.	<.1 mg/kg
Flash Point	SW 846 Method 1010	6-6-89	5:00	D.H.	> 140°F

REPORTED BY J. Kern

M.B.A. LABS

MICROBIOLOGICAL AND BIOCHEMICAL ASSAY LABORATORIES

P.O. BOX 9461 340 S. 66th STREET HOUSTON, TEXAS 77261
TELEPHONE NO. (713) 928-2701

SAMPLE SUBMITTED BY: Peterson - Riedel

DATE RECEIVED: 6-1-1989

DATE COMPLETED: 6-12-1989

LABORATORY REPORT NUMBER: J-19191

SAMPLE IDENTIFICATION: Sample 9808-28

COMMON NAME	SUPERFUND LIST (TCL)
ORGANICS	
acenaphthene	<0.05 mg/kg
acenaphthylene	<0.05 mg/kg
acetone	<0.02 mg/kg
aldrin	<0.05 mg/kg
anthracene	<0.05 mg/kg
Aroclor 1016	<1.00 mg/kg
Aroclor 1221	<1.00 mg/kg
Aroclor1232	<1.00 mg/kg
Aroclor 1242	<1.00 mg/kg
Aroclor 1248	<1.00 mg/kg
Aroclor 1254	<1.00 mg/kg
Aroclor 1260	<1.00 mg/kg
benzene	<0.02 mg/kg
benz(a)anthracene	<0.05 mg/kg
benzo(b)fluoranthene	<0.05 mg/kg
benzo(k)fluoranthene	<0.05 mg/kg
benzoic acid	<0.05 mg/kg
benzo(ghi)perylene	<0.05 mg/kg
benzo(a)pyrene	<0.05 mg/kg
benzyl alcohol	<0.05 mg/kg

Joe Kane

COMMON NAME	
ORGANICS (CONTINUED)	
alpha-BHC	<0.05 mg/kg
beta-BHC	<0.05 mg/kg
delta-BHC	<0.05 mg/kg
gamma-BHC	<0.05 mg/kg
bis(2-chloroethoxy)methane	<0.05 mg/kg
bis(2-chloroethyl)ether	<0.05 mg/kg
bis(2-chloroisopropyl)ether	<0.05 mg/kg
bis(2-ethylhexyl)phthalate	<0.05 mg/kg
bromodichloromethane	<0.02 mg/kg
bromomethane	<0.04 mg/kg
4-bromophenyl phenyl ether	<0.05 mg/kg
butyl benzyl phthalate	<0.05 mg/kg
carbon disulfide	<0.02 mg/kg
carbon tetrachloride	<0.02 mg/kg
chlordane	<0.05 mg/kg
p-chloroaniline	<0.05 mg/kg
chlorobenzene	<0.02 mg/kg
p-chloro-m-cresol	<0.05 mg/kg
chlorodibromomethane	<0.02 mg/kg
chloroethane	<0.04 mg/kg
chloroform	<0.02 mg/kg
chloromethane	<0.04 mg/kg

Joe Kern

COMMON NAME	
ORGANICS (CONTINUED)	
2-chloronaphthalene	<0.05 mg/kg
2-chlorophenol	<0.05 mg/kg
4-chlorophenyl phenyl ether	<0.05 mg/kg
chrysene	<0.05 mg/kg
ortho-cresol	<0.05 mg/kg
para-cresol	<0.05 mg/kg
4,4'DDD	<0.05 mg/kg
4,4'DDE	<0.05 mg/kg
4,4'DDT	<0.05 mg/kg
dibenzo(a,h)anthracene	<0.05 mg/kg
dibenzofuran	<0.05 mg/kg
di-n-butyl phthalate	<0.05 mg/kg
m-dichlorobenzene	<0.05 mg/kg
o-dichlorobenzene	<0.05 mg/kg
p-dichlorobenzene	<0.05 mg/kg
3,3'-dichlorobenzidine	<0.05 mg/kg
1,1-dichloroethane	<0.02 mg/kg
1,2-dichloroethane	<0.02 mg/kg
1,1-dichloroethylene	<0.02 mg/kg
trans-1,2-dichloroethylene	<0.02 mg/kg
dichloromethane	<0.02 mg/kg

Joe Krem

COMMON NAME	
ORGANICS (CONTINUED)	
2,4-dichlorophenol	<0.05 mg/kg
1,2-dichloropropane	<0.02 mg/kg
cis-1,3-dichloropropene	<0.02 mg/kg
trans-1,3-dichloropropene	<0.02 mg/kg
dieldrin	<0.05 mg/kg
diethyl phthalate	<0.05 mg/kg
2,4-dimethylphenol	<0.05 mg/kg
dimethyl phthalate	<0.05 mg/kg
4,6-dinitro-o-cresol	<0.05 mg/kg
2,4-dinitrophenol	<0.05 mg/kg
2,4-dinitrotoluene	<0.05 mg/kg
2,6-dinitrotoluene	<0.05 mg/kg
di-n-octyl phthalate	<0.05 mg/kg
di-n-propylnitrosamine	<0.05 mg/kg
endosulfan sulfate	<0.05 mg/kg
endosulfan I (alpha)	<0.05 mg/kg
endosulfan II (beta)	<0.05 mg/kg
endrin	<0.05 mg/kg
endrin ketone	<0.05 mg/kg
ethyl benzene	<0.02 mg/kg
fluoranthene	<0.05 mg/kg
fluorene	<0.05 mg/kg
heptachlor	<0.05 mg/kg
heptachlor epoxide	<0.05 mg/kg
hexachlorobenzene	<0.05 mg/kg
hexachlorobutadiene	<0.05 mg/kg

Joe Kern

COMMON NAME	
ORGANICS (CONTINUED)	
hexachlorocyclopentadiene	<0.05 mg/kg
hexachloroethane	<0.05 mg/kg
2-hexanone	<0.02 mg/kg
indeno(1,2,3-cd)pyrene	<0.05 mg/kg
isophorone	<0.05 mg/kg
methoxychlor	<0.05 mg/kg
methyl ethyl ketone	<0.02 mg/kg
2-methylnaphthalene	<0.05 mg/kg
4-methyl-2-pentanone	<0.02 mg/kg
naphthalene	<0.05 mg/kg
m-nitroaniline	<0.05 mg/kg
o-nitroaniline	<0.05 mg/kg
p-nitroaniline	<0.05 mg/kg
nitrobenzene	<0.05 mg/kg
2-nitrophenol	<0.05 mg/kg
4-nitrophenol	<0.05 mg/kg
N-nitrosodiphenylamine	<0.05 mg/kg
pentachlorophenol	<0.05 mg/kg
phenanthrene	<0.05 mg/kg
phenol	<0.05 mg/kg
pyrene	<0.05 mg/kg
styrene	<0.05 mg/kg
1,1,2,2-tetrachloroethane	<0.02 mg/kg

Joe Kern

COMMON NAME	
ORGANICS (CONTINUED)	
tetrachloroethylene	<0.02 mg/kg
toluene	<0.02 mg/kg
toxaphene	<0.05 mg/kg
tribromomethane	<0.02 mg/kg
1,2,4-trichlorobenzene	<0.05 mg/kg
1,1,1-trichloroethane	<0.02 mg/kg
1,1,2-trichloroethane	<0.02 mg/kg
trichloroethylene	<0.02 mg/kg
2,4,5-trichlorophenol	<0.05 mg/kg
2,4,6-trichlorophenol	<0.05 mg/kg
vinyl acetate	<0.04 mg/kg
vinyl chloride	<0.04 mg/kg
total xylenes	<0.04 mg/kg

Jol Kraus

TYPE OF PROCESS PRODUCING WASTE: ABANDONED DRUMS

COLLECTOR'S SIGNATURE: [illegible]

LOCATION: HAIRDY ROAD 9808 SOIL

TELEPHONE: 479-5395

FIELD INFORMATION:
(1) COMP FROM EXCAVATION.
(2) VERIFICATION.

SAMPLE NUMBER	LOCATION ON SITE	TIME SAMPLED (HOURS)	SAMPLE TYPE	NUMBER OF SAMPLES	ANALYSIS REQUIRED
9808-89	EX	1700	COMP	1	(1) CLNE-IA (2) METALS-13 (3) PH (4) FP (5) ACB'S
9808-89	VER	1700	COMP	1	SAME

CHAIN OF POSSESSION

	SIGNATURE	TITLE	INCLUSIVE DATES
1	[illegible]	PROJ MGR	5-23-89
2	[illegible]	[illegible]	6-1-89
3			
4			

SAMPLE ALLOCATION (NAME OF ORGANIZATION)

9808 Hardy Rd
CNM Profile J36145

M.B.A. LABS

MICROBIOLOGICAL AND BIOCHEMICAL ASSAY LABORATORIES

P.O. BOX 9461 340 S. 66th STREET HOUSTON, TEXAS 77261
TELEPHONE NO. (713) 928-2701

SAMPLE SUBMITTED BY: Peterson - Riedel

DATE RECEIVED: 6-1-1989

DATE COMPLETED: 6-12-1989

LABORATORY REPORT NUMBER: J-19192-00

SAMPLE IDENTIFICATION: Sample #9808-29

RESULTS

TOTAL METALS - AS IS

PARAMETER	METHOD #	DATE	TIME	ANALYST	RESULTS
Beryllium	EPA 200.7	6-2-89	8:00	Alam	<0.5 mg/kg
Cadmium	EPA 200.7	6-2-89	8:00	Alam	<0.5 mg/kg
Chromium	EPA 200.7	6-2-89	8:00	Alam	<0.5 mg/kg
Copper	EPA 200.7	6-2-89	8:00	Alam	<0.5 mg/kg
Lead	EPA 239.2	6-2-89	8:00	Alam	18.7 mg/kg
Nickel	EPA 200.7	6-2-89	8:00	Alam	326 mg/kg
Selenium	EPA 200.7	6-2-89	8:00	Alam	<0.5 mg/kg
Silver	EPA 200.7	6-2-89	8:00	Alam	<0.5 mg/kg
Thallium	EPA 200.7	6-2-89	8:00	Alam	<0.5 mg/kg
Antimony	EPA 200.7	6-2-89	8:00	Alam	<0.5 mg/kg
Arsenic	EPA 206.2	6-14-89	8:00	Alam	1.6 mg/kg
Zinc	EPA 200.7	6-2-89	8:00	Alam	43659 mg/kg
Mercury	EPA 245.1	6-8-89	10:00	P.D.	<.1 mg/kg
Flash Point	SW 846 Method 1010	6-6-89	5:00	D.H.	>140°F

REPORTED BY Jo Kress

M.B.A. LABS

MICROBIOLOGICAL AND BIOCHEMICAL ASSAY LABORATORIES

P.O. BOX 9461 340 S. 66th STREET HOUSTON, TEXAS 77261
TELEPHONE NO. (713) 928-2701

SAMPLE SUBMITTED BY: Peterson - Riedel

DATE RECEIVED: 6-1-1989

DATE COMPLETED: 6-12-1989

LABORATORY REPORT NUMBER: J-19192-00

SAMPLE IDENTIFICATION: Sample # 9808-29

COMMON NAME	SUPERFUND LIST (TCL)
ORGANICS	
acenaphthene	<0.5 mg/kg
acenaphthylene	<0.5 mg/kg
acetone	<0.02 mg/kg
aldrin	<0.5 mg/kg
anthracene	<0.5 mg/kg
Aroclor 1016	<1 mg/kg
Aroclor 1221	<1 mg/kg
Aroclor1232	<1 mg/kg
Aroclor 1242	<1 mg/kg
Aroclor 1248	<1 mg/kg
Aroclor 1254	<1 mg/kg
Aroclor 1260	<1 mg/kg
benzene	<0.02 mg/kg
benz(a)anthracene	<0.5 mg/kg
benzo(b)fluoranthene	<0.5 mg/kg
benzo(k)fluoranthene	<0.5 mg/kg
benzoic acid	<0.5 mg/kg
benzo(ghi)perylene	<0.5 mg/kg
benzo(a)pyrene	<0.5 mg/kg
benzyl alcohol	<0.5 mg/kg

Joe Kerr

COMMON NAME	
ORGANICS (CONTINUED)	
alpha-BHC	<0.5 mg/kg
beta-BHC	<0.5 mg/kg
delta-BHC	<0.5 mg/kg
gamma-BHC	<0.5 mg/kg
bis(2-chloroethoxy)methane	<0.5 mg/kg
bis(2-chloroethyl)ether	<0.5 mg/kg
bis(2-chloroisopropyl)ether	<0.5 mg/kg
bis(2-ethylhexyl)phthalate	<0.5 mg/kg
bromodichloromethane	<0.02 mg/kg
bromomethane	<0.04 mg/kg
4-bromophenyl phenyl ether	<0.5 mg/kg
butyl benzyl phthalate	<0.5 mg/kg
carbon disulfide	<0.02 mg/kg
carbon tetrachloride	<0.02 mg/kg
chlordane	<0.5 mg/kg
p-chloroaniline	<0.5 mg/kg
chlorobenzene	<0.02 mg/kg
p-chloro-m-cresol	<0.02 mg/kg
chlorodibromomethane	<0.02 mg/kg
chloroethane	<0.04 mg/kg
chloroform	<0.02 mg/kg
chloromethane	<0.04 mg/kg

Joe Kern

COMMON NAME	
ORGANICS (CONTINUED)	
2-chloronaphthalene	<0.5 mg/kg
2-chlorophenol	<0.5 mg/kg
4-chlorophenyl phenyl ether	<0.5 mg/kg
chrysene	<0.5 mg/kg
ortho-cresol	<0.5 mg/kg
para-cresol	<0.5 mg/kg
4,4'DDD	<0.5 mg/kg
4,4'DDE	<0.5 mg/kg
4,4'DDT	<0.5 mg/kg
dibenzo(a,h)anthracene	<0.5 mg/kg
dibenzofuran	<0.5 mg/kg
di-n-butyl phthalate	<0.5 mg/kg
m-dichlorobenzene	<0.5 mg/kg
o-dichlorobenzene	<0.5 mg/kg
p-dichlorobenzene	<0.5 mg/kg
3,3'-dichlorobenzidine	<0.5 mg/kg
1,1-dichloroethane	<0.02 mg/kg
1,2-dichloroethane	<0.02 mg/kg
1,1-dichloroethylene	<0.02 mg/kg
trans-1,2-dichloroethylene	<0.02 mg/kg
dichloromethane	<0.02 mg/kg

Joe Kane

COMMON NAME	
ORGANICS (CONTINUED)	
2,4-dichlorophenol	<0.5 mg/kg
1,2-dichloropropane	<0.02 mg/kg
cis-1,3-dichloropropene	<0.02 mg/kg
trans-1,3-dichloropropene	<0.02 mg/kg
dieldrin	<0.5 mg/kg
diethyl phthalate	<0.5 mg/kg
2,4-dimethylphenol	<0.5 mg/kg
dimethyl phthalate	<0.5 mg/kg
4,6-dinitro-o-cresol	<0.5 mg/kg
2,4-dinitrophenol	<0.5 mg/kg
2,4-dinitrotoluene	<0.5 mg/kg
2,6-dinitrotoluene	<0.5 mg/kg
di-n-octyl phthalate	<0.5 mg/kg
di-n-propylnitrosamine	<0.5 mg/kg
endosulfan sulfate	<0.5 mg/kg
endosulfan I (alpha)	<0.5 mg/kg
endosulfan II (beta)	<0.5 mg/kg
endrin	<0.5 mg/kg
endrin ketone	<0.5 mg/kg
ethyl benzene	<0.02 mg/kg
fluoranthene	<0.5 mg/kg
fluorene	<0.5 mg/kg
heptachlor	<0.5 mg/kg
heptachlor epoxide	<0.5 mg/kg
hexachlorobenzene	<0.5 mg/kg
hexachlorobutadiene	<0.5 mg/kg

