Table 5. Contaminant Data for Pool 3 of the Upper Mississippi River

		Record #	541	82	83	539	540		84	529	85	86	87	88	530	89
		River Mile	815.1	815.0	815.0	813.1	813.1	813.1	813.0	811.5	811.0	811.0	811.0	811.0	810.9	809.6
		Location	Below L/D 2	LOWER APPRO. L/D 2	LOWER APPRO. L/D 2	HASTINGS SM BOAT	HASTINGS SM BOAT	HASTINGS SM BOAT	HASTINGS SM BOAT	PRESCOTT	PRESCOTT	PRESCOTT	PRESCOTT	PRESCOTT	PRESCOTT	PINE COULEE
		Year	1989	1982	1982	1989	1989	1994	1979	1989	1982	1982	1978	1978	1989	1982
		System	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		Habitat Type	1	1	1	2	2	1	2	1	1	1	1	1	1	1
		Pool	2	3	3	3	3	3	3	3	3	3	3	3	3	3
		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 Cft.	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE
CHC'S	ug/kg	a-BHC				< 0.07	< 0.11	< 0.38		< 0.07					< 0.07	
	ug/kg	b-BHC				< 0.14	< 0.22	2.4		< 0.14					< 0.14	
	ug/kg	BHC				< 0.21	< 0.33	< 0.38		< 0.22					< 0.21	
	ug/kg	g-BHC (lindane)				< 0.09	< 0.15	< 0.38		< 0.1					< 0.1	
	ug/kg	Heptachlor				< 0.07	< 0.11	0.58		< 0.07					< 0.07	
	ug/kg	Aldrin				< 0.09	< 0.15			< 0.1					< 0.1	
	ug/kg	Heptachlorepoxide				< 0.12	< 0.18			< 0.12					< 0.12	
	ug/kg	Endosulfan I				< 0.12	< 0.18			< 0.12					< 0.12	
	ug/kg	Dieldrin		< 0.1	< 0.1	< 0.12	< 0.18	< 0.76	0	< 0.12	< 0.1	< 0.1	0	0	< 0.12	< 0.1
	ug/kg	4,4'-DDE		< 0.1	< 0.1	< 0.09	< 0.15	< 2.3	4.6	< 0.1	< 0.1	< 0.1	0	0	< 0.1	< 0.1
	ug/kg	Endrin		< 0.1	< 0.1	< 0.21	< 0.33	< 0.76	0	< 0.22	< 0.1	< 0.1	0	0	< 0.21	< 0.1
	ug/kg	Endosulfan II				< 0.24	< 0.36			< 0.24					< 0.24	
	ug/kg	4,4'-DDD		< 0.1	< 0.1	< 0.26	< 0.4	< 1.4	4.9	< 0.26	< 0.1	< 0.1	0	0	< 0.26	< 0.1
	ug/kg	Endrinaldehyde				< 0.26	< 0.4			< 0.26					< 0.26	
	ug/kg	Sulfan sulfate				< 0.26	< 0.4			< 0.26					< 0.26	
	ug/kg	4,4'-DDT		< 0.1	< 0.1	< 0.31	< 0.4	< 0.76	0.4	< 0.31	< 0.1	< 0.1	0	0	< 0.31	< 0.1
	ug/kg	Methoxychlor				< 0.52	< 0.8			< 0.53					< 0.52	
	ug/kg	Endrinketone				< 0.26	< 0.4			< 0.26					< 0.26	
	ug/kg	Chlorodane		< 1	< 1	< 1.42	< 2.18	< 0.38	8	< 1.44	< 1	< 1	0	0	< 1.43	< 1
	ug/kg	Toxaphene				< 1.42	< 2.18			< 0.144					< 1.43	
METALS	mg/kg	Ag (silver)														
	mg/kg	Al (aluminum)														
	mg/kg	As (arsenic)		1.8	2.5	< 0.98	< 1.6	4.5	2	1.9	2	2.5	0	0	1.6	2.9
	mg/kg	B (boron)														
	mg/kg	Ba (barium)							110				20	10		
	mg/kg	Be (beryllium)														
	mg/kg	Cd (cadmium)		< 0.19	< 0.18	< 1.1	< 1.7	1.4	< 10	< 1	< 0.17	< 0.18	< 10	< 10	< 1.1	< 0.19
	mg/kg	Cr (chromium)		5.6	8	6.4	22.8	31.3	40	5.2	6.8	5.5	< 10	< 10	7.3	5.8
	mg/kg	Cu (copper)		2.8	7.1	2.9	18.3	24.1	30	14.4	2.5	2.8	< 10	< 10	11.1	2.9
	mg/kg	Fe (iron)		6200	10000				11000		6000	5700	3200	3000		8500
	mg/kg	Hg (mercury)		0.01	0.015	< 0.01	0.32	0.11	0	< 0.01	0.072	0.045	0	0	< 0.12	0.034
	mg/kg	Mg (magnesium)														
	mg/kg	Mn (manganese)				358	741	1020	910	404			180	340	349	
	mg/kg	Mo (molybdenum)														
	mg/kg	Ni (nickel)		8	12	8.5	14.3	19.7	20	5.5	8	7	< 10	< 10	6.7	9
	mg/kg	Pb (lead)		1.9	7	1.5	< 18.9	19.6	40	2	3	4	< 10	< 10	2.3	6
	mg/kg	Sb (antimony)														
	mg/kg	Se (selenium)				< 0.82	< 1.3			< 0.79					< 0.83	
	mg/kg	Sn (tin)														
	mg/kg	Sr (strontium)														
	mg/kg	Ti (titanium)														
	mg/kg	Zn (zinc)		16	28	17.3	< 81.9	87.6	90	16.2	13	14	10	10	18.2	16
	mg/kg	V (vanadium)														
