

LONE PINE LANDFILL

Freehold, N.J.

ANALYTICAL RESULTS FOR SAMPLES COLLECTED ON

September 13, 14, 15, and 16, 1982

February 15, 1983

419805



1527

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## OBJECTIVE

The purpose of this project was to tabulate analytical data for 34 samples collected from monitoring wells and surface water at the Lone Pine Landfill, Freehold, New Jersey, on September 13, 14, 15, and 16, 1982. This project was authorized under TDD # 02-8211-06B dated February 4, 1983 issued to the Field Investigation Team (FIT) by the U. S. Environmental Protection Agency.

## METHODOLOGY

The sampling trip report was consulted in order to compile an index listing the location of the samples (Appendix A). Data sheets recording the results of analyses performed by EPA contract laboratories were obtained from the U.S. Attorney's Office in Newark. Data for organic priority pollutants and non-priority pollutant hazardous substances were copied from the data sheets onto standard priority pollutant forms (Appendix B). Data for inorganic pollutants were similarly tabulated (Appendix C). Data for tentatively identified compounds were summarized on a typewritten list (Appendix D).

APPENDIX A

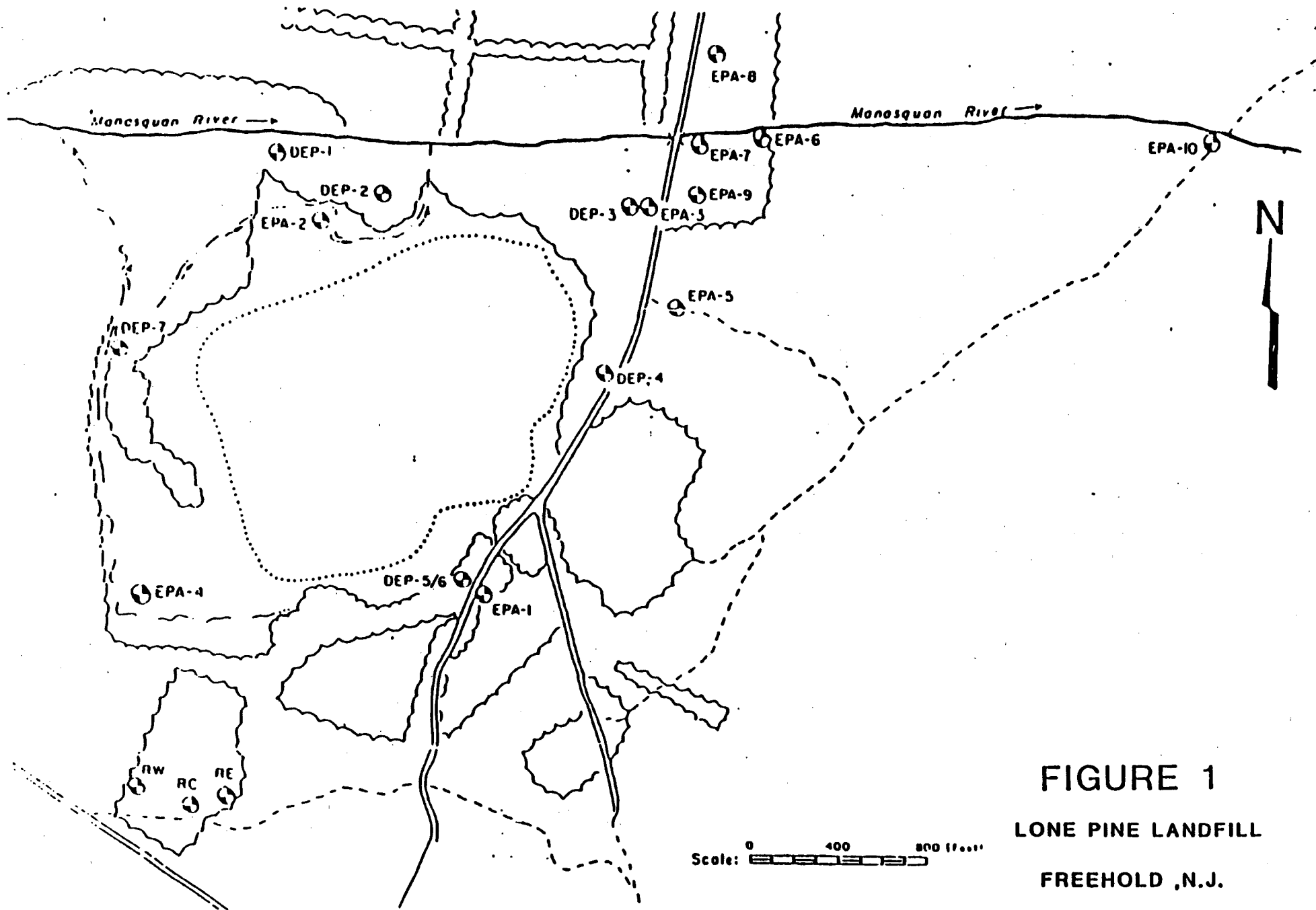
INDEX OF SAMPLES

INDEX OF SAMPLES

SAMPLE NUMBER		SAMPLE LOCATION	DATE
Organics	Inorganics	(Refer to attached map)	SAMPLED
B1694	MB-8986	DEP 7	9/13/82
B1695	MB-8987	EPA 4	9/13/82
B1696	MB-8988	EPA 1A	9/13/82
B1698	MB-8989	DEP 6	9/13/82
B1699	MB-8990	blank	9/13/82
B1700	MB-8991	DEP 5	9/13/82
B1841	MB-8992	EPA 4A	9/14/82
B1842	MB-8993	EPA 1	9/13/82
B1843	MB-8994	DEP 1	9/14/82
B1844	MB-8995	DEP 2	9/14/82
B1845	MB-8996	DEP 3	9/14/82
B1846	MB-8997	DEP 4	9/14/82
B1847	MB-8998	midstream	9/14/82
B1848	MB-8999	upstream	9/14/82
B1849	MB-9000	EPA 2	9/14/82
B1850	MB-9095	EPA 2A	9/14/82
B1851	MB-9096	downstream	9/14/82
B1852	MB-9097	EPA 10	9/16/82
B1853	MB-9098	EPA 10A	9/15/82
B1854	MB-9099	EPA 3	9/15/82
B1855	MB-9100	EPA 5A	9/15/82
B1856	MB-9152	EPA 9	9/15/82
B1857	MB-9153	EPA 9A	9/15/82

INDEX OF SAMPLES (continued)

SAMPLE NUMBER		SAMPLE LOCATION	DATE
Organics	Inorganics	(Refer to attached map)	SAMPLED
B1858	-	blank	9/13/82
B1859	MB-9155	EPA 3A	9/15/82
B1860	MB-9156	EPA 5	9/15/82
B1861	MB-9157	EPA 7A	9/16/82
B1862	MB-9158	EPA 7	9/16/82
B1863	MB-9159	EPA 8A	9/16/82
B1864	MB-9160	EPA 8	9/16/82
B1865	-	blank	9/13/82
B1866	MB-9161	EPA 6	9/16/82
B1867	MB-9162	EPA 6A	9/16/82
B1869	-	blank	9/13/82



**FIGURE 1**

**LONE PINE LANDFILL**

**FREEHOLD ,N.J.**

**SAMPLING LOCATION MAP**

A4

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APPENDIX B

ANALYTICAL RESULTS FOR  
ORGANIC COMPOUNDS

## ABBREVIATIONS

D = Sample analysis using a dilution.