Joe Brown

COMMON NAME	
ORGANICS (CONTINUED)	
hexachlorocyclopentadiene	<0.5 mg/kg
hexachloroethane	<0.5 mg/kg
2-hexanone	<0.02 mg/kg
indeno(1,2,3-cd)pyrene	<0.5 mg/kg
isophorone	<0.5 mg/kg
methoxychlor	<0.5 mg/kg
methyl ethyl ketone	<0.02 mg/kg
2-methylnaphthalene	<0.5 mg/kg
4-methyl-2-pentanone	<0.02 mg/kg
naphthalene	<0.5 mg/kg
m-nitroaniline	<0.5 mg/kg
o-nitroaniline	<0.5 mg/kg
p-nitroaniline	<0.5 mg/kg
nitrobenzene	<0.5 mg/kg
2-nitrophenol	<0.5 mg/kg
4-nitrophenol	<0.5 mg/kg
N-nitrosodiphenylamine	<0.5 mg/kg
pentachlorophenol	<0.5 mg/kg
phenanthrene	<0.5 mg/kg
phenol	<0.5 mg/kg
pyrene	<0.5 mg/kg
styrene	<0.5 mg/kg
1,1,2,2-tetrachloroethane	<0.02 mg/kg

Joe Kern

COMMON NAME	
ORGANICS (CONTINUED)	
tetrachloroethylene	<0.02 mg/kg
toluene	<0.02 mg/kg
toxaphene	<0.5 mg/kg
tribromomethane	<0.02 mg/kg
1,2,4-trichlorobenzene	<0.5 mg/kg
1,1,1-trichloroethane	<0.02 mg/kg
1,1,2-trichloroethane	<0.02 mg/kg
trichloroethylene	<0.02 mg/kg
2,4,5-trichlorophenol	<0.5 mg/kg
2,4,6-trichlorophenol	<0.5 mg/kg
vinyl acetate	<0.04 mg/kg
vinyl chloride	<0.04 mg/kg
total xylenes	<0.04 mg/kg

Jo Kern

DATE SAMPLED: [illegible]

TYPE OF PROCESS PRODUCING WASTE: ABANDONED DRUMS

COLLECTOR'S SIGNATURE: [illegible]

HARDY ROAD 9808

LOCATION: SOIL

TELEPHONE: 479-5895

FIELD INFORMATION:
(1) COMP FROM EXCAVATION -
(2) VERIFICATION -

SAMPLE NUMBER	LOCATION ON SITE	TIME SAMPLED (HOURS)	SAMPLE TYPE	NUMBER OF SAMPLES	ANALYSIS REQUIRED
9808-88	EX	1700	COMP	1	(1) VOC-IA (2) METALS-13 (3) PH (4) FP (5) PCB'S
9808-89	VER	1700	COMP	1	SAME

CHAIN OF POSSESSION

	SIGNATURE	TITLE	INCLUSIVE DATES
1	[illegible]	PROJ MGR	5-[illegible]-89
2	[illegible]	[illegible]	[illegible]
3			
4			

SAMPLE ALLOCATION (NAME OF ORGANIZATION)

9808 HARDY RD
CWM PROFILE J36145

M.B.A LABS

MICROBIOLOGICAL AND BIOCHEMICAL ASSAY

LABORATORIES

P.O.BOX 9461
HOUSTON,TEXAS 77261

340 S.66 TH STREET
TEL (713) 928-2701

SAMPLE SUBMITTED BY:	PETERSON RIEDEL
DATE RECEIVED:	6-1-89
DATE COMPLETED:	6-12-89
LABORATORY REPORT NUMBER:	J-19191 & J-19192
SAMPLE IDENTIFICATION:	SAMPLES 9808-28 & 9808-29

THE SAMPLES WERE ANALYZED BY GAS CHROMATOGRAPHY/MASS SPECTROMETRY USING HEWLETT-PACKARD MODEL # 5970 GC/MS SYSTEMS.

THE SAMPLES WERE PREPARED FOR ANALYSIS ACCORDING TO THE METHODS DESCRIBED IN:

40 CFR PART 136, FEDERAL REGISTER, FRIDAY, OCTOBER 26, 1984 ENVIRONMENTAL PROTECTION AGENCY, PART VIII.

1. VOC'S METHOD 624
2. ACID/BASE-NEUTRAL METHOD 625
3. EPA MIX PESTICIDES METHOD 625
4. PCB'S (BY G.C.)METHOD 608

THE SAMPLES WERE ANALYZED FOR THE FOLLOWING COMPOUNDS:

VOLATILE ORGANICS (P.P)
EPA MIX PESTICIDES
ACID/BASE-NEUTRAL EXTRACTABLES
PCB'S

SAMPLE ID: J-19191 & J-19192

METHOD - 625
40 CFR PART 136
ENVIRONMENTAL PROTECTION AGENCY
OCTOBER, 1984

BASE NEUTRAL/ACID EXTRACTABLES

THE GC/MS PARAMETERS WERE AS FOLLOWS:

COLUMN	25 METER FUSED SILICA CAPILLARY COATED WITH SE-30
CARRIER GAS	HELIUM @ 30 CM/SEC(0.9 ML/MIN)
INJECTOR TEMP	270 DEGREES
COLUMN TEMP	5 MINUTES @ 35 DEGREES, THEN 8 DEGREES PER MINUTE TO 300 DEGREES, HOLD AT 300 DEGREES.
INJECTION MODE	SPLITLESS
SPLIT RATIO	----
GC/MS INTERFACE	DIRECT
IONIZATION MODE	ELECTRON IMPACT
ELECTRON ENERGY	70 V
MASS RANGE SCAN	35 TO 450 AMU
SCAN TIME	0.4 SEC

COPIES OF THE TOTAL ION CHROMATOGRAMS ARE INCLUDED WITH THIS REPORT. ALL GC/MS DATA IS PERMANENTLY STORED AT MBA LABORATORIES ON MAGNETIC MEDIA.

Kim Le

METHOD - 624
40 CRF PART 136
ENVIRONMENTAL PROTECTION AGENCY
OCTOBER, 1984

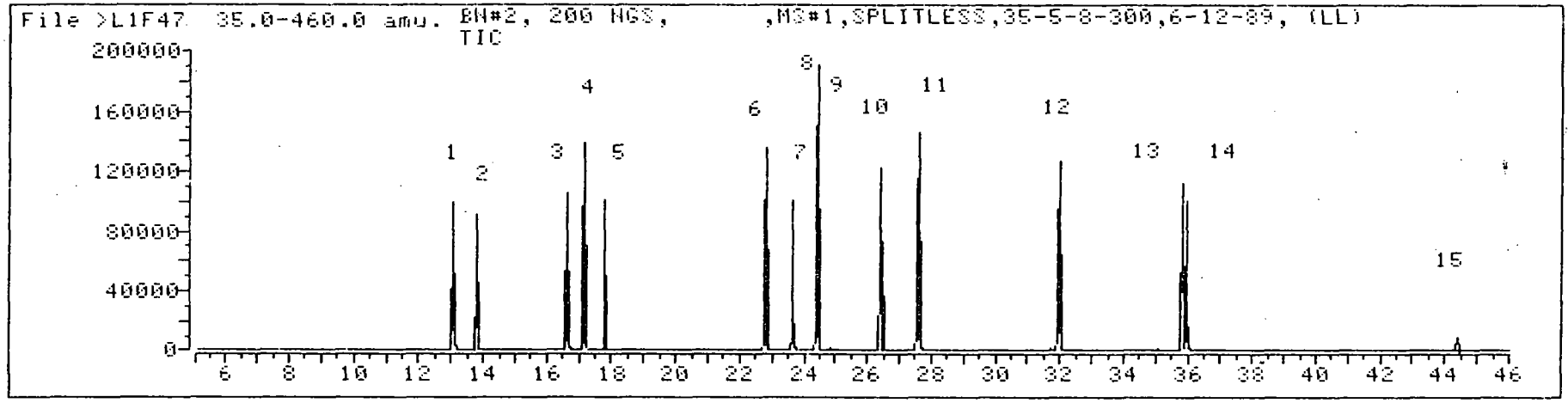
VOLATILE ORGANICS (PRIORITY POLLUTANT)

THE GC/MS PARAMETERS WERE AS FOLLOWS

PURGE GAS	HELIUM @ 20 MLS/MIN
PURGE TIME	11 MINUTES
DESORB TIME	04 MINUTES
DESORB TEMP	180 DEGREES
COLUMN	3% SP-1500 ON CARBOPACK B, 80/120 MESH 1/4 INCH X 6 FEED ,PYREX
CARRIER GAS	HELIUM @ 20 CM/SEC (0.9 ML/MIN)
INJECTION TEMP	180 DEGREES
	40 DEGREES FOR 1 MINS, THEN 10 DEGREES PER MINUTES TO 200 DEGREES, HOLD 15 MINS
GC/MS INTERFACE	MOLECULLAR JET SEPARATOR
MASS RANGE	35 TO 260
SCAN TIME	0.9 SEC
IONIZATION MODE	ELECTRON IMPACT
ELECTRON ENERGY	70 V

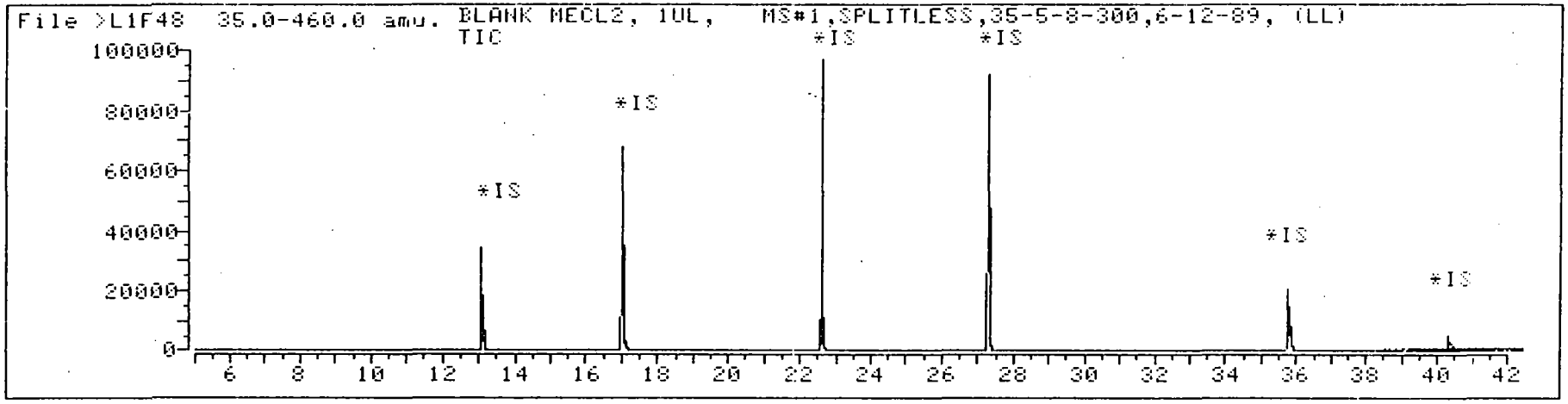
COPIES OF THE TOTAL ION CHROMATOGRAMS ARE INCLUDED WITH THIS REPORT. ALL GC/MS DATA IS PERMANENTLY STORED AT MBA LABORATORIES ON MAGNETIC TAPE.

Dan Le



SAMPLE ID = BASE/NEUTRAL #2.

1- 1,3-DICHLOROBENZENE
2- 1,2-DICHLOROBENZENE
3- BIS(2-CHLOROETHOXY)-METHANE
4- NAPHTHALENE
5- HEXACHLOROBUTADIENE
6- ACENAPHTHENE
7- 2,4-DINITROTOLUENE
8- DIETHYL PHTHALATE
9- FLUORENE
10- HEXACHLOROBENZENE
11- ANTHRACENE
12- PYRENE
13- CHRYSENE
14- BENZO(A)ANTHRACENE
15- DIBENZO(A,H)ANTHRACENE

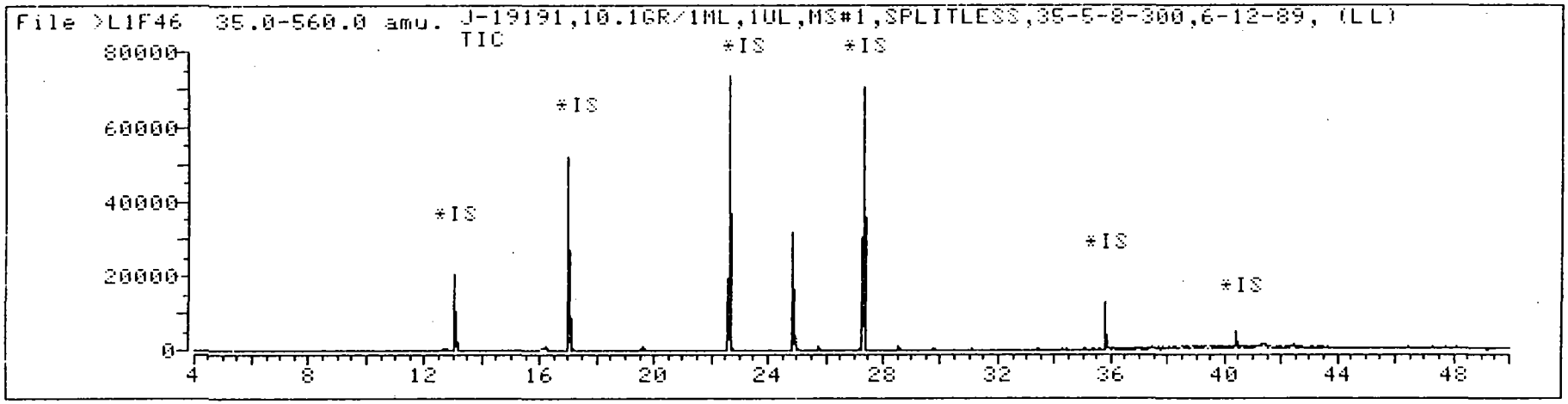


SAMPLE ID = BLANK-MECL2

RESULTS

ACID/BASE-NEUTRAL (P.P)	NOT	FOUND	<5	UG/L

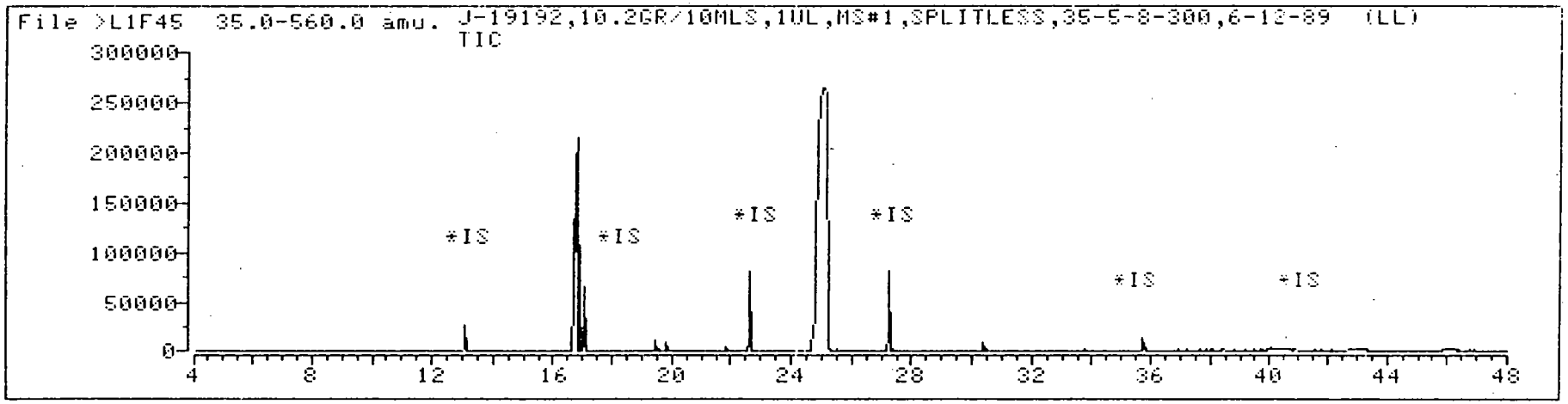
* THESE ARE INTERNAL STANDARDS.



SAMPLE ID = J-19191, 9808-28
RESULTS

1. LISTED COMPOUNDS (SEE ENCLOSED FORM)
2. OTHER NONLISTED COMPOUNDS FOUND (MAJOR COMPONENTS)
   1. N,N-DIPHENYL-HYDRAZINE CARBOXAMIDE 24.79 MINS 2.82 MG/KG

* THESE ARE INTERNAL STANDARDS.



