Table 4. Contaminant Data for Pool 2 of the Upper Mississippi River

		Record #	36	37	38	407			39	40	417	408	41	418	42	410
		River Mile	843.36	840.71	840.7	840.5	840.5	840.5	840.4	840.32	840.2	840	839.7	839.6	839.5	839.2
		Location	LOW. MOUTH MN. RIVER	AB&BW SMITH AVE BR	AB&BW SMITH AVE BR	AB&BW SMITH AVE BR	SMITH AVE BRIDGE 2	SMITH AVE BRIDGE 1	AB&BW SMITH AVE BR	AB&BW SMITH AVE BR	AB&BW SMITH AVE BR	AB&BW SMITH AVE BR	ST. PAUL SM BOAT	ST. PAUL SM BOAT HRBR	HARRIET IS.	HARRIET IS
		Year	1974	1978	1978	1989	1994	1994	1975	1974	1989	1989	1981	1989	1980	1989
		System	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		Habitat Type	1	1	1	1	1	1	1	1	1	1	2	2	1	1
		Pool	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		Sam. Gear	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		Sam. Depth	10	10	10	10	10	10	10	10	10	10	10	10	10	10
		Data Cit.	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE
CHC'S	ug/kg	a-BHC				< 0.1	< 0.24	< 0.22			< 0.08	< 0.08		< 0.09		< 0.15
	ug/kg	b-BHC				< 0.2	1.7	< 0.22			< 0.16	< 0.15		< 0.19		< 0.3
	ug/kg	BHC				< 0.29	< 0.24	< 0.22			< 0.24	< 0.23		< 0.28		< 0.45
	ug/kg	g-BHC (lindane)				< 0.13	< 0.24	< 0.22			< 0.11	< 0.1		< 0.13		< 0.2
	ug/kg	Heptachlor				< 0.1	< 0.24	< 0.22			< 0.08	< 0.08		< 0.09		< 0.15
	ug/kg	Aldrin				< 0.13					< 0.11	< 0.1		< 0.13		< 0.2
	ug/kg	Heptachlorepoxide				< 0.16					< 0.14	< 0.13		< 0.16		< 0.25
	ug/kg	Endosulfan I				< 0.16					< 0.14	< 0.13		< 0.16		< 0.25
	ug/kg	Dieldrin	< 10	0	0	< 0.16	< 0.48	< 0.44		< 10	< 0.14	< 0.13	1.5	< 0.16	0	< 0.25
	ug/kg	4,4'-DDE	< 10	0	0	< 0.13	< 0.48	< 0.44		< 10	< 0.11	< 0.1	< 0.1	< 0.13	0.8	< 0.2
	ug/kg	Endrin	< 10	0	1	< 0.29	< 0.48	< 0.44		< 10	< 0.24	< 0.23	< 0.1	< 0.28	0	< 0.45
	ug/kg	Endosulfan II				< 0.33					< 0.27	< 0.26		< 0.31		< 0.5
	ug/kg	4,4'-DDD	< 10	0.4	0	< 0.36	< 0.48	< 0.44		< 10	< 0.3	< 0.28	1.5	< 0.35	0	< 0.55
	ug/kg	Endrinaldehyde				< 0.36					< 0.3	< 0.28		< 0.35		< 0.55
	ug/kg	Sulfan sulfate				< 0.36					< 0.3	< 0.28		< 0.35		< 0.55
	ug/kg	4,4'-DDT	< 10	0	0	< 0.42	< 0.48	< 0.44		< 10	< 0.35	< 0.33	0.9	< 0.41	0	< 0.65
	ug/kg	Methoxychlor				< 0.72					< 0.59	< 0.56		< 0.69		< 1.1
	ug/kg	Endrinketone				< 0.36					< 0.3	< 0.28		< 0.35		< 0.55
	ug/kg	Chlorodane	< 10	0	0	< 1.96	< 0.24	< 0.22		< 10	< 1.62	< 1.54	7	< 1.88	0	< 3
	ug/kg	Toxaphene				< 1.54					< 1.88	< 1.38		< 1.46		< 2.68
METALS	mg/kg	Ag (silver)														
	mg/kg	Al (aluminum)														
	mg/kg	As (arsenic)	< 0.8	0	0	2.7	0.72	0.68	0.36	< 0.8	2.7	< 1	29	2.5	0	5.8
	mg/kg	B (boron)														
	mg/kg	Ba (barium)		20	20								100		30	
	mg/kg	Be (beryllium)														
	mg/kg	Cd (cadmium)	< 1	< 10	< 10	< 1.7	< 0.11	< 0.11	< 0.1	< 1	< 1.7	< 1.1	3	< 1.5	< 10	< 2.4
	mg/kg	Cr (chromium)	15	< 10	< 10	11.75	6.7	5.9	8.6	12	7.4	6.4	10	7.7	10	26.2
	mg/kg	Cu (copper)	10	< 10	< 10	19.8	2.6	5.3	3.5	3	10.9	8	18	10.4	30	24
	mg/kg	Fe (iron)		3500	3400								1200		2700	
	mg/kg	Hg (mercury)	4.6	0	0	0.64	< 0.04	< 0.04	0.079	0.6	0.034	< 0.01	< 0.01	0.037	0	0.093
	mg/kg	Mg (magnesium)														
	mg/kg	Mn (manganese)		210	210	777.5	197	632			427	81.1	1100	558	240	1400
	mg/kg	Mo (molybdenum)														
	mg/kg	Ni (nickel)	12	< 10	< 10	11.15	6.2	8.4		12	< 8.4	< 5.7	20	8.6	10	19
	mg/kg	Pb (lead)	< 10	< 10	< 10	23.75	1.9	2.3	< 0.1	12	26.9	3.8	40	8.1	10	32
	mg/kg	Sb (antimony)														
	mg/kg	Se (selenium)				1.7					< 1.2	< 0.81		< 1.1		2.8
	mg/kg	Sn (tin)														
	mg/kg	Sr (strontium)														
	mg/kg	Ti (titanium)														
	mg/kg	Zn (zinc)	19	10	10	55.55	11.5	14.9	16.1	18	38	24.7	67	40.8	1.9	97.1
	mg/kg	V (vanadium)														
PCB'S	ug/kg	Aroclor-1006				< 1.96	< 4.8	< 4.4			< 1.62	< 1.54		< 1.88		< 3
	ug/kg	Aroclor-1221				< 1.96	< 4.8	< 4.4			< 1.62	< 1.54		< 1.88		< 3
	ug/kg	Aroclor-1232				< 1.96	< 4.8	< 4.4			< 1.62	< 1.54		< 1.88		< 3
	ug/kg	Aroclor-1242				< 1.96	< 4.8	< 4.4			< 1.62	< 1.54		< 1.88		< 3
	ug/kg	Aroclor-1248				< 1.96	< 4.8	< 4.4			< 1.62	< 1.54		< 1.88		< 3
	ug/kg	Aroclor-1254				< 4.08	< 4.8	< 4.4			< 3.38	< 3.2		< 3.93		< 6.25
	ug/kg	Aroclor-1260				< 4.08	< 4.8	< 4.4			< 3.38	< 3.2		< 3.93		< 6.25
	ug/kg	Total PCB's	0	5	0					0	0		8		6	
PARTICLE SIZE %FINER	SAND coarse	3 in		100	100				100	100					100	
		1 1/2	96	100	100				100	100			100		100	
		3/4	90	100	100				100	100			100		100	
		3/8	83	100	79				89	100			100		94	
		4	72	99	60	100	99.3	58.3	79	98	100	96.9	100	100	82	100
		8	56						57	90			100		82	
		10		95	34	99.7	96.3	42.6			96.6	86.1		100		99.2
	SAND medium	16	40.0			96.1			43.0	23.0	91.5	68.7	100	99.7	80.0	99.2
		20		75.0	15.0		75.4	30.7								
		30				84.1					87.6	35.0	100	98.8		96.8
		40	12.0	38.0	7.0		23.9	12.9	7.0	12.0			100		58.0	
		50				84.1					87.6	35.0	100	98.8		96.8
	SAND fine	70											99.0			
		80		7.0	4.0	69.3					83.3	16.4		97.5		94.4
		100	0.0			29.7	5.5	1.0	1.0	0.0	25.9	1.3	98.0	48.4	26.0	75.4
		140				24.8	4.6	0.7			19.0	1.1		40.0		69.1
	SILT CLAY	200	0.0	3.0	3.0	18.2	3.0	0.4	0.0	0.0	16.0	0.9	92.0	27.0	20.0	48.4
		270				13.6					9.7	0.7	85.0	17.5		33.6
		0.20 mm	0.0	0.5	0.0	10.5			0.0	0.0	6.7	0.5	51.0	12.9	12.0	25.2
		0.05 mm	0.0	0.0	0.0	7.0			0.0	0.0	6.0	0.4	22.0	10.4	4.0	16.1
MISC	%	Total Organic Carb				2.43	0.061	0.069			4.37	2.61		3.39		5.58
	mg/kg	Chem Oxy Demand	1401	4400	2900				1850	< 487			62000		9100	
	mg/kg	Kjedahl Nitrogen	186	330	330				--	447			6030		900	
	mg/kg	Total Phosph	192	160	470				--	216			--		--	
	mg/kg	Oil and Grease	256	0	0				47	773			0		0	
	mg/kg	Cyanide, Total				< 0.91	< 0.06	< 0.06			< 0.91	< 0.62		< 0.83		< 1.3
	mg/kg	Ammonia				87					94	5.3		90		176
	mg/l	Ammonia Elutriate					< 0.06	< 0.06								
	%	Moisture				44.6	16.3	15.7			45.1	18.9		39.5		62.2
	%	Total Solids				55.4	83.7	84.3			54.9	81.1		60.5		37.8
	%	Volatile Solids				4.5	1.19	1.23			4.8	0.8		4.2		7.8