LT = Less than the specified detection limit but greater than one half of the detection limit (present but BDL).

m = Data missing.

Q = Quantitated from secondary ion.

r = Rejected data (crossed out on laboratory data sheets).

(blank) = Compound analyzed for but not detected. Minimum detection limit is reported.

VOLATILES	SAMPLE NUMBER								
	ug/l								
	B1694	B1695	B1696	B1698	B1699	B1700	B1841	B1842	B1843
acrolein									
acrylonitrile									
benzene									
carbon tetrachloride									
chlorobenzene									
1,2-dichloroethane									
1,1,1-trichloroethane									
1,1-dichloroethane									
1,1,2-trichloroethane									
1,1,2,2-tetrachloroethane									
chloroethane									
2-chloroethylvinyl ether									
chloroform									
1,1-dichloroethene									
1,2-trans-dichloroethene									
1,2-dichloropropane									
trans-1,3-dichloropropene									
cis-1,3-dichloropropene									
ethylbenzene									
methylene chloride						LT			
chloromethane									
bromomethane									
bromoform									
bromodichloromethane									
fluorotrichloromethane									
dichlorodifluoromethane									
chlorodibromomethane									
tetrachloroethene									
toluene									
trichloroethene									
vinyl chloride									

BASE NEUTRAL EXTRACTABLES	ug/l								SAMPLE NUMBER										
	B1694	B1695	B1696	B1698	B1699	B1700	B1841	B1842	B1843	B1694	B1695	B1696	B1698	B1699	B1700	B1841	B1842	B1843	
Acenaphthene					r														
1,2,4-Trichlorobenzene					r														
Hexachlorobenzene					r														
Hexachloroethane					r														
Bis(2-chloroethyl)ether					r														
2-Chloronaphthalene					r														
1,2-Dichlorobenzene					r														
1,3-Dichlorobenzene					r														
1,4-Dichlorobenzene					r														
3,3'-Dichlorobenzidine					r														
2,4-Dinitrotoluene					r														
2,6-Dinitrotoluene					r														
1,2-Diphenylhydrazine					r														
Fluoranthene					r														
4-chlorophenyl phenyl ether					r														
4-Bromophenyl phenyl ether					r														
Bis(2-chloroisopropyl)ether					r														
Bis(2-chloroethoxy)methane					r														
Hexachlorobutadiene					r														
Hexachlorocyclopentadiene					r														
isophorone					r														
Naphthalene					r														
Nitrobenzene					r														
N-nitrosodimethylamine					← NOT REPORTED →														
N-nitrosodiphenylamine					r														
N-nitrosodi-n-propylamine					r														
Bis(2-ethylhexyl) phthalate				LT	r														
Butyl benzyl phthalate					r														
Di-n-butyl phthalate					r														
Di-n-octyl phthalate					r														
Diethylphthalate					r														
Dimethylphthalate					r														
Benzo(a)anthracene (1,2-benzanthracene)					r														
Benzo(a) pyrene					r														
Benzo(b) fluoranthene					r														
Benzo(k) fluoranthene					r														
Chrysene					r														
Acenaphthylene					r														
Anthracene					r														
Benzo(ghi) perylene (1,12-Benzoperylene)					r														

TABLE NUMBER  
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	B1694	B1695	B1696	B1698	B1699	B1700	B1841	B1842	B1843
Fluorene									
Phenanthrene									
Dibenzo(a,h) anthracene (1,2,5,6-dibenzanthracene)									
Indeno (k,2,3-cd) pyrene									
2,3,7,8-tetrachlorodibenzo- p-dioxin (TCDD)	← NOT REPORTED →								
Benzidine									
Pyrene									

ACID COMPOUNDS

2,4,6-trichlorophenol									
p-chloro-m-cresol									
2-chlorophenol									
2,4-dichlorophenol									
2,4-dimethylphenol									
2-nitrophenol									
4-nitrophenol									
2,4-dinitrophenol									
4,6-dinitro-2-methylphenol									
pentachlorophenol			70			47%		LT	
phenol									

PESTICIDES

aldrin									
dieldrin									
chlordane									
4,4'-DDT									
4,4'-DDE									
4,4'-DDD									
α -endosulfan									
β -endosulfan									
endosulfan sulfate									
endrin									
endrin aldehyde									
heptachlor									
heptachlor epoxide									
α -BHC									
β -BHC									
γ -BHC									
δ -BHC									

SAMPLE NUMBER

	B1694	B1695	B1696	B1698	B1699	B1700	B1841	B1842	B1843
PCB-1242									
PCB-1254									
PCB-1221									
PCB-1232									
PCB-1248									
PCB-1260									
PCB-1016									
toxaphene									

DIOXINS

p-dioxin									
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NON-PRIORITY POLLUTANT HAZAROUS SUBSTANCES

ACID COMPOUNDS

benzoic acid									
2-methylphenol									
4-methylphenol									
2,4,5-trichlorophenol									

BASE-NEUTRAL EXTRACTABLES

aniline									
benzyl alcohol									
4-chloroaniline									
dibenzofuran									
2-methylnaphthalene									
2-nitroaniline									
3-nitroaniline									
4-nitroaniline									

VOLATILES

acetone									
2-butanone									
carbonylsulfide									
2-hexanone									
4-methyl-2-pentanone									
styrene									
vinyl acetate									
o-xylene									