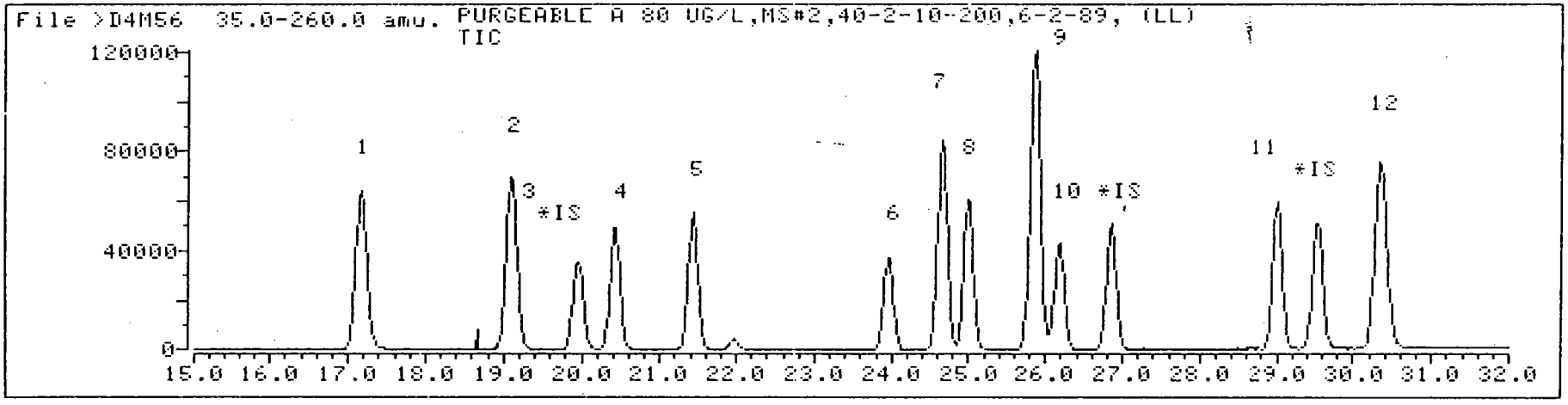
SAMPLE ID = J-19192, 9808-29
RESULTS

1. LISTED COMPOUNDS (SEE ENCLOSED FORM)

2. OTHER NONLISTED COMPOUNDS FOUND (MAJOR COMPONENTS)

1. 2-BUTENEDIOIC ACID (Z) DIETHYL ESTER	16.77	MINS	403.28	MG/KG
2. 1,4-DICHLORO-2-ISOCYANATO-BENZENE	19.43	MINS	5.35	MG/KG
3. 3,5-DICHLORO-BENZENAMINE	21.80	MINS	5.47	MG/KG
4. 1-TETRACOSANOL	30.37	MINS	1.75	MG/KG

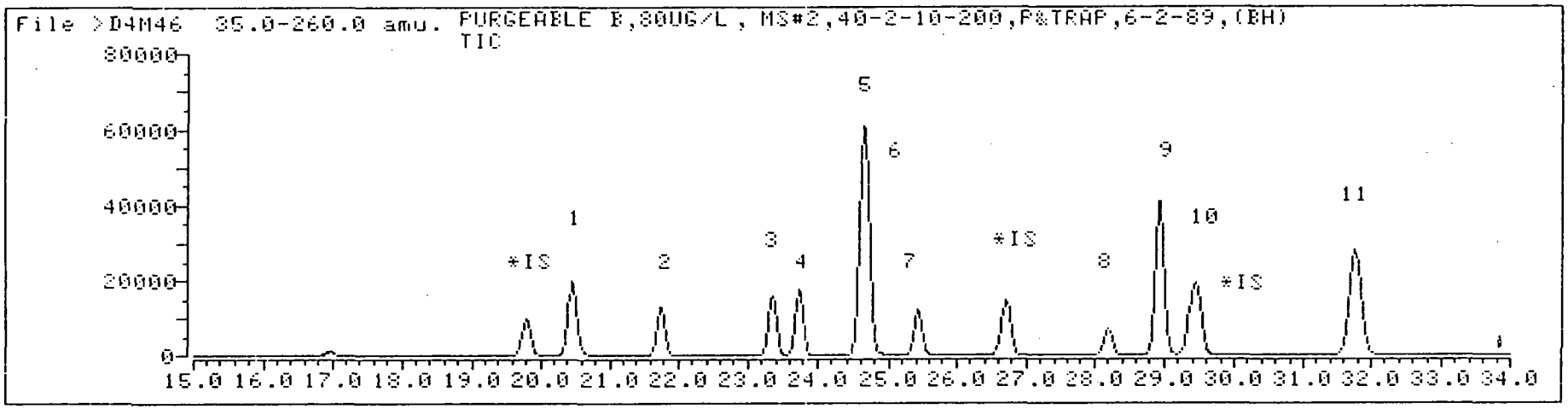
* THESE ARE INTERNAL STANDARDS.



SAMPLE ID = PURGEABLE A.

1- DICHLOROMETHANE
2- TRICHLOROFLUOROMETHANE
3- 1,1-DICHLOROETHENE
4- 1,1-DICHLOROETHANE
5- CHLOROFORM
6- CARBON TETRACHLORIDE
7- 1,2-DICHLOROPROPANE
8- TRICHLOROETHENE
9- 1,1,2-TRICHLOROETHANE & 2-CHLOROETHYL VINYL ETHER
10- DIBROMOCHLOROMETHANE
11- TETRACHLOROETHENE
12- CHLOROBENZENE

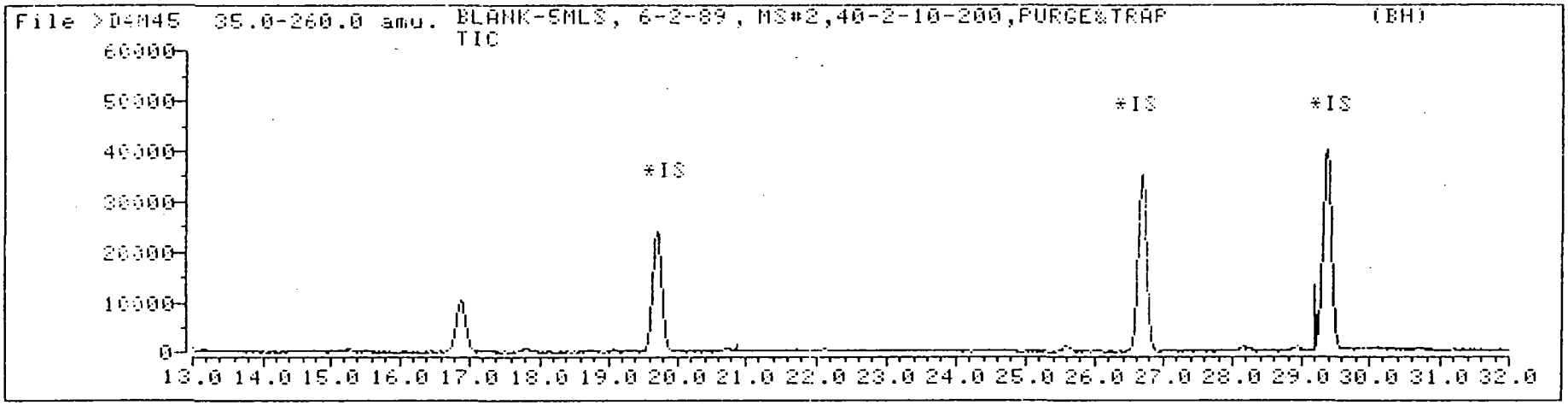
*THESE ARE INTERNAL STANDARDS.



SAMPLE ID = PURGEABLE B.

1- 1,2-DICHLOROETHENE
2- 1,2-DICHLOROETHANE
3- 1,1,1-TRICHLOROETHANE
4- BROMODICHLOROMETHANE
5- TRANS-1,3-DICHLOROPROPENE
6- BENZENE
7- CIS-1,3-DICHLOROPROPENE
8- BROMOFORM
9- TOLUENE
10- 1,1,2,2-TETRACHLOROETHANE
11- ETHYLBENZENE
* THESE ARE INTERNAL STANDARDS.

Kim Le



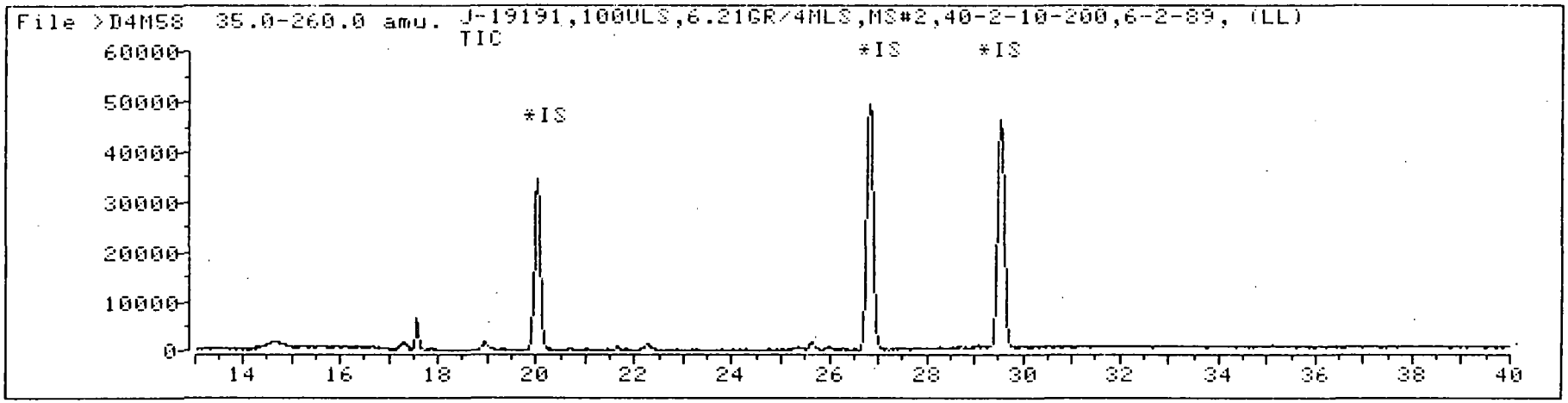
SAMPLE ID = BLANK

RESULTS

PRIORITY POLLUTANT VOLATILE ORGANICS	NOT	FOUND	<5 UG/L

* THESE ARE INTERNAL STANDARDS.

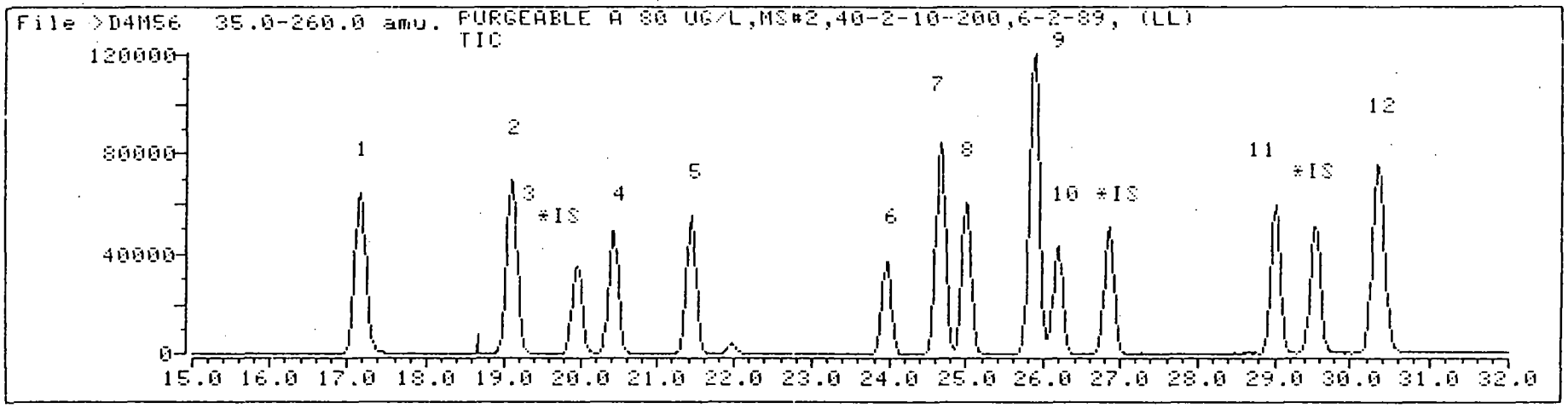
Tim Le



SAMPLE ID = J-19191, 9808-28
RESULTS

PRIORITY POLLUTANT VOLATILE ORGANICS NOT FOUND <0.02 MG/KG

* THESE ARE INTERNAL STANDARDS.



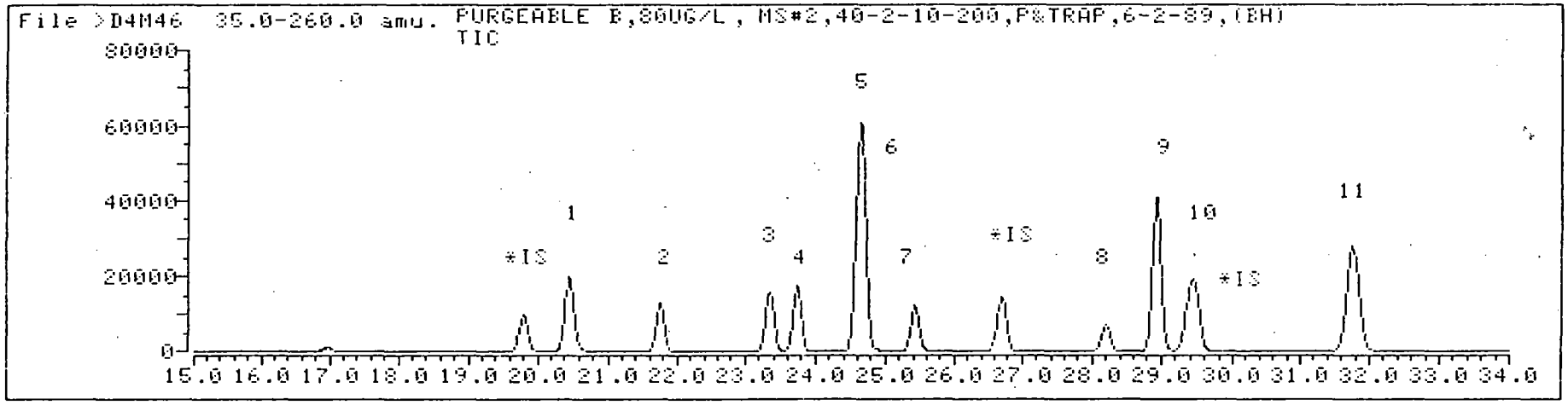
SAMPLE ID = PURGEABLE A.

1- DICHLOROMETHANE
2- TRICHLOROFLUOROMETHANE
3- 1,1-DICHLOROETHENE
4- 1,1-DICHLOROETHANE
5- CHLOROFORM
6- CARBON TETRACHLORIDE

*THESE ARE INTERNAL STANDARDS.