Table 4. Contaminant Data for Pool 2 of the Upper Mississippi River

		Record #	43	44	45	1094	1100	1097	1113	1109	1105	1114	1127	1122	1126	1118
		River Mile	839.02	839.01	839	839	839	839	839	839	839	839	839	839	839	839
		Location	HARRIET IS.	HARRIET IS.	HARRIET IS.	St. Paul -North	St. Paul - south	St. Paul - mid	St. Paul - south	St. Paul - mid	St. Paul -North	St. Paul - mean	St. Paul - mean	St. Paul - mid	St. Paul - south	St. Paul - north
		Year	1978	1978	1978	1981	1981	1981	1982	1982	1982	1982	1983	1983	1983	1983
		System	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		Habitat Type	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		Pool	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		Sam. Gear	1	1	1	3	3	3	3	3	3	3	3	3	3	3
		Sam. Depth	10	10	10	10	10	10	10	10	10	10	10	10	10	10
		Data Cit.	COE	COE	COE	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC
CHC'S	ug/kg	a-BHC										< 5	5	< 0.53	< 0.53	5.7
	ug/kg	b-BHC										< 10	< 1.1	< 1.1	< 1.1	< 1.1
	ug/kg	BHC														
	ug/kg	g-BHC (lindane)										20	< 0.53	< 0.53	< 0.53	< 0.53
	ug/kg	Heptachlor										4	< 0.53	< 0.53	< 0.53	< 0.53
	ug/kg	Aldrin														
	ug/kg	Heptachlorepoxide														
	ug/kg	Endosulfan I														
	ug/kg	Dieldrin	0	0	0							< 20	< 1.6	< 1.6	< 1.6	< 1.6
	ug/kg	4,4'-DDE	0	0.5	0							< 7	< 1.6	< 1.6	< 1.6	< 1.6
	ug/kg	Endrin	0	0	0							< 10	< 2.1	< 2.1	< 2.1	< 2.1
	ug/kg	Endosulfan II														
	ug/kg	4,4'-DDD	0	2.1	0.2							< 14	< 3.2	< 3.2	< 3.2	< 3.2
	ug/kg	Endrinaldehyde														
	ug/kg	Sulfan sulfate														
	ug/kg	4,4'-DDT	0	0	0							< 20	< 4.2	< 4.2	< 4.2	< 4.2
	ug/kg	Methoxychlor														
	ug/kg	Endrinketone														
	ug/kg	Chlorodane	0	4	0							< 2	< 11	< 11	< 11	< 11
	ug/kg	Toxaphene														
METALS	mg/kg	Ag (silver)				0.13	0.071	0.199	0.228	0.129	0.121			0.136	0.329	0.076
	mg/kg	Al (aluminum)														
	mg/kg	As (arsenic)	0	2	0	4.51	0.98	1.09	5.09	2.31	1.11			2.95	2.91	1.38
	mg/kg	B (boron)														
	mg/kg	Ba (barium)	30	140	10											
	mg/kg	Be (beryllium)				0.38	0.137	0.266	0.553	0.28	0.117			0.119	0.168	0.129
	mg/kg	Cd (cadmium)	< 10	< 10	< 10	0.1	0.219	0.096	0.316	0.087	0.079			0.138	0.156	0.093
	mg/kg	Cr (chromium)	< 10	10	< 10	24.5	17.3	26.3	24.4	22.2	7.9			24	36.7	17.2
	mg/kg	Cu (copper)	10	20	< 10	5.6	5.6	7.7	14.3	6.4	4.2			6.9	11.2	3.9
	mg/kg	Fe (iron)	3700	14000	4000											
	mg/kg	Hg (mercury)	0	0	0	0.05	0.05	0.17	0.05	0.06	0.06			0.05	0.05	0.05
	mg/kg	Mg (magnesium)														
	mg/kg	Mn (manganese)	140	1900	290				908.7	525	266.2					
	mg/kg	Mo (molybdenum)														
	mg/kg	Ni (nickel)	30	20	10	15.3	14.2	14.1	15.6	11	6			10.9	16.8	9.8
	mg/kg	Pb (lead)	30	60	40	31.1	8.4	20.4	14.4	7.8	6			13.1	18.2	16.5
	mg/kg	Sb (antimony)														
	mg/kg	Se (selenium)				0.16	0.37	0.52	0.07	0.06	0.06			0.08	0.05	0.05
	mg/kg	Sn (tin)														
	mg/kg	Sr (strontium)														
	mg/kg	Ti (titanium)							0.9	0.7	0.7			0.4	0.6	0.6
	mg/kg	Zn (zinc)	68	80	20	54.7	22.3	37.7	60.1	29	18.7			26.9	35	15.3
	mg/kg	V (vanadium)														
PCB'S	ug/kg	Aroclor-1006										50	< 5.3	< 5.3	< 5.3	< 5.3
	ug/kg	Aroclor-1221														
	ug/kg	Aroclor-1232														
	ug/kg	Aroclor-1242														
	ug/kg	Aroclor-1248														
	ug/kg	Aroclor-1254										1100	54	11	16	34
	ug/kg	Aroclor-1260										< 20	47	6.3	29	16
	ug/kg	Total PCB's	0	66	10											
PARTICLE SIZE %FINER	SAND coarse	3 in	100	100	100											
		1 1/2	100	100	100											
		3/4	100	100	98											
		3/8	100	100	83											
		4	100	100	63											
		8														
		10	98	98	27											
	SAND medium	16														
		20	92.0	87.0	9.0											
		30														
		40	33.0	77.0	5.0											
		50														
	SAND fine	70														
		80	15.0	72.0	4.0											
		100														
		140														
	SILT CLAY	200	5.0	68.0	3.0											
		270														
		0.20 mm	1.0	48.0	0.0											
		0.05 mm	0.0	25.0	0.0											
MISC	%	Total Organic Carb														
	mg/kg	Chem Oxy Demand	3300	66000	3500											
	mg/kg	Kjedahl Nitrogen	300	9800	250											
	mg/kg	Total Phosph	140	1100	370											
	mg/kg	Oil and Grease	0	0	0											
	mg/kg	Cyanide, Total														
	mg/kg	Ammonia														
	mg/l	Ammonia Elutriate														
	%	Moisture														
	%	Total Solids														
	%	Volatile Solids														

Table 4. Contaminant Data for Pool 2 of the Upper Mississippi River

		Record #	1139	1135	1131	1139	1138	1152	1147	1151	1143	409	46	411	47	48
		River Mile	839	839	839	839	839	839	839	839	839	839	838.5	837.8	837.52	837.51
		Location	St. Paul - mean -dup	St. Paul - mid	St. Paul - north	St. Paul - mean	St. Paul - south	St. Paul - mean	St. Paul - mid	St. Paul - south	St. Paul - north	HARRIET IS.	HARRIET IS	ST. PAUL BARGE TERM	ST. PAUL BARGE TERM	ST. PAUL BARGE TERM
		Year	1984	1984	1984	1984	1984	1985	1985	1985	1985	1989	1980	1989	1975	1975
		System	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		Habitat Type	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		Pool	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		Sam. Gear	3	3	3	3	3	3	3	3	3	1	1	1	1	1
		Sam. Depth	10	10	10	10	10	10	10	10	10	10	10	10	10	10
		Data Cit.	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	COE	COE	COE	COE	COE
CHC'S	ug/kg	a-BHC	6.8	< 0.32	7.9	6.2	1.2	0.98				< 0.07		< 0.13		
	ug/kg	b-BHC	< 0.64	< 0.64	< 0.64	< 0.64	< 0.64	< 0.53				< 0.14		< 0.27		
	ug/kg	BHC										< 0.21		< 0.4		
	ug/kg	g-BHC (lindane)	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.26				< 0.09		< 0.18		
	ug/kg	Heptachlor	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.26				< 0.07		< 0.13		
	ug/kg	Aldrin										< 0.09		1.1		
	ug/kg	Heptachlorepoxide										< 0.12		< 0.22		
	ug/kg	Endosulfan I										< 0.12		< 0.22		
	ug/kg	Dieldrin	< 0.96	< 0.96	< 0.96	< 0.96	< 0.96	< 0.79				< 0.12	0	< 0.22		
	ug/kg	4,4'-DDE	< 0.96	< 0.96	< 0.96	< 0.96	< 0.96	< 0.79				< 0.09	7.3	< 0.18		
	ug/kg	Endrin	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.1				< 0.21	0	< 0.4		
	ug/kg	Endosulfan II										< 0.23		< 0.45		
	ug/kg	4,4'-DDD	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.6				< 0.25	5.9	< 0.49		
	ug/kg	Endrinaldehyde										< 0.25		< 0.49		
	ug/kg	Sulfan sulfate										< 0.25		< 0.49		
	ug/kg	4,4'-DDT	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.1				< 0.3	0	< 0.58		
	ug/kg	Methoxychlor										< 0.51		< 0.98		
	ug/kg	Endrinketone										< 0.25		< 0.49		
	ug/kg	Chlorodane	< 6.4	< 6.4	< 6.4	< 6.4	< 6.4	267				< 1.38	5	< 2.68		
	ug/kg	Toxaphene										< 3		< 2.09		
METALS	mg/kg	Ag (silver)		0.105	0.039		0.196		0.144	0.025	0.013					
	mg/kg	Al (aluminum)														
	mg/kg	As (arsenic)		1.95	5.49		3.88		3.78	2.88	2.12	< 0.98	0	4.5	1.56	1.5
	mg/kg	B (boron)														
	mg/kg	Ba (barium)											120			
	mg/kg	Be (beryllium)		0.219	0.187		0.68		0.231	0.216	0.111					
	mg/kg	Cd (cadmium)		0.181	0.083		0.675		0.28	0.037	0.022	< 1.1	< 10	< 2.2	0.9	1
	mg/kg	Cr (chromium)		12.8	9.1		22.5		22	16.9	7.8	8	20	13.6	10.9	13.3
	mg/kg	Cu (copper)		7.7	4		13.9		9.6	6.7	2.5	15.1	< 10	11	9.7	10.4
	mg/kg	Fe (iron)											8800			
	mg/kg	Hg (mercury)		0.15	0.05		0.05		0.06	0.05	0.05	< 0.01	0	0.066	0.058	0.051
	mg/kg	Mg (magnesium)														
	mg/kg	Mn (manganese)		359	553.5		991.9		561.4	246.7	223.3	230	1400	713		
	mg/kg	Mo (molybdenum)														
	mg/kg	Ni (nickel)		7.5	6.8		17.8		11.5	9.2	5.4	6.1	20	< 11		
	mg/kg	Pb (lead)		10.8	4.1		15.5		22.2	4.7	5	9.5	50	36.7	28.4	36.5
	mg/kg	Sb (antimony)							12.2	7.7	5.8					
	mg/kg	Se (selenium)		0.12	0.12		0.12		0.12	0.12	0.13	< 0.77		< 1.6		
	mg/kg	Sn (tin)														
	mg/kg	Sr (strontium)														
	mg/kg	Ti (titanium)		0.6	0.6		0.6		4.5	3.2	2.4					
	mg/kg	Zn (zinc)		26.3	17.5		59.6		28.7	17.2	12.7	16	77	50.9	41.3	42.7
	mg/kg	V (vanadium)														
PCB'S	ug/kg	Aroclor-1006	< 3.2	< 3.2	< 3.2	< 3.2	< 3.2	145				< 1.38		< 2.68		
	ug/kg	Aroclor-1221										< 1.38		< 2.68		
	ug/kg	Aroclor-1232										< 1.38		< 2.68		
	ug/kg	Aroclor-1242										< 1.38		< 2.68		
	ug/kg	Aroclor-1248										< 1.38		< 2.68		
	ug/kg	Aroclor-1254	63	14	37	51	19	< 5.3				< 2.88		< 5.58		
	ug/kg	Aroclor-1260	34	8.8	17	30	33	12.2				< 2.88		< 5.58		
	ug/kg	Total PCB's											29		0	0
PARTICLE SIZE %FINER	SAND coarse	3 in											100		100	100
		1 1/2											100		100	100
		3/4											100		100	100
		3/8											100		100	100
		4										90.4	100	99.2	99	99
		8											100		99	99
		10										76.9		94.6		
	SAND medium	16										53.7	99.0	93.7	96.0	96.0
		20														
		30										31.2		76.0		
		40											85.0		53.0	53.0
		50										31.2		76.0		
	SAND fine	70														
		80										14.4		60.9		
		100										0.1	58.0	41.1	19.0	19.0
		140												35.7		
	SILT	200											36.0	24.0	9.0	9.0
		270												16.5		
	CLAY	0.20 mm											19.0	14.9		
		0.05 mm											9.0	8.5		
MISC	%	Total Organic Carb										0.034		6.24		
	mg/kg	Chem Oxy Demand											690		15755	16600
	mg/kg	Kjedahl Nitrogen											7400		--	--
	mg/kg	Total Phosph											--		--	--
	mg/kg	Oil and Grease											0		1625	1712
	mg/kg	Cyanide, Total										< 0.58		< 1.2		
	mg/kg	Ammonia										0.81		110		
	mg/l	Ammonia Elutriate														
	%	Moisture										14.1		59		
	%	Total Solids										85.9		41		
	%	Volatile Solids										0.9		6.5		