PCB'S	ug/kg	Aroclor-1006				< 1.42	< 2.18	< 4.9		< 1.44					< 1.43	
	ug/kg	Aroclor-1221				< 1.42	< 2.18	< 4.9		< 1.44					< 1.43	
	ug/kg	Aroclor-1232				< 1.42	< 2.18	< 4.9		< 1.44					< 1.43	
	ug/kg	Aroclor-1242				< 1.42	< 2.18	< 4.9		< 1.44					< 1.43	
	ug/kg	Aroclor-1248				< 1.42	< 2.18	< 4.9		< 1.44					< 1.43	
	ug/kg	Aroclor-1254				< 2.95	< 4.55	54		< 3					< 2.98	
	ug/kg	Aroclor-1260				< 2.95	< 4.55	< 4.9		< 3					< 2.98	
	ug/kg	Total PCB's		0	0				74		0	0	0	0		0
PARTICLE SIZE %FINER	SAND coarse	3 in									100			100		100
		1 1/2			100				100		100	100	100	100		100
		3/4			100				100		100	100	100	100		100
		3/8			100				100		100	100	100	100		100
		4	99.7		100	98.4	100		100	95.3	99	97	100	100	99.1	90
		8			98				100			90	99			
		10	99.0			95.4	99.8			83.9	97			99	92.5	49
	SAND medium	16	95.4		89.0	82.4	98.4		99.0	57.8		76.0	91.0		69.6	
		20						100			87.0			92.0		22.0
		30	71.2		67.0	37.3	96.9		97.0	17.0		39.0	53.0		19.8	
		40			35.0			99.7	94.0		53.0	16.0	26.0	34.0		11.0
		50	71.2		14.0	37.3	96.9		90.0	17.0		6.0	9.0		19.8	
	SAND fine	70			9.0				87.0			4.0	5.0			
		80	16.5			9.7	96.0			0.9	40.0			1.0	3.1	5.0
		100	0.5		8.0	1.3	84.5	99.0	85.0	0.0		4.0	4.0		2.5	
		140	0.4			1.1	59.9	98.5							2.4	
	SILT CLAY	200	0.3		7.0	0.9	34.0	96.9	83.0		37.0	3.0	3.0	0.0	2.2	3.0
		270	0.3		7.0	0.5	19.6		82.0			3.0	3.0		1.6	
		0.20 mm	0.2		1.0	0.3	14.2		60.0		22.0	1.0	1.0	0.0	1.2	1.0
		0.05 mm	0.2		0.0	0.3	10.8		32.0		10.0	0.0	0.0	0.0	0.8	0.0
MISC	%	Total Organic Carb	0.011			0.17	1.53			0.017					0.15	
	mg/kg	Chem Oxy Demand			2245				7910		57000	1050	1990	1900		2800
	mg/kg	Kjedahl Nitrogen			94				760		9700	55	92	240		220
	mg/kg	Total Phosph			175				400		1100	210	160	46		270
	mg/kg	Oil and Grease			50				60		0	< 50	< 50	0		0
	mg/kg	Cyanide, Total				< 0.61	< 0.6	< 0.11		< 0.59					< 0.63	
	mg/kg	Ammonia				3.2	20.00			< 0.24					16	
	mg/l	Ammonia Elutriate						0.9								
	%	Moisture				19.1	17.3	54.1		15.3					20.4	
	%	Total Solids				80.9	82.7	45.9		84.7					79.6	
	%	Volatile Solids				0.7	1.1	7.35		0.1					1.3	

Table 5. Contaminant Data for Pool 3 of the Upper Mississippi River

		Record #	90	91	531	92	93	94	95	532	96	97	533		98	99
		River Mile	809.6	808.5	808.3	808.0	808.0	807.8	807.8	807.3	805.6	804.6	802.8	802.7	802.7	802.5
		Location	PINE COULEE	TRUEDALE SLOUGH	TRUEDALE SLOUGH	TRUEDALE SLOUGH	TRUEDALE SLOUGH	FOUR MILE ISLAND	FOUR MILE ISLAND	FOUR MILE ISLAND	BIG RIVER	BIG RIVER	MORGANS COULEE	COULTERS IS MORGANS 1	COULTERS IS MORGANS	COULTERS IS MORGANS
		Year	1982	1980	1989	1979	1979	1978	1978	1989	1981	1981	1989	1994	1974	1981
		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	3	3	3	3	3	3	3	3	3	3	3	3	3	3
		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 Clt.	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE
CHC'S	ug/kg	a-BHC			< 0.07					< 0.07			< 0.07	< 0.24		
	ug/kg	b-BHC			< 0.15					< 0.15			< 0.14	< 0.24		
	ug/kg	BHC			< 0.22					< 0.22			< 0.22	< 0.24		
	ug/kg	g-BHC (lindane)			< 0.1					< 0.1			< 0.1	< 0.24		
	ug/kg	Heptachlor			< 0.07					< 0.07			< 0.07	< 0.24		
	ug/kg	Aldrin			< 0.1					< 0.1			< 0.1			
	ug/kg	Heptachlorepoxide			< 0.12					< 0.12			< 0.12			
	ug/kg	Endosulfan I			< 0.12					< 0.12			< 0.12			
	ug/kg	Dieldrin	< 0.1	< 0.2	< 0.12	0	0	0	0	< 0.12	1	< 0.1	< 0.12	< 0.48	< 10	< 0.1