7- 1,2-DICHLOROPROPANE
8- TRICHLOROETHENE
9- 1,1,2-TRICHLOROETHANE & 2-CHLOROETHYL VINYL ETHER
10- DIBROMOCHLOROMETHANE
11- TETRACHLOROETHENE
12- CHLOROBENZENE

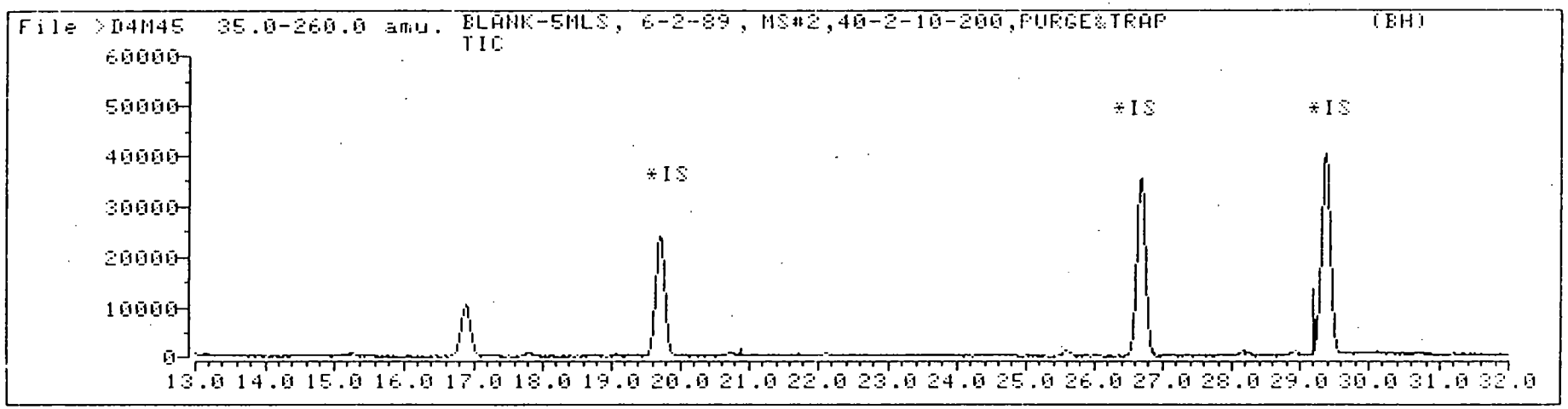
Tom Le



SAMPLE ID = PURGEABLE B.

1- 1,2-DICHLOROETHENE
2- 1,2-DICHLOROETHANE
3- 1,1,1-TRICHLOROETHANE
4- BROMODICHLOROMETHANE
5- TRANS-1,3-DICHLOROPROPENE
6- BENZENE
7- CIS-1,3-DICHLOROPROPENE
8- BROMOFORM
9- TOLUENE
10- 1,1,2,2-TETRACHLOROETHANE
11- ETHYLBENZENE
* THESE ARE INTERNAL STANDARDS.

Dim Le

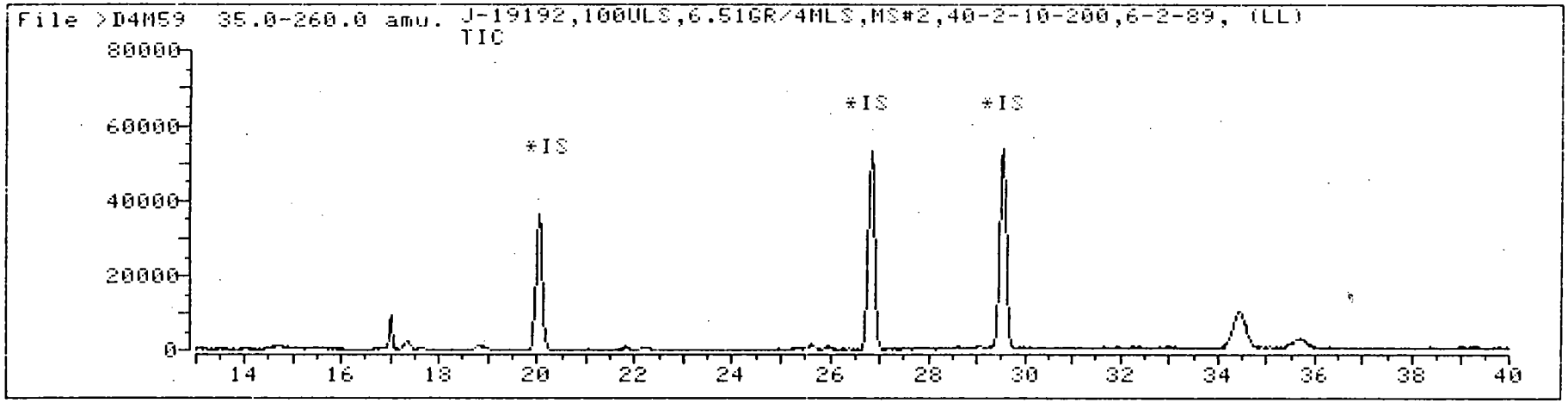


SAMPLE ID = BLANK

RESULTS

PRIORITY POLLUTANT VOLATILE ORGANICS NOT FOUND <5 UG/L

* THESE ARE INTERNAL STANDARDS.



SAMPLE ID = J-19192, 9808-29
RESULTS

PRIORITY POLLUTANT VOLATILE ORGANICS	NOT	FOUND	<0.02	MG/KG
OTHER COMPOUND FOUND:				
1. BICYCLO[3.1.0]HEXANE, 4-METHYL-1-(1-METHYLETHYL)-DIDEHYDRO DERIV.	34.44	MINS	0.77	MG/KG

* THESE ARE INTERNAL STANDARDS.

M.B.A. Labs J-19266-00

PETERSON - RIEDEL WASTE ANALYSIS SUMMARY

9808 HARDY RD
CWM PROFILE: J36149

Waste Name: Comp. #5

TDWR CODE NUMBER:
DATE SAMPLED: 5-29-89
DATE ANALYSIS COMPLETED: 6-20-89
WASTE FORM (LIQ,DRY S, WET S): Liq.

*RCRA HAZARDOUS (Y/N):
TDWR CI NON-HAZ (Y/N):
TDWR CII NON-HAZ (Y/N):
TDWR CIII NON-HAZ (Y/N):

*If yes indicate why (i,e, I,C,R,T)

SECTION I
****

100% CONSTITUENT ANALYSIS

COMPONENT	WEIGHT
% WATER (XX.YY):	
ORGANICS	
% LIQUID ORGANICS (XX.YY):	50%
% SOLID ORGANICS (XX.YY):	50%
INORGANICS	
% ASH (XX.YY):	
TOTAL (100 ± 2% MAX) =	

MAJOR COMPONENT CHEMICAL NAMES
(i.e. If GT 0.1%)

ORGANICS
*n-nitroso diphenyl amine - 55.4%
4-Cloro-s- (Phenory methyl)
Phenol -44.6%

ORGANICS

INORGANICS

PCB's - <1.0 mg/kg

*Priority pollutant - Carcinogen

SECTION II
****

RCRA CHARACTERISTICS DATA

CHARACTERISTIC	VALUE	HAZARDOUS LIMIT
IGNITABILITY		
F.P. °F	>140	140° F Closed Cup
CORROSIVITY		
pH	6.1	LT 2.0 or GT 12.5
CORROSION RATE		LT 6.35 MM/YR
REACTIVITY (Y/N)	N	chemist'S JUDGEMENT
TOTAL METALS		
As	<1.0 mg/kg	
Ba	<1.0 mg/kg	
Cd	<1.0 mg/kg	
Cr	<1.0 mg/kg	
Pb	8.0 mg/kg	D008
Hg	<1.0 mg/kg	
Se	<1.0 mg/kg	
Ag	<1.0 mg/kg	
ENDRIN		
LINDANE		
METHOXYCHLOR		
TOXAPHENE		
2,4-D		
2,4,5-TP SILVEX		

RESTRICTED CHEMICALS

1. Acetaldehyde
2. Acetic Acid
3. Acetic Acid Anhydride
4. Acetone
5. Acetylene Tetrabromide
6. Amyl Acetate
7. Amyl Alcohol
8. Amyl Chloride
9. Aniline
10. Anisole
11. Aqua regia
12. Benzaldehyde
13. Benzene
14. Benzyl Chloride
15. Bromine
16. Bromobenzene
17. Butyl Acetate
18. Butyl Glycol
19. Butyric Acid
20. Calcium Sulfide
21. Carbon Disulfide
22. Carbon tetrachloride
23. Chloric Acid
24. Chlorine (Aqueous solution)
25. Chloroform
26. Chlorosulfonic Acid
27. Chromic Acid
28. Cresylic Acid
29. Decahydronapthalene
30. Dibenzyl ether
31. Dibutyl ether
32. Dibutyl phthalate
33. Dichlorobenzene
34. Dichloroethane
35. Diesel Oil
36. Diethylene glycol monobutyl ether
37. Diethylene
38. Diisobutyl ketone
39. Dioctyl phthalate
40. Ethanol
41. Ethyl Acetate
42. Ethyl Benzene
43. Ethyl Chloride
44. Ethyl Ether
45. Ethylene Chloride
46. Ethylene diechloride
47. Ethylene glycol monoethyl ether
48. Ethylene trichloride
49. Fluoroboric Acid
50. Furfuryl alcohol
51. Gasoline
52. Glacial acetic acid
53. Halothane
54. Heptane
55. Hexane
56. Hydrofluoric Acid
57. Hydrogen peroxide
58. Isooctane
59. Isopropyl ether
60. Methyl Butanol
61. Methyl ethyl ketone
62. Methylene chloride
63. Naptha
64. Napthalene
65. Nitric Acid
66. Octyl Cresol
67. Oleic acid
68. Orthophosphoric Acid
69. Perchloric acid
70. Perchloroethylen
71. Phosphorous trichloride
72. Potassium Hypochloride
73. Propionic Acid
74. Pseudocumene
75. Pyridine
76. Sulfur Trioxide
77. Sulfuric Acid
78. Tetrachloroethane
79. Tetrahydrofuran
80. Thiophene
81. Toluene
82. Triethylamine
83. Turpentine Oil
84. Xylene

I CERTIFY AND WARRANT THAT THE Comp 5-9-19266 00 DOES/DOES NOT CONTAIN ANY OF THE ABOVE NOTED RESTRICTED CHEMICALS IN CONCENTRATIONS GREATER THAN OR EQUAL TO 5% BY WEIGHT EITHER INDIVIDUALLY OR IN ANY COMBINATION.

SIGNATURE H. J. Krause

TITLE Lab Dir DATE 6/20/89

M.B.A. LABS

MICROBIOLOGICAL AND BIOCHEMICAL ASSAY LABORATORIES

P.O. BOX 9461 340 S. 66th STREET HOUSTON, TEXAS 77261

TELEPHONE NO. (713) 928-2701

SAMPLE SUBMITTED BY: Peterson - Riedel

DATE RECEIVED: 6-5-1989

DATE COMPLETED: 6-20-1989

LABORATORY REPORT NUMBER: J-19266-00

SAMPLE IDENTIFICATION: Composite #5

RESULTS

PARAMETER	METHOD #	DATE	TIME	ANALYST	RESULTS
Flash Point	SW 846 Method 1010	6-8-89	6:00	D.H.	>140°F
PCB's	EPA 608	6-12-89	1:00	D.H.	<1 ppm
pH	EPA 150.1	7-5-89	11:00	H.E.	6.1

REPORTED BY _____

M.B.A. LABS

MICROBIOLOGICAL AND BIOCHEMICAL ASSAY LABORATORIES

P.O. BOX 9461 340 S. 66th STREET HOUSTON, TEXAS 77261
TELEPHONE NO. (713) 928-2701

SAMPLE SUBMITTED BY: Peterson - Riedel

DATE RECEIVED: 6-5-1989

DATE COMPLETED: 6-20-1989

LABORATORY REPORT NUMBER: J-19266

SAMPLE IDENTIFICATION: Composite #5

COMMON NAME	SUPERFUND LIST (TCL)
ORGANICS	
acenaphthene	<0.1%
acenaphthylene	<0.1%
acetone	<0.02 mg/kg
aldrin	<0.1%
anthracene	<0.1%
Aroclor 1016	<1 mg/kg
Aroclor 1221	<1 mg/kg
Aroclor1232	<1 mg/kg
Aroclor 1242	<1 mg/kg
Aroclor 1248	<1 mg/kg
Aroclor 1254	<1 mg/kg
Aroclor 1260	<1 mg/kg
benzene	<0.02 mg/kg
benz(a)anthracene	<0.1%
benzo(b)fluoranthene	<0.1%
benzo(k)fluoranthene	<0.1%
benzoic acid	<0.1%
benzo(ghi)perylene	<0.1%
benzo(a)pyrene	<0.1%
benzyl alcohol	<0.1%

Joe Krenz

COMMON NAME	
ORGANICS (CONTINUED)	
alpha-BHC	<0.1%
beta-BHC	<0.1%
delta-BHC	<0.1%
gamma-BHC	<0.1%
bis(2-chloroethoxy)methane	<0.1%
bis(2-chloroethyl)ether	<0.1%
bis(2-chloroisopropyl)ether	<0.1%
bis(2-ethylhexyl)phthalate	<0.1%
bromodichloromethane	<0.02 mg/kg
bromomethane	<0.04 mg/kg
4-bromophenyl phenyl ether	<0.1%
butyl benzyl phthalate	<0.1%
carbon disulfide	<0.02 mg/kg
carbon tetrachloride	<0.02 mg/kg
chlordane	<0.1%
p-chloroaniline	<0.1%
chlorobenzene	<0.02 mg/kg
p-chloro-m-cresol	<0.1%
chlorodibromomethane	<0.02 mg/kg
chloroethane	<0.04 mg/kg
chloroform	<0.02 mg/kg
chloromethane	<0.04 mg/kg

Joe Krem

COMMON NAME	
ORGANICS (CONTINUED)	
2-chloronaphthalene	<0.1%
2-chlorophenol	<0.1%
4-chlorophenyl phenyl ether	<0.1%
chrysene	<0.1%
ortho-cresol	<0.1%
para-cresol	<0.1%
4,4'DDD	<0.1%
4,4'DDE	<0.1%
4,4'DDT	<0.1%
dibenzo(a,h)anthracene	<0.1%
dibenzofuran	<0.1%
di-n-butyl phthalate	<0.1%
m-dichlorobenzene	<0.1%
o-dichlorobenzene	<0.1%
p-dichlorobenzene	<0.1%
3,3'-dichlorobenzidine	<0.1%
1,1-dichloroethane	<0.02 mg/kg
1,2-dichloroethane	<0.02 mg/kg
1,1-dichloroethylene	<0.02 mg/kg
trans-1,2-dichloroethylene	<0.02 mg/kg
dichloromethane	<0.02 mg/kg

Joe Krem

COMMON NAME	
ORGANICS (CONTINUED)	
2,4-dichlorophenol	<0.1%
1,2-dichloropropane	<0.02 mg/kg
cis-1,3-dichloropropene	<0.02 mg/kg
trans-1,3-dichloropropene	<0.02 mg/kg
dieldrin	<0.1%
diethyl phthalate	<0.1%
2,4-dimethylphenol	<0.1%
dimethyl phthalate	<0.1%
4,6-dinitro-o-cresol	<0.1%
2,4-dinitrophenol	<0.1%
2,4-dinitrotoluene	<0.1%
2,6-dinitrotoluene	<0.1%
di-n-octyl phthalate	<0.1%
di-n-propylnitrosamine	<0.1%
endosulfan sulfate	<0.1%
endosulfan I (alpha)	<0.1%
endosulfan II (beta)	<0.1%
endrin	<0.1%
endrin ketone	<0.1%
ethyl benzene	<0.02 mg/kg
fluoranthene	<0.1%
fluorene	<0.1%
heptachlor	<0.1%
heptachlor epoxide	<0.1%
hexachlorobenzene	<0.1%
hexachlorobutadiene	<0.1%

J. Krem

COMMON NAME	
ORGANICS (CONTINUED)	
hexachlorocyclopentadiene	<0.1%
hexachloroethane	<0.1%
2-hexanone	<0.02 mg/kg
indeno(1,2,3-cd)pyrene	<0.1%
isophorone	<0.1%
methoxychlor	<0.1%
methyl ethyl ketone	<0.02 mg/kg
2-methylnaphthalene	<0.1%
4-methyl-2-pentanone	<0.02 mg/kg
naphthalene	<0.1%
m-nitroaniline	<0.1%
o-nitroaniline	<0.1%
p-nitroaniline	<0.1%
nitrobenzene	<0.1%
2-nitrophenol	<0.1%
4-nitrophenol	<0.1%
N-nitrosodiphenylamine	<0.1%
pentachlorophenol	55.4%
phenanthrene	<0.1%
phenol	<0.1%
pyrene	<0.1%
styrene	<0.1%
1,1,2,2-tetrachloroethane	<0.02 mg/kg

Jo Kreme

COMMON NAME	
ORGANICS (CONTINUED)	
tetrachloroethylene	<0.02 mg/kg
toluene	<0.02 mg/kg
toxaphene	<0.1%
tribromomethane	<0.02 mg/kg
1,2,4-trichlorobenzene	<0.1%
1,1,1-trichloroethane	<0.02 mg/kg
1,1,2-trichloroethane	<0.02 mg/kg
trichloroethylene	<0.02 mg/kg
2,4,5-trichlorophenol	<0.1%
2,4,6-trichlorophenol	<0.1%
vinyl acetate	<0.02 mg/kg
vinyl chloride	<0.04 mg/kg
total xylenes	<0.04 mg/kg

Jo Kerr

COMMON NAME	
METALS	
aluminum	<1 mg/kg
antimony	<1 mg/kg
arsenic	<1 mg/kg
barium	<1 mg/kg
beryllium	<1 mg/kg
cadmium	<1 mg/kg
calcium	36.9 mg/kg
chromium	<1 mg/kg
cobalt	<1 mg/kg
copper	<1 mg/kg
iron	28.9 mg/kg
lead	8.0 mg/kg
magnesium	19.3 mg/kg
manganese	<1 mg/kg
mercury	<.1 mg/kg
nickel	<1 mg/kg
potassium	72.3 mg/kg
selenium	<1 mg/kg
silver	<1 mg/kg
sodium	177 mg/kg
thallium	<1 mg/kg
tin	<1 mg/kg
zinc	80.3 mg/kg
MISCELLANEOUS	
cyanide	
phenols	
sulfide	

Joe Krenc

M.B.A. Labs J-19270

PETERSON - RIEDEL WASTE ANALYSIS SUMMARY 9808 HARDY Rd CLNM PROFILE J36149

Waste Name: Comp. #9 (1 GAL CAN)

TDWR CODE NUMBER:
DATE SAMPLED: 5-29-89
DATE ANALYSIS COMPLETED: 6-20-89
WASTE FORM (LIQ,DRY S, WET S): Liq.