Table 4. Contaminant Data for Pool 2 of the Upper Mississippi River

		Record #	1C	1T		2C	3C	2T	2B	3B	3T	49	50	4B	5B	5C
		River Mile	837.5	837.5	837.5	837.4	837.4	837.4	837.4	837.4	837.4	837.21	837.2	837.2	837.2	837.2
		Location	ST. PAUL BARGE TERM.	ST. PAUL BARGE TERM.	STPBH 1	ST. PAUL BARGE TERM.	ST. PAUL BARGE TERM.	ST. PAUL BARGE TERM.	ST. PAUL BARGE TERM.	ST. PAUL BARGE TERM.	ST. PAUL BARGE TERM.	ST. PAUL BARGE TERM.	ST. PAUL BARGE TERM.	ST. PAUL BARGE TERM.	ST. PAUL BARGE TERM.	ST. PAUL BARGE TERM.
		Year	1992	1992	1994	1992	1992	1992	1992	1992	1992	1978	1974	1992	1992	1992
		System	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		Habitat Type	1	1	2	1	1	1	1	1	1	1	1	1	1	1
		Pool	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		Sam. Gear	4	4	1	4	4	4	4	4	4	1	1	4	4	4
		Sam. Depth	10-244	10	10	10-128	10-259	10	128	259	10	10	10	207	229	10-229
		Data Clt.	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE
CHC'S	ug/kg	a-BHC	< 1.1	< 1	< 0.31	< 1	< 1	< 0.7	< 1.2	< 1	< 0.8			< 0.79	< 0.79	< 0.9
	ug/kg	b-BHC	< 1.1	< 1	0.92	< 1	< 1	< 0.7	< 1.2	< 1	< 0.8			< 0.79	< 0.79	< 0.9
	ug/kg	BHC	< 1.1	< 1	< 0.31	< 1	< 1	< 0.7	< 1.2	< 1	< 0.8			< 0.79	< 0.79	< 0.9
	ug/kg	g-BHC (lindane)	< 1.1	< 1	< 0.31	< 1	< 1	< 0.7	< 1.2	< 1	< 0.8			< 0.79	< 0.79	< 0.9
	ug/kg	Heptachlor	< 1.1	< 1	< 0.31	< 1	< 1	< 0.7	< 1.2	< 1	< 0.8			< 0.79	< 0.79	< 0.9
	ug/kg	Aldrin														
	ug/kg	Heptachlorepoxide														
	ug/kg	Endosulfan I														
	ug/kg	Dieldrin	< 1.1	< 1	< 0.62	< 1	< 1	< 0.7	< 1.2	< 1	< 0.8	1.9	< 10	< 0.79	< 0.79	< 0.9
	ug/kg	4,4'-DDE	1.5	2.6	< 0.62	< 1	< 1	< 0.7	3.6	1.4	< 0.8	0	< 10	< 0.79	< 0.79	< 0.9
	ug/kg	Endrin	< 1.1	< 1	< 0.62	< 1	< 1	< 0.7	< 1.2	< 1	< 0.8	0	< 10	< 0.79	< 0.79	< 0.9
	ug/kg	Endosulfan II														
	ug/kg	4,4'-DDD	< 1.1	< 1	< 0.62	< 1	< 1	< 0.7	< 1.2	< 1	< 0.8	3.8	< 10	< 0.79	< 0.79	< 0.9
	ug/kg	Endrinaldehyde														
	ug/kg	Sulfan sulfate														
	ug/kg	4,4'-DDT	< 1.1	< 1	< 0.62	< 1	< 1	< 0.7	< 1.2	< 1	< 0.8	0	< 10	< 0.79	< 0.79	< 0.9
	ug/kg	Methoxychlor														
	ug/kg	Endrinketone														
	ug/kg	Chlorodane	< 1.1	< 1	< 0.31	< 1	< 1	< 0.7	< 1.2	< 1	< 0.8	9	< 10	< 0.79	< 0.79	< 0.9
	ug/kg	Toxaphene														
METALS	mg/kg	Ag (silver)														
	mg/kg	Al (aluminum)														
	mg/kg	As (arsenic)	5.9	3.2	3.5	4.5	5.1	2.2	6.9	3.6	1.9	2	< 0.8	1.3	2.3	5.4
	mg/kg	B (boron)														
	mg/kg	Ba (barium)										100				
	mg/kg	Be (beryllium)														
	mg/kg	Cd (cadmium)	0.41	0.36	0.43	0.35	0.29	0.12	1	0.26	0.09	< 10	0.9	0.06	0.17	0.29
	mg/kg	Cr (chromium)	11	6.5	14	8.5	10	3.4	15	8.7	4.9	10	9	2.5	5.6	8.6
	mg/kg	Cu (copper)	19	6.5	9	16	16	4	42	13	4.3	20	2	1.4	5.8	10
	mg/kg	Fe (iron)										12000				
	mg/kg	Hg (mercury)	< 0.1	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	0.13	< 0.1	< 0.1	0	1.1	< 0.1	< 0.1	< 0.1
	mg/kg	Mg (magnesium)														
	mg/kg	Mn (manganese)	1100	390	563	926	940	260	1400	690	280	1300		140	300	620
	mg/kg	Mo (molybdenum)	<													
	mg/kg	Ni (nickel)	12	8.2	11	11	14	4.7	13	11	6.2	30	5	2.9	7	11
	mg/kg	Pb (lead)	21	< 2.5	10	9.2	8.9	< 2.5	35	< 9.7	< 2.5	60	< 9	< 2.5	6.5	7
	mg/kg	Sb (antimony)														
	mg/kg	Se (selenium)														
	mg/kg	Sn (tin)														
	mg/kg	Sr (strontium)														
	mg/kg	Ti (titanium)														
	mg/kg	Zn (zinc)	66	26	40.7	48	49	15	100	45	21	70	12	9.4	27	40
	mg/kg	V (vanadium)														
PCB'S	ug/kg	Aroclor-1006	< 11	< 10	< 6.2	< 10	< 10	< 7	< 12	< 10	< 8			< 7.9	< 7.9	< 9
	ug/kg	Aroclor-1221	< 11	< 10	< 6.2	< 10	< 10	< 7	< 12	< 10	< 8			< 7.9	< 7.9	< 9
	ug/kg	Aroclor-1232	< 11	< 10	< 6.2	< 10	< 10	< 7	< 12	< 10	< 8			< 7.9	< 7.9	< 9
	ug/kg	Aroclor-1242	< 11	< 10	< 6.2	< 10	< 10	< 7	< 12	< 10	< 8			< 7.9	< 7.9	< 9
	ug/kg	Aroclor-1248	< 11	< 10	< 6.2	< 10	< 10	< 7	< 12	< 10	< 8			< 7.9	< 7.9	< 9
	ug/kg	Aroclor-1254	< 11	< 10	< 6.2	< 10	< 10	< 7	< 12	< 10	< 8			< 7.9	< 7.9	< 9
	ug/kg	Aroclor-1260	< 11	< 10	< 6.2	< 10	< 10	< 7	< 12	< 10	< 8			< 7.9	< 7.9	< 9
	ug/kg	Total PCB's										200	0			
PARTICLE SIZE %FINER	SAND coarse	3 in										100	100			
		1 1/2										100	100			
		3/4										100	100			
		3/8										100	100			
		4										100	100			
		8											96			
		10			100							100				
	SAND medium	16											90.0			
		20			99.8							100				
		30														
		40			99.5							100	20.0			
		50														
	SAND fine	70														
		80										94.0				
		100			95.6								0.0			
		140			86.3											
	SILT CLAY	200			76.0							83.0	0.0			
		270														
		0.20 mm										45.0	0.0			
		0.05 mm										22.0	0.0			
MISC	%	Total Organic Carb			0.744											
	mg/kg	Chem Oxy Demand										73000	1874			
	mg/kg	Kjedahl Nitrogen										7300	134			
	mg/kg	Total Phosph										960	210			
	mg/kg	Oil and Grease										0	318			
	mg/kg	Cyanide, Total	0.5	0.5	0.63	0.5	0.5	0.5	0.5	0.5	0.5			0.5	0.5	0.5
	mg/kg	Ammonia	28	2.1		19	15	0.49	30	14	1.7			3.7	4.7	8.3
	mg/l	Ammonia Elutriate			1.5											
	%	Moisture			36.2											
	%	Total Solids	57.5	72.1	63.8	60.1	63	78.3	47.8	57.6	68.1			76.3	72.8	67.2
	%	Volatile Solids	6.5	2.7	4.66	5.8	4.8	1.2	9.4	4.9	1.7			1.2	2.7	4.5

Table 4. Contaminant Data for Pool 2 of the Upper Mississippi River

		Record #	5T	4C		51	52	W3	W1	W2	412	53	54	55	413	56
		River Mile	837.2	837.2	837.2	837.19	837	836.8	836.8	836.8	836.6	835.07	833.03	832.4	832.1	831.5
		Location	ST. PAUL BARGE TERM.	ST. PAUL BARGE TERM.	STPBH 2	ST. PAUL BARGE TERM.	ST. PAUL BARGE TERM.	Wetland/Holman Field	Wetland/Holman Field	Wetland/Holman Field	ST. PAUL BARGE TERM.			BELOW CUDAHY	BELOW CUDAHY	BELOW CUDAHY
		Year	1992	1992	1994	1978	1980	1992	1992	1992	1989	1974	1974	1981	1989	1980
		System	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		Habitat Type	1	1	2	1	1				1	1	1	1	1	1
		Pool	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		Sam. Gear	4	4	1	1	1				1	1	1	1	1	1
		Sam. Depth	10	10-207	10	10	10	10	10	10	10	10	10	10	10	10
		Data Cit.	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE
OCHCs	ug/kg	a-BHC	< 0.9	< 0.86	< 0.23			< 1.2	< 1.4	< 1.2	< 0.1				< 0.1	
	ug/kg	b-BHC	< 0.9	< 0.86	0.45			< 1.2	< 1.4	< 1.2	< 0.21				< 0.21	
	ug/kg	BHC	< 0.9	< 0.86	< 0.23			< 1.2	< 1.4	< 1.2	< 0.31				< 0.31	
	ug/kg	g-BHC (lindane)	< 0.9	< 0.86	< 0.23			< 1.2	< 1.4	< 1.2	< 0.14				< 0.14	
	ug/kg	Heptachlor	< 0.9	< 0.86	< 0.23			< 1.2	< 1.4	< 1.2	< 0.1				< 0.1	
	ug/kg	Aldrin									< 0.14				1	
	ug/kg	Heptachlorepoxide									< 0.17				< 0.17	
	ug/kg	Endosulfan I									< 0.17				< 0.17	
	ug/kg	Dieldrin	< 0.9	< 0.86	< 0.45	0	0.66	< 1.2	< 1.4	< 1.2	< 0.17	< 10	< 10	0.8	< 0.17	< 0.2
	ug/kg	4,4'-DDE	< 0.9	< 0.86	< 0.45	0	< 0.2	2.6	2.2	2.6	< 0.14	< 10	< 10	< 0.1	< 2.1	< 0.2
	ug/kg	Endrin	< 0.9	< 0.86	< 0.45	0	0.2	< 1.2	< 1.4	< 1.2	< 0.31	< 10	< 10	< 0.1	< 0.31	< 0.2
	ug/kg	Endosulfan II									< 0.35				< 0.34	
	ug/kg	4,4'-DDD	< 0.9	< 0.86	< 0.45	0.3	1.43	1.8	< 1.4	2.4	< 0.38	< 10	< 10	1.9	< 0.38	0.6
	ug/kg	Endrinaldehyde									< 0.38				< 0.38	
	ug/kg	Sulfan sulfate									< 0.38				< 0.38	
	ug/kg	4,4'-DDT	< 0.9	< 0.86	< 0.45	0	1.68	< 1.2	< 1.4	< 1.2	< 0.45	< 10	< 10	0.4	< 0.44	< 0.4
	ug/kg	Methoxychlor									< 0.77				< 0.75	
	ug/kg	Endrinketone									< 0.38				< 0.38	
	ug/kg	Chlorodane	< 0.9	< 0.86	< 0.23	1	3.05	< 1.2	< 1.4	< 1.2	< 2.09	< 10	< 10	4	< 2.05	0.83
	ug/kg	Toxaphene									< 2.05				< 2.42	
METALS	mg/kg	Ag (silver)														
	mg/kg	Al (aluminum)														
	mg/kg	As (arsenic)	3.9	3	1.9	0		4.8	5.7	7	3.1	1.8	1.2	9	2.5	
	mg/kg	B (boron)														
	mg/kg	Ba (barium)				10								50		
	mg/kg	Be (beryllium)														
	mg/kg	Cd (cadmium)	0.23	0.16	0.41	< 10	0.75	1.1	1	0.89	< 1.6	6	15	2	< 0.81	1.91
	mg/kg	Cr (chromium)	8.3	6.7	11.3	< 10	38.5	20	18	18	11.1	43	115	10	8.7	56.1
	mg/kg	Cu (copper)	10	7	3.4	< 10	8.8	37	34	32	10.8	33	36	11	7.3	9.58
	mg/kg	Fe (iron)				2600	14500							5000		12400
	mg/kg	Hg (mercury)	< 0.1	< 0.1	< 0.04	0	< 0.01	0.14	< 0.1	0.12	0.048	0.8	0.8	0.02	0.03	< 0.01
	mg/kg	Mg (magnesium)														
	mg/kg	Mn (manganese)	600	400	345	130		1200	1200	1300	609			490	283	
	mg/kg	Mo (molybdenum)														
	mg/kg	Ni (nickel)	10	7.5	11.1	< 10	22.4	21	20	19	9.2	33	42	< 10	5.8	22.9
	mg/kg	Pb (lead)	4.2	3.7	2.3	10	19.5	37	36	40	21.8	95	73	20	27.7	7.44
	mg/kg	Sb (antimony)		<												
	mg/kg	Se (selenium)									< 1.2				< 1.1	
	mg/kg	Sn (tin)														
	mg/kg	Sr (strontium)														
	mg/kg	Ti (titanium)														
	mg/kg	Zn (zinc)	38	27	17.6	10	202	110	100	98	55.6	143	170	40	32.2	157
	mg/kg	V (vanadium)														
PCB's	ug/kg	Aroclor-1006	< 9	< 8.6	< 4.5			< 12	< 14	< 12	< 2.09				< 2.05	
	ug/kg	Aroclor-1221	< 9	< 8.6	< 4.5			< 12	< 14	< 12	< 2.09				< 2.05	
	ug/kg	Aroclor-1232	< 9	< 8.6	< 4.5			< 12	< 14	< 12	< 2.09				< 2.05	
	ug/kg	Aroclor-1242	< 9	< 8.6	< 4.5			< 12	< 14	< 12	< 2.09				< 2.05	
	ug/kg	Aroclor-1248	< 9	< 8.6	< 4.5			< 12	< 14	< 12	< 2.09				< 2.05	
	ug/kg	Aroclor-1254	< 9	< 8.6	< 4.5			< 12	< 14	< 12	< 4.35				< 4.28	
	ug/kg	Aroclor-1260	< 9	< 8.6	< 4.5			< 12	< 14	< 12	< 4.35				< 4.28	
	ug/kg	Total PCB's				11	15.9					0	0	20		4.81
PARTICLE SIZE %FINER	SAND coarse	3 in				100	100									100
		1 1/2				100	100							100		100
		3/4				100	100							100		100
		3/8				100	100							100		100
		4			71.6	100	100				100			100	100	100
		8					100							96		100
		10			52.7	100					100				99.4	
	SAND medium	16					100				99.5			88.0	98.2	88.0
		20			35.0	90.0										
		30									97.8			73.0	92.5	
		40			16.0	34.0	100							81.0		35.0
		50									97.8			50.0	92.5	
	SAND fine	70												46.0		
		80				9.0					85.6				76.3	
		100			3.8		76.0				33.0			43.0	38.9	11.0
		140			3.6						29.0				34.9	
	SILT CLAY	200			3.0	4.0	42.0				19.5			34.0	24.9	11.0
		270									13.3			29.0	16.9	
		0.20 mm				0.0					9.3			15.0	12.3	
		0.05 mm				0.0	19.0				8.8			7.0	8.3	6.0
MISC	%	Total Organic Carb			0.075						6.69				2.19	
	mg/kg	Chem Oxy Demand				3500	18400					101355	75148	23000		6600
	mg/kg	Kjedahl Nitrogen				230	--					422	2797	4090		--
	mg/kg	Total Phosph				100	1770					1130	1687	--		1770
	mg/kg	Oil and Grease				0	560					1269	884	0		12400
	mg/kg	Cyanide, Total	0.5	0.5	< 0.06			0.5	0.5	0.5	< 0.89				< 0.87	
	mg/kg	Ammonia	4.1	5.1				0.82	3.8	0.18	77				164	
	mg/l	Ammonia Elutriate			< 0.06											
	%	Moisture			15.7						43.7				42.5	
	%	Total Solids	63.6	70.3	84.3			43.4	44.2	50	56.3				57.5	
	%	Volatile Solids	5.1	3.5	1.21			11.5	10.7	10.3	4				4.8	