SAMPLE NUMBER  
*m.05700m*     *UPSTATION 2*     *ZK*     *DOWNSTATION*     *10*

VOLATILES	ug/l								
	B1844	B1845	B1846	B1847	B1848	B1849	B1850	B1851	B1852
acrolein									
acrylonitrile									
benzene	5700		10	2200D	4400D	41			
carbon tetrachloride									
chlorobenzene	120			100	140				
1,2-dichloroethane			180	120					
1,1,1-trichloroethane			6.8						
1,1-dichloroethane			5.2	220					
1,1,2-trichloroethane									
1,1,2,2-tetrachloroethane			6.1			LT			
chloroethane	11								
2-chloroethylvinyl ether									
chloroform			15						
1,1-dichloroethene			5.9	23		98			
1,2-trans-dichloroethene	LT		35	1700D	29				
1,2-dichlorocyclohexane				LT					
trans-1,3-dichloropropene									
cis-1,3-dichloropropene									
ethylbenzene	150			5000D	280	LT			
methylene chloride	LT		22		35				31
chloromethane					13				
bromomethane									
bromoform									
bromodichloromethane									
fluorotrichloromethane									
dichlorodifluoromethane									
chlorodibromomethane									
tetrachloroethene				32					
toluene	1210Q		9.1	4800D	370Q	LT			
trichloroethene			200	28					
vinyl chloride	LT			440	36	15			

BASE NEUTRAL EXTRACTABLES	SAMPLE NUMBER										
	ug/1	B1844	B1845	B1846	B1847	B1848	B1849	B1850	B1851	B1852	
Acenaphthene											
1,2,4-Trichlorobenzene											
Hexachlorobenzene											
Hexachloroethane											
Bis(2-chloroethyl)ether											
2-Chloronaphthalene											
1,2-Dichlorobenzene	33										
1,3-Dichlorobenzene											
1,4-Dichlorobenzene											
3,3-Dichlorobenzidine											
2,4-Dinitrotoluene											
2,6-Dinitrotoluene											
1,2-Diphenylhydrazine											
Fluoranthene											
4-chlorophenyl phenyl ether											
4-Bromophenyl phenyl ether											
Bis(2-chloroisopropyl)ether											
Bis(2-chloroethoxy)methane											
Hexachlorobutadiene											
Hexachlorocyclopentadiene											
Isophorone											
Naphthalene				170							
Nitrobenzene											
N-nitrosodimethylamine				NOT REPORTED							
N-nitrosodiphenylamine											
N-nitrosodi-n-propylamine											
Bis(2-ethylhexyl) phthalate											
Butyl benzyl phthalate											
Di-n-butyl phthalate											
Di-n-octyl phthalate											
Diethylphthalate				24							
Dimethylphthalate											
Benzo(a)anthracene (1,2-benzanthracene)											
Benzo(a) pyrene											
Benzo(b) fluoranthene											
Benzo(k) fluoranthene											
Chrysene											
Acenaphthylene											
Anthracene											
Benzo(ghi) perylene (1,12-Benzoperylene)											

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us/1

	B1844	B1845	B1846	B1847	B1848	B1849	B1850	B1851	B1852
Fluorene									
Phenanthrene									
Dibenzo(a,h) anthracene (1,2,5,6-dibenzanthracene)									
Indeno (1,2,3-cd) pyrene									
2,3,7,8-tetrachlorodibenzo- p-dioxin (TCDD)	NOT REPORTED								
Benzidine									
Pyrene									

ACID COMPOUNDS

2,4,6-trichlorophenol			LT.						
p-chloro-m-cresol									
2-chlorophenol									
2,4-dichlorophenol									
2,4-dimethylphenol									
2-nitrophenol									
4-nitrophenol									
2,4-dinitrophenol									
4,4'-dinitro-2-methylphenol									
pentachlorophenol			22						
phenol			LT						

PESTICIDES

aldrin									
dieldrin									
chlordan									
4,4'-DDT									
4,4'-DDE									
4,4'-DDD									
$\alpha$ -endosulfan									
$\beta$ -endosulfan									
endosulfan sulfate									
endrin									
endrin aldehyde									
heptachlor									
heptachlor epoxide									
$\alpha$ -BHC									
$\beta$ -BHC									
$\gamma$ -BHC									
$\delta$ -BHC									

	SAMPLE NUMBER								
	ug/l								
	B1844	B1845	B1846	B1847	B1848	B1849	B1850	B1851	B1852
PCB-1242									
PCB-1254									
PCB-1221									
PCB-1232									
PCB-1248									
PCB-1260									
PCB-1016									
toxaphene									

DIOXINS

p-dioxin									
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NON-PRIORITY POLLUTANT HAZARDOUS SUBSTANCES

ACID COMPOUNDS

benzoic acid				290					
2-methylphenol				44					
4-methylphenol			28	400	LT				
2,4,5-trichlorophenol									

BASE-NEUTRAL EXTRACTABLES

aniline									
benzyl alcohol									
4-chloroaniline									
dibenzofuran									
2-methylnaphthalene									
2-nitroaniline									
3-nitroaniline									
4-nitroaniline									

VOLATILES

acetone			180	32000	4700				LT
2-butanone			640	84000	3700				
carbondsulfide									
2-hexanone				LT	21				
4-methyl-2-pentanone			110	4200	36000				
styrene					LT	LT			
vinyl acetate						LT			
o-xylene	62		11	340	93	LT			

VOLATILES	SAMPLE NUMBER								
	us/l	1	6A	9	9A	3A	5		
	B1853	B1854	B1855	B1856	B1857	B1858	B1859	B1860	B1861
acrolein									
acrylonitrile									
benzene		110	13	350Q	1600Q		1100		
carbon tetrachloride									
chlorobenzene				16	500Q		55		
1,2-dichloroethane		220	26	21	1900Q		530Q		
1,1,1-trichloroethane									
1,1-dichloroethane					170Q		110		
1,1,2-trichloroethane									
1,1,2,2-tetrachloroethane									
chloroethane									
2-chloroethylvinyl ether									
chloroform									
1,1-dichloroethene					31		21		
1,2-trans-dichloroethene		43	17	33	1700Q		980		
1,2-dichlorocyclohexane					5.5				
trans-1,3-dichloropropene									
cis-1,3-dichloropropene									
ethylbenzene		18	15	720	4200Q		2300Q		
methylene chloride		330	53		3000Q	5.1	1200Q	190	
chloromethane									
bromomethane									
bromoform									
bromodichloromethane									
fluorotrichloromethane									
dichlorodifluoromethane									
chlorodibromomethane									
tetrachloroethane					59		24		
toluene		LT	20	880Q	2800Q		3300Q		
trichloroethene			8.7		800Q		370		
vinyl chloride			LT	13	60		95		