	ug/kg	4,4'-DDE	< 0.1	< 0.2	< 0.1	0	0	0	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.48	< 10	< 0.1
	ug/kg	Endrin	< 0.1	< 0.2	< 0.22	0	0	0	0	< 0.22	< 0.1	< 0.1	< 0.22	< 0.48	< 10	< 0.1
	ug/kg	Endosulfan II			< 0.24					< 0.24			< 0.24			
	ug/kg	4,4'-DDD	< 0.1	< 0.2	< 0.27	0	0	0	0	< 0.27	1.4	< 0.1	< 0.26	< 0.48	< 10	< 0.1
	ug/kg	Endrinaldehyde			< 0.27					< 0.27			< 0.26			
	ug/kg	Sulfan sulfate			< 0.27					< 0.27			< 0.26			
	ug/kg	4,4'-DDT	1	< 0.4	< 0.32	0	0	0	0	< 0.32	0.7	< 0.1	< 0.31	< 0.48	< 10	< 0.1
	ug/kg	Methoxychlor			< 0.54					< 0.54			< 0.53			
	ug/kg	Endrinketone			< 0.27					< 0.27			< 0.26			
	ug/kg	Chlorodane	< 1	0.4	< 1.46	0	0	0	0	< 1.46	3	< 1	< 1.44	< 0.24	< 10	< 1
	ug/kg	Toxaphene			< 1.46					< 1.46			< 1.44			
METALS	mg/kg	Ag (silver)														
	mg/kg	Al (aluminum)														
	mg/kg	As (arsenic)	1.7		< 1	0	0	0	0	1.4	3	10	< 1	1	< 0.9	10
	mg/kg	B (boron)														
	mg/kg	Ba (barium)				30	30	10	30		20	20				30
	mg/kg	Be (beryllium)														
	mg/kg	Cd (cadmium)	< 0.18	1.01	< 1.1	< 10	< 10	< 10	< 10	< 1.1	< 1	< 1	< 1.1	< 0.11	< 1	< 1
	mg/kg	Cr (chromium)	5.6	26.8	3.2	< 10	< 10	< 10	< 10	7.9	< 10	30	5.5	6.3	5	< 10
	mg/kg	Cu (copper)	2.8	2.16	8.7	20	< 10	< 10	< 10	4	2	2	1.8	1.3	3	3
	mg/kg	Fe (iron)	5900	7859		4300	5600	2400	5000		3000	2000				2800
	mg/kg	Hg (mercury)	0.028	< 0.01	< 0.01	0	0	0	0	< 0.02	< 0.01	< 0.01	< 0.01	0.13	0.5	< 0.01
	mg/kg	Mg (magnesium)														
	mg/kg	Mn (manganese)			222	260	580	200	450	2600	310	150	3170	181		190
	mg/kg	Mo (molybdenum)														
	mg/kg	Ni (nickel)	8	14.3	< 5.5	10	< 10	< 10	< 10	9.5	< 10	< 10	< 5.5	5	3	< 10
	mg/kg	Pb (lead)	4	3.4	2.4	< 10	< 10	< 10	< 10	2.3	< 10	< 10	2	4.7	< 9	< 10
	mg/kg	Sb (antimony)														
	mg/kg	Se (selenium)			< 0.84					< 0.82			< 0.85			
	mg/kg	Sn (tin)														
	mg/kg	Sr (strontium)														
	mg/kg	Ti (titanium)														
	mg/kg	Zn (zinc)	14	14.4	12.7	20	10	10	20	16.9	14	11	18.1	11.8	76	15
	mg/kg	V (vanadium)														
PCB'S	ug/kg	Aroclor-1006			< 1.46					< 1.46			< 1.44	< 4.8		
	ug/kg	Aroclor-1221			< 1.46					< 1.46			< 1.44	< 4.8		
	ug/kg	Aroclor-1232			< 1.46					< 1.46			< 1.44	< 4.8		
	ug/kg	Aroclor-1242			< 1.46					< 1.46			< 1.44	< 4.8		
	ug/kg	Aroclor-1248			< 1.46					< 1.46			< 1.44	< 4.8		
	ug/kg	Aroclor-1254			< 3.05					< 3.05			< 3	< 4.8		
	ug/kg	Aroclor-1260			< 3.05					< 3.05			< 3	< 4.8		
	ug/kg	Total PCB's	0	0		0	3	0	0		2	0			0	0
PARTICLE SIZE %FINER	SAND coarse	3 in				100	100	100	100		100					100
		1 1/2	100	100		100	100	100	100		100	100			100	100
		3/4	100	100		100	100	100	100		100	100			100	100
		3/8	99	100		100	100	100	100		100	100			100	100
		4	92	100		100	100	94	100	93.0722	96	100	96.878	99.1	100	99
		8	75	97		98						98			98	95
		10					98	78	99	82.9801	90		94.471	93.8		
	SAND medium	16	54.0	91.0		87.0				67.0		92.0	91.0		81.0	82.0
		20					65.0	35.0	95.0		74.0			88.8		
		30	32.0	65.0						26.4		65.0	71.7		53.0	
		40	21.0	34.0		50.0	13.0	10.0	59.0		31.0	37.0		66.5	14.0	8.0
		50	10.0	6.0						26.4		6.0	71.7		1.0	
	SAND fine	70	6.0	3.0								0.0			0.0	
		80					2.0	4.0	2.0	0.6	3.0		8.6			
		100	5.0	3.0		1.0				0.0		0.0	0.6	1.2	0.0	0.0
		140											0.6	0.8		
	SILT CLAY	200	4.0	3.0		1.0	2.0	3.0	0.0		2.0	0.0	0.5	0.5	0.0	0.0