*RCRA HAZARDOUS (Y/N): NO
TDWR CI NON-HAZ (Y/N):
TDWR CII NON-HAZ (Y/N):
TDWR CIII NON-HAZ (Y/N):

*If yes indicate why (i,e, I,C,R,T)

ECTION I
****

100% CONSTITUENT ANALYSIS

COMPONENT	WEIGHT
% WATER (XX.YY):	0.5%
RGANICS	
% LIQUID ORGANICS (XX.YY):	99.5%
% SOLID ORGANICS (XX.YY):	
NORGANICS	
% ASH (XX.YY):	
OTAL (100 ± 2% MAX) =	

MAJOR COMPONENT CHEMICAL NAMES (i.e. If GT 0.1%)

ORGANICS	ORGANICS
2-Butenedioic acid, diethyl ester -	99.5%
	INORGANICS
PCB's - <1.0 mg/kg	

ECTION II
****

RCRA CHARACTERISTICS DATA

CHARACTERISTIC	VALUE	HAZARDOUS LIMIT
IGNITABILITY		
F.P. °F	>140	140° F Closed Cup
CORROSIVITY		
pH	3.8	LT 2.0 or GT 12.5
CORROSION RATE		LT 6.35 MM/YR
REACTIVITY (Y/N)	N	chemist'S JUDGEMENT
TOTAL METALS		
As	<1.0 mg/kg	
Ba	<1.0 mg/kg	
Cd	<1.0 mg/kg	
Cr	<1.0 mg/kg	
Pb	<1.0 mg/kg	
Hg	<0.1 mg/kg	
Se	<1.0 mg/kg	
Ag	<1.0 mg/kg	
ENDRIN		
LINDANE		
METHOXYCHLOR		
TOXAPHENE		
2,4-D		
2,4,5-TP SILVEX		

RESTRICTED CHEMICALS

1. Acetaldehyde
2. Acetic Acid
3. Acetic Acid Anhydride
4. Acetone
5. Acetylene Tetrabromide
6. Amyl Acetate
7. Amyl Alcohol
8. Amyl Chloride
9. Aniline
10. Anisole
11. Aqua regia
12. Benzaldehyde
13. Benzene
14. Benzyl Chloride
15. Bromine
16. Bromobenzene
17. Butyl Acetate
18. Butyl Glycol
19. Butyric Acid
20. Calcium Sulfide
21. Carbon Disulfide
22. Carbon tetrachloride
23. Chloric Acid
24. Chlorine (Aqueous solution)
25. Chloroform
26. Chlorosulfonic Acid
27. Chromic Acid
28. Cresylic Acid
29. Decahydronapthalene
30. Dibenzyl ether
31. Dibutyl ether
32. Dibutyl phthalate
33. Dichlorobenzene
34. Dichloroethane
35. Diesel Oil
36. Diethylene glycol monobutyl ether
37. Diethylene
38. Diisobutyl ketone
39. Dioctyl phthalate
40. Ethanol
41. Ethyl Acetate
42. Ethyl Benzene
43. Ethyl Chloride
44. Ethyl Ether
45. Ethylene Chloride
46. Ethylene diechloride
47. Ethylene glycol monoethyl ether
48. Ethylene trichloride
49. Fluoroboric Acid
50. Furfuryl alcohol
51. Gasoline
52. Glacial acetic acid
53. Halothane
54. Heptane
55. Hexane
56. Hydrofluoric Acid
57. Hydrogen peroxide
58. Isooctane
59. Isopropyl ether
60. Methyl Butanol
61. Methyl ethyl ketone
62. Methylene chloride
63. Naptha
64. Napthalene
65. Nitric Acid
66. Octyl Cresol
67. Oleic acid
68. Orthophosphoric Acid
69. Perchloric acid
70. Perchloroethylen
71. Phosphorous trichloride
72. Potassium Hypochloride
73. Propionic Acid
74. Pseudocumene
75. Pyridine
76. Sulfur Trioxide
77. Sulfuric Acid
78. Tetrachloroethane
79. Tetrahydrofuran
80. Thiophene
81. Toluene
82. Triethylamine
83. Turpentine Oil
84. Xylene

I CERTIFY AND WARRANT THAT THE Comp 9, J. 19270 DOES/DOES NOT CONTAIN ANY OF THE ABOVE NOTED RESTRICTED CHEMICALS IN CONCENTRATIONS GREATER THAN OR EQUAL TO 5% BY WEIGHT EITHER INDIVIDUALLY OR IN ANY COMBINATION.

SIGNATURE W. J. Krause

TITLE Lab Dir DATE 6/20/89

M.B.A. LABS

MICROBIOLOGICAL AND BIOCHEMICAL ASSAY LABORATORIES

P.O. BOX 9461 340 S. 66th STREET HOUSTON, TEXAS 77261
TELEPHONE NO. (713) 928-2701

SAMPLE SUBMITTED BY: Peterson - Riedel

DATE RECEIVED: 6-5-1989

DATE COMPLETED: 6-20-89

LABORATORY REPORT NUMBER: J-19270-00

SAMPLE IDENTIFICATION: Composite #9

RESULTS

PARAMETER	METHOD #	DATE	TIME	ANALYST	RESULTS
Flash Point	SW 846	6-8-89	6:00	D.H.	>140°F
PCB's	EPA 608	6-12-89	1:30	D.H.	<1 ppm
pH	EPA 150.1	6-10-89	11:00	H.E.	3.8

REPORTED BY Joe Krenz

M.B.A. LABS

MICROBIOLOGICAL AND BIOCHEMICAL ASSAY LABORATORIES

P.O. BOX 9461 340 S. 66th STREET HOUSTON, TEXAS 77261
TELEPHONE NO. (713) 928-2701

SAMPLE SUBMITTED BY: Peterson - Riedel

DATE RECEIVED: 6-5-1989

DATE COMPLETED: 6-20-1989

LABORATORY REPORT NUMBER: J-19270

SAMPLE IDENTIFICATION: Composite #9

COMMON NAME	SUPERFUND LIST (TCL)
ORGANICS	
acenaphthene	<0.1%
acenaphthylene	<0.1%
acetone	0.04% *
aldrin	<0.1%
anthracene	<0.1%
Aroclor 1016	<1 mg/l
Aroclor 1221	<1 mg/l
Aroclor1232	<1 mg/l
Aroclor 1242	<1 mg/l
Aroclor 1248	<1 mg/l
Aroclor 1254	<1 mg/l
Aroclor 1260	<1 mg/l
benzene	<0.1%
benz(a)anthracene	<0.1%
benzo(b)fluoranthene	<0.1%
benzo(k)fluoranthene	<0.1%
benzoic acid	<0.1%
benzo(ghi)perylene	<0.1%
benzo(a)pyrene	<0.1%
benzyl alcohol	<0.1%

* below detection

Jo Kreus

COMMON NAME	
ORGANICS (CONTINUED)	
alpha-BHC	<0.1%
beta-BHC	<0.1%
delta-BHC	<0.1%
gamma-BHC	<0.1%
bis(2-chloroethoxy)methane	<0.1%
bis(2-chloroethyl)ether	<0.1%
bis(2-chloroisopropyl)ether	<0.1%
bis(2-ethylhexyl)phthalate	<0.1%
bromodichloromethane	<0.1%
bromomethane	<0.1%
4-bromophenyl phenyl ether	<0.1%
butyl benzyl phthalate	<0.1%
carbon disulfide	<0.1%
carbon tetrachloride	<0.1%
chlordane	<0.1%
p-chloroaniline	<0.1%
chlorobenzene	<0.1%
p-chloro-m-cresol	<0.1%
chlorodibromomethane	<0.1%
chloroethane	<0.1%
chloroform	<0.1%
chloromethane	<0.1%

Jo Kiesu

COMMON NAME	
ORGANICS (CONTINUED)	
2-chloronaphthalene	<0.1%
2-chlorophenol	<0.1%
4-chlorophenyl phenyl ether	<0.1%
chrysene	<0.1%
ortho-cresol	<0.1%
para-cresol	<0.1%
4,4'DDD	<0.1%
4,4'DDE	<0.1%
4,4'DDT	<0.1%
dibenzo(a,h)anthracene	<0.1%
dibenzofuran	<0.1%
di-n-butyl phthalate	<0.1%
m-dichlorobenzene	<0.1%
o-dichlorobenzene	<0.1%
p-dichlorobenzene	<0.1%
3,3'-dichlorobenzidine	<0.1%
1,1-dichloroethane	<0.1%
1,2-dichloroethane	<0.1%
1,1-dichloroethylene	<0.1%
trans-1,2-dichloroethylene	<0.1%
dichloromethane	<0.1%

Joe Krenel

COMMON NAME	
ORGANICS (CONTINUED)	
2,4-dichlorophenol	<0.1%
1,2-dichloropropane	<0.1%
cis-1,3-dichloropropene	<0.1%
trans-1,3-dichloropropene	<0.1%
dieldrin	<0.1%
diethyl phthalate	<0.1%
2,4-dimethylphenol	<0.1%
dimethyl phthalate	<0.1%
4,6-dinitro-o-cresol	<0.1%
2,4-dinitrophenol	<0.1%
2,4-dinitrotoluene	<0.1%
2,6-dinitrotoluene	<0.1%
di-n-octyl phthalate	<0.1%
di-n-propylnitrosamine	<0.1%
endosulfan sulfate	<0.1%
endosulfan I (alpha)	<0.1%
endosulfan II (beta)	<0.1%
endrin	<0.1%
endrin ketone	<0.1%
ethyl benzene	<0.1%
fluoranthene	<0.1%
fluorene	<0.1%
heptachlor	<0.1%
heptachlor epoxide	<0.1%
hexachlorobenzene	<0.1%
hexachlorobutadiene	<0.1%

Jo Kremer

COMMON NAME	
ORGANICS (CONTINUED)	
hexachlorocyclopentadiene	<0.1%
hexachloroethane	<0.1%
2-hexanone	<0.1%
indeno(1,2,3-cd)pyrene	<0.1%
isophorone	<0.1%
methoxychlor	<0.1%
methyl ethyl ketone	<0.1%
2-methylnaphthalene	<0.1%
4-methyl-2-pentanone	<0.1%
naphthalene	<0.1%
m-nitroaniline	<0.1%
o-nitroaniline	<0.1%
p-nitroaniline	<0.1%
nitrobenzene	<0.1%
2-nitrophenol	<0.1%
4-nitrophenol	<0.1%
N-nitrosodiphenylamine	<0.1%
pentachlorophenol	<0.1%
phenanthrene	<0.1%
phenol	<0.1%
pyrene	<0.1%
styrene	<0.1%
1,1,2,2-tetrachloroethane	<0.1%

Joe Krem

COMMON NAME	
ORGANICS (CONTINUED)	
tetrachloroethylene	<0.1%
toluene	<0.1%
toxaphene	<0.1%
tribromomethane	<0.1%
1,2,4-trichlorobenzene	<0.1%
1,1,1-trichloroethane	<0.1%
1,1,2-trichloroethane	<0.1%
trichloroethylene	<0.1%
2,4,5-trichlorophenol	<0.1%
2,4,6-trichlorophenol	<0.1%
vinyl acetate	<0.1%
vinyl chloride	<0.1%
total xylenes	<0.1%

COMMON NAME	
METALS	
aluminum	3.3 mg/kg
antimony	<1 mg/kg
arsenic	<1 mg/kg
barium	<1 mg/kg
beryllium	<1 mg/kg
cadmium	3.9 mg/kg
calcium	<1 mg/kg
chromium	<1 mg/kg
cobalt	<1 mg/kg
copper	<1 mg/kg
iron	9.8 mg/kg
lead	<1 mg/kg
magnesium	2.3 mg/kg
manganese	<1 mg/kg
mercury	<.1 mg/kg
nickel	<1 mg/kg
potassium	4.9 mg/kg
selenium	<1 mg/kg
silver	<1 mg/kg
sodium	15.7 mg/kg
thallium	<1 mg/kg
tin	<1 mg/kg
zinc	3.3 mg/kg
MISCELLANEOUS	
cyanide	
phenols	
sulfide	

Jon Kern

M.B.A. Labs J-19265-00

PETERSON - RIEDEL WASTE ANALYSIS SUMMARY 9808 Hardy Rd
CWM PROFILE
J 36149

Waste Name: Comp. #4

TDWR CODE NUMBER:
DATE SAMPLED: 5-29-89
DATE ANALYSIS COMPLETED: 6-20-89
WASTE FORM (LIQ,DRY S, WET S): Liquid

*RCRA HAZARDOUS (Y/N):
TDWR CI NON-HAZ (Y/N):
TDWR CII NON-HAZ (Y/N):
TDWR CIII NON-HAZ (Y/N):

*If yes indicate why (i,e, I,C,R,T)

ECTION I
****

100% CONSTITUENT ANALYSIS

COMPONENT	WEIGHT
% WATER (XX.YY):	
RGANICS	
% LIQUID ORGANICS (XX.YY):	100%
% SOLID ORGANICS (XX.YY):	
NORGANICS	
% ASH (XX.YY):	
OTAL (100 ± 2% MAX) =	

MAJOR COMPONENT CHEMICAL NAMES
(i.e. If GT 0.1%)

ORGANICS	ORGANICS
Light Lube Oil - 50%	
Heavy Lube Oil - 50%	
	INORGANICS
PCB's - <1.0 mg/kg	

ECTION II
****

RCRA CHARACTERISTICS DATA

CHARACTERISTIC	VALUE	HAZARDOUS LIMIT
IGNITABILITY		
F.P. °F	>140	140° F Closed Cup
CORROSIVITY		
pH	6.7	LT 2.0 or GT 12.5
CORROSION RATE		LT 6.35 MM/YR
REACTIVITY (Y/N)		chemist'S JUDGEMENT
TOTAL METALS		
As	<1.0 mg/kg	
Ba	<1.0 mg/kg	
Cd	<1.0 mg/kg	
Cr	<1.0 mg/kg	
Pb	8.5 mg/kg — D008	
Hg	0.22 mg/kg — D009	
Se	<1.0 mg/kg	
Ag	<1.0 mg/kg	
ENDRIN		
LINDANE		
METHOXYCHLOR		
TOXAPHENE		
2,4-D		
2,4,5-TP SILVEX		