BASE NEUTRAL EXTRACTABLES	SAMPLE NUMBER							
	B1855	B1856	B1857	B1858	B1859	B1860	B1861	
Acenaphthene			r					
1,2,4-Trichlorobenzene			r					
Hexachlorobenzene			r					
Hexachloroethane			r					
Bis(2-chloroethyl)ether			r					
2-Chloronaphthalene			r					
1,2-Dichlorobenzene			r					
1,3-Dichlorobenzene			r					
1,4-Dichlorobenzene			r					
3,3-Dichlorobenzidine			r					
2,4-Dinitrotoluene			r					
2,6-Dinitrotoluene			r					
1,2-Diphenylhydrazine			r					
Fluoranthene			r					
4-chlorophenyl phenyl ether			r					
4-Bromophenyl phenyl ether			r					
Bis(2-chloroisopropyl)ether			r					
Bis(2-chloroethoxy)methane			r					
Hexachlorobutadiene			r					
Hexachlorocyclopentadiene			r					
Isophorone			r					
Naphthalene			r					
Nitrobenzene			r					
N-nitrosodimethylamine	← NOT REPORTED →							
N-nitrosodiphenylamine			r					
N-nitrosodi-n-propylamine			r					
Bis(2-ethylhexyl) phthalate			r					
Butyl benzyl phthalate			r					
Di-n-butyl phthalate	27		r					
Di-n-octyl phthalate			r					
Diethylphthalate			r					
Dimethylphthalate			r					
Benzo(a)anthracene (1,2-benzanthracene)			r					
Benzo(a) pyrene			r					
Benzo(b) fluoranthene			r					
Benzo(k) fluoranthene			r					
Chrysene			r					
Acenaphthylene			r					
Anthracene			r					
Benzo(ghi) perylene (1,12-Benzoperylene)			r					

ug/l	SAMPLE NUMBER								
	B1853	B1854	B1855	B1856	B1857	B1858 <sup>m</sup>	B1859	B1860	B1861
Fluorene			r						
Phenanthrene			r						
Dibenzo(a,h) anthracene (1,2,5,6-dibenzanthracene)			r						
Indeno (k,2,3-cd) pyrene			r						
2,3,7,8-tetrachlorodibenzo- p-dioxin (TCDD)	← NOT REPORTED →								
Benzidine			r						
Pyrene			r						

ACID COMPOUNDS

2,4,6-trichlorophenol									
p-chloro-m-cresol									
2-chlorophenol									
2,4-dichlorophenol									
2,4-dimethylphenol				25					
2-nitrophenol									
4-nitrophenol									
2,4-dinitrophenol									
4,6-dinitro-2-methylphenol									
pentachlorophenol			LT	130					
phenol		LT		27			260		

PESTICIDES

aldrin									
dieldrin									
chlordane									
4,4'-DDT									
4,4'-DDE									
4,4'-DDD									
α -endosulfan									
β -endosulfan									
endosulfan sulfate									
endrin									
endrin aldehyde									
heptachlor									
heptachlor epoxide									
α -BHC									
β -BHC									
γ -BHC									
δ -BHC									

SAMPLE NUMBER

ug/l

	B1853	B1854	B1855	B1856	B1857	B1858	B1859	B1860	B1861
PCB-1242									
PCB-1254									
PCB-1221									
PCB-1232									
PCB-1248									
PCB-1250									
PCB-1215									
toxaphene									

DIOXINS

p-dioxin									
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NON-PRIORITY POLLUTANT HAZARDOUS SUBSTANCES

ACID COMPOUNDS

benzoic acid									
2-methylphenol				54					
4-methylphenol				130		1200			
2,4,5-trichlorophenol									

BASE-NEUTRAL EXTRACTABLES

aniline									
benzyl alcohol									
4-chloroaniline									
dibenzofuran									
2-methylnaphthalene									
2-nitroaniline									
3-nitroaniline									
4-nitroaniline									

VOLATILES

acetone		19000	200	1400	220000		160000	120	
2-butanone		7800	15	840	88000		130000		
carbendisulfide									
2-hexanone					48000		58		
4-methyl-2-pentanone		1900	15	490	43000		37000		
styrene									
vinyl acetate									
o-xylene				28	5400		140		

VOLATILES	SAMPLE NUMBER							
	ug/l	BA	g	6	6	m		
	B1862	B1863	B1864	B1865	B1866	B1867	B1868	B1869
acrolein								
acrylonitrile								
benzene	130				13000			
carbon tetrachloride								
chlorobenzene	6.1				65			
1,2-dichloroethane					27			
1,1,1-trichloroethane								
1,1-dichloroethane	11				100			
1,1,2-trichloroethane								
1,1,2,2-tetrachloroethane								
chloroethane								
2-chloroethylvinyl ether								
chloroform								
1,1-dichloroethene								
1,2-trans-dichloroethene					1100			
1,2-dichloropropane								
trans-1,3-dichloropropene								
cis-1,3-dichloropropene								
ethylbenzene	290			LT	36000			
methylene chloride	8.9	9.4	190	LT	100	15		LT
chloromethane								
bromomethane								
bromoform								
bromodichloromethane								
fluorotrichloromethane								
dichlorodifluoromethane								
chlorodibromomethane								
tetrachloroethene								
toluene	120		LT	LT	21000			
trichloroethene					8.9			
vinyl chloride					120			

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BASE NEUTRAL EXTRACTABLES	SAMPLE NUMBER								
	ug/l	B1862	B1863	B1864	B1865	B1866	B1867	B1868	B1869
Acenaphthene									
1,2,4-Trichlorobenzene									
Hexachlorobenzene									
Hexachloroethane									
Bis(2-chloroethyl)ether									
2-Chloronaphthalene									
1,2-Dichlorobenzene									
1,3-Dichlorobenzene									
1,4-Dichlorobenzene									
3,3-Dichlorobenzidine									
2,4-Dinitrotoluene									
2,6-Dinitrotoluene									
1,2-Diphenylhydrazine									
Fluoranthene									
4-chlorophenyl phenyl ether									
4-Bromophenyl phenyl ether									
Bis(2-chloroisopropyl)ether									
Bis(2-chloroethoxy)methane									
Hexachlorobutadiene									
Hexachlorocyclopentadiene									
Isophorone									
Naphthalene									
Nitrobenzene									
N-nitrosodimethylamine									
N-nitrosodiphenylamine									
N-nitrosodi-n-propylamine									
Bis(2-ethylhexyl) phthalate									
Butyl benzyl phthalate									
Di-n-butyl phthalate									
Di-n-octyl phthalate									
Diethylphthalate						40			
Dimethylphthalate									
Benzo(a)anthracene (1,2-benzanthracene)									
Benzo(a) pyrene									
Benzo(b) fluoranthene									
Benzo(k) fluoranthene									
Chrysene									
Acenaphthylene									
Anthracene									
Benzo(ghi) perylene (1,12-Benzoperylene)									

