K5-8302-5

IL-0174-14
158356

TABLE 2 - ORGANIC ANALYSES OF SOILS BELOW SAUGET/SAUGET LANDFILL, IN PPB

	BORING/SAMPLE NUMBER Depth (in feet)							
	B1A 10.0-11.5	B1B 17.5-19.0	B2A 13.5-15.5	B2B 17.0-19.0	B3A 10.0-12.0	B3B 13.5-15.5	B4A 10.0-12.0	B4B 13.5-15.5
2,3,7,8-TCDD								3.31
2,4,6-trichlorophenol	2,500	170,000	22,000	520	1400	1500		94,000
2-chlorophenol	24,000	65,000	800		1500	LT	57,000	360,000
2,4-dichlorophenol	66,000	3,100,000	31,000	1700	760	4500		370,000
2,4-dimethylphenol			500					72,000
4,6-dinitro-2-methylphenol								
pentachlorophenol		86,000	5400	LT		11,000		100,000
phenol	24,000	55,000	45,000	4400	3200	100,000	98,000	88,000
2-methylphenol								
4-methylphenol			LT		560	LT		330,000
2,4,5-trichlorophenol				LT				
acenaphthene			1200	2800				
1,2,4-trichlorobenzene				480			LT	100,000
1,2-dichlorobenzene	LT		LT			LT		20,000
1,4-dichlorobenzene			1800	720	LT	760	LT	66,000
fluoranthene				1200				LT
isophorone								
naphthalene			11,000	8300				LT
nitrobenzene		8800	400					56,000
N-nitrosodiphenylamine								
bis(2-ethylhexyl)phthalate				LT				62,000
butyl benzyl phthalate								

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P = The sample could not be cleaned up sufficiently to yield TCDD results.
NA = Not analyzed, sample could not be cleaned up sufficiently.

TABLE 2 (Continued)

	BORING/SAMPLE NUMBER Depth (in feet)							
	B1A 10.0-11.5	B1B 17.5-19.0	B2A 13.5-15.5	B2B 17.0-19.0	B3A 10.0-12.0	B3B 13.5-15.5	B4A 10.0-12.0	B4B 13.5-15.5
di-n-butyl phthalate	LT							LT
di-n-octyl phthalate								
diethyl phthalate								
benzo(a)anthracene								
benzo(a)pyrene								
benzo(b)fluoranthene								
benzo(k)fluoranthene								
chrysene								
anthracene				400				
benzo(ghi)perylene								
fluorene			600	2000				
phenanthrene			1000	2700				LT
dibenzo(a,h)anthracene								
indeno(1,2,3-cd)pyrene								
pyrene			LT	LT				LT
aniline								
4-chloroaniline			LT					
dibenzofuran			1000	3000				
2-methylnaphthalene			2000	2300				
3-nitroaniline			4600					
benzene								

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NA = Not analyzed, sample could not be cleaned up sufficiently.

TABLE 2 (Continued)

	BORING/SAMPLE NUMBER Depth (in feet)							
	B1A 10.0-11.5	B1B 17.5-19.0	B2A 13.5-15.5	B2B 17.0-19.0	B3A 10.0-12.0	B3B 13.5-15.5	B4A 10.0-12.0	B4B 13.5-15.5
chlorobenzene							10,000	40,000
1,2-dichloroethane								
1,1-dichloroethane								
1,1,2,2-tetrachloroethane								
1,2-trans-dichloroethene								
ethylbenzene								
methylene chloride			7.4	3.7	LM	8.0		
tetrachloroethene								
toluene								
trichloroethene								
acetone			960			977		LM
2-butanone								
4-methyl-2-pentanone						LT		
styrene								
o-xylene								5100
PCB-1242				2.0				
PCB-1254								
PCB-1248	1000							
PCB-1260			485.2		69.6			
PCB-1016			2120.6					
Total PCB							68,000	1,000,000

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NA = Not analyzed, sample could not be cleaned up sufficiently.

TABLE 2 (Continued)