RESTRICTED CHEMICALS

1. Acetaldehyde
2. Acetic Acid
3. Acetic Acid Anhydride
4. Acetone
5. Acetylene Tetrabromide
6. Amyl Acetate
7. Amyl Alcohol
8. Amyl Chloride
9. Aniline
10. Anisole
11. Aqua regia
12. Benzaldehyde
13. Benzene
14. Benzyl Chloride
15. Bromine
16. Bromobenzene
17. Butyl Acetate
18. Butyl Glycol
19. Butyric Acid
20. Calcium Sulfide
21. Carbon Disulfide
22. Carbon tetrachloride
23. Chloric Acid
24. Chlorine (Aqueous solution)
25. Chloroform
26. Chlorosulfonic Acid
27. Chromic Acid
28. Cresylic Acid
29. Decahydronapthalene
30. Dibenzyl ether
31. Dibutyl ether
32. Dibutyl phthalate
33. Dichlorobenzene
34. Dichloroethane
35. Diesel Oil
36. Diethylene glycol monobutyl ether
37. Diethylene
38. Diisobutyl ketone
39. Dioctyl phthalate
40. Ethanol
41. Ethyl Acetate
42. Ethyl Benzene
43. Ethyl Chloride
44. Ethyl Ether
45. Ethylene Chloride
46. Ethylene diechloride
47. Ethylene glycol monoethyl ether
48. Ethylene trichloride
49. Fluoroboric Acid
50. Furfuryl alcohol
51. Gasoline
52. Glacial acetic acid
53. Halothane
54. Heptane
55. Hexane
56. Hydrofluoric Acid
57. Hydrogen peroxide
58. Isooctane
59. Isopropyl ether
60. Methyl Butanol
61. Methyl ethyl ketone
62. Methylene chloride
63. Naptha
64. Napthalene
65. Nitric Acid
66. Octyl Cresol
67. Oleic acid
68. Orthophosphoric Acid
69. Perchloric acid
70. Perchloroethylen
71. Phosphorous trichloride
72. Potassium Hypochloride
73. Propionic Acid
74. Pseudocumene
75. Pyridine
76. Sulfur Trioxide
77. Sulfuric Acid
78. Tetrachloroethane
79. Tetrahydrofuran
80. Thiophene
81. Toluene
82. Triethylamine
83. Turpentine Oil
84. Xylene

I CERTIFY AND WARRANT THAT THE Comp 4-J. 19265-00 DOES/DOES NOT CONTAIN ANY OF THE ABOVE NOTED RESTRICTED CHEMICALS IN CONCENTRATIONS GREATER THAN OR EQUAL TO 5% BY WEIGHT EITHER INDIVIDUALLY OR IN ANY COMBINATION.

SIGNATURE H. J. Kreese

TITLE Gen Mgr DATE 6/20/89

M.B.A. LABS

MICROBIOLOGICAL AND BIOCHEMICAL ASSAY LABORATORIES

P.O. BOX 9461 340 S. 66th STREET HOUSTON, TEXAS 77261
TELEPHONE NO. (713) 928-2701

SAMPLE SUBMITTED BY: Peterson - Riedel

DATE RECEIVED: 6-5-1989

DATE COMPLETED: 6-20-1989

LABORATORY REPORT NUMBER: J-19265-00

SAMPLE IDENTIFICATION: Composite #4

RESULTS

PARAMETER	METHOD #	DATE	TIME	ANALYST	RESULTS
Flash Point	SW 846 Method 1010	6-8-89	4:00	B.L.	>140°F
PCB's	EPA 608	6-12-89	1:00	D.H.	<1 ppm
pH	EPA 150.1	6-10-89	11:00	H.E.	6.7

REPORTED BY _____

M.B.A. LABS

MICROBIOLOGICAL AND BIOCHEMICAL ASSAY LABORATORIES

P.O. BOX 9461 340 S. 66th STREET HOUSTON, TEXAS 77261
TELEPHONE NO. (713) 928-2701

SAMPLE SUBMITTED BY: Peterson - Riedel

DATE RECEIVED: 6-5-1989

DATE COMPLETED: 6-20-1989

LABORATORY REPORT NUMBER: J-19265

SAMPLE IDENTIFICATION: Composite #4

COMMON NAME	SUPERFUND LIST (TCL)
ORGANICS	
acenaphthene	<0.1%
acenaphthylene	<0.1%
acetone	<0.04%
aldrin	<0.1%
anthracene	<0.1%
Aroclor 1016	<1 mg/kg
Aroclor 1221	<1 mg/kg
Aroclor1232	<1 mg/kg
Aroclor 1242	<1 mg/kg
Aroclor 1248	<1 mg/kg
Aroclor 1254	<1 mg/kg
Aroclor 1260	<1 mg/kg
benzene	<0.04 mg/kg
benz(a)anthracene	<0.1%
benzo(b)fluoranthene	<0.1%
benzo(k)fluoranthene	<0.1%
benzoic acid	<0.1%
benzo(ghi)perylene	<0.1%
benzo(a)pyrene	<0.1%
benzyl alcohol	<0.1%

Joe Kraus

COMMON NAME	
ORGANICS (CONTINUED)	
alpha-BHC	<0.1%
beta-BHC	<0.1%
delta-BHC	<0.1%
gamma-BHC	<0.1%
bis(2-chloroethoxy)methane	<0.1%
bis(2-chloroethyl)ether	<0.1%
bis(2-chloroisopropyl)ether	<0.1%
bis(2-ethylhexyl)phthalate	<0.1%
bromodichloromethane	<0.04 mg/kg
bromomethane	<0.1 mg/kg
4-bromophenyl phenyl ether	<0.1%
butyl benzyl phthalate	<0.1%
carbon disulfide	<0.04 mg/kg
carbon tetrachloride	<0.04 mg/kg
chlordane	<0.1%
p-chloroaniline	<0.1%
chlorobenzene	<0.04 mg/kg
p-chloro-m-cresol	<0.1%
chlorodibromomethane	<0.04 mg/kg
chloroethane	<0.1 mg/kg
chloroform	<0.04 mg/kg
chloromethane	<0.1 mg/kg

Joe Kreno

COMMON NAME	
ORGANICS (CONTINUED)	
2-chloronaphthalene	<0.1%
2-chlorophenol	<0.1%
4-chlorophenyl phenyl ether	<0.1%
chrysene	<0.1%
ortho-cresol	<0.1%
para-cresol	<0.1%
4,4'DDD	<0.1%
4,4'DDE	<0.1%
4,4'DDT	<0.1%
dibenzo(a,h)anthracene	<0.1%
dibenzofuran	<0.1%
di-n-butyl phthalate	<0.1%
m-dichlorobenzene	<0.1%
o-dichlorobenzene	<0.1%
p-dichlorobenzene	<0.1%
3,3'-dichlorobenzidine	<0.1%
1,1-dichloroethane	<0.04 mg/kg
1,2-dichloroethane	<0.04 mg/kg
1,1-dichloroethylene	<0.04 mg/kg
trans-1,2-dichloroethylene	<0.04 mg/kg
dichloromethane	<0.04 mg/kg

Joe Kress

COMMON NAME	
ORGANICS (CONTINUED)	
2,4-dichlorophenol	<0.1%
1,2-dichloropropane	<0.04 mg/kg
cis-1,3-dichloropropene	<0.04 mg/kg
trans-1,3-dichloropropene	<0.04 mg/kg
dieldrin	<0.1%
diethyl phthalate	<0.1%
2,4-dimethylphenol	<0.1%
dimethyl phthalate	<0.1%
4,6-dinitro-o-cresol	<0.1%
2,4-dinitrophenol	<0.1%
2,4-dinitrotoluene	<0.1%
2,6-dinitrotoluene	<0.1%
di-n-octyl phthalate	<0.1%
di-n-propylnitrosamine	<0.1%
endosulfan sulfate	<0.1%
endosulfan I (alpha)	<0.1%
endosulfan II (beta)	<0.1%
endrin	<0.1%
endrin ketone	<0.1%
ethyl benzene	<0.04 mg/kg
fluoranthene	<0.1%
fluorene	<0.1%
heptachlor	<0.1%
heptachlor epoxide	<0.1%
hexachlorobenzene	<0.1%
hexachlorobutadiene	<0.1%

Jo Kern

COMMON NAME	
ORGANICS (CONTINUED)	
hexachlorocyclopentadiene	<0.1%
hexachloroethane	<0.1%
2-hexanone	<0.04 mg/kg
indeno(1,2,3-cd)pyrene	<0.1%
isophorone	<0.1%
methoxychlor	<0.1%
methyl ethyl ketone	<0.04 mg/kg
2-methylnaphthalene	<0.1%
4-methyl-2-pentanone	<0.04 mg/kg
naphthalene	<0.1%
m-nitroaniline	<0.1%
o-nitroaniline	<0.1%
p-nitroaniline	<0.1%
nitrobenzene	<0.1%
2-nitrophenol	<0.1%
4-nitrophenol	<0.1%
N-nitrosodiphenylamine	<0.1%
pentachlorophenol	<0.1%
phenanthrene	<0.1%
phenol	<0.1%
pyrene	<0.1%
styrene	<0.1%
1,1,2,2-tetrachloroethane	<0.04 mg/kg

COMMON NAME	
ORGANICS (CONTINUED)	
tetrachloroethylene	<0.04 mg/kg
toluene	<0.04 mg/kg
toxaphene	<0.1%
tribromomethane	<0.04 mg/kg
1,2,4-trichlorobenzene	<0.1%
1,1,1-trichloroethane	<0.04 mg/kg
1,1,2-trichloroethane	<0.04 mg/kg
trichloroethylene	<0.04 mg/kg
2,4,5-trichlorophenol	<0.1%
2,4,6-trichlorophenol	<0.1%
vinyl acetate	<0.04 mg/kg
vinyl chloride	<0.08 mg/kg
total xylenes	<0.08 mg/kg

Jo Krezy

COMMON NAME	
METALS	
aluminum	7.0 mg/kg
antimony	<1 mg/kg
arsenic	<1 mg/kg
barium	<1 mg/kg
beryllium	<1 mg/kg
cadmium	<1 mg/kg
calcium	19.7 mg/kg
chromium	<1 mg/kg
cobalt	<1 mg/kg
copper	<1 mg/kg
iron	20.6 mg/kg
lead	8.5 mg/kg
magnesium	<1 mg/kg
manganese	<1 mg/kg
mercury	.22 mg/kg
nickel	<1 mg/kg
potassium	63.5 mg/kg
selenium	<1 mg/kg
silver	<1 mg/kg
sodium	244 mg/kg
thallium	<1 mg/kg
tin	<1 mg/kg
zinc	<1 mg/kg
MISCELLANEOUS	
cyanide	
phenols	
sulfide	

Joe Krema

9808
HARDY ROAD
CWM PROFILE
J-36149

M.B.A. LABS

MICROBIOLOGICAL AND BIOCHEMICAL ASSAY LABORATORIES

P.O. BOX 9461 340 S. 66th STREET HOUSTON, TEXAS 77261
TELEPHONE NO. (713) 928-2701

SAMPLE SUBMITTED BY: Riedel Peterson

DATE RECEIVED: 1-4-1990

DATE COMPLETED: 1-29-1990

LABORATORY REPORT NUMBER: J-23950-00

SAMPLE IDENTIFICATION: Hardy 9808-1-3-90

RESULTS

Sample does contain compounds reported for Composite 4,5, and 9

CONFIRMATION TESTING

REPORTED BY Joe Kuerl

M.B.A LABS

MICROBIOLOGICAL AND BIOCHEMICAL ASSAY

LABORATORIES

P.O.BOX 9461
HOUSTON,TEXAS 77261

340 S.66 TH STREET
TEL (713) 928-2701

SAMPLE SUBMITTED BY:	RIEDEL - PETERSON
DATE RECEIVED:	1-4-90
DATE COMPLETED:	1-24-90
LABORATORY REPORT NUMBER:	J-23950
SAMPLE IDENTIFICATION:	HARDY 9808/1-3-90

THE SAMPLES WERE ANALYZED BY GAS CHROMATOGRAPHY/MASS SPECTROMETRY USING HEWLETT-PACKARD MODEL # 5970 & 5985 GC/MS SYSTEMS.

THE SAMPLES WERE PREPARED FOR ANALYSIS ACCORDING TO THE METHODS DESCRIBED IN:

40 CFR PART 136, FEDERAL REGISTER, FRIDAY, OCTOBER 26, 1984 ENVIRONMENTAL PROTECTION AGENCY, PART VIII.

1. VOA'S METHOD 624
2. BASE-NEUTRAL METHOD 625

THE SAMPLES WERE ANALYZED FOR THE FOLLOWING COMPOUNDS:

GC/MS SCAN

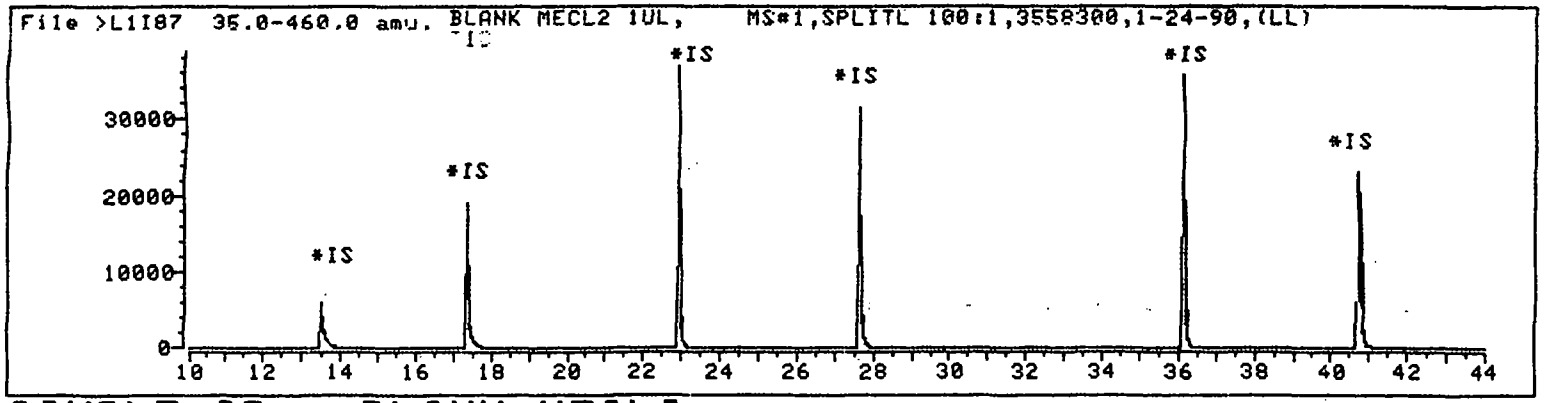
Ben Vaseanier

THE GC/MS PARAMETERS WERE AS FOLLOWS:

COLUMN	25 METER FUSED SILICA CAPILLARY COATED WITH SE-30
CARRIER GAS	HELIUM @ 30 CM/SEC(0.9 ML/MIN)

INJECTOR TEMP	270 DEGREES
COLUMN TEMP	5 MINUTES @ 35 DEGREES, THEN 8 DEGREES PER MINUTE TO 300 DEGREES, HOLD AT 300 DEGREES.
INJECTION MODE	SPLIT
SPLIT RATIO	100:1
GC/MS INTERFACE	DIRECT
IONIZATION MODE	ELECTRON IMPACT
ELECTRON ENERGY	70 V
MASS RANGE SCAN	35 TO 460 AMU
SCAN TIME	0.4 SEC

COPIES OF THE TOTAL ION CHROMATOGRAMS ARE INCLUDED WITH THIS REPORT. ALL GC/MS DATA IS PERMANENTLY STORED AT MBA LABORATORIES ON MAGNETIC MEDIA.