Table 4. Contaminant Data for Pool 2 of the Upper Mississippi River

		Record #	414	57	1164	1160	1156	416	58	59	60	1364	61	62	1365	63
		River Mile	831.2	831.1	831	831	831	828.2	828	827.91	827.9	827.9	827.85	827.84	827.8	827.7
		Location	BELOW CUDAHY	BELOW CUDAHY	Newport - west	Newport - mid	Newport - east	GREY CLOUD SLOUGH	GREY CLOUD SLOUGH	GREY CLOUD SLOUGH	GREY CLOUD SLOUGH	Grey Cloud Slough 2	GREY CLOUD SLOUGH	GREY CLOUD SLOUGH	Grey Cloud Slough 1	GREY CLOUD SLOUGH
		Year	1989	1981	1985	1985	1985	1989	1980	1978	1978	1994	1974	1974	1994	1975
		System	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		Habitat Type	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		Pool	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		Sam. Gear	1	1	3	3	3	1	1	1	1	3	1	1	3	1
		Sam. Depth	10	10	10	10	10	10	10	10	10	10	10	10	10	10
		Data Cit.	COE	COE	MWCC	MWCC	MWCC	COE	COE	COE	COE	COE	COE	COE	COE	COE
CHC'S	ug/kg	a-BHC	< 0.12					< 0.77				< 0.25			< 0.24	
	ug/kg	b-BHC	< 0.24					< 1.54				< 0.25			< 0.24	
	ug/kg	BHC	< 0.36					< 2.3				< 0.25			< 0.24	
	ug/kg	g-BHC (lindane)	< 0.16					< 1.02				< 0.25			< 0.24	
	ug/kg	Heptachlor	< 0.12					< 0.77				< 0.25			< 0.24	
	ug/kg	Aldrin	0.4					< 1.02								
	ug/kg	Heptachlorepoxide	< 0.2					< 1.28								
	ug/kg	Endosulfan I	< 0.2					< 1.28								
	ug/kg	Dieldrin	< 0.2	2.7				< 1.28	< 0.2	0	0	< 0.49	< 10	< 10	< 0.48	
	ug/kg	4,4'-DDE	< 0.16	< 0.1				< 1.02	< 0.2	0	0	< 0.49	< 10	< 10	< 0.48	
	ug/kg	Endrin	< 0.36	< 0.1				< 2.3	< 0.2	0	0	< 0.49	< 10	< 10	< 0.48	
	ug/kg	Endosulfan II	< 0.4					< 2.56								
	ug/kg	4,4'-DDD	< 0.44	5.6				< 2.82	0.2	0	0	< 0.49	< 10	< 10	< 0.48	
	ug/kg	Endrinaldehyde	< 0.44					< 2.82								
	ug/kg	Sulfan sulfate	< 0.44					< 2.82								
	ug/kg	4,4'-DDT	< 0.53	1.2				< 3.33	< 0.4	0	0	< 0.49	< 10	< 10	< 0.48	
	ug/kg	Methoxychlor	< 0.89					< 5.63								
	ug/kg	Endrinketone	< 0.44					< 2.82								
	ug/kg	Chlorodane	< 2.42	8				< 15.36	< 0.4	0	0	< 0.25	< 10	< 10	< 0.24	
	ug/kg	Toxaphene	< 1.44					< 1.62								
METALS	mg/kg	Ag (silver)			0.055	0.064	0.068									
	mg/kg	Al (aluminum)														
	mg/kg	As (arsenic)	2.4	14	2.16	2.06	4.59	1.6		0	0	0.77	< 0.8	< 0.9	1.4	0.45
	mg/kg	B (boron)														
	mg/kg	Ba (barium)		60						10	10					
	mg/kg	Be (beryllium)			0.14	0.136	0.349									
	mg/kg	Cd (cadmium)	< 1.6	3	0.064	0.06	0.15	< 1.2	0.96	< 10	< 10	0.38	< 1	< 1	0.39	< 0.1
	mg/kg	Cr (chromium)	15.1	10	7.8	7.5	17.3	5.9	33.2	< 10	< 10	7.8	12	10	8.7	16.5
	mg/kg	Cu (copper)	10.9	16	3.5	2.4	6.1	< 1.5	6.64	< 10	< 10	2.4	5	2	2	7.9
	mg/kg	Fe (iron)		6100					11100	3000	1700					
	mg/kg	Hg (mercury)	0.038	< 0.01	0.05	0.05	0.05	< 0.01	< 0.01	0.06	0	< 0.04	0.7	0.4	< 0.04	0.097
	mg/kg	Mg (magnesium)														
	mg/kg	Mn (manganese)	606	680	265.5	266.1	812.6	257		170	100	256			487	
	mg/kg	Mo (molybdenum)														
	mg/kg	Ni (nickel)	10.9	10	5.9	5.6	9.4	< 5.8	28.7	< 10	< 10	6.8	10	7	8.2	
	mg/kg	Pb (lead)	15.3	30	3.9	3.1	4.6	2.8	4.9	< 10	< 10	2.6	< 10	< 10	6.7	< 0.1
	mg/kg	Sb (antimony)			5.2	4.9	14.1									
	mg/kg	Se (selenium)	< 1.1		0.12	0.12	0.12	< 0.83								
	mg/kg	Sn (tin)														
	mg/kg	Sr (strontium)														
	mg/kg	Ti (titanium)			2.3	1.8	5.4									
	mg/kg	Zn (zinc)	52.6	54	13.5	11.6	25.7	13.4	66.4	20	8	14	19	20	15.3	29.7
	mg/kg	V (vanadium)														
PCB'S	ug/kg	Aroclor-1006	< 2.42					< 15.36				< 4.9			< 4.8	
	ug/kg	Aroclor-1221	< 2.42					< 15.36				< 4.9			< 4.8	
	ug/kg	Aroclor-1232	< 2.42					< 15.36				< 4.9			< 4.8	
	ug/kg	Aroclor-1242	< 2.42					< 15.36				< 4.9			< 4.8	
	ug/kg	Aroclor-1248	< 2.42					< 15.36				< 4.9			< 4.8	
	ug/kg	Aroclor-1254	< 5.05					< 32				< 4.9			< 4.8	
	ug/kg	Aroclor-1260	< 5.05					< 32				< 4.9			< 4.8	
	ug/kg	Total PCB's		38					1.2	0	0		0	0		0
PARTICLE SIZE %FINER	SAND coarse	3 in							100		100		100	100		100
		1 1/2		100					100		100		100	100		100
		3/4		100					100		100		100	100		100
		3/8		100					100		100		100	100		100
		4	100	100				98.4	100		100	99.9	100	100	96.2	99
		8		100					100				98	98		98
		10	98.4					95.9			96	96.4			82	
	SAND medium	16	93.4	100				88.2	90.0				92.0	92.0		88.0
		20									84.0	70.4			59.2	
		30	60.2	99.0				35.1								
		40		95.0					35.0		34.0	7.9	18.0	18.0	29.1	26.0
		50	60.2	89.0				35.1								
	SAND fine	70		87.0												
		80	31.0					2.4			3.0					
		100	22.7	85.0				0.4	3.0			0.4	0.0	0.0	4.1	3.0
		140	20.8					0.3				0.0			1.6	
	SILT CLAY	200	15.7	76.0					2.0		2.0	0.0	0.0	0.0	1.1	3.0
		270	10.7	70.0												
		0.20 mm	8.1	42.0							0.0		0.0	0.0		
		0.05 mm	5.7	16.0					2.0		0.0		0.0	0.0		
MISC	%	Total Organic Carb	1.39					0.068				0.066			0.043	
	mg/kg	Chem Oxy Demand		44000					2760	1900	2800	11500	950	511	10600	4850
	mg/kg	Kjedahl Nitrogen		4150					--	350	302		236	138		--
	mg/kg	Total Phosph		--					853	85	97		177	250		--
	mg/kg	Oil and Grease		0					7870	0	0	< 0.06	76	64	< 0.06	133
	mg/kg	Cyanide, Total	< 0.85					< 0.63				<0.06			0.09	
	mg/kg	Ammonia	58					1.2								
	mg/l	Ammonia Elutriate										<0.06			<0.06	
	%	Moisture	41.2					20.8				20.2			15.8	
	%	Total Solids	58.8					79.2				79.8			84.2	
	%	Volatile Solids	3					0.5				1.15			1.06	