		270	3.0	2.0								0.0	0.4		0.0	
		0.20 mm	1.0	2.0			0.0	1.0	0.0		0.0	0.0	0.3		0.0	0.0
		0.05 mm	0.0	0.0		1.0	0.0	0.0	0.0		0.0	0.0	0.3		0.0	0.0
MISC	%	Total Organic Carb			0.091					0.17			0.28	0.022		
	mg/kg	Chem Oxy Demand	2100	1040		624	10000	3000	1800		1600	5200			1500	431
	mg/kg	Kjedahl Nitrogen	90	18		--	1100	5200	280		190	294			244	235
	mg/kg	Total Phosph	160	140		511	260	290	170		440	--				247
	mg/kg	Oil and Grease	55	< 50		670	0	0	0		100	0			0	< 6
	mg/kg	Cyanide, Total			< 0.59					< 0.61			< 0.62	< 0.06		
	mg/kg	Ammonia			< 0.24					< 0.24			0.50			
	mg/l	Ammonia Elutriate												< 0.06		
	%	Moisture			15.9					17.6			19.8	17.8		
	%	Total Solids			84.1					82.4			80.2	82.2		
	%	Volatile Solids			0.6					0.7			0.8	1.0		

Table 5. Contaminant Data for Pool 3 of the Upper Mississippi River

		Record #			534	100	101	535	102	536		1360	1366	1363	103	538
		River Mile	802.5	802.5	802.1	801.9	801.9	801.8	801.4	801.1	800.5	800.0	800.0	800.0	800.0	800.0
		Location	COULTERS IS MORGANS 2	COULTERS IS MORGANS 2dup	MORGANS COULEE	COULTERS IS MORGANS	COULTERS IS MORGANS	COULTERS IS M.SLOUGH	COULTERS IS MORGANS	COULTERS IS M.SLOUGH	LARSON LAKE	Ab. L/D 3 - east	Ab. L/D 3 - west	Ab. L/D 3 - mid	BLW DIAMOND BLUFF	BLW DIAMOND BLUFF
		Year	1994	1994	1989	1978	1978	1989	1981	1989	1994	1981	1981	1981	1981	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	3	1	1	1	1	1
		Pool	3	3	3	3	3	3	3	3	3	3	3	3	3	3
		Sam. Gear	1	1	1	1	1	1	1	1	1	3	3	3	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	MWCC	MWCC	MWCC	COE	COE
CHC'S	ug/kg	a-BHC	< 0.24	< 0.25	< 0.07			< 0.07		< 0.07	0.12					< 0.08
	ug/kg	b-BHC	< 0.24	< 0.25	< 0.14			< 0.15		< 0.15	0.24					< 0.16
	ug/kg	BHC	< 0.24	< 0.25	< 0.22			< 0.22		< 0.22	0.36					< 0.25
	ug/kg	g-BHC (lindane)	< 0.24	< 0.25	< 0.1			< 0.1		< 0.1	0.16					< 0.11
	ug/kg	Heptachlor	< 0.24	< 0.25	< 0.07			< 0.07		< 0.07	0.12					< 0.08
	ug/kg	Aldrin			< 0.1			< 0.1		< 0.1	0.16					< 0.11
	ug/kg	Heptachlorepoxide			< 0.12			< 0.12		< 0.12	0.2					< 0.14
	ug/kg	Endosulfan I			< 0.12			< 0.12		< 0.12	0.2					< 0.14
	ug/kg	Dieldrin	< 0.47	< 0.49	< 0.12	0	0	< 0.12	< 0.1	< 0.12	0.2				< 0.1	< 0.14
	ug/kg	4,4'-DDE	< 0.47	< 0.49	< 0.1	0	0	< 0.1	< 0.1	< 0.1	0.16				< 0.1	< 0.11
	ug/kg	Endrin	< 0.47	< 0.49	< 0.22	0	0	< 0.22	< 0.1	< 0.22	0.36				< 0.1	< 0.25
	ug/kg	Endosulfan II			< 0.24			< 0.24		< 0.24	0.4					< 0.27
	ug/kg	4,4'-DDD	< 0.47	< 0.49	< 0.26	0	0	< 0.27	< 0.1	< 0.27	0.44				< 0.1	< 0.3
	ug/kg	Endrinaldehyde			< 0.26			< 0.27		< 0.27	0.44					< 0.3
	ug/kg	Sulfan sulfate			< 0.26			< 0.27		< 0.27	0.44					< 0.3
	ug/kg	4,4'-DDT	< 0.47	< 0.49	< 0.31	0	0	< 0.32	< 0.1	< 0.32	0.52				< 0.1	< 0.36
	ug/kg	Methoxychlor			< 0.53			< 0.54		< 0.54	0.88					< 0.6
	ug/kg	Endrinketone			< 0.26			< 0.27		< 0.27	0.44					< 0.3
	ug/kg	Chlorodane	< 0.24	< 0.25	< 1.44	0	0	< 1.46	< 1	< 1.46	2.41				< 1	< 1.64
	ug/kg	Toxaphene			< 1.44			< 1.46		< 1.46	2.41					< 1.64
METALS	mg/kg	Ag (silver)										0.167	0.069	1.07		
	mg/kg	Al (aluminum)														
	mg/kg	As (arsenic)	1.5		< 1	0	0	< 1	6	< 1	5	2.53	0.53	1.07	10	< 1.2
	mg/kg	B (boron)														
	mg/kg	Ba (barium)				10	20		20						30	
	mg/kg	Be (beryllium)										0.175	0.127	0.14		
	mg/kg	Cd (cadmium)	0.25		< 1.1	< 10	< 10	< 1.1	< 1	< 1.1	< 2	0.361	0.066	0.11	< 1	< 1.3