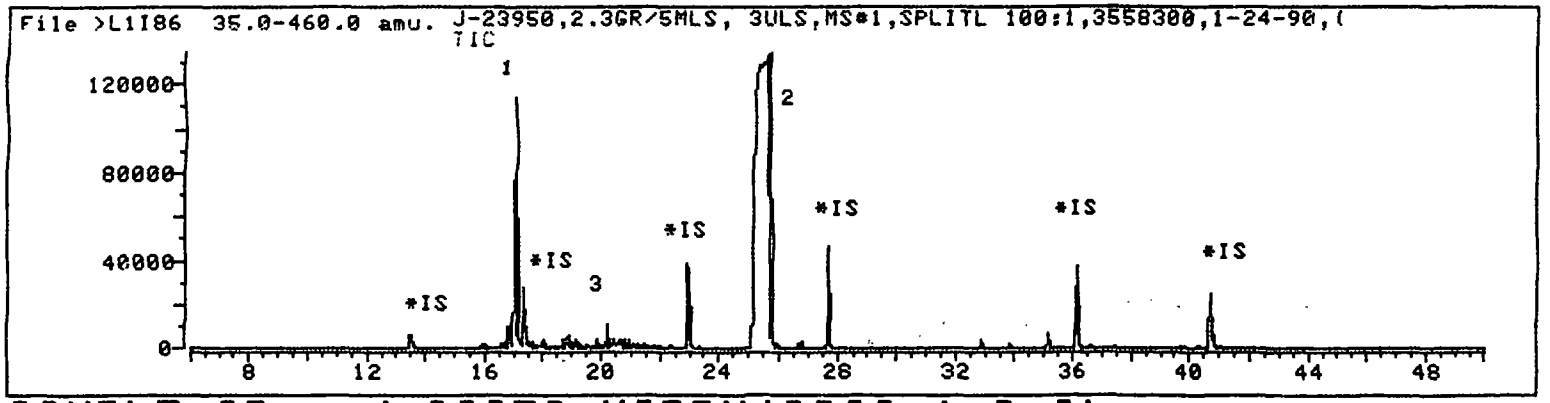


SAMPLE ID = BLANK-MECL2.

RESULTS

1. BNA'S EXTRACTALBLE ORGNICS(P.P)	NOT	FOUND	<100	MG/KG

*THESE ARE INTERNAL STANDARDS.



SAMPLE ID = J-23950,HARDY(9808-1-3-9)

RESULTS

1. BUTENEDIOIC ACID DIETHYL ESTER	17.10	MINS	5353	MG/KG
2. N-NITROSO DIPHENYL AMINE	25.30	MINS	9834	MG/KG
3. ALIPHATIC HYDROCARBONS	16-22	MINS	1607	MG/KG

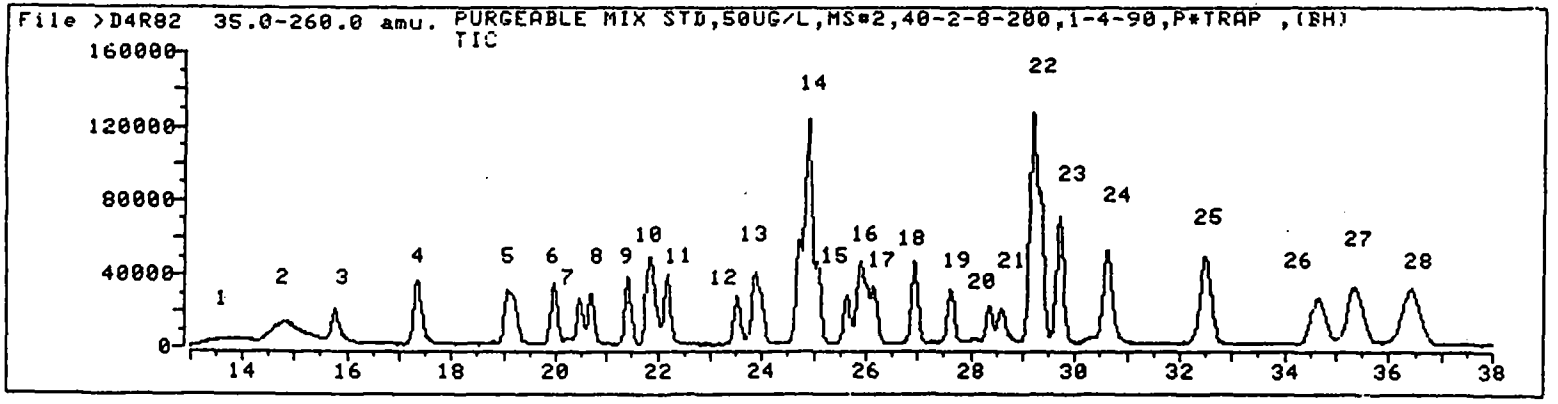
*THESE ARE INTERNAL STANDARDS.

THE GC/MS PARAMETERS WERE AS FOLLOWS

PURGE GAS	HELIUM @ 20 MLS/MIN
PURGE TIME	12 MINUTES
PURGE TIME	12 MINUTES
DESORB TIME	04 MINUTES
DESORB TEMP	180 DEGREES
COLUMN	3% SP-1500 ON CARBOPACK B, 80/120 MESH 1/4 INCH X 6 FEED ,PYREX
CARRIER GAS	HELIUM @ 20 CM/SEC (0.9 ML/MIN)
INJECTION TEMP	180 DEGREES
	40 DEGREES FOR 2 MINS, THEN 10 DEGREES PER MINUTES TO 200 DEGREES, HOLD 15 MINS
GC/MS INTERFACE	MOLECULLAR JET SEPARATOR
MASS RANGE	35 TO 260
SCAN TIME	0.9 SEC
IONIZATION MODE	ELECTRON IMPACT
ELECTRON ENERGY	70 V

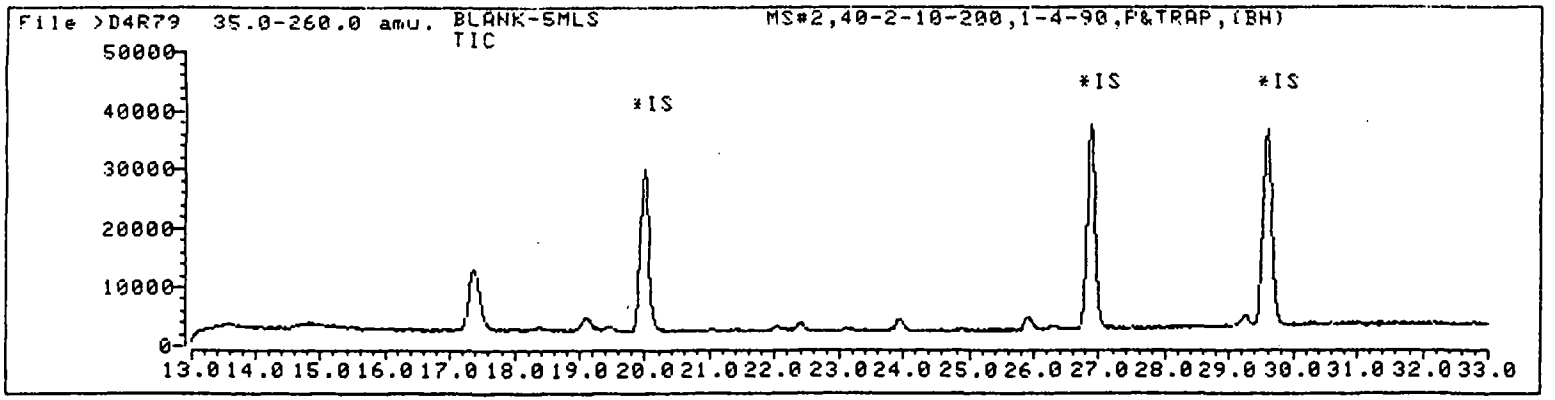
COPIES OF THE TOTAL ION CHROMATOGRAMS ARE INCLUDED WITH THIS REPORT. ALL GC/
DATA IS PERMANENTLY STORED AT MBA LABORATORIES ON MAGNETIC TAPE.

Ben Chassamian



SAMPLE ID = PURGEABLES STANDARD MIX (A+B+C+HSL)

1. CHLOROMETHANE
2. BROMOMETHANE
   & VINYL CHLORIDE
3. CHLOROETHANE
4. DICHLOROMETHANE
   & ACETONE
5. 1,1-DICHLOROETHENE
   & CARBON DISULFIDE
   & TRICHLOROFLUOROMETHANE
6. BROMOCHLOROMETHANE (INTERNAL STANDARD)
7. 1,1-DICHLOROETHANE
8. 1,2-DICHLOROETHENE
9. CHLOROFORM
   & 2-BUTANONE (METHYL ETHYL KETONE, MEK)
10. 1,2-DICHLOROETHANE
    & 1,2-DICHLOROETHANE-D4 (SURROGATE STANDARD)
11. VINYL ACETATE (ACETIC ACID ETHENYL ESTER)
12. 1,1,1-TRICHLOROETHANE
13. BROMODICHLOROMETHANE
14. 1,2-DICHLOROPROPANE
    & BENZENE
    & TRANS-1,3-DICHLOROPROPENE
    & TRICHLOROETHENE
15. CIS-1,3-DICHLOROPROPENE
16. 1,1,2-TRICHLOROETHANE
    & 2-CHLOROETHYL VINYL ETHER
17. DIBROMOCHLOROMETHANE
18. 2-BROMO-1-CHLOROPROPANE (INTERNAL STANDARD)
19. 4-METHYL-2-PENTANONE (METHYL ISOBUTYL KETONE, MIBK)
20. 2-HEXANONE
21. BROMOFORM
22. TETRACHLOROETHENE
    & TOLUENE
    & TOLUENE-D8 (SURROGATE STANDARD)
23. 1,4-DICHLOROBUTANE (INTERNAL STANDARD)
    & 1,1,2,2-TETRACHLOROETHANE
24. CHLOROBENZENE
25. ETHYLBENZENE
26. 4-BROMOFLUOROBENZENE (SURROGATE STANDARD)
27. STYRENE
28. O-XYLENE



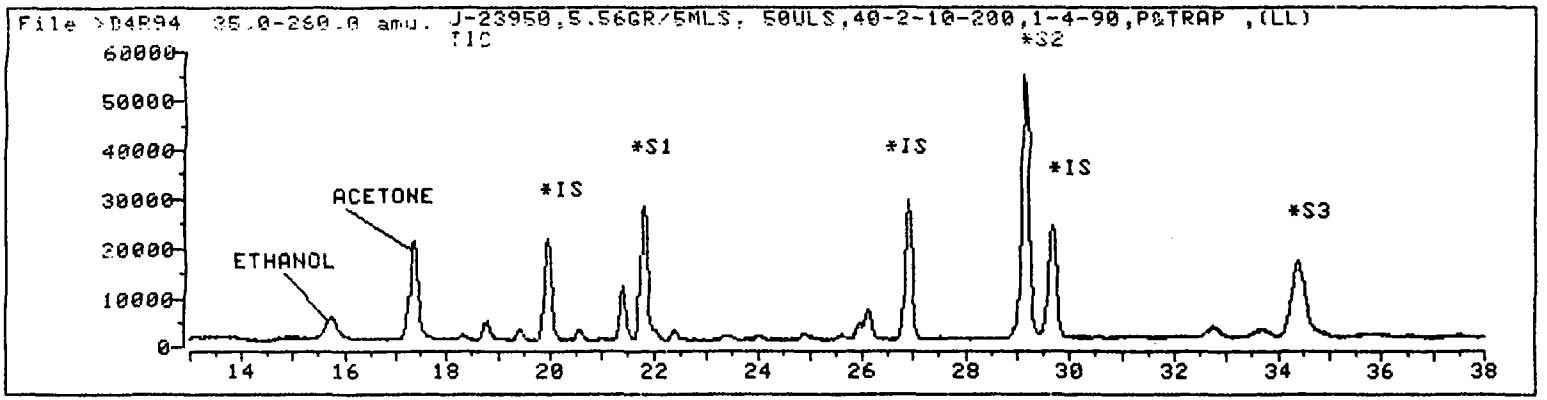
SAMPLE ID = BLANK-5MLS

RESULTS

1. PRIORITY POLLUTANT VOLATILE ORGANICS NOT FOUND <5 UG/L

*IS THESE ARE INTERNAL STANDARDS.

Ben Gasowicz



SAMPLE ID = J-23950, HARDY 9808

RESULTS

1. ACETONE	17.37	MINS	6270	UG/KG
2. CHLOROFORM	21.39	MINS	1202	UG/KG
3. OTHER VOA'S (P.P)	NOT	FOUND	<20	UG/KG

OTHER COMPOUND FOUND:

1. ETHANOL	15.75	MINS	1923	UG/KG

*IS THESE ARE INTERNAL STANDARDS.
*S THESE ARE SURROGATE STANDARDS (S1=81.99%, S2=105.92%, S3=83.68%).

Ben Hammer

M.B.A. Labs J-19265-0

PETERSON - RIEDEL WASTE ANALYSIS SUMMARY

Waste Name: Comp. #4 55GAL → 30GAL [illegible]

TDWR CODE NUMBER:
DATE SAMPLED: 5-29-89
DATE ANALYSIS COMPLETED: 6-20-89
WASTE FORM (LIQ,DRY S, WET S): Liquid

*RCRA HAZARDOUS (Y/N):
TDWR CI NON-HAZ (Y/N):
TDWR CII NON-HAZ (Y/N):
TDWR CIII NON-HAZ (Y/N):

*If yes indicate why (i,e, I,C,R,T)

SECTION I
****

100% CONSTITUENT ANALYSIS

COMPONENT	WEIGHT
% WATER (XX.YY):	
ORGANICS	
% LIQUID ORGANICS (XX.YY):	100%
% SOLID ORGANICS (XX.YY):	
INORGANICS	
% ASH (XX.YY):	
TOTAL (100 ± 2% MAX) =	

MAJOR COMPONENT CHEMICAL NAMES (i.e. If GT 0.1%)

ORGANICS	ORGANICS
Light Lube Oil - 50%	
Heavy Lube Oil - 50%	
	INORGANICS
PCB's - <1.0 mg/kg	

SECTION II
****

RCRA CHARACTERISTICS DATA

CHARACTERISTIC	VALUE	HAZARDOUS LIMIT
IGNITABILITY		
F.P. °F	>140	140° F Closed Cup
CORROSIVITY		
pH	6.7	LT 2.0 or GT 12.5
CORROSION RATE		LT 6.35 MM/YR
REACTIVITY (Y/N)		chemist'S JUDGEMENT
TOTAL METALS		
As	<1.0 mg/kg	
Ba	<1.0 mg/kg	
Cd	<1.0 mg/kg	
Cr	<1.0 mg/kg	
Pb	8.5 mg/kg	
Hg	0.22 mg/kg	
Se	<1.0 mg/kg	
Ag	<1.0 mg/kg	
ENDRIN		
LINDANE		
METHOXYCHLOR		
TOXAPHENE		
2,4-D		
2,4,5-TP SILVEX		

M.B.A. Labs J-19270

PETERSON - RIEDEL WASTE ANALYSIS SUMMARY

Waste Name: Comp. #9 (1 GAL BUCKET)

TDWR CODE NUMBER:
DATE SAMPLED: 5-29-89
DATE ANALYSIS COMPLETED: 6-20-89
WASTE FORM (LIQ,DRY S, WET S): Liq.

*RCRA HAZARDOUS (Y/N): NO
TDWR CI NON-HAZ (Y/N):
TDWR CII NON-HAZ (Y/N):
TDWR CIII NON-HAZ (Y/N):

*If yes indicate why (i,e, I,C,R,T)

SECTION I
****

100% CONSTITUENT ANALYSIS

COMPONENT	WEIGHT
% WATER (XX.YY):	0.5%
ORGANICS	
% LIQUID ORGANICS (XX.YY):	99.5%
% SOLID ORGANICS (XX.YY):	
INORGANICS	
% ASH (XX.YY):	
TOTAL (100 ± 2% MAX) =	

MAJOR COMPONENT CHEMICAL NAMES
(i.e. If GT 0.1%)

ORGANICS	ORGANICS
2-Butenedioic acid, diethyl ester - 99.5%	
	INORGANICS
PCB's - <1.0 mg/kg	

SECTION II
****

RCRA CHARACTERISTICS DATA

CHARACTERISTIC	VALUE	HAZARDOUS LIMIT
IGNITABILITY		
F.P. °F	>140	140° F Closed Cup
CORROSIVITY		
pH	3.8	LT 2.0 or GT 12.5
CORROSION RATE		LT 6.35 MM/YR
REACTIVITY (Y/N)	N	chemist'S JUDGEMENT
TOTAL METALS		
As	<1.0 mg/kg	
Ba	<1.0 mg/kg	
Cd	<1.0 mg/kg	
Cr	<1.0 mg/kg	
Pb	<1.0 mg/kg	
Hg	<0.1 mg/kg	
Se	<1.0 mg/kg	
Ag	<1.0 mg/kg	
ENDRIN		
LINDANE		
METHOXYCHLOR		
TOXAPHENE		
2,4-D		
2,4,5-TP SILVEX		

PETERSON - RIEDEL WASTE ANALYSIS SUMMARY

J-19266

55 → 30 GAL FIBER
55 → 2 PAPER BAGS OF [illegible]
Waste Name: Comp. #5 85 → 50LBS BAG + 4 1GAL CONTAINERS + 1 GAL BUCKET (GRAB)

TDWR CODE NUMBER:
DATE SAMPLED: 5-29-89
DATE ANALYSIS COMPLETED: 6-20-89
WASTE FORM (LIQ,DRY S, WET S): Liq.