Table 4. Contaminant Data for Pool 2 of the Upper Mississippi River

		Record #	415	1168	1174	1171	1188	1187	1183	1179	1192	1201	1196	1200	1212	1213
		River Mile	827.6	827	827	827	827	827	827	827	827	827	827	827	827	827
		Location	GREY CLOUD SLOUGH	Grey Cloud - east	Grey Cloud - west	Grey Cloud - mid	Grey Cloud - mean	Grey Cloud - west	Grey Cloud - mid	Grey Cloud - east	Grey Cloud - east	Grey Cloud - mean	Grey Cloud - mid	Grey Cloud - west	Grey Cloud - west	Grey Cloud - mean-du
		Year	1989	1981	1981	1981	1982	1982	1982	1982	1983	1983	1983	1983	1984	1984
		System	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		Habitat Type	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		Pool	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		Sam. Gear	1	3	3	3	3	3	3	3	3	3	3	3	3	3
		Sam. Depth	10	10	10	10	10	10	10	10	10	10	10	10	10	10
		Data Cit.	COE	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC
CH'CS	ug/kg	a-BHC	< 0.07				< 5				< 5	< 0.53	< 5	< 5	< 0.32	3.5
	ug/kg	b-BHC	< 0.14				< 10				< 10	< 1.1	< 10	< 10	< 0.64	< 0.64
	ug/kg	BHC	< 0.22													
	ug/kg	g-BHC (lindane)	< 0.1				8				< 7	< 0.53	< 7	< 7	< 0.32	< 0.32
	ug/kg	Heptachlor	< 0.07				9				< 5	< 0.53	< 5	< 5	< 0.32	< 0.32
	ug/kg	Aldrin	< 0.1													
	ug/kg	Heptachlorepoxide	< 0.12													
	ug/kg	Endosulfan I	< 0.12													
	ug/kg	Dieldrin	< 0.12				< 20				< 20	< 1.6	< 20	< 20	< 0.96	< 0.96
	ug/kg	4,4'-DDE	< 0.1				< 7				< 7	< 1.6	< 7	< 7	< 0.96	< 0.96
	ug/kg	Endrin	< 0.22				< 10				< 10	< 2.1	< 10	< 10	< 1.3	< 1.3
	ug/kg	Endosulfan II	< 0.24													
	ug/kg	4,4'-DDD	< 0.26				< 14				< 14	< 3.2	< 14	< 14	< 1.9	< 1.9
	ug/kg	Endrinaldehyde	< 0.26													
	ug/kg	Sulfan sulfate	< 0.26													
	ug/kg	4,4'-DDT	< 0.84				< 20				< 20	< 4.2	< 20	< 20	< 2.5	< 2.5
	ug/kg	Methoxychlor	< 0.53													
	ug/kg	Endrinketone	< 0.26													
	ug/kg	Chlorodane	< 1.44				< 2				< 2	< 11	< 2	< 2	< 6.4	< 6.4
	ug/kg	Toxaphene	< 15.36													
METALS	mg/kg	Ag (silver)		0.094	0.588	0.175		0.28	0.06	0.124	0.144		0.041	0.042	0.136	
	mg/kg	Al (aluminum)														
	mg/kg	As (arsenic)	1	1.83	8.82	1.44		3.3	1.71	2.13	2.09		1.15	2.16	1.65	
	mg/kg	B (boron)														
	mg/kg	Ba (barium)														
	mg/kg	Be (beryllium)		0.174	0.588	0.218		0.36	0.119	0.233	0.137		0.107	0.149	0.158	
	mg/kg	Cd (cadmium)	< 1.1	0.085	1.024	0.346		0.341	0.123	0.38	0.202		0.309	0.47	0.355	
	mg/kg	Cr (chromium)	6.7	22.6	50.2	31.8		19	14.8	18.8	33.5		17.3	38.7	10.8	
	mg/kg	Cu (copper)	7.7	5.3	24.8	8.4		10.4	4.3	7.4	6.2		6.2	12.3	5.4	
	mg/kg	Fe (iron)														
	mg/kg	Hg (mercury)	< 0.01	0.02	0.1	0.22		0.08	0.05	0.06	0.05		0.05	0.05	0.06	
	mg/kg	Mg (magnesium)														
	mg/kg	Mn (manganese)	537					539	415.8	923.8					257.9	
	mg/kg	Mo (molybdenum)														
	mg/kg	Ni (nickel)	5.6	15.4	25.5	18.9		11.5	9.8	13.2	15.8		11.7	16	6.6	
	mg/kg	Pb (lead)	1.5	5.5	25.8	13.7		10.6	2.2	4.2	4.2		3	11.9	4.8	
	mg/kg	Sb (antimony)														
	mg/kg	Se (selenium)	< 0.79	0.19	0.2	0.64		0.08	0.05	0.07	0.05		0.05	0.16	0.12	
	mg/kg	Sn (tin)														
	mg/kg	Sr (strontium)														
	mg/kg	Ti (titanium)						0.7	0.6	0.6	0.6		0.6	0.7	0.6	
	mg/kg	Zn (zinc)	15.6	30	102	40.3		44.4	19	28.9	27.1		19.3	44.7	23.6	
	mg/kg	V (vanadium)														
PCB'S	ug/kg	Aroclor-1006	< 1.44				80				< 20	32	9.8	13	< 3.2	< 3.2
	ug/kg	Aroclor-1221	< 1.44													
	ug/kg	Aroclor-1232	< 1.44													
	ug/kg	Aroclor-1242	< 1.44													
	ug/kg	Aroclor-1248	< 1.44													
	ug/kg	Aroclor-1254	< 3				1000				42	60	17	14	34	62
	ug/kg	Aroclor-1260	< 3				< 20				9.8	8.5	< 20	< 20	12	19
	ug/kg	Total PCB's														
PARTICLE SIZE %FINER	SAND coarse	3 in														
		1 1/2														
		3/4														
		3/8														
		4	100													
		8														
		10	96.4													
	SAND medium	16	84.4													
		20														
		30	30.6													
		40														
		50	30.6													
	SAND fine	70														
		80	2.1													
		100	0.6													
		140	0.5													
	SILT CLAY	200	0.5													
		270	0.4													
		0.20 mm	0.3													
		0.05 mm	0.2													
MISC	%	Total Organic Carb	0.049													
	mg/kg	Chem Oxy Demand														
	mg/kg	Kjedahl Nitrogen														
	mg/kg	Total Phosph														
	mg/kg	Oil and Grease														
	mg/kg	Cyanide, Total	< 0.6													
	mg/kg	Ammonia	< 0.24													
	mg/l	Ammonia Elutriate														
	%	Moisture	16.6													
	%	Total Solids	83.4													
	%	Volatile Solids	0.7													

Table 4. Contaminant Data for Pool 2 of the Upper Mississippi River

		Record #	1213	1205	1209	1221	1226	1225	1217	64	65	66	493	1361	1362	67
		River Mile	827	827	827	827	827	827	827	826.8	826.4	824.4	823.7	823.7	823.4	823.39
		Location	Grey Cloud - mean	Grey Cloud - east	Grey Cloud - mid	Grey Cloud - mid	Grey Cloud - mean	Grey Cloud - west	Grey Cloud - east	ROBINSONS ROCKS	ROBINSONS ROCKS	PINE BEND FOOT LIGHT	PINE BEND FOOT LIGHT	Pine Bend Foot Light 1	Pine Bend Foot Light 2	PINE BEND FOOT LIGHT
		Year	1984	1984	1984	1985	1985	1985	1985	1982	1982	1982	1989	1994	1994	1974
		System	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		Habitat Type	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		Pool	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		Sam. Gear	3	3	3	3	3	3	3	1	1	1	1	3	3	1
		Sam. Depth	10	10	10	10	10	10	10	10	10	10	10	10	10	10
		Data Cit.	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	COE	COE	COE	COE	COE	COE	COE
CHC'S	ug/kg	a-BHC	3	4.9	< 0.32	< 0.26	< 0.26	< 0.26	< 0.26				< 0.07	< 0.24	< 0.26	
	ug/kg	b-BHC	< 0.64	< 0.64	< 0.64	< 0.53	< 0.53	< 0.53	< 0.53				< 0.15	< 0.24	0.52	
	ug/kg	BHC											< 0.22	< 0.24	< 0.26	
	ug/kg	g-BHC (lindane)	< 0.32	1.2	< 0.32	< 0.26	< 0.26	< 0.26	< 0.26				< 0.1	< 0.24	< 0.26	
	ug/kg	Heptachlor	< 0.32	< 0.32	< 0.32	< 0.26	< 0.26	0.33	< 0.26				< 0.07	< 0.24	< 0.26	
	ug/kg	Aldrin											< 0.1			
	ug/kg	Heptachlorepoxide											< 0.12			
	ug/kg	Endosulfan I											< 0.12			
	ug/kg	Dieldrin	< 0.96	< 0.96	< 0.96	< 0.79	< 0.79	< 0.79	< 0.79	< 0.1	< 0.1	< 0.1	< 0.12	< 0.49	< 0.51	< 10
	ug/kg	4,4'-DDE	< 0.96	< 0.96	< 0.96	< 0.79	< 0.79	< 0.79	< 0.79	< 0.1	< 0.1	< 0.1	< 0.1	< 0.49	< 0.51	< 10
	ug/kg	Endrin	< 1.3	< 1.3	< 1.3	< 1.1	< 1.1	< 1.1	< 1.1	< 0.1	< 0.1	< 0.1	< 0.22	< 0.49	< 0.51	< 10
	ug/kg	Endosulfan II											< 0.24			
	ug/kg	4,4'-DDD	< 1.9	< 1.9	< 1.9	< 1.6	< 1.6	< 1.6	< 1.6	< 0.1	< 0.1	< 0.1	< 0.27	< 0.49	< 0.51	< 10
	ug/kg	Endrinaldehyde											< 0.27			
	ug/kg	Sulfan sulfate											< 0.27			
	ug/kg	4,4'-DDT	< 2.5	< 2.5	< 2.5	< 2.1	< 2.1	< 2.1	< 2.1	< 0.1	< 0.1	< 0.1	< 0.32	< 0.49	< 0.51	< 10
	ug/kg	Methoxychlor											< 0.54			
	ug/kg	Endriniketone											< 0.27			
	ug/kg	Chlorodane	< 6.4	< 6.4	< 6.4	< 5.3	< 5.3	< 5.3	< 5.3	< 1	< 1	< 1	< 1.46	< 0.24	< 0.26	< 10
	ug/kg	Toxaphene											< 2.38			
METALS	mg/kg	Ag (silver)		0.024	0.026	0.011		1.139	0.02							
	mg/kg	Al (aluminum)														
	mg/kg	As (arsenic)		2.9	1.48	1.66		6.34	3.25	1.5	1.3	1.1	< 1.11	0.97	1.2	< 1
	mg/kg	B (boron)														
	mg/kg	Ba (barium)														
	mg/kg	Be (beryllium)		0.159	0.102	0.091		0.235	0.167							
	mg/kg	Cd (cadmium)		0.141	0.126	0.052		4.5	0.112	< 0.2	< 0.2	< 0.15	< 1.21	< 0.12	< 0.12	1
	mg/kg	Cr (chromium)		13.1	7.4	7.5		41.8	14.5	6	6	5.3	8.7	5.6	8.1	29
	mg/kg	Cu (copper)		4.3	2.8	1.9		23.4	4.9	3	3	2.3	4.5	1.9	3.4	5
	mg/kg	Fe (iron)								5600	4700	5400				
	mg/kg	Hg (mercury)		0.05	0.07	0.05		0.12	0.05	0.028	0.05	0.018	< 0.01	< 0.05	< 0.05	0.8
	mg/kg	Mg (magnesium)														
	mg/kg	Mn (manganese)		2090.7	275.8	196.8		478.2	2227.8				264	180	289	
	mg/kg	Mo (molybdenum)														
	mg/kg	Ni (nickel)		9.7	6.7	5.7		13.7	9.5	8	7	6	8.78	4.7	6.4	19
	mg/kg	Pb (lead)		2.7	2.5	2.2		25.2	3.2	4	4	5	5.4	3.4	4.2	< 11
	mg/kg	Sb (antimony)				4.7		7.9	14.1							
	mg/kg	Se (selenium)		0.12	0.12	0.12		0.12	0.13				< 0.92			
	mg/kg	Sn (tin)														
	mg/kg	Sr (strontium)														
	mg/kg	Ti (titanium)		0.6	0.6	1.9		3.3	5.4							
	mg/kg	Zn (zinc)		18.5	16.1	11.6		61.6	18.5	15	16	13	23.6	12.8	20	14
	mg/kg	V (vanadium)														
PCB'S	ug/kg	Aroclor-1006	< 3.2	< 3.2	18	30.6	27.9	387	23.1				< 1.46	< 4.9	< 5.1	
	ug/kg	Aroclor-1221											< 1.46	< 4.9	< 5.1	
	ug/kg	Aroclor-1232											< 1.46	< 4.9	< 5.1	
	ug/kg	Aroclor-1242											< 1.46	< 4.9	< 5.1	
	ug/kg	Aroclor-1248											< 1.46	< 4.9	< 5.1	
	ug/kg	Aroclor-1254	61	45	37	< 5.3	< 5.3	< 5.3	< 5.3				< 3.05	< 4.9	< 5.1	
	ug/kg	Aroclor-1260	18	12	11	< 5.3	< 5.3	9.3	< 5.3				< 3.05	< 4.9	< 5.1	
	ug/kg	Total PCB's								0	0	0				0
PARTICLE SIZE %FINER	SAND coarse	3 in														100
		1 1/2								100	100	100				100
		3/4								100	100	100				100
		3/8								99	100	100				100
		4								95	100	99	100	100	100	100
		8								88	99	95				100
		10											100	99.6	99.3	
	SAND medium	16								76.0	96.0	81.0	98.6			100.0
		20												92.2	96.7	
		30								44.0	78.0	47.0	82.9			
		40								17.0	49.0	24.0		31.4	68.1	94.0
		50								6.0	14.0	9.0	82.9			
	SAND fine	70								5.0	8.0	6.0				
		80											33.4			
		100								5.0	6.0	5.0	6.8	2.8	12.2	4.0
		140											5.5	1.8	10.5	
	SILT CLAY	200								4.0	5.0	4.0	4.1	1.3	10.2	0.0
		270								4.0	5.0	3.0	3.2			
		0.20 mm								1.0	1.0	1.0	2.1			0.0
		0.05 mm								0.0	0.0	0.0	1.5			0.0
MISC	%	Total Organic Carb											0.58	0.062	0.101	
	mg/kg	Chem Oxy Demand								2590	4400	1630		11800	18800	4079
	mg/kg	Kjedahl Nitrogen								130	190	64				99
	mg/kg	Total Phosph								190	170	250				143
	mg/kg	Oil and Grease								< 50	60	< 50		0.2	0.48	285
	mg/kg	Cyanide, Total											< 0.65	0.09	0.11	
	mg/kg	Ammonia											14			
	mg/l	Ammonia Elutriate												0.2	0.48	
	%	Moisture											22.6	20.7	23.5	
	%	Total Solids											77.4	79.3	76.5	
	%	Volatile Solids											1.2	1.18	1.88	