	mg/kg	Cr (chromium)	6.9		19.4	< 10	< 10	6.6	< 10	5	33.1	18.3	7.7	9.4	< 10	7.9
	mg/kg	Cu (copper)	2.3		4.4	< 10	< 10	3.7	2	1.9	18.6	6.8	2.2	2.6	3	4.4
	mg/kg	Fe (iron)				3700	2300		2900						3000	
	mg/kg	Hg (mercury)	< 0.04		< 0.01	0	0.04	< 0.01	< 0.01	< 0.01	< 0.2	0.03	0.02	0.01	< 0.01	< 0.01
	mg/kg	Mg (magnesium)														
	mg/kg	Mn (manganese)	325		356	160	160	270	190	169	817				170	562
	mg/kg	Mo (molybdenum)														
	mg/kg	Ni (nickel)	6.3		10	< 10	< 10	< 5.5	< 10	< 5.6	22.1	10.2	5.5	4.2	< 10	7.1
	mg/kg	Pb (lead)	2.7		1.9	< 10	< 10	3.8	< 10	6.9	16.1	9.1	4.2	3.3	< 10	4.1
	mg/kg	Sb (antimony)														
	mg/kg	Se (selenium)			< 0.85			< 0.84		< 0.85	< 1.6	0.13	0.13	0.11		< 1
	mg/kg	Sn (tin)														
	mg/kg	Sr (strontium)														
	mg/kg	Ti (titanium)														
	mg/kg	Zn (zinc)	15.5		22.7	20	10	20.1	15	14.4	63.7	33.1	15.8	13.9	18	26.4
	mg/kg	V (vanadium)														
PCB'S	ug/kg	Aroclor-1006	< 4.7	< 4.9	< 1.44			< 1.46		< 1.46	2.41					< 1.64
	ug/kg	Aroclor-1221	< 4.7	< 4.9	< 1.44			< 1.46		< 1.46	2.41					< 1.64
	ug/kg	Aroclor-1232	< 4.7	< 4.9	< 1.44			< 1.46		< 1.46	2.41					< 1.64
	ug/kg	Aroclor-1242	< 4.7	< 4.9	< 1.44			< 1.46		< 1.46	2.41					< 1.64
	ug/kg	Aroclor-1248	< 4.7	< 4.9	< 1.44			< 1.46		< 1.46	2.41					< 1.64
	ug/kg	Aroclor-1254	< 4.7	< 4.9	< 3			< 3.05		< 3.05	5.03					< 3.43
	ug/kg	Aroclor-1260	< 4.7	< 4.9	< 3			< 3.05		< 3.05	5.03					< 3.43
	ug/kg	Total PCB's				0	0		0						0	
PARTICLE SIZE %FINER	SAND coarse	3 in					100		100							
		1 1/2				100	100		100						100	
		3/4				100	100		100						100	
		3/8				100	100		100						100	
		4	98		99.84	100	100	98.4027	100	99.4601					99	99.5146
		8				98									95	
		10	95.8		99.243		99	96.4716	97	98.1938						96.8648
	SAND medium	16			93.0	94.0		89.1		94.9					89.0	91.7
		20	86.2				91.0		84.0							
		30			48.6	76.0		62.4		75.7					69.0	67.9
		40	31.0			53.0	59.0		49.0						52.0	
		50			48.6	17.0		62.4		75.7					21.0	67.9
	SAND fine	70				2.0									3.0	
		80			3.8		1.0	9.2	2.0	7.6						21.7
		100	1.0		0.5	0.0		0.3		0.7					0.0	7.8
		140	0.9		0.5			0.3		0.7						7.0
	SILT CLAY	200	0.3		0.4	0.0	0.0	0.2	1.0	0.5					0.0	5.2
		270			0.3	0.0				0.4					0.0	3.7
		0.20 mm				0.0	0.0		0.0	0.3					0.0	3.0
		0.05 mm				0.0	0.0		0.0	0.2					0.0	2.0
MISC	%	Total Organic Carb	0.026	0.026	0.25			0.086		0.13						0.69
	mg/kg	Chem Oxy Demand				2200	2200		2200						2700	
	mg/kg	Kjedahl Nitrogen				422	300		260						242	
	mg/kg	Total Phosph				--	110		260						--	
	mg/kg	Oil and Grease				100	0		0						100	
	mg/kg	Cyanide, Total			< 0.62			< 0.62		< 0.63	< 0.98					< 0.82
	mg/kg	Ammonia			0.25			0.56		< 0.25						43.00
	mg/l	Ammonia Elutriate	< 0.06	< 0.06							113.00					
	%	Moisture	14.2	16.0	19.8			19.6		20.9						38.7
	%	Total Solids	85.8	84.0	80.2			80.4		79.1						61.3
	%	Volatile Solids	0.9	1.0	0.6			0.7		0.6	6.2					3.4

Table 5. Contaminant Data for Pool 3 of the Upper Mississippi River

		Record #	537			104				344	341	342	340	347	346	345
		River Mile	800.0	800.0	799.5	799.2	799.2	799.0	798.5	797.3	797.3	797.3	797.3	797.3	797.3	797.3
		Location	BLW DIAMOND BLUFF	BLW DIAMOND BLUFF 1	UPPER GOOSE LAKE	BLW DIAMOND BLUFF	BLW DIAMOND BLUFF 2	MID GOOSE LAKE	LOWER GOOSE LAKE	Above lock and dam 3	Above lock and dam 3	Above lock and dam 3	Above lock and dam 3	Above lock and dam 3	Above lock and dam 3	Above lock and dam 3