*RCRA HAZARDOUS (Y/N):
TDWR CI NON-HAZ (Y/N):
TDWR CII NON-HAZ (Y/N):
TDWR CIII NON-HAZ (Y/N):

*If yes indicate why (i,e, I,C,R,T)

SECTION I
****

100% CONSTITUENT ANALYSIS

COMPONENT	WEIGHT
% WATER (XX.YY):	
ORGANICS	
% LIQUID ORGANICS (XX.YY):	50%
% SOLID ORGANICS (XX.YY):	50%
INORGANICS	
% ASH (XX.YY):	
TOTAL (100 ± 2% MAX) =	

MAJOR COMPONENT CHEMICAL NAMES (i.e. If GT 0.1%)

ORGANICS	ORGANICS
*n-nitroso diphenyl amine - 55.4%	
4-Cloro-s- (Phenory methyl)	
Phenol -44.6%	
	INORGANICS
PCB's - <1.0 mg/kg	

*Priority pollutant - Carcinogen

SECTION II
****

RCRA CHARACTERISTICS DATA

CHARACTERISTIC	VALUE	HAZARDOUS LIMIT
IGNITABILITY		
F.P. °F	>140	140° F Closed Cup
CORROSIVITY		
pH	6.1	LT 2.0 or GT 12.5
CORROSION RATE		LT 6.35 MM/YR
REACTIVITY (Y/N)	N	chemist'S JUDGEMENT
TOTAL METALS		
As	<1.0 mg/kg	
Ba	<1.0 mg/kg	
Cd	<1.0 mg/kg	
Cr	<1.0 mg/kg	
Pb	8.0 mg/kg	
Hg	<1.0 mg/kg	
Se	<1.0 mg/kg	
Ag	<1.0 mg/kg	
ENDRIN		
LINDANE		
METHOXYCHLOR		
TOXAPHENE		
2,4-D		
2,4,5-TP SILVEX		

M.B.A. Labs J-19264-00

PETERSON - RIEDEL WASTE ANALYSIS SUMMARY

9808 HARDY ROAD
CWM PROFILES:
J 31176 A-D V 9A1403

Waste Name: Comp. #3

TDWR CODE NUMBER:
DATE SAMPLED: 5-29-1989
DATE ANALYSIS COMPLETED: 6-20-1989
WASTE FORM (LIQ,DRY S, WET S): Dry

*RCRA HAZARDOUS (Y/N):
TDWR CI NON-HAZ (Y/N):
TDWR CII NON-HAZ (Y/N):
TDWR CIII NON-HAZ (Y/N):

*If yes indicate why (i,e, I,C,R,T)

Contains PCB's >50 ppm

SECTION I
****

100% CONSTITUENT ANALYSIS

COMPONENT	WEIGHT
% WATER (XX.YY):	
ORGANICS	
% LIQUID ORGANICS (XX.YY):	
% SOLID INORGANICS (XX.YY):	
INORGANICS	
% ASH (XX.YY):	98%
TOTAL (100 ± 2% MAX) =	

MAJOR COMPONENT CHEMICAL NAMES
(i.e. If GT 0.1%)

ORGANICS	ORGANICS
m-dichlorobenzene	- 0.55%
benzene,1,4-dichloro-2-isocyanato-1.44	
benzene,1,2-dichloro-4-nitro	- 0.03%
benzamine,3,5-dichloro	-0.07%

	INORGANICS
This is a PCB (Arochlors) → Tetrachloro 1,1'biphenyl	- 1397 ppm
PCB's	-<1 mg/kg

SECTION II
****

RCRA CHARACTERISTICS DATA

CHARACTERISTIC	VALUE	HAZARDOUS LIMIT
IGNITABILITY		
F.P. °F	>140	140° F Closed Cup
CORROSIVITY		
pH	7.90	LT 2.0 or GT 12.5
CORROSION RATE		LT 6.35 MM/YR
REACTIVITY (Y/N)		chemist'S JUDGEMENT
TOTAL METALS		
As	<1.0 mg/kg	
Ba	<1.0 mg/kg	
Cd	11.7 mg/kg	
Cr	<1.0 mg/kg	
Pb	<1.0 mg/kg	
Hg	<1.0 mg/kg	
Se	<1.0 mg/kg	
Ag	<1.0 mg/kg	
ENDRIN		
LINDANE		
METHOXYCHLOR		
TOXAPHENE		
2,4-D		
2,4,5-TP SILVEX		

Nickel 12.9 mg/kg

RESTRICTED CHEMICALS

1. Acetaldehyde
2. Acetic Acid
3. Acetic Acid Anhydride
4. Acetone
5. Acetylene Tetrabromide
6. Amyl Acetate
7. Amyl Alcohol
8. Amyl Chloride
9. Aniline
10. Anisole
11. Aqua regia
12. Benzaldehyde
13. Benzene
14. Benzyl Chloride
15. Bromine
16. Bromobenzene
17. Butyl Acetate
18. Butyl Glycol
19. Butyric Acid
20. Calcium Sulfide
21. Carbon Disulfide
22. Carbon tetrachloride
23. Chloric Acid
24. Chlorine (Aqueous solution)
25. Chloroform
26. Chlorosulfonic Acid
27. Chromic Acid
28. Cresylic Acid
29. Decahydronapthalene
30. Dibenzyl ether
31. Dibutyl ether
32. Dibutyl phthalate
33. Dichlorobenzene .
34. Dichloroethane
35. Diesel Oil
36. Diethylene glycol monobutyl ether
37. Diethylene
38. Diisobutyl ketone
39. Dioctyl phthalate
40. Ethanol
41. Ethyl Acetate
42. Ethyl Benzene
43. Ethyl Chloride
44. Ethyl Ether
45. Ethylene Chloride
46. Ethylene diechloride
47. Ethylene glycol monoethyl ether
48. Ethylene trichloride
49. Fluoroboric Acid
50. Furfuryl alcohol
51. Gasoline
52. Glacial acetic acid
53. Halothane
54. Heptane
55. Hexane
56. Hydrofluoric Acid
57. Hydrogen peroxide
58. Isooctane
59. Isopropyl ether
60. Methyl Butanol
61. Methyl ethyl ketone
62. Methylene chloride
63. Naptha
64. Napthalene
65. Nitric Acid
66. Octyl Cresol
67. Oleic acid
68. Orthophosphoric Acid
69. Perchloric acid
70. Perchloroethylen
71. Phosphorous trichloride
72. Potassium Hypochloride
73. Propionic Acid
74. Pseudocumene
75. Pyridine
76. Sulfur Trioxide
77. Sulfuric Acid
78. Tetrachloroethane
79. Tetrahydrofuran
80. Thiophene
81. Toluene
82. Triethylamine
83. Turpentine Oil
84. Xylene

I CERTIFY AND WARRANT THAT THE J-19264-00-Comp 3 DOES/DOES NOT CONTAIN ANY OF THE ABOVE NOTED RESTRICTED CHEMICALS IN CONCENTRATIONS GREATER THAN OR EQUAL TO 5% BY WEIGHT EITHER INDIVIDUALLY OR IN ANY COMBINATION.

SIGNATURE H. J. Krause

TITLE Lab Director DATE 6/20/89

M.B.A. LABS

MICROBIOLOGICAL AND BIOCHEMICAL
ASSAY LABORATORIES

P.O. BOX 9461 340 S. 66th STREET HOUSTON, TEXAS 77261
TELEPHONE NO. (713) 928-2701

SAMPLE SUBMITTED BY: Peterson - Riedel

DATE RECEIVED: 6-5-1989

DATE COMPLETED: 6-20-1989

LABORATORY REPORT NUMBER: J-19264-00

SAMPLE IDENTIFICATION: Composite #3

RESULTS

PARAMETER	METHOD #	DATE	TIME	ANALYST	RESULTS
Flash Point	SW 846 Method 1010	6-8-89	6:00	D.H.	>140°F
PCB's	EPA 608	6-12-89	1:00	D.H.	<1 ppm
pH	EPA 150.1	7-5-1989	10:00	H.E.	7.90

REPORTED BY _____

M.B.A. LABS

MICROBIOLOGICAL AND BIOCHEMICAL ASSAY LABORATORIES

P.O. BOX 9461 340 S. 66th STREET HOUSTON, TEXAS 77261
TELEPHONE NO. (713) 928-2701

SAMPLE SUBMITTED BY: Peterson - Riedel

DATE RECEIVED: 6-5-1989

DATE COMPLETED: 6-21-1989

LABORATORY REPORT NUMBER: J-19264

SAMPLE IDENTIFICATION: Composite #3

COMMON NAME	SUPERFUND LIST (TCL)
ORGANICS	
acenaphthene	<0.05%
acenaphthylene	<0.05%
acetone	<0.02 mg/kg
aldrin	<0.05%
anthracene	<0.05%
Aroclor 1016	
Aroclor 1221	
Aroclor1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
benzene	<0.02 mg/kg
benz(a)anthracene	<0.05%
benzo(b)fluoranthene	<0.05%
benzo(k)fluoranthene	<0.05%
benzoic acid	<0.05%
benzo(ghi)perylene	<0.05%
benzo(a)pyrene	<0.05%
benzyl alcohol	<0.05%

NOTE* This sample contains certain chlorinated compounds which indicate the presence of PCB's. However, other chlorinated compounds in the sample make it very difficult to resolve them. The GC/MS chromatogram identifies these interfering compounds. M.B.A. Labs will continue to try and isolate the PCB's.

J. Kern

COMMON NAME	
ORGANICS (CONTINUED)	
alpha-BHC	<0.05%
beta-BHC	<0.05%
delta-BHC	<0.05%
gamma-BHC	<0.05%
bis(2-chloroethoxy)methane	<0.05%
bis(2-chloroethyl)ether	<0.05%
bis(2-chloroisopropyl)ether	<0.05%
bis(2-ethylhexyl)phthalate	<0.05%
bromodichloromethane	<0.02 mg/kg
bromomethane	<0.04 mg/kg
4-bromophenyl phenyl ether	<0.05%
butyl benzyl phthalate	<0.05%
carbon disulfide	<0.02 mg/kg
carbon tetrachloride	<0.02 mg/kg
chlordane	<0.05%
p-chloroaniline	<0.05%
chlorobenzene	<0.02 mg/kg
p-chloro-m-cresol	<0.05%
chlorodibromomethane	<0.02 mg/kg
chloroethane	<0.04 mg/kg
chloroform	<0.02 mg/kg
chloromethane	<0.04 mg/kg

Joe Krem

COMMON NAME	
ORGANICS (CONTINUED)	
2-chloronaphthalene	<0.05%
2-chlorophenol	<0.05%
4-chlorophenyl phenyl ether	<0.05%
chrysene	<0.05%
ortho-cresol	<0.05%
para-cresol	<0.05%
4,4'DDD	<0.05%
4,4'DDE	<0.05%
4,4'DDT	<0.05%
dibenzo(a,h)anthracene	<0.05%
dibenzofuran	<0.05%
di-n-butyl phthalate	<0.05%
m-dichlorobenzene	0.55%
o-dichlorobenzene	<0.05%
p-dichlorobenzene	<0.05%
3,3'-dichlorobenzidine	<0.05%
1,1-dichloroethane	<0.02 mg/kg
1,2-dichloroethane	<0.02 mg/kg
1,1-dichloroethylene	<0.02 mg/kg
trans-1,2-dichloroethylene	<0.02 mg/kg
dichloromethane	<0.02 mg/kg

Jo Krem

COMMON NAME	
ORGANICS (CONTINUED)	
2,4-dichlorophenol	<0.05%
1,2-dichloropropane	<0.02 mg/kg
cis-1,3-dichloropropene	<0.02 mg/kg
trans-1,3-dichloropropene	<0.02 mg/kg
dieldrin	<0.05%
diethyl phthalate	<0.05%
2,4-dimethylphenol	<0.05%
dimethyl phthalate	<0.05%
4,6-dinitro-o-cresol	<0.05%
2,4-dinitrophenol	<0.05%
2,4-dinitrotoluene	<0.05%
2,6-dinitrotoluene	<0.05%
di-n-octyl phthalate	<0.05%
di-n-propylnitrosamine	<0.05%
endosulfan sulfate	<0.05%
endosulfan I (alpha)	<0.05%
endosulfan II (beta)	<0.05%
endrin	<0.05%
endrin ketone	<0.05%
ethyl benzene	<0.02 mg/kg
fluoranthene	<0.05%
fluorene	<0.05%
heptachlor	<0.05%
heptachlor epoxide	<0.05%
hexachlorobenzene	<0.05%
hexachlorobutadiene	<0.05%

Joe Kern

COMMON NAME	
ORGANICS (CONTINUED)	
hexachlorocyclopentadiene	<0.05%
hexachloroethane	<0.05%
2-hexanone	<0.02 mg/kg
indeno(1,2,3-cd)pyrene	<0.05%
isophorone	<0.05%
methoxychlor	<0.05%
methyl ethyl ketone	<0.02 mg/kg
2-methylnaphthalene	<0.05%
4-methyl-2-pentanone	<0.02 mg/kg
naphthalene	<0.05%
m-nitroaniline	<0.05%
o-nitroaniline	<0.05%
p-nitroaniline	<0.05%
nitrobenzene	<0.05%
2-nitrophenol	<0.05%
4-nitrophenol	<0.05%
N-nitrosodiphenylamine	<0.05%
pentachlorophenol	<0.05%
phenanthrene	<0.05%
phenol	<0.05%
pyrene	<0.05%
styrene	<0.05%
1,1,2,2-tetrachloroethane	<0.02 mg/kg

Jo Kern

COMMON NAME	
ORGANICS (CONTINUED)	
tetrachloroethylene	<0.02 mg/kg
toluene	<0.02 mg/kg
toxaphene	<0.05%
tribromomethane	<0.02 mg/kg
1,2,4-trichlorobenzene	<0.05%
1,1,1-trichloroethane	<0.02 mg/kg
1,1,2-trichloroethane	<0.02 mg/kg
trichloroethylene	<0.02 mg/kg
2,4,5-trichlorophenol	<0.05%
2,4,6-trichlorophenol	<0.05%
vinyl acetate	<0.02 mg/kg
vinyl chloride	<0.04 mg/kg
total xylenes	<0.04 mg/kg

COMMON NAME	
METALS	
aluminum	<1 mg/kg
antimony	<1 mg/kg
arsenic	<1 mg/kg
barium	<1 mg/kg
beryllium	<1 mg/kg
cadmium	11.7 mg/kg
calcium	58.5 mg/kg
chromium	<1 mg/kg
cobalt	<1 mg/kg
copper	<1 mg/kg
iron	225 mg/kg
lead	<1 mg/kg
magnesium	<1 mg/kg
manganese	<1 mg/kg
mercury	<.1 mg/kg
nickel	12.9 mg/kg
potassium	<1 mg/kg
selenium	<1 mg/kg
silver	<1 mg/kg
sodium	15.3%
thallium	<1 mg/kg
tin	<1 mg/kg
zinc	3.7%
MISCELLANEOUS	
cyanide	
phenols	
sulfide	

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