Table 4. Contaminant Data for Pool 2 of the Upper Mississippi River

		Record #	68	69	318	70	71	72	73	74	494	1363	319	383	379	377
		River Mile	823.21	823.2	823	822.94	822.93	822.92	822.91	822.9	822.9	822.9	822.5	821.8	821.8	821.8
		Location	PINE BEND FOOT LIGHT	PINE BEND FOOT LIGHT	R-Spring Lake 1	PINE BEND FOOT LIGHT	PINE BEND FOOT LIGHT	PINE BEND FOOT LIGHT	PINE BEND FOOT LIGHT	PINE BEND FOOT LIGHT	PINE BEND FOOT LIGHT	Pine Bend Foot Light 3	R-Spring Lake 2	Spring Lake-Pool 2/Ser-2	Spring Lake-Pool 2/Pac-1	Spring Lake-Pool 2/Key-2
		Year	1978	1978	1984	1982	1975	1975	1975	1975	1989	1994	1984	1988	1988	1988
		System	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		Habitat Type	1	1	3	1	1	1	1	1	1	1	3	3	3	3
		Pool	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		Sam. Gear	1	1	2	1	1	1	1	1	1	3	2	1	1	1
		Sam. Depth	10	10	10	10	10	10	10	10	10	10	10	10	10	10
		Data Cit.	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE
CHC'S	ug/kg	a-BHC									< 0.12	< 0.24		< 0.06	< 0.17	< 0.002
	ug/kg	b-BHC									< 0.24	< 0.24		< 0.12	< 0.42	< 0.006
	ug/kg	BHC									< 0.36	< 0.24				
	ug/kg	g-BHC (lindane)									< 0.16	< 0.24		< 0.08	< 0.22	< 0.006
	ug/kg	Heptachlor			< 0.5						< 0.12	< 0.24	< 0.5	< 0.06	< 0.22	< 0.006
	ug/kg	Aldrin									< 0.16					
	ug/kg	Heptachlorepoxide									< 0.2					
	ug/kg	Endosulfan I									< 0.2					
	ug/kg	Dieldrin	0	0	< 0.5	< 0.1					< 0.2	< 0.48	< 0.5	< 0.04	< 0.4	< 0.01
	ug/kg	4,4'-DDE	0	0	< 0.5	< 0.1					< 0.16	< 0.48	< 0.5	< 0.08	< 0.58	< 0.01
	ug/kg	Endrin	0	0	< 0.5	< 0.1					< 0.36	< 0.48	< 0.5	< 0.12	< 4.4	< 0.02
	ug/kg	Endosulfan II									< 0.4					
	ug/kg	4,4'-DDD	0	0	< 0.5	< 0.1					< 0.44	< 0.48	< 0.5	< 0.22	< 1.3	< 0.01
	ug/kg	Endrinaldehyde									< 0.44					
	ug/kg	Sulfan sulfate									< 0.44					
	ug/kg	4,4'-DDT	0	0	< 0.5	< 0.1					< 0.51	< 0.48	< 0.5	< 0.24	< 0.87	< 0.01
	ug/kg	Methoxychlor									< 0.87					
	ug/kg	Endriniketone									< 0.44					
	ug/kg	Chlorodane	0	0	< 0.5	< 1					< 2.38	< 0.24	< 0.5	< 0.28	< 1.2	< 0.04
	ug/kg	Toxaphene									< 1.63					
METALS	mg/kg	Ag (silver)														
	mg/kg	Al (aluminum)														
	mg/kg	As (arsenic)	0	0	13	1	0	0	0.67	0.94	2.6	0.91	12	31	1.8	4.94
	mg/kg	B (boron)														
	mg/kg	Ba (barium)	10	10												
	mg/kg	Be (beryllium)														
	mg/kg	Cd (cadmium)	< 10	< 10	2	< 0.19	< 0.1	< 0.1	1.6	2.7	< 1.77	0.41	1.5	1.8	1.2	1.14
	mg/kg	Cr (chromium)	< 10	< 10	23	3.8	9.2	9.2	16.5	31.7	20	6.6	29	33	19	19
	mg/kg	Cu (copper)	< 10	< 10	15	1.9	4.9	5	9	13.9	18.3	1.8	18	22	11	20.6
	mg/kg	Fe (iron)	3400	2600		4400										
	mg/kg	Hg (mercury)	0	0	< 0.099	0.031	0.093	0.069	0.048	0.07	< 0.02	< 0.04	< 0.091	0.14	0.02	0.17
	mg/kg	Mg (magnesium)														
	mg/kg	Mn (manganese)	130	120							1080	167		750	380	622
	mg/kg	Mo (molybdenum)														
	mg/kg	Ni (nickel)	< 10	< 10	18	6					15.8	5.7	29	22	10	15
	mg/kg	Pb (lead)	< 10	< 10	30	4	< 0.1	< 0.1	9.7	10	10.9	9.1	15	31	14	25.9
	mg/kg	Sb (antimony)														
	mg/kg	Se (selenium)									< 1.34			44	< 0.75	< 0.35
	mg/kg	Sn (tin)														
	mg/kg	Sr (strontium)														
	mg/kg	Ti (titanium)														
	mg/kg	Zn (zinc)	20	20	71	13	20.5	21.3	30.7	55.3	74	12.9	50	96	44	75.9
	mg/kg	V (vanadium)														
PCB'S	ug/kg	Aroclor-1006									< 2.38	< 4.8		< 1.2	< 3	< 0.15
	ug/kg	Aroclor-1221									< 2.38	< 4.8				
	ug/kg	Aroclor-1232									< 2.38	< 4.8				
	ug/kg	Aroclor-1242									< 2.38	< 4.8				
	ug/kg	Aroclor-1248									< 2.38	< 4.8				
	ug/kg	Aroclor-1254									< 4.95	< 4.8		< 2.4	< 3	< 98
	ug/kg	Aroclor-1260									< 4.95	< 4.8		< 2.4	< 3	< 0.25
	ug/kg	Total PCB's	0	8	40	0	0	0	0	0			4			
PARTICLE SIZE %FINER	SAND coarse	3 in	100	100			100	100	100	100						
		1 1/2	100	100		100	100	100	100	100						
		3/4	100	100	100	100	100	100	100	100			100			
		3/8	100	100		100	100	100	100	100						
		4	100	100	100	100	99	99	98	98	99.9	100	100			
		8				99	96	96	94	94						
		10	100	100	100						99.8	98.6	99			
	SAND medium	16				94.0	87.0	87.0	89.0	91.0	99.2					
		20	99.0	100.0								91.1				
		30				77.0					97.5					
		40	85.0	91.0	100.0	66.0	41.0	41.0	54.0	76.0		56.6	98.0			
		50				41.0					97.5					
	SAND fine	70				18.0										
		80	13.0	11.0							83.4					
		100			99.0	8.0	5.0	5.0	9.0	34.0	65.3	3.2	87.0			
		140									48.4	1.3				
	SILT CLAY	200	6.0	3.0	93.0	4.0	2.0	2.0	8.0	31.0	28.4	1.0	79.0			
		270			86.0	4.0					19.0		76.0			
		0.20 mm	0.0	0.0	27.0	1.0					14.1		53.0			
		0.05 mm	0.0	0.0	12.0	0.0					9.1		19.0			
MISC	%	Total Organic Carb									5.73	0.375				1.21
	mg/kg	Chem Oxy Demand	5600	4300		1630	1848	2386	7050	15600		10200	119000			
	mg/kg	Kjedahl Nitrogen	520	450	1500	94	--	--	--	--			3600			
	mg/kg	Total Phosph	88	190	88000	940	--	--	--	--			75000			
	mg/kg	Oil and Grease	0	0		< 50	204	284	374	483		< 0.06				
	mg/kg	Cyanide, Total									< 1.06	0.11				
	mg/kg	Ammonia									175					
	mg/l	Ammonia Elutriate										<0.06				
	%	Moisture									52.7	16				
	%	Total Solids									47.3	84				
	%	Volatile Solids									4.4	1.02				