← NOT REPORTED →

SAMPLE NUMBER

15/1 6

	B1862	B1863	B1864	B1865	B1866	B1867	m	m	
	B1862	B1863	B1864	B1865	B1866	B1867	B1868	B1869	B1870
Fluorene									
Phenanthrene									
Dibenzo(a,h) anthracene (1,2,5,6-dibenzanthracene)									
Indeno (k,2,3-cd) pyrene									
2,3,7,8-tetrachlorodibenzo- p-dioxin (TCDD)	←----- NOT REPORTED -----→								
Benzidine									
Pyrene									

ACID COMPOUNDS

							m	m	
2,4,6-trichlorophenol									
p-chloro-m-cresol									
2-chlorophenol									
2,4-dichlorophenol									
2,4-dimethylphenol									
2-nitrophenol									
4-nitrophenol									
2,4-dinitrophenol									
4,6-dinitro-2-methylphenol									
pentachlorophenol									
phenol						310			

PESTICIDES

							m	m	
aldrin									
dieldrin									
chlordane									
4,4'-DDT									
4,4'-DDE									
4,4'-DDD									
α -endosulfan									
β -endosulfan									
endosulfan sulfate									
endrin									
endrin aldehyde									
heptachlor									
heptachlor epoxide									
α -BHC									
β -BHC									
γ -BHC									
δ -BHC									

7  
12/2  
SAMPLE NUMBER 6  
9

	B1862	B1863	B1864	B1865	B1866	B1867	B1868	B1869
PCB-1242								
PCB-1254								
PCB-1221								
PCB-1232								
PCB-1248								
PCB-1260								
PCB-1016								
toxaphene								

DIOXINS

p-dioxin								
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NON-PRIORITY POLLUTANT HAZARDOUS SUBSTANCES

ACID COMPOUNDS

benzoic acid				3500			
2-methylphenol				76			
4-methylphenol				214			
2,4,5-trichlorophenol							

BASE-NEUTRAL EXTRACTIBLES

aniline							
benzyl alcohol							
4-chloroaniline							
dibenzofuran							
2-methylnaphthalene							
2-nitroaniline							
3-nitroaniline							
4-nitroaniline							

VOLATILES

acetone			700	230000	17		
2-butanone				12000			
carbendisulfide							
2-hexanone							
4-methyl-2-pentanone				6000			
styrene							
vinyl acetate							
o-xylene	5.9			140			

APPENDIX C

ANALYTICAL RESULTS FOR  
INORGANIC COMPOUNDS

## ABBREVIATIONS

NA = Not analyzed.

ND = Not detected.

(blank) = Item not listed on laboratory report.

INORGANICS	SAMPLE NUMBER								
	MB 8986	MB 8987	MB 8988	MB 8989	MB 8990	MB 8991	MB 8992	MB 8993	MB 8994
Aluminum	8.6	2.3	3.0	0.32	ND	2.0	0.39	1.0	2.1
Chromium	ND	0.12	ND	ND	ND	ND	ND	ND	0.042
Barium	ND	ND	ND	ND	ND	ND	ND	ND	0.18
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	0.002	0.003	0.007	0.003	0.003
Cobalt	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper	0.16	ND	ND	ND	ND	ND	ND	ND	ND
Iron	15	4.0	14	8.2	0.20	1.4	9.4	1.8	60
Lead	0.012	0.14	0.011	0.011	ND	0.009	ND	0.095	ND
Nickel	ND	ND	ND	ND	ND	ND	ND	ND	ND
Manganese	0.10	0.053	0.088	0.072	0.015	0.094	0.071	0.013	0.14
Zinc	0.88	12	3.0	0.18	0.091	0.095	5.5	3.4	0.27
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calcium									
Magnesium									
Sodium									
Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND
Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tin	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ammonia	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoride									
Sulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH									
TOC									

INORGANIC COMPOUNDS

INORGANICS	SAMPLE NUMBER									
	MB 8995	MB 8996	MB 8997	MB 8998	MB 8999	MB 9000	MB 9095	MB 9096	MB 9097	
Aluminum	0.44	9.0	1.3	1.3	1.1	0.63	ND	ND	2.5	
Chromium	ND	0.081	ND	ND	ND	ND	ND	ND	0.011	
Barium	0.50	0.24	0.14	1.0	0.65	0.37	ND	ND	ND	
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cadmium	0.006	0.012	0.009	0.012	0.010	0.014	0.006	0.007	0.008	
Cobalt	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Copper	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Iron	150	110	39	380	250	98	6.1	7.7	19	
Lead	0.007	0.081	0.012	0.014	ND	0.11	ND	0.011	0.16	
Nickel	0.14	0.15	ND	ND	ND	ND	ND	ND	ND	
Manganese	ND	0.12	0.083	1.2	0.59	0.58	0.041	0.12	0.11	
Zinc	0.18	0.63	0.077	0.13	0.095	16	3.4	0.10	4.8	
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Calcium										
Magnesium										
Sodium										
Arsenic	ND	0.031	0.090	ND	ND	0.015	ND	ND	0.012	
Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Tin	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ammonia	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Fluoride										
Sulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cyanide	NA	NA	NA	NA	NA	NA	NA	NA	NA	
pH										
TOC										

INORGANICS	SAMPLE NUMBER								
	10 <sup>6</sup> mg/l	3	5A	9	9A	3A	5	7A	7
	MB 9098	MB 9099	MB 9100	MB 9152	MB 9153	MB 9155	MB 9156	MB 9157	MB 9158
Aluminum	1.3	9.2	0.43	80	ND	0.28	17	ND	0.36
Chromium	ND	0.081	ND	1.9	ND	ND	0.022	0.078	0.024
Barium	ND	0.13	0.16	0.73	0.55	0.70	0.21	ND	ND
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	0.006	0.010	0.005	0.033	0.008	0.012	0.012	0.010	0.008
Cobalt	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper	0.12	0.11	ND	1.3	ND	ND	ND	ND	ND
Iron	61	88	22	160	270	280	6.9	35	46
Lead	0.10	0.33	ND	1.8	0.088	0.15	0.15	0.085	0.18
Nickel	ND	0.10	ND	0.59	ND	ND	ND	ND	ND
Manganese	0.15	0.32	0.078	0.58	0.69	0.86	0.081	0.14	0.13
Zinc									
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calcium									
Magnesium									
Sodium									
Arsenic	ND	0.042	ND	0.10	ND	ND	0.024	ND	ND
Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND
Selenium									
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury									
Tin									
Silver	ND	ND	ND	0.10	ND	ND	ND	ND	ND
Ammonia	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoride									
Sulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH									
TOC									