		Year	1989	1994	1994	1981	1994	1994	1994	1986	1986	1986	1986	1986	1986	1986
		System	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		Habitat Type	1	1	3	1	1	3	3	1	1	1	1	1	1	1
		Pool	3	3	3	3	3	3	3	3	3	3	3	3	3	3
		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	< 0.08	< 0.24	0.13		< 0.24	0.13	0.14							
	ug/kg	b-BHC	< 0.15	< 0.24	0.27		< 0.24	0.26	0.27							
	ug/kg	BHC	< 0.23	< 0.24	0.4		< 0.24	0.39	0.41							
	ug/kg	g-BHC (lindane)	< 0.1	< 0.24	0.18		< 0.24	0.17	0.18							
	ug/kg	Heptachlor	< 0.08	< 0.24	0.13		< 0.24	0.13	0.14							
	ug/kg	Aldrin	< 0.1		0.18			0.17	0.18							
	ug/kg	Heptachlorepoxide	< 0.13		0.22			0.21	0.23							
	ug/kg	Endosulfan I	< 0.13		0.22			0.21	0.23							
	ug/kg	Dieldrin	< 0.13	< 0.49	0.22	< 0.1	< 0.49	0.21	0.23							
	ug/kg	4,4'-DDE	< 0.1	< 0.49	0.18	< 0.1	< 0.49	0.17	0.18							
	ug/kg	Endrin	< 0.23	< 0.49	0.4	< 0.1	< 0.49	0.39	0.41							
	ug/kg	Endosulfan II	< 0.25		0.44			0.43	0.45							
	ug/kg	4,4'-DDD	< 0.28	< 0.49	0.49	< 0.1	< 0.49	0.47	0.5							
	ug/kg	Endrinaldehyde	< 0.28		0.49			0.47	0.5							
	ug/kg	Sulfan sulfate	< 0.28		0.49			0.47	0.5							
	ug/kg	4,4'-DDT	< 0.33	< 0.49	0.57	< 0.1	< 0.49	0.56	0.59							
	ug/kg	Methoxychlor	< 0.56		0.97			0.94	0.99							
	ug/kg	Endrinketone	< 0.28		0.49			0.47	0.5							
	ug/kg	Chlorodane	< 1.52	< 0.24	2.65	< 1	< 0.24	2.57	2.71							
	ug/kg	Toxaphene	< 1.52		2.65			2.57	2.71							
METALS	mg/kg	Ag (silver)														
	mg/kg	Al (aluminum)								2600	2700	1800	2600	1700	2100	3250
	mg/kg	As (arsenic)	< 1.1	0.81	2.5	17	1.1	5.1	3.8	0.48	0.2	1.13	0.31	0.78	0.37	1.38
	mg/kg	B (boron)														
	mg/kg	Ba (barium)				20				17	18	13	10	13	13	24
	mg/kg	Be (beryllium)														
	mg/kg	Cd (cadmium)	< 1.2	< 0.12	< 2.2	< 2	0.37	< 2.2	< 2.3	0.21	0.23	0.24	0.19	0.17	0.21	0.33
	mg/kg	Cr (chromium)	5.4	5.8	25.3	< 10	6.5	26.2	24.6	6.4	9	5	5	4.5	5.3	9.4
	mg/kg	Cu (copper)	3.2	1.4	14.2	3	2	20.7	19.2	1.9	2.1	1.4	1.3	1.3	1.9	4.3
	mg/kg	Fe (iron)				2200										
	mg/kg	Hg (mercury)	< 0.01	< 0.04	< 0.22	< 0.01	0.12	< 0.22	< 0.23	0.028	0.005	0.007	0.007	0.007	0.009	0.046
	mg/kg	Mg (magnesium)														
	mg/kg	Mn (manganese)	370	192	1010	130	221	1150	1100	190	250	180	120	120	140	210
	mg/kg	Mo (molybdenum)														
	mg/kg	Ni (nickel)	< 5.8	4.5	21.3	< 10	4.7	24.2	17.9	6	5.8	4.4	4.8	3.7	4.9	5.6
	mg/kg	Pb (lead)	14.9	3.2	8.8	< 20	3.2	18.2	17.3	7.6	7.1	6.6	5.6	5.7	6.3	11.6
	mg/kg	Sb (antimony)														
	mg/kg	Se (selenium)	< 0.89		< 1.8			< 1.7	< 1.8	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
	mg/kg	Sn (tin)														
	mg/kg	Sr (strontium)														
	mg/kg	Ti (titanium)														
	mg/kg	Zn (zinc)	19.9	12.4	74.8	16	13.9	107	75	13	13	11.5	10	9.4	11	19.5
	mg/kg	V (vanadium)														
PCB'S	ug/kg	Aroclor-1006	< 1.52	< 4.9	2.65		< 4.9	2.57	2.71							
	ug/kg	Aroclor-1221	< 1.52	< 4.9	2.65		< 4.9	2.57	2.71							
	ug/kg	Aroclor-1232	< 1.52	< 4.9	2.65		< 4.9	2.57	2.71							
	ug/kg	Aroclor-1242	< 1.52	< 4.9	2.65		< 4.9	2.57	2.71							
	ug/kg	Aroclor-1248	< 1.52	< 4.9	2.65		< 4.9	2.57	2.71							
	ug/kg	Aroclor-1254	< 3.18	< 4.9	5.53		< 4.9	5.35	5.65							
	ug/kg	Aroclor-1260	< 3.18	< 4.9	5.53		< 4.9	5.35	5.65							