	BORING/SAMPLE NUMBER Depth (in feet)							
	B5A 13.5-15.5	B5B 17.0-19.0	B6A 10.0-12.0	B6B 13.5-15.5	B7A 10.0-12.0	B7B 13.5-15.5	B8A 13.5-15.5	B8B 17.5-19.5
2,3,7,8-TCDD								0.11
2,4,6-trichlorophenol	130,000	26,000	2700	4800	2700		480,000	10,000
2-chlorophenol	31,000	8400	1600	1600	LT			
2,4-dichlorophenol	560,000	260,000	17,000	15,000	6100		1,500,000	64,000
2,4-dimethylphenol			2000					
4,6-dinitro-2-methylphenol								
pentachlorophenol				16,000	25,000	31,000		
phenol	140,000	250,000	45,000	11,000	1800			
2-methylphenol			1400	600				
4-methylphenol		36,000	7000	1400				
2,4,5-trichlorophenol								
acenaphthene								
1,2,4-trichlorobenzene	86,000	13,000					120,000	
1,2-dichlorobenzene	100,000	28,000	LT				180,000	
1,4-dichlorobenzene			3100	800				
fluoranthene								
isophorone								
naphthalene		LT	800	LT			380,000	LT
nitrobenzene	27,000	11,000	LT				52,000	
N-nitrosodiphenylamine								
bis(2-ethylhexyl)phthalate								
butyl benzyl phthalate								

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TABLE 2 (Continued)

	BORING/SAMPLE NUMBER Depth (in feet)							
	B5A 13.5-15.5	B5B 17.5-19.0	B6A 10.0-12.5	B6B 13.5-15.5	B7A 10.0-12.0	B7B 13.5-15.5	B8A 13.5-15.5	B8B 17.5-19.5
di-n-butyl phthalate			400	LT				
di-n-octyl phthalate								
diethyl phthalate								
benzo(a)anthracene								
benzo(a)pyrene						LT		
benzo(b)fluoranthene						LT		
benzo(k)fluoranthene						LT		
chrysene						LT		
anthracene								
benzo(ghi)perylene								
fluorene								
phenanthrene								
dibenzo(a,h)anthracene								
indeno(1,2,3-cd)pyrene								
pyrene								
aniline								
4-chloroaniline			9000					
dibenzofuran								
2-methylnaphthalene								
3-nitroaniline								
benzene						3.2	LM	

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P = The sample could not be cleaned up sufficiently to yield TCDD results.
NA = Not analyzed, sample could not be cleaned up sufficiently.

TABLE 2 (Continued)

	BORING/SAMPLE NUMBER Depth (in feet)							
	B5A 13.5-15.5	B5B 17.0-19.0	B6A 10.0-12.0	B6B 13.5-15.5	B7A 10.0-12.0	B7B 13.5-15.5	B8A 13.5-15.5	B8B 17.5-19.5
chlorobenzene	18,000	27,000	100,000	8.4		4.2	7100	
1,2-dichloroethane			12,000	3.4				
1,1-dichloroethane								
1,1,2,2-tetrachloroethane								
1,2-trans-dichloroethene								
ethylbenzene			46,000	3.8		4.5		
methylene chloride				15.0	86.0	45.0	LT	
tetrachloroethene						LT		
toluene			50,000	LT		6.1		
trichloroethene						LT		
acetone				330	200	2600		
2-butanone								
4-methyl-2-pentanone				LT	LT	LT		
styrene								
o-xylene			140,000	13.0	LT	22.0		
PCB-1242	170,000						1700	2700
PCB-1254	360,000							
PCB-1248				4700				
PCB-1260					590	13,000	880	1500
PCB-1016					2300	46,000		
Total PCB		66,000						

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P = The sample could not be cleaned up sufficiently to yield TCDD results.
NA = Not analyzed, sample could not be cleaned up sufficiently.

TABLE 2 (Continued)

	BORING/SAMPLE NUMBER Depth (in feet)							
	B9A 15.0-17.0	B9B 17.0-19.0	B10A 17.0-19.0	B10B 19.0-21.0	B11A 17.0-19.0	B11B 19.0-21.0	B12A 17.0-19.0	B12B 19.0-21.0
2,3,7,8-TCDD			P		P	P		
2,4,6-trichlorophenol	LT	600	48,000	640			4400	9400
2-chlorophenol	640	1100	1700	LT			1200	520
2,4-dichlorophenol	7400	9800	170,000	9600	3200	20,000	8800	4200
2,4-dimethylphenol		LT						
4,6-dinitro-2-methylphenol								
pentachlorophenol		4800		2200			24,000	920
phenol	7500	14,000	32,000	11,000	6200	37,000	17,000	7500
2-methylphenol								
4-methylphenol	1400	2300	2700				1000	720
2,4,5-trichlorophenol								
acenaphthene								
1,2,4-trichlorobenzene			11,000				520	3600
1,2-dichlorobenzene			11,000		LT			800
1,4-dichlorobenzene		LT	27,000		LT			1000
fluoranthene								
isophorone					17,000	LT		720
naphthalene			6500		72,000	35,000	LT	640
nitrobenzene								
N-nitrosodiphenylamine							LT	
bis(2-ethylhexyl)phthalate	440				52,000	34,000	440	
butyl benzyl phthalate					LT			

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TABLE 2 (Continued)