Table 4. Contaminant Data for Pool 2 of the Upper Mississippi River

		Record #	384	381	375	380	382	378	376	320	75	76	1358	1360	321	77
		River Mile	821.8	821.8	821.8	821.8	821.8	821.8	821.8	821.6	821.1	821	820.9	820.6	820.5	819.7
		Location	Spring Lake-Pool 2/Ser-3	Spring Lake-Pool 2/Pac-3	Spring Lake-Pool 2/Key-1	Spring Lake-Pool 2/Pac-2	Spring Lake-Pool 2/Ser-1	Spring Lake-Pool 2/Key-3	Spring Lake-Pool 2/Key-1	R-Spring Lake 3	BOULANGER BEND	BOULANGER BEND	Boulander Bend 1	Boulander Bend 2	R-Spring Lake 4	BOUL. BEND LOW LIGHT
		Year	1988	1988	1988	1988	1988	1988	1988	1984	1978	1974	1994	1994	1984	1981
		System	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		Habitat Type	3	3	3	3	3	3	3	3	1	1	1	1	3	1
		Pool	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		Sam. Gear	1	1	1	1	1	1	1	2	1	1	3	3	2	1
		Sam. Depth	10	10	10	10	10	10	10	10	10	10	10	10	10	10
		Data Clt.	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE
CHC'S	ug/kg	a-BHC	< 0.06	< 0.17	< 0.002	< 0.17	< 0.06	< 0.002					< 0.24	< 0.25		
	ug/kg	b-BHC	< 0.12	< 0.42	< 0.006	< 0.42	< 0.12	< 0.006					< 0.24	1.3		
	ug/kg	BHC											< 0.24	< 0.25		
	ug/kg	g-BHC (lindane)	< 0.08	< 0.22	< 0.006	< 0.22	< 0.08	< 0.006					< 0.24	< 0.25		
	ug/kg	Heptachlor	< 2.4	< 0.22	< 0.006	< 0.22	< 0.06	< 0.006		< 0.5			< 0.24	< 0.25	< 0.5	
	ug/kg	Aldrin														
	ug/kg	Heptachlorepoxide														
	ug/kg	Endosulfan I														
	ug/kg	Dieldrin	< 0.04	< 0.4	< 0.01	< 0.4	< 0.04	< 0.01		< 0.5	< 1	< 10	< 0.48	1.10	< 0.5	1.6
	ug/kg	4,4'-DDE	< 0.08	< 0.58	< 0.01	< 1.4	< 0.08	< 0.01		< 0.5		< 10	0.74	< 0.48	< 0.5	< 0.1
	ug/kg	Endrin	< 0.12	< 4.4	< 0.02	< 4.4	< 0.12	< 0.02		< 0.5	< 1	< 10	< 0.48	< 0.48	< 0.5	< 0.1
	ug/kg	Endosulfan II														
	ug/kg	4,4'-DDD	< 0.22	< 1.3	< 0.01	< 1.3	< 0.22	< 0.01		< 0.5		< 10	< 0.48	< 0.48	< 0.5	7
	ug/kg	Endrinaldehyde														
	ug/kg	Sulfan sulfate														
	ug/kg	4,4'-DDT	< 0.24	< 0.87	< 0.01	< 0.87	< 0.24	< 0.01		< 0.5	< 4	< 10	< 0.48	< 0.48	< 0.5	0.8
	ug/kg	Methoxychlor														
	ug/kg	Endrinketone														
	ug/kg	Chlorodane	< 0.28	< 1.2	< 0.04	< 1.2	< 0.28	< 0.04		< 0.5		< 10	< 0.24	< 0.25	< 0.5	11
	ug/kg	Toxaphene	< 1.96													
METALS	mg/kg	Ag (silver)														
	mg/kg	Al (aluminum)														
	mg/kg	As (arsenic)	23	1.8	5.67	1.9	36	3.95	4.71	12	2.3	< 0.8	0.9	1.2	12	29
	mg/kg	B (boron)														
	mg/kg	Ba (barium)														100
	mg/kg	Be (beryllium)														
	mg/kg	Cd (cadmium)	1	0.82	1.67	1.1	2.6	0.54	1.61	2.7	4.5	1	0.42	0.45	4	8
	mg/kg	Cr (chromium)	24	16	23.8	20	47	16.1	21.6	30	54.7	8	8	6.9	30	
	mg/kg	Cu (copper)	16	8.2	32.4	11	31	14.3	24.6	20	25.3	2	3	2.4	20	38
	mg/kg	Fe (iron)									16000					13000
	mg/kg	Hg (mercury)	0.11	0.02	0.18	0.02	0.23	0.12	0.18	< 0.125	0.118	1.8	< 0.05	< 0.05	< 0.16	< 0.01
	mg/kg	Mg (magnesium)														
	mg/kg	Mn (manganese)	720	370	712	360	1000	629	653		652		245	222		1400
	mg/kg	Mo (molybdenum)														
	mg/kg	Ni (nickel)	17	10	16.8	12	28	13.5	14.4	23	24	5	6.5	5.3	34	30
	mg/kg	Pb (lead)	28	12	31.5	13	41	22.6	28.5	34	104	< 10	5.7	3.8	30	30
	mg/kg	Sb (antimony)														
	mg/kg	Se (selenium)	35	< 0.75	< 0.34	< 0.75	< 26	< 0.32	0.34							
	mg/kg	Sn (tin)														
	mg/kg	Sr (strontium)														
	mg/kg	Ti (titanium)														
	mg/kg	Zn (zinc)	73	38	84.8	47	130	64.1	75.7	80	93.4	19	18	17.2	83	130
	mg/kg	V (vanadium)														
PCB'S	ug/kg	Aroclor-1006	< 1.2	< 3	< 0.15	< 3	< 1.2	< 0.15					< 4.8	< 5.1		
	ug/kg	Aroclor-1221											< 4.8	< 5.1		
	ug/kg	Aroclor-1232											< 4.8	< 5.1		
	ug/kg	Aroclor-1242											< 4.8	< 5.1		
	ug/kg	Aroclor-1248											< 4.8	< 5.1		
	ug/kg	Aroclor-1254	< 2.4	< 3	96	< 3	< 2.4	< 53					< 4.8	< 5.1		
	ug/kg	Aroclor-1260	< 2.4	< 3	< 0.25	< 3	< 2.4	< 0.25					< 4.8	< 5.1		
	ug/kg	Total PCB's								41	90	0			55	68
PARTICLE SIZE %FINER	SAND coarse	3 in									100	100				
		1 1/2									100	100				100
		3/4								100	100	100			99	100
		3/8									100	100				100
		4								100	100	99	100		99	100
		8										99				100
		10								100			99.5	100	99	
	SAND medium	16										95.0				99.0
		20											90.1	99.2		
		30														97.0
		40								99.0		48.0	58.9	95.3	94.0	95.0
		50														92.0
	SAND fine	70														90.0
		80														
		100								98.0		0.0	11.8	21.3	87.0	88.0
		140											10.0	11.1		
	SILT CLAY	200								97.0	45.0	0.0	9.7	10.4	74.0	82.0
		270								95.0					70.0	78.0
		0.20 mm								44.0		0.0			41.0	49.0
		0.05 mm								14.0	30.0	0.0			18.0	23.0
MISC	%	Total Organic Carb			1.11			3.11					0.132	0.125		
	mg/kg	Chem Oxy Demand								51900	27000	2872	15800	19400	58900	110000
	mg/kg	Kjedahl Nitrogen								1900	1870	73			2200	7680
	mg/kg	Total Phosph								32000	867	217			41000	--
	mg/kg	Oil and Grease									230	204	< 0.06	0.57		0
	mg/kg	Cyanide, Total											<0.06	<0.07		
	mg/kg	Ammonia														
	mg/l	Ammonia Elutriate											<0.06	0.6		
	%	Moisture											21.1	24.9		
	%	Total Solids											78.9	75.1		
	%	Volatile Solids											1.58	1.9		

Table 4. Contaminant Data for Pool 2 of the Upper Mississippi River

		Record #	78				1359		1229	1233	1236	1272	1298	1291	1254	1310
		River Mile	819.1	818.8	818.7	818.7	818.6	818.5	816.0	816.0	816.0	816.0	816.0	816.0	816.0	816
		Location	BOUL. BEND LOW LIGHT	NIN 818.8	818.4 - 818.9 NIN CDF 8/21	818.4 - 818.9 NIN CDF 8/29	Boul Bend Low Light 1	NIN 818.5	Ab. L/D 2 - east	Ab. L/D 2 - mid	Ab. L/D 2 - west	Ab. L/D 2 - mid	Ab. L/D 2 - mean	Ab. L/D 2 - west	Ab. L/D 2 - east	Ab. L/D 2 - east
		Year	1981	1995	1995	1995	1994	1995	1981	1981	1981	1982	1982	1982	1982	1983
		System	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		Habitat Type	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		Pool	2	1	2	2	2	2	2	2	2	2	2	2	2	2
		Sam. Gear	1	1			3	1	3	3	3	3	3	3	3	3
		Sam. Depth	10	10			10	10	10	10	10	10	10	10	10	10
		Data Cit.	COE	COE	COE	COE	COE	COE	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC
CHCS	ug/kg	a-BHC		< 0.7	< 0.4	< 0.5	< 0.43	< .06					< 5			2.4
	ug/kg	b-BHC		< 0.7	< 0.4	< 0.5	1.6	< .06					< 10			< 1.1
	ug/kg	BHC		< 0.7	< 0.4	< 0.5	< 0.43	< .06								
	ug/kg	g-BHC (lindane)		< 0.7	< 0.4	< 0.5	< 0.43	< .06					11			< 0.53
	ug/kg	Heptachlor		< 0.7	< 0.4	< 0.5	< 0.43	< .06					5			< 0.53
	ug/kg	Aldrin														
	ug/kg	Heptachlorepoxide														
	ug/kg	Endosulfan I														
	ug/kg	Dieldrin	2.9	< 0.7	< 0.4	< 0.5	< 0.94	< .06					< 20			< 1.6
	ug/kg	4,4'-DDE	2.4	< 0.7	< 0.4	< 0.5	< 0.48	< .06					< 7			< 1.6
	ug/kg	Endrin	< 0.1	< 0.7	< 0.4	< 0.5	< 0.48	< .06					< 10			< 2.1
	ug/kg	Endosulfan II														
	ug/kg	4,4'-DDD	6.30	< 0.7	1.20	1.90	< 0.48	< .06					< 14			< 3.2
	ug/kg	Endrinaldehyde														
	ug/kg	Sulfan sulfate														
	ug/kg	4,4'-DDT	9.70	< 0.7	1.70	2.70	< 0.48	< .06					< 20			< 4.2
	ug/kg	Methoxychlor														
	ug/kg	Endrinketone														
	ug/kg	Chlorodane	7.00	< 1.1	< 0.6	< 0.8	< 0.43	< 0.9					< 2			< 11
	ug/kg	Toxaphene														
METALS	mg/kg	Ag (silver)							1.1	1.08	0.69	0.67		0.54	1.07	0.592
	mg/kg	Al (aluminum)														
	mg/kg	As (arsenic)	21	4.1	2.8	3.3	4.7	3.1	6.3	6.14	5.68	5.2		7	15	6.2
	mg/kg	B (boron)														
	mg/kg	Ba (barium)	80													
	mg/kg	Be (beryllium)							0.641	0.54	0.529	0.43		0.5	0.77	0.281
	mg/kg	Cd (cadmium)	4	0.3	0.43	0.5	0.93	0.3	3.159	2.93	2.61	1.4		1	2.23	1.075
	mg/kg	Cr (chromium)	30	27	15	17	26.2	17	63.6	62.6	58.2	33.8		36.4	58.5	62.4
	mg/kg	Cu (copper)	18	17	13	18	21.5	14	33.8	31.5	28.3	17.2		18.8	31.3	17.7
	mg/kg	Fe (iron)	7100													
	mg/kg	Hg (mercury)	< 0.01	0.046	0.02	0.033	0.14	0.035	0.25	0.19	0.2	0.15		0.14	0.22	0.05
	mg/kg	Mg (magnesium)														
	mg/kg	Mn (manganese)	700	1300	970	1300	1210	830				698		906	1305	
	mg/kg	Mo (molybdenum)														
	mg/kg	Ni (nickel)	30	20	14	15	21.3	15	29.2	25.6	28.3	18.3		19.2	28.9	21.4
	mg/kg	Pb (lead)	30	10	12	15	16.5	11	40	37.7	33.5	19.4		18	32.7	18.2
	mg/kg	Sb (antimony)														
	mg/kg	Se (selenium)							0.22	0.21	0.2	0.06		0.07	0.1	0.05
	mg/kg	Sn (tin)														
	mg/kg	Sr (strontium)														
	mg/kg	Ti (titanium)										0.8		0.8	0.9	0.3
	mg/kg	Zn (zinc)	62	71	64	67	82.8	56	152.7	128	113.4	70.6		75.9	153.4	84
	mg/kg	V (vanadium)														
PCB'S	ug/kg	Aroclor-1006		< 8.4	< 4.9	< 5.9	< 8.6	< 6.9					60			24
	ug/kg	Aroclor-1221		< 8.4	< 4.9	< 5.9	< 8.6	< 6.9								
	ug/kg	Aroclor-1232		< 8.4	< 4.9	< 5.9	< 8.6	< 6.9								
	ug/kg	Aroclor-1242		< 8.4	< 4.9	< 5.9	< 8.6	< 6.9								
	ug/kg	Aroclor-1248		< 8.4	< 4.9	< 5.9	< 8.6	< 6.9								
	ug/kg	Aroclor-1254		< 8.4	< 4.9	< 5.9	16	< 6.9					1100			5.7
	ug/kg	Aroclor-1260		< 8.4	< 4.9	< 5.9	< 8.6	< 6.9					< 20			< 5.3
	ug/kg	Total PCB's	170													
PARTICLE SIZE %FINER	SAND coarse	3 in														
		1 1/2	100													
		3/4	100													
		3/8	100													
		4	100													
		8	100													
		10														
	SAND medium	16	99.0	100	100	100		100								
		20		99.5	99.6	99.5	100.0	99.4								
		30	97.0	99.3	99.0	99.5		99.1								
		40	95.0	98.3	97.6	98.8	99.7	98.8								
		50	92.0	83.2	60.6	83.5		70.2								
	SAND fine	70	90.0	82.9	60.1	83.1		70.0								
		80		82.9	60.1	83.1		70.0								
		100	88.0	82.9	60.1	83.1	98.9	70.0								
		140		82.9	60.1	83.1	96.7	70.0								
	SILT CLAY	200	87.0	82.9	60.1	83.1	96.2	70.0								
		270	85.0													
		0.20 mm	63.0													
		0.05 mm	29.0													
MISC	%	Total Organic Carb		2.3	3.4	2.1	> 1.6	1.4								
	mg/kg	Chem Oxy Demand	51000				86900									
	mg/kg	Kjedahl Nitrogen	4860													
	mg/kg	Total Phosph	--													
	mg/kg	Oil and Grease	0				1.7									
	mg/kg	Cyanide, Total		< 0.5	< 0.5	< 0.5	<0.11	< 0.5								
	mg/kg	Ammonia														
	mg/l	Ammonia Elutriate		1.7	< 0.1	11	1.7	0.7								
	%	Moisture		59	39	46	54.9	52.0								
	%	Total Solids		41	61	54	45.1	48.0								
	%	Volatile Solids		6.1	5	5.3	8.7	4.4								