	ug/kg	Total PCB's				0				0	0	0	0	0	0	0
PARTICLE SIZE %FINER	SAND coarse	3 in														
		1 1/2				100										
		3/4				100										
		3/8				100										
		4	98.926	100		100	99.4									
		8				96										
		10	82.5677	99.7			91.9									
	SAND fine medium	16	79.5			83.0										
		20		96.3			88.0									
		30	66.6			49.0										
		40		65.8		28.0	62.1									
		50	66.6			9.0										
		70				1.0										
		80	19.6													
		100	5.0	1.5		0.0	4.3									
		140	4.7	1.0			3.1									
	SILT CLAY	200	3.9	0.6		0.0	2.7									
		270	3.1			0.0										
		0.20 mm	2.5			0.0										
		0.05 mm	1.6			0.0										
MISC	%	Total Organic Carb	0.42	0.03			0.054									
	mg/kg	Chem Oxy Demand				2400										
	mg/kg	Kjedahl Nitrogen				249										
	mg/kg	Total Phosph				--										
	mg/kg	Oil and Grease				0										
	mg/kg	Cyanide, Total	< 0.73	< 0.06	< 1.1		< 0.06	< 1.1	< 1.1							
	mg/kg	Ammonia	24.00													
	mg/l	Ammonia Elutriate		< 0.06	204.00		< 0.06	388.00	249.00							
	%	Moisture	31.2	21.4			21.7									
	%	Total Solids	68.8	78.6			78.3									
	%	Volatile Solids	2.1	0.9	6.7		1.1	8.4	11.8							

Table 5. Contaminant Data for Pool 3 of the Upper Mississippi River

		Record #	339	343	1371	1397	1375	1379	1380	1393	1392	1384	1388	1401	1405	1406
		River Mile	797.3	797.3	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0
		Location	Above lock and dam 3	Above lock and dam 3	Ab. L/D 3 - east	Ab. L/D 3 - west	Ab. L/D 3 - mid	Ab. L/D 3 - west	Ab. L/D 3 - mean	Ab. L/D 3 - mean	Ab. L/D 3 - west	Ab. L/D 3 - east	Ab. L/D 3 - mid	Ab. L/D 3 - mid	Ab. L/D 3 - west	Ab. L/D 3 - mean
		Year	1986	1986	1982	1982	1982	1982	1982	1983	1983	1983	1983	1984	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	3	3	3	3	3	3	3	3	3	3	3	3	3	3
		Sam. Gear	1	1	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	COE	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC
CHC'S	ug/kg	a-BHC							< 0.53	6.1						< 0.32
	ug/kg	b-BHC							< 10	< 1.1						< 0.64
	ug/kg	BHC														
	ug/kg	g-BHC (lindane)							8	2.1						< 0.32
	ug/kg	Heptachlor							7	< 0.53						< 0.32
	ug/kg	Aldrin														
	ug/kg	Heptachlorepoxide														
	ug/kg	Endosulfan I														
	ug/kg	Dieldrin							< 20	< 1.6						< 0.96
	ug/kg	4,4'-DDE							< 7	< 1.6						< 0.96
	ug/kg	Endrin							< 10	< 2.1						< 1.3
	ug/kg	Endosulfan II														
	ug/kg	4,4'-DDD							< 14	< 3.2						< 1.9
	ug/kg	Endrinaldehyde														
	ug/kg	Sulfan sulfate														
	ug/kg	4,4'-DDT							< 20	< 4.2						< 2.5
	ug/kg	Methoxychlor														
	ug/kg	Endrinketone														
	ug/kg	Chlorodane							< 2	< 11						< 6.4
	ug/kg	Toxaphene														
METALS	mg/kg	Ag (silver)			0.099	0.108	0.099	0.157			0.064	0.031	0.06	0.081	0.083	
	mg/kg	Al (aluminum)	1950	3000												
	mg/kg	As (arsenic)	0.25	0.72	1.96	1.34	1.62	5.03			1.9	1.01	1.54	1.79	2.04	
	mg/kg	B (boron)														
	mg/kg	Ba (barium)	9.9	25												
	mg/kg	Be (beryllium)			0.171	0.126	0.096	0.515			0.117	0.084	0.117	0.119	0.224	
	mg/kg	Cd (cadmium)	0.19	0.465	0.124	0.209	0.082	0.214			0.064	0.114	0.082	0.124	0.24	
	mg/kg	Cr (chromium)	5	9.4	11.4	11	14.5	28.5			26.2	25	30.3	9.9	12.1	
	mg/kg	Cu (copper)	1.7	3.6	3.2	4.5	2.5	13			3.4	2.2	2.9	3.7	6.1	
	mg/kg	Fe (iron)														