	BORING/SAMPLE NUMBER Depth (in feet)							
	B9A 15.0-17.0	B9B 17.0-19.0	B10A 15.0-17.0	B10B 17.0-19.0	B11A 15.0-17.0	B11B 17.0-19.0	B12A 15.0-17.0	B12B 17.0-19.0
chlorobenzene			5200		LM			
1,2-dichloroethane								
1,1-dichloroethane								
1,1,2,2-tetrachloroethane								
1,2-trans-dichloroethene								
ethylbenzene			6500		220,000			
methylene chloride	3.3	300	8700	LT			LT	
tetrachloroethene								
toluene			130,000		1,300,000	100,000		LM
trichloroethene					42,000			
acetone	210	14,000		4400				
2-butanone								
4-methyl-2-pentanone							LT	
styrene								
o-xylene			30,000		650,000	70,000		LM
PCB-1242	600		NA					
PCB-1254			NA					
PCB-1248			NA		38,000	70,000		
PCB-1260	1500	1300	NA	120	45,000	681,000	7000	5000
PCB-1016			NA	78.0			2200	3900

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TABLE 2 (Continued)

	BORING/SAMPLE NUMBER Depth (in feet)							
	B9A 15.0-17.0	B9B 17.0-19.0	B10A 17.0-19.0	B10B 19.0-21.0	B11A 17.0-19.0	B11B 19.0-21.0	B12A 17.0-19.0	B12B 19.0-21.0
di-n-butyl phthalate		1500	LT		23,000	LT		
di-n-octyl phthalate								
diethyl phthalate	LT	840						
benzo(a)anthracene								
benzo(a)pyrene								
benzo(b)fluoranthene								1000
benzo(k)fluoranthene								1000
chrysene					6400			
anthracene								
benzo(ghi)perylene								
fluorene								
phenanthrene					5200			
dibenzo(a,h)anthracene								
indeno(1,2,3-cd)pyrene								
pyrene					5600			
aniline								
4-chloroaniline								LT
dibenzofuran								
2-methylnaphthalene					10,000			
3-nitroaniline								
benzene			LM					

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P = The sample could not be cleaned up sufficiently to yield TCDD results.
NA = Not analyzed, sample could not be cleaned up sufficiently.

TABLE 2 (Continued)

	BORING/SAMPLE NUMBER Depth (in feet)							
	B13A 17.0-19.0	B13B 19.0-21.0	B14A 17.0-19.0	B14B 19.0-21.0	B15A 22.0-24.0	B15B 24.0-26.0	B16A 22.0-24.0	B17A 22.0-24.0
2,3,7,8-TCDD			P	P				
2,4,6-trichlorophenol	20,000	4600			800	1900	7700	6400
2-chlorophenol	2500	3800			600	1600	4600	100,000
2,4-dichlorophenol	9400	11,000	460,000			11,000	27,000	120,000
2,4-dimethylphenol		LT					680	
4,6-dinitro-2-methylphenol	LT							
pentachlorophenol	12,000	44,000		16,000	4200	12,000	39,000	26,000
phenol	8900	15,000			6000	13,000	16,000	50,000
2-methylphenol								
4-methylphenol	920	1400		16,000		1000	1900	9200
2,4,5-trichlorophenol							LT	
acenaphthene								
1,2,4-trichlorobenzene	2400	3000	13,000,000	2,000,000				
1,2-dichlorobenzene			620,000	55,000			LT	
1,4-dichlorobenzene	1300	2000	1,200,000	100,000		1600	4100	
fluoranthene								
isophorone				14,000				
naphthalene		LT	210,000	20,000		720	2000	
nitrobenzene								
N-nitrosodiphenylamine		400						
bis(2-ethylhexyl)phthalate			1,100,000	220,000				4600
butyl benzyl phthalate				LT		LT		

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TABLE 2 (Continued)

	BORING/SAMPLE NUMBER Depth (in feet)							
	B13A 17.0-19.0	B13B 19.0-21.0	B14A 17.0-19.0	B14B 19.0-21.0	B15A 22.0-24.0	B15B 24.0-26.0	B16A 22.0-24.0	B17B 22.0-24.0
di-n-butyl phthalate		LT	900,000	49,000	LT	3800		
di-n-octyl phthalate		LT						
diethyl phthalate						LT		
benzo(a)anthracene								
benzo(a)pyrene	LT							
benzo(b)fluoranthene	1300*							
benzo(k)fluoranthene	1300*							
chrysene								
anthracene								
benzo(ghi)perylene	880							
fluorene								
phenanthrene								
dibenzo(a,h)anthracene	LT							
indeno(1,2,3-cd)pyrene	LT							
pyrene								
aniline							680	
4-chloroaniline	LT	2200					9600	
dibenzofuran								
2-methylnaphthalene				LT				
3-nitroaniline								
benzene			44,000					

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NA = Not analyzed, sample could not be cleaned up sufficiently.