TENTATIVELY IDENTIFIED COMPOUNDS

Sample #	Compound	Fraction	% Purity	Estimated Concentration (ug/l)
B1694	cyclohexene	GH019745A15	87.7	40
	2-pentanone, 4-hydroxy-4-methyl	GH019745A15	94.6	60
	trichloromethane	GH019745A15	98	590
B1695	cyclohexene	GH019746A15	87.8	72
	2-pentanone, 4-hydroxy-4-methyl	GH019746A15	93.8	2200
B1696	methane, trichloro	FSCC	98	370
	cyclohexane	FSCC	81	2300
B1698	3-pentanone	FSCC	90	15
	2-pentanone, 4-hydroxy-4-methyl	FSCC	95	43
B1699	2,3-butanedione	FSCC	89.1	63
	3-pentanone	FSCC	93.3	84
	3-pentanone, 2-methyl	FSCC	84.7	8.6
	2-pentanone, 4-hydroxy-4-methyl	FSCC	93.3	66
	2-pentanone, 4-hydroxy-4-methyl	FSCC	94.0	66
	phenol, 2-fluoro	FSCC	83.3	15
B1700	3 pentanone	FSCC	84	13
		FSCC	96	18

D2

1557

INORGANICS	8 <sup>th</sup> SAMPLE NUMBER									
	mg/l 8									
	MB 9159	MB 9160	MB 9161	MB 9162						
Aluminum	ND	1.7	7.4	0.24						
Chromium	0.31	0.16	ND	ND						
Barium	ND	ND	0.32	ND						
Beryllium	ND	ND	ND	ND						
Caesium	0.010	0.012	0.077	0.007						
Cobalt	ND	ND	ND	ND						
Copper	ND	0.071	0.15	ND						
Iron	30	34	250	28						
Lead	0.021	0.019	4.8	0.011						
Nickel	ND	ND	0.16	ND						
Manganese	0.11	0.13	0.75	0.11						
Zinc	1.6	19	39	1.1						
Boron	NA	NA	NA	NA						
Vanadium	ND	ND	ND	ND						
Calcium										
Magnesium										
Sodium										
Arsenic	ND	0.013	ND	0.030						
Antimony	ND	ND	ND	ND						
Selenium	ND	ND	ND	ND						
Thallium	ND	ND	ND	ND						
Mercury	ND	ND	ND	ND						
Tin	ND	ND	ND	ND						
Silver	ND	ND	ND	ND						
Ammonia	NA	NA	NA	NA						
Fluoride										
Sulfide	NA	NA	NA	NA						
Cyanide	NA	NA	NA	NA						
pH										
TOC										

APPENDIX D

ANALYTICAL RESULTS FOR  
TENTATIVELY IDENTIFIED COMPOUNDS

TENTATIVELY IDENTIFIED COMPOUNDS

Sample #	Compound	Fraction	% Purity	Estimated Concentration (ug/l)
B1841	cyclohexene	FSCC	90.8	22
	2-pentanone, 4-hydroxy-4-methyl	FSCC	95.8	34
B1842	furan, tetrahydro-3-methyl-	FSCC	91.9	7.5
	3-pentanone	FSCC	88.3	13
	3-pentanone, 2-methyl-	FSCC	93.3	2.6
	furan, 2-butyltetrahydro	FSCC	84.2	2.4
	1-pentanol, 2,2-dimethyl	FSCC	83.7	2.9
	2-pentanone, 4-hydroxy-4-methyl	FSCC	96.0	11
	benzene, 1, 3-dimethyl	FSCC	93.1	1.5
B1843	methane, trichloro-	FSCC	98.3	290
	cyclohexane	FSCC	84.1	970
	cyclohexene	FSCC	87.8	8.3
	2-pentanone, 4-hydroxy-4-methyl	FSCC	93.7	40
	chlorofluoromethane	VOA	89	7 ug/g
B1844	furan, tetrahydro-	VOAS	97.4	77
	ethane, 1, 1'-oxybis-	VOAS	98.1	260
	1,4-dioxane	VOAS	97.3	16
	propane, 2, 2'-oxybis-	VOAS	97.6	69
	3-pentanone, 2,4-dimethyl-	VOAS	94.8	6.6
	benzene, (1-methylethyl)-	VOAS	90.0	12
	3-heptanone, 5-methyl-	VOAS	88.6	29
		VOAS	92.0	120

D3

1560

27 10 7 68

TENTATIVELY IDENTIFIED COMPOUNDS

Sample #	Compound	Fraction	% Purity	Estimated Concentration (ug/l)
B1844 (cont'd)	1,4-dioxane	FSCC	98.0	410
	2-pentanone, 4-methyl	FSCC	84.5	13
	2-pentanol, 4-methyl	FSCC	88.7	36
	1,3,5-cycloheptatriene	FSCC	94.3	390
	2-pentanone, 4-hydroxy-4-methyl	FSCC	93.5	34
	benzene, chloro-	FSCC	92.9	55
	benzene, ethyl-	FSCC	92.9	80
	benzene, 1,3-dimethyl-	FSCC	91.8	50
	benzene, 1,3-dimethyl-	FSCC	92.0	21
3-heptanone, 5-methyl-	FSCC	87.2	24	
B1845	methane, trichloro-	FSCC	98.3	260
	cyclohexene	FSCC	91.5	4.1
	1,4-dioxane	FSCC	95.4	8.1
	2-pentanone, 4-hydroxy-4-methyl	FSCC	93.6	21
B1846	methane, dichlorofluoro-	VOAS	94.1	7.5
	cyclohexane	FSCC	91.7	19
	2-butanone, 3-methyl-	FSCC	89.2	18
	ethene, trichloro-	FSCC	89.9	21
	2-pentanone, 4-methyl	FSCC	95.9	33
	2-hexanone	FSCC	91.7	6.1