Table 4. Contaminant Data for Pool 2 of the Upper Mississippi River

		Record #	1316	1326	1324	1338	1330	1334	1337	1130	1357	1357	1356	1352	1342	496
		River Mile	816.0	816.0	816.0	816.0	816	816.0	816.0	816.0	816.0	816.0	816.0	816.0	816.0	815.7
		Location	Ab. L/D 2 - mid	Ab. L/D 2 - mean	Ab. L/D 2 - west	Ab. L/D 2 - mean	Ab. L/D 2 - east	Ab. L/D 2 - mid	Ab. L/D 2 - west	Ab. L/D 2 - east	Ab. L/D 2 - mean-dup	Ab. L/D 2 - mean	Ab. L/D 2 - west	Ab. L/D 2 - mid	Ab. L/D 2 - east	ABOVE L/D 2
		Year	1983	1983	1983	1984	1984	1984	1984	1984	1985	1985	1985	1985	1985	1989
		System	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		Habitat Type	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		Pool	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		Sam. Gear	3	3	3	3	3	3	3	3	3	3	3	3	3	1
		Sam. Depth	10	10	10	10	10	10	10	10	10	10	10	10	10	10
		Data Cit.	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	COE
CHC'S	ug/kg	a-BHC	2.000	9.70	12.000	13		1.600	1.2	12.000	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.08
	ug/kg	b-BHC	< 1.1	< 1.1	< 1.1	< 0.64		< 0.64	< 0.64	< 0.64	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.17
	ug/kg	BHC														< 0.25
	ug/kg	g-BHC (lindane)	< 0.53	< 0.53	< 0.53	4.1		< 0.32	< 0.32	< 0.32	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.11
	ug/kg	Heptachlor	< 0.53	< 0.53	< 0.53	< 0.32		< 0.32	< 0.32	< 0.32	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.08
	ug/kg	Aldrin														< 0.11
	ug/kg	Heptachlorepoxide														< 0.14
	ug/kg	Endosulfan I														< 0.14
	ug/kg	Dieldrin	< 1.6	< 1.6	< 1.6	< 0.96		< 0.96	< 0.96	< 0.96	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.14
	ug/kg	4,4'-DDE	< 1.6	< 1.6	< 1.6	< 0.96		< 0.96	< 0.96	< 0.96	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.11
	ug/kg	Endrin	< 2.1	< 2.1	< 2.1	< 1.3		< 1.3	< 1.3	< 1.3	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 0.25
	ug/kg	Endosulfan II														< 0.28
	ug/kg	4,4'-DDD	< 3.2	< 3.2	< 3.2	< 1.9		< 1.9	< 1.9	< 1.9	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 0.31
	ug/kg	Endrinaldehyde														< 0.31
	ug/kg	Sulfan sulfate														< 0.31
	ug/kg	4,4'-DDT	< 4.2	< 4.2	< 4.2	< 2.5		< 2.5	< 2.5	< 2.5	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 0.36
	ug/kg	Methoxychlor														< 0.62
	ug/kg	Endrinketone														< 0.31
	ug/kg	Chlorodane	< 11	< 11	< 11	< 6.4		< 6.4	< 6.4	< 6.4	< 5.3	< 5.3	< 5.3	115.00	< 5.3	< 1.68
	ug/kg	Toxaphene														
METALS	mg/kg	Ag (silver)	0.4885		0.1515		1.374	0.395	0.085				0.297	0.374	1.1	
	mg/kg	Al (aluminum)														
	mg/kg	As (arsenic)	7.6		7.4		5.06	2.99	5				6.79	9.92	8.53	< 1.18
	mg/kg	B (boron)														
	mg/kg	Ba (barium)														
	mg/kg	Be (beryllium)	0.2755		0.298		0.642	0.36	0.538				0.48	0.444	0.432	
	mg/kg	Cd (cadmium)	0.683		0.4895		3.101	0.875	0.252				1.244	1.242	1.618	< 1.3
	mg/kg	Cr (chromium)	80.7		92.6		49.2	22.6	31.4				27.3	27.2	27.2	12.1
	mg/kg	Cu (copper)	16.5		13.15		26.1	13.4	11.6				15	15.6	18.5	5.64
	mg/kg	Fe (iron)														
	mg/kg	Hg (mercury)	0.1		0.05		0.05	0.1	0.05				0.1	0.09	0.24	< 0.01
	mg/kg	Mg (magnesium)														
	mg/kg	Mn (manganese)					932.6	649.9	1052.2				711.7	721.4	693.7	1860
	mg/kg	Mo (molybdenum)														
	mg/kg	Ni (nickel)	24.55		25.4		24.3	15.5	22.2				15.5	14.7	14	15
	mg/kg	Pb (lead)	16.85		10.2		32.3	14.2	8.7				14.8	14.9	23.6	4.73
	mg/kg	Sb (antimony)											14	14.2	13.5	
	mg/kg	Se (selenium)	0.06		0.07		0.12	0.12	0.12				0.13	0.12	0.13	< 0.99
	mg/kg	Sn (tin)														
	mg/kg	Sr (strontium)														
	mg/kg	Ti (titanium)	0.7		0.6		0.6	0.6	0.6				5.4	5.4	5.2	
	mg/kg	Zn (zinc)	70.95		53.55		123.5	57.6	48.9				60.4	62.1	77.3	37
	mg/kg	V (vanadium)														
PCB'S	ug/kg	Aroclor-1006	40.00	146	195.00	214		25	41	176.00	424	387	171	95	485	< 1.68
	ug/kg	Aroclor-1221														< 1.68
	ug/kg	Aroclor-1232														< 1.68
	ug/kg	Aroclor-1242														< 1.68
	ug/kg	Aroclor-1248														< 1.68
	ug/kg	Aroclor-1254	16	24	44	52		7.8	20	26	< 5.3	< 5.3	< 5.3	< 5.3	< 5.3	< 3.5
	ug/kg	Aroclor-1260	6.1	10	21	27		< 3.2	10	13	7.7	7.2	27.2	31	29.4	< 3.5
	ug/kg	Total PCB's														
PARTICLE SIZE %FINER	SAND coarse	3 in														
		1 1/2														
		3/4														
		3/8														
		4														100
		8														
		10														97.0
	SAND medium	16														88.0
		20														
		30														69.5
		40														
		50														69.5
	SAND fine	70														
		80														53.9
		100														45.8
		140														35.7
	SILT CLAY	200														25.8
		270														17.8
		0.20 mm														12.6
		0.05 mm														9.4
MISC	%	Total Organic Carb														1.32
	mg/kg	Chem Oxy Demand														
	mg/kg	Kjedahl Nitrogen														
	mg/kg	Total Phosph														
	mg/kg	Oil and Grease														
	mg/kg	Cyanide, Total														< 0.68
	mg/kg	Ammonia														12
	mg/l	Ammonia Elutriate														
	%	Moisture														27
	%	Total Solids														73
	%	Volatile Solids														2.8

Table 4. Contaminant Data for Pool 2 of the Upper Mississippi River

			Record #	79	80	81	495
			River Mile	815.5	815.5	815.4	815.4
			Location	ABOVE L/D 2	ABOVE L/D 2	ABOVE L/D 2	ABOVE L/D 2
			Year	1982	1982	1974	1989
			System	1	1	1	1
			Habitat Type	1	1	1	1
			Pool	2	2	2	2
			Sam. Gear	1	1	1	1
			Sam. Depth	10	10	10	10
			Data Clt.	COE	COE	COE	COE
CHC'S	ug/kg	a-BHC					< 0.08
	ug/kg	b-BHC					< 0.16
	ug/kg	BHC					< 0.24
	ug/kg	g-BHC (lindane)					< 0.11
	ug/kg	Heptachlor					< 0.08
	ug/kg	Aldrin					< 0.11
	ug/kg	Heptachlorepoxide					< 0.14
	ug/kg	Endosulfan I					< 0.14
	ug/kg	Dieldrin	< 0.1	< 0.1	< 10	< 0.14
	ug/kg	4,4'-DDE	< 0.1	< 0.1	< 10	< 0.11
	ug/kg	Endrin	< 0.1	< 0.1	< 10	< 0.24
	ug/kg	Endosulfan II				< 0.27
	ug/kg	4,4'-DDD	< 0.1	< 0.1	< 10	< 0.3
	ug/kg	Endrinaldehyde				< 0.3
	ug/kg	Sulfan sulfate				< 0.3
	ug/kg	4,4'-DDT	< 0.1	< 0.1	< 10	< 0.35
	ug/kg	Methoxychlor				< 0.6
	ug/kg	Endrinketone				< 0.3
	ug/kg	Chlorodane	< 1	< 1	< 10	< 1.63
	ug/kg	Toxaphene				< 1.68
METALS	mg/kg	Ag (silver)				
	mg/kg	Al (aluminum)				
	mg/kg	As (arsenic)	2.8	2.7	1	2.9
	mg/kg	B (boron)				
	mg/kg	Ba (barium)				
	mg/kg	Be (beryllium)				
	mg/kg	Cd (cadmium)	0.77	1.2	3	< 1.33
	mg/kg	Cr (chromium)	10	12	39	14.6
	mg/kg	Cu (copper)	10	13	10	5.4
	mg/kg	Fe (iron)	6800	6300		
	mg/kg	Hg (mercury)	0.038	0.02	0.7	< 0.01
	mg/kg	Mg (magnesium)				
	mg/kg	Mn (manganese)				674
	mg/kg	Mo (molybdenum)				
	mg/kg	Ni (nickel)	10	9	29	19.2
	mg/kg	Pb (lead)	13	18	< 13	5.3
	mg/kg	Sb (antimony)				
	mg/kg	Se (selenium)				< 1.01
	mg/kg	Sn (tin)				
	mg/kg	Sr (strontium)				
	mg/kg	Ti (titanium)				
	mg/kg	Zn (zinc)	46	54	44	43.5
	mg/kg	V (vanadium)				
PCB'S	ug/kg	Aroclor-1006				< 1.63
	ug/kg	Aroclor-1221				< 1.63
	ug/kg	Aroclor-1232				< 1.63
	ug/kg	Aroclor-1242				< 1.63
	ug/kg	Aroclor-1248				< 1.63
	ug/kg	Aroclor-1254				< 3.4
	ug/kg	Aroclor-1260				< 3.4
	ug/kg	Total PCB's	0	1460	0	
PARTICLE SIZE %FINER	SAND coarse	3 in				
		1 1/2	100	100		
		3/4	100	100		
		3/8	100	100		
		4	100	100		100
		8	99	100		
		10				95.4
	SAND medium	16	99.0	99.0		84.6
		20				
		30	97.0	95.0		65.8
		40	96.0	89.0		
		50	95.0	77.0		65.8
	SAND fine	70	94.0	65.0		
		80				50.8
		100	93.0	58.0		41.2
		140				34.6
	SILT CLAY	200	91.0	56.0		24.2
		270	90.0	55.0		17.7
		0.20 mm	69.0	39.0		12.4
		0.05 mm	33.0	17.0		8.5
MISC	%	Total Organic Carb				1.23
	mg/kg	Chem Oxy Demand	19200	35600	14184	
	mg/kg	Kjedahl Nitrogen	1100	1200	288	
	mg/kg	Total Phosph	1100	1400	980	
	mg/kg	Oil and Grease	175	370	163	
	mg/kg	Cyanide, Total				< 0.71
	mg/kg	Ammonia				9.8
	mg/l	Ammonia Elutriate				
	%	Moisture				29.9
	%	Total Solids				70.1
	%	Volatile Solids				3.9