TABLE 2 (Continued)

	BORING/SAMPLE NUMBER Depth (in feet)							
	B13A 17.0-19.0	B13B 19.0-21.0	B14A 17.0-19.0	B14B 19.0-21.0	B15A 22.0-24.0	B15B 24.0-26.0	B16A 22.0-24.0	1317A 22.0-24.0
chlorobenzene			63,000	LM				
1,2-dichloroethane								
1,1-dichloroethane			19,000					
1,1,2,2-tetrachloroethane			5700					
1,2-trans-dichloroethene			11,000					
ethylbenzene			790,000	330,000		LT		
methylene chloride	50.0	13.0	5800		2.5	23.0		LM
tetrachloroethene			12,000					
toluene			2,400,000	540,000				
trichloroethene			55,000					
acetone	90.0	430			540	1400		
2-butanone			LM					
4-methyl-2-pentanone		LT	250,000		LT			
styrene				64,000	4.2	5.3		
o-xylene			2,300,000	1,400,000		LT		
PCB-1242						5000		
PCB-1254								
PCB-1248								
PCB-1260	770	1300	2,900,000	16,000,000	190	1000	370	68.0
PCB-1016					210			
Total PCB								

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NA = Not analyzed, sample could not be cleaned up sufficiently.

TABLE 2 (Continued)

	BORING/SAMPLE NUMBER Depth (in feet)						
	B17B 24.0-26.0	B18A 22.0-24.0	B18B 24.0-26.0	Blank 1	Blank 2	Spike @1.0 ppb	Spike @1.0 ppb
2,3,7,8-TCDD						0.37	0.91
2,4,6-trichlorophenol							
2-chlorophenol							
2,4-dichlorophenol							
2,4-dimethylphenol	3800						
4,6-dinitro-2-methylphenol							
pentachlorophenol							
phenol							
2-methylphenol							
4-methylphenol							
2,4,5-trichlorophenol							
acenaphthene							
1,2,4-trichlorobenzene							
1,2-dichlorobenzene							
1,4-dichlorobenzene	550		LT				
fluoranthene					1000		
isophorone							
naphthalene							
nitrobenzene							
N-nitrosodiphenylamine							
bis(2-ethylhexyl)phthalate	580	910	1400	LT			
butyl benzyl phthalate							

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P = The sample could not be cleaned up sufficiently to yield TCDD results.
NA = Not analyzed, sample could not be cleaned up sufficiently.

TABLE 2 (Continued)

	BORING/SAMPLE NUMBER Depth (in feet)				
	B17B 24.0-26.0	B18A 22.0-24.0	B18B 24.0-26.0	Blank 1	Blank 2
di-n-butyl phthalate			LT		
di-n-octyl phthalate		LT			
diethyl phthalate					
benzo(a)anthracene		520			600
benzo(a)pyrene					LT
benzo(b)fluoranthene		LT			LT
benzo(k)fluoranthene		LT			LT
chrysene		640			560
anthracene					
benzo(ghi)perylene					
fluorene					
phenanthrene					720
dibenzo(a,h)anthracene					
indeno(1,2,3-cd)pyrene					
pyrene		LT			800
aniline	51,000	1700			
4-chloroaniline		960			
dibenzofuran					
2-methylnaphthalene					
3-nitroaniline					
benzene					

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LM = Present, but lower than the detection limit for medium hazard analyses.
P = The sample could not be cleaned up sufficiently to yield TCDD results.
NA = Not analyzed, sample could not be cleaned up sufficiently.

TABLE 2 (Continued)

	BORING/SAMPLE NUMBER Depth (in feet)				
	B17B 24.0-26.0	B18A 22.0-24.0	B18B 24.0-26.0	Blank 1	Blank 2
chlorobenzene	4.1				
1,2-dichloroethane					
1,1-dichloroethane					
1,1,2,2-tetrachloroethane					
1,2-trans-dichloroethene					
ethylbenzene	7.7				
methylene chloride	6.1	19.0	47.0	LM	6.9
tetrachloroethene					
toluene					
trichloroethene					
acetone	2000		260		
2-butanone					
4-methyl-2-pentanone					
styrene					
o-xylene	23.0				
PCB-1242					
PCB-1254					
PCB-1248					
PCB-1260	160		2400		260
PCB-1016					
Total PCB		670			

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LM = Present, but lower than the detection limit for medium hazard analyses.
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NA = Not analyzed, sample could not be cleaned up sufficiently.