D4

1561

TENTATIVELY IDENTIFIED COMPOUNDS

Sample #	Compound	Fraction	% Purity	Estimated Concentration (ug/l)
B1846 (cont'd)	2-pentanone, 4-hydroxy-4-methyl	FSCC	91.7	12
	benzene, ethyl-	FSCC	89.4	4.2
	piperidinone	FSCC	82.6	10
	bicyclo/2.2.1/heptan-2-one, 1,7,7-trimethyl	FSCC	81.6	15
B1847	chlorofluoromethane	VOA	96.0	150 ug/g
	2-propanol	VOA	83.8	370 ug/g
	2-butanol	VOA	90.3	160 ug/g
	2,2' oxybis propane	VOA	92.2	760 ug/g
	4-methyl-2-pentanol	VOA	85.8	290 ug/g
	1-methyl-ethyl benzene	VOA	93.4	580 ug/g
	5-methyl-3-heptanone	VOA	93.7	48 ug/g
	1,3-dimethyl benzene	VOA	92.8	850 ug/g
	dichlorofluoromethane	VOA	87.4	1040 ug/g
	1,1'-oxylis ethane	VOA	90.9	1580 ug/g
	2-propen-1-ol, 2-methyl-acetate	FSCC	82.0	1100 ug/g
	methane, trichloro-	FSCC	99.0	190 ug/g
	benzene	FSCC	97.0	410 ug/g
	1,4-dioxane	FSCC	98.0	620 ug/g
	2-pentanone, 4-methyl-	FSCC	87.0	1300 ug/g
benzene, methyl-	FSCC	92.0	1000 ug/g	
benzene, ethyl-	FSCC	91.0	1200 ug/g	

DS

1562

TENTATIVELY IDENTIFIED COMPOUNDS

Sample #	Compound	Fraction	% Purity	Estimated Concentration (ug/l)
B1847 (cont'd)	benzene,1,3-dimethyl	FSCC	88	290
	butanoic acid	FSCC	82	130
	hexanoic acid	FSCC	84	3900
	octanoic acid	FSCC	86	9100
B1848	2-propanol	VOA	89	33
	tetrahydrofuran	VOA	98	320
	1-1'-oxybisethane	VOA	96	600
	2-butanol	VOA	89	5
	2,2'-oxybispropane	VOA	98	190
	4-methyl-2-pentanol	VOA	87	150
	5-methyl-2-hexanone	VOA	92	13
	5-methyl-3-heptanone	VOA	91	150
	2-butanone	FSCC	97	270 ug/g
	trichloromethane	FSCC	99	40 ug/g
	aceticacidethylester	FSCC	83	25 ug/g
	1,4-dioxane	FSCC	98	190 ug/g
	4-methyl-2-pentanone	FSCC	85	280 ug/g
	4-methyl-2-pentanol	FSCC	90	150 ug/g
	methyl benzene	FSCC	95	650 ug/g
	4-hydroxy-4-methyl-2-pentanone	FSCC	93	190 ug/g
	ethyl benzene	FSCC	94	26 ug/g
	1,3-dimethyl benzene	FSCC	94	23 ug/g
	2-methyl-,cis-cyclopentanol	FSCC	83	32 ug/g
	2-methyl-pentanoic acid	FSCC	83	39 ug/g

DS

523

TENTATIVELY IDENTIFIED COMPOUNDS

Sample #	Compound	Fraction	% Purity	Estimated Concentration (ug/l)
B1849	ethane, 1-chloro-1,1,2,2-tetrafluoro	IFBS	80.8	56.0
	methane, dichlorofluoro-	IFBS	86.3	10.0
	ethane, 1,2-dichloro-1,1,2-trifluoro	IFBS	95.0	6.2
	ethane, 1,1'-oxybis	IFBS	97.5	490.0
	propane, 2,2'-oxybis	IFBS	97.7	69.0
	cyclohexanone, 3,3,5-trimethyl	IFBS	87.9	29.0
	2-pentanone, 4-hydroxy-4-methyl	FSCC	93	30
	3-heptanone, 5-methyl-	FSCC	94	2
	cyclohexanol, 3,3,5-trimethyl	FSCC	82	9
B1850	2-pentanone, 4-hydroxy-4-methyl-	ABN	96.0	16
	benzene, 1,3-dimethyl	ABN	96.9	1.4
B1851	furan, tetrahydro-	IFBS	95.6	11
	ethane, 1,1'-oxybis-	IFBS	97.4	16
	cyclohexene	FSCC	91.7	58
	1,4-dioxane	FSCC	97.7	62
	2-pentanone, 4-hydroxy-4-methyl-	FSCC	95.5	92
	benzene, 1,3-dimethyl-	FSCC	88.7	5.2
	cyclopentanol, 2-methyl-,trans-	FSCC	87.5	5.2
B1852	2-pentanone, 4-hydroxy-4-methyl	FSCC6	93.6	240
	benzene, ethyl-	FSCC6	91.7	40
	pentanoic acid	FSCC6	81.8	21

D7

1564

TENTATIVELY IDENTIFIED COMPOUNDS

Sample #	Compound	Fraction	% Purity	Estimated Concentration (ug/l)
B1853	2-pentanone, 4-hydroxy-4-methyl	FSCC	95	26
	benzene, 1,3-dimethyl-	FSCC	92	6.3
B1854	dichlorofluoro methane	VOA	95.8	7.5 ug/g
	2-propanol	VOA	89.6	19.0 ug/g
	1,1'-oxybis ethane	VOA	98.5	392 ug/g
	2-butanol	VOA	91.7	26 ug/g
	2,2' oxybis propan	VOA	97.8	87 ug/g
	4-methyl-2-pentanol	VOA	87.9	43 ug/g
	tetrahydrofuran	VOA	89.6	94 ug/g
	cyclohexene	FSCC	92	47 ug/g
	2 pentanone, 4-methyl	FSCC	97	34 ug/g
	2 pentanol, 4-methyl	FSCC	92	110 ug/g
	2 pentanone, 4-hydroxy,4-methyl	FSCC	91	140 ug/g
	ethyl benzene	FSCC	87	4.9 ug/g
	cyclopentanol, 2-methyl-cis	FSCC	88	40 ug/g
	ethanone, 1-phenyl	FSCC	90	18 ug/g
2H-azepin-2-one, hexahydro	FSCC	89	6.7 ug/g	
B1855	1,1'-oxybis ethane	VOA	97	14 ug/g
	2,2'-oxybis propane	VOA	98	6 ug/g
	2-pentanone, 4-hydroxy-4-methyl	FSCC	91	22 ug/g
	benzene, ethyl-	FSCC	94	18
	benzene, 1,3-dimethyl	FSCC	89	8.7

D8

1565

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TENTATIVELY IDENTIFIED COMPOUNDS

Sample #	Compound	Fraction	% Purity	Estimated Concentration (ug/l)
B1856	cyclohexene	FSCC	93	110 ug/g
	1,4 dioxane	FSCC	98	120 ug/g
	2 pentanone, 4 methyl	FSCC	96	320 ug/g
	2 pentanol, 4 methyl	FSCC	93	160 ug/g
	benzene, ethyl	FSCC	91	480 ug/g
	benzene propanoic acid	FSCC	82	63
	cyclopentanol, -2 methyl-cis-	FSCC	87	310
	ethane, 1,1' oxybis/-2 methoxy-	FSCC	95	75
	benzene methanol, alpha-ethyl	FSCC	87	14
	1 propanone, 1-phenyl	FSCC	87	46
	benzene acetic acid	FSCC	85	49
	2H-azepin-2-one, hexahydro-	FSCC	86	6.2
	1,3,5 cyclohexatriene	FSCC	92	460
B1857	methane, dichlorofluoro	VOA	95.9	6.5
	ethane, 1,1'-oxybis-	VOA	95.7	6.5
	methane, dichlorofluoro-	VOAS	91.3	980
	2-propanol	VOAS	89.0	440
	ethane, 1, 1'-oxybis-	VOAS	92.1	1500
	2-butanol	VOAS	93.3	320
	propane, 2,2'-oxybis-	VOAS	97.3	640
	2-pentanol, 4-methyl-	VOAS	90.9	580

69

1566

TENTATIVELY IDENTIFIED COMPOUNDS

Sample #	Compound	Fraction	% Purity	Estimated Concentration (ug/l)
B1857(cont'd)	benzene, (1-methyl ethyl)-	VOAS	93.5	370
	benzene, 1, 3-dimethyl-	VOAS	94.0	1000
	1, 5-hexadien-3-yne	VOAS	93.9	2500
B1858	none			
B1859	borane, trimethyl	IFBS	80.6	31
	2-propanol	IFBS	89.2	930
	ethane, 1, 1'-oxybis-	IFBS	92.1	990
	2-butanol	IFBS	91.2	260
	propane, 2, 2'-oxybis	IFBS	97.6	330
	2-propenoic acid, 2-methyl-methyl ester	IFBS	89.5	30
	2-pentanol, 4-methyl-	IFBS	89.0	210
	benzene, (1-methyl ethyl)-	IFBS	92.8	63
	1,4 dioxane	FSCC	98	610
	2-pentanone, 4-methyl	FSCC	96	2200
	benzene, ethyl	FSCC	88	2600
	butanoic acid	FSCC	83	2900
	butanoic acid, 2-methyl	FSCC	85	4900
	pentanoic acid	FSCC	86	11000
	pentanoic acid, 2-methyl	FSCC	88	1600
	pentanoic acid, 2-methyl	FSCC	81	3300
	pentanoic acid, 2-methyl	FSCC	89	7900

D10

1567

## TENTATIVELY IDENTIFIED COMPOUNDS

Sample #	Compound	Fraction	% Purity	Estimated Concentration (ug/l)
B1859(cont'd)				
	hexanoic acid, 2-methyl	FSCC	81	4000
	octanoic acid	FSCC	89	7600
	benzene propanoic acid	FSCC	84	3700
B1860	methane, trichloro-	ABN	98.3	410
	cyclohexane	ABN	83.5	2100
	2-pentanone, 4-hydroxy-4-methyl-	ABN	95.1	71
	2H-azepin-2-one, hexahydro-	ABN	88.9	26
B1861	2-pentanone, 4-hydroxy-4-methyl-	FSCC6	93.6	230
	benzene, ethyl-	FSCC6	85.9	8.4
	benzene, 1,3-dimethyl-	FSCC6	94.8	14
	1,3-dioxolane-4-methanol, 2,2-dimethyl	FSCC6	90.7	21
B1862	dichlorofluoromethane	VOA	95	24
	1,1'-oxybisethane	VOA	98	194
	2,2'-oxybispropane	VOA	98	44
	(1-methylethyl)-benzene	VOA	92	28
	1,3-dimethylbenzene	VOA	92	13
	1,3,5-cycloheptatriene	FSCC	96	64
	4-hydroxy-4-methyl-2-pentanone	FSCC	96	190
	ethyl benzene	FSCC	95	360
	1,3-dimethyl benzene	FSCC	93	29
	(1-methylethyl) benzene	FSCC	90	28
			87	88

D11

1568

TENTATIVELY IDENTIFIED COMPOUNDS

Sample #	Compound	Fraction	% Purity	Estimated Concentration (ug/l)
B1862	1,3 - dimethyl benzene	FSCC	95	33
	1,1'-oxybis/2-methoxy ethane	FSCC	96	49
	3,3'-dimethyl hexane	FSCC	81	4.1
	1-heptadecanol	FSCC	87	13
B1863	2-pentanone, 4-hydroxy-4-methyl	FSCC	94.1	170
	benzene, 1,3-dimethyl	FSCC	91.4	9.0
B1864	4-hydroxy-4-methyl-2-pentanone	FSCC	96	290
	ethyl benzene	FSCC	84	7
	1,3-dimethyl benzene	FSCC	95	22
	trans-2-methyl cyclopentanol	FSCC	87	13
	1-(2-butoxyethoxy) ethanol	FSCC	85	120
B1865	None			
B1866	ethene, chloro-	IFBS	95.0	50
	methane, dichlorofluoro	IFBS	92.7	820
	2-propanol	IFBS	90.7	220
	ethane, 1,1'-oxybis	IFBS	94.9	1300
	2-butanol	IFBS	92.3	200
	propane, 2,2'-oxybis	IFBS	97.8	470
	2-pentanol, 4-methyl-	IFBS	89.9	290
	2-hexanone, 5-methyl-	IFBS	88.8	40
	benzene, (1-methylethyl)	IFBS	93.5	560

D12

1569

## TENTATIVELY IDENTIFIED COMPOUNDS

Sample #	Compound	Fraction	% Purity	Estimated Concentration (ug/l)
B1866	benzene, 1,3-dimethyl-	IFBS	94.1	670
	4-methyl-2-pentanone	FSCC	85	2000
	methyl benzene	FSCC	93	1900
	ethyl benzene	FSCC	88	1500
	1,3-dimethyl benzene	FSCC	85	470
	benzene acetic acid	FSCC	87	1100
	sulfur	FSCC	87	17
	propanoic acid	FSCC	95	130
B1867	2,3-dichloro-2-methyl butane	FSCC	91	2.5
	4-hydroxy-4-methyl-2-pentanone	FSCC	97	61
	1,3-dimethyl benzene	FSCC	98	7.4
	cyclohexanone	FSCC	89	5.0
B1869	none			

DL3

1570