	mg/kg	Hg (mercury)	0.007	0.022	0.05	0.05	0.05	0.05			0.05	0.05	0.05	0.05	0.05	
	mg/kg	Mg (magnesium)														
	mg/kg	Mn (manganese)	130	250	580.8	334.6	400.6	1408.8						441.9	469	
	mg/kg	Mo (molybdenum)														
	mg/kg	Ni (nickel)	4.3	8.6	7.4	7.5	9.3	18.7			9.5	7.7	11.9	6.9	8.6	
	mg/kg	Pb (lead)	5.2	10.8	3.5	5.1	2.6	6			3.8	3.8	2.9	30.2	4.7	
	mg/kg	Sb (antimony)														
	mg/kg	Se (selenium)	< 0.2	< 0.2	0.05	0.12	0.05	0.06			0.06	0.05	0.05	0.12	0.12	
	mg/kg	Sn (tin)														
	mg/kg	Sr (strontium)														
	mg/kg	Ti (titanium)			0.6	0.6	0.7	0.8			0.6	0.6	0.6	0.6	0.6	
	mg/kg	Zn (zinc)	10.5	20.5	19.2	22.8	17.2	52.2			16.1	15.5	15	17.4	28.4	
	mg/kg	V (vanadium)														
PCB'S	ug/kg	Aroclor-1006							70.00	16.00						16.00
	ug/kg	Aroclor-1221														
	ug/kg	Aroclor-1232														
	ug/kg	Aroclor-1242														
	ug/kg	Aroclor-1248														
	ug/kg	Aroclor-1254							90	9.8						10
	ug/kg	Aroclor-1260							< 20	< 5.3						< 3.2
	ug/kg	Total PCB's	0	0												
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													
		20														
		30	87.0													
		40	71.0													
		50	40.0													
	SAND fine	70	10.0													
		80														
		100	1.0													
		140														
	SILT CLAY	200	1.0													
		270	0.0													
		0.20 mm	0.0													
		0.05 mm	0.0													
MISC	%	Total Organic Carb														
	mg/kg	Chem Oxy Demand	1800													
	mg/kg	Kjedahl Nitrogen	295													
	mg/kg	Total Phosph	--													
	mg/kg	Oil and Grease	0													
	mg/kg	Cyanide, Total														
	mg/kg	Ammonia														
	mg/l	Ammonia Elutriate														
	%	Moisture														
	%	Total Solids														
	%	Volatile Solids														

Table 5. Contaminant Data for Pool 3 of the Upper Mississippi River

			Record #	1419	1419	1410	1418	1414
			River Mile	797.0	797.0	797.0	797.0	797.0
			Location	Ab. L/D 3 - mean	Ab. L/D 3 - mean-dup	Ab. L/D 3 - east	Ab. L/D 3 - west	Ab. L/D 3 - mid
			Year	1985	1985	1985	1985	1985
			System	1	1	1	1	1
			Habitat Type	1	1	1	1	1
			Pool	3	3	3	3	3
			Sam. Gear	3	3	3	3	3
			Sam. Depth	10	10	10	10	10
			Data Cit.	MWCC	MWCC	MWCC	MWCC	MWCC
CHC'S	ug/kg	a-BHC		< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
	ug/kg	b-BHC		< 0.53	< 0.53	< 0.53	< 0.53	< 0.53
	ug/kg	BHC						
	ug/kg	g-BHC (lindane)		< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
	ug/kg	Heptachlor		< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
	ug/kg	Aldrin						
	ug/kg	Heptachlorepoxide						
	ug/kg	Endosulfan I						
	ug/kg	Dieldrin		< 0.79	< 0.79	< 0.79	< 0.79	< 0.79
	ug/kg	4,4'-DDE		< 0.79	< 0.79	< 0.79	< 0.79	< 0.79
	ug/kg	Endrin		< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
	ug/kg	Endosulfan II						
	ug/kg	4,4'-DDD		< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
	ug/kg	Endrinaldehyde						
	ug/kg	Sulfan sulfate						
	ug/kg	4,4'-DDT		< 2.1	< 2.1	< 2.1	< 2.1	< 2.1
	ug/kg	Methoxychlor						
	ug/kg	Endrinketone						
	ug/kg	Chlorodane		< 5.3	< 5.3	< 5.3	< 5.3	< 5.3
	ug/kg	Toxaphene						
METALS	mg/kg	Ag (silver)				0.01	0.012	0.011
	mg/kg	Al (aluminum)						
	mg/kg	As (arsenic)				1.79	1.44	1.62
	mg/kg	B (boron)						
	mg/kg	Ba (barium)						
	mg/kg	Be (beryllium)				0.113	0.082	0.091
	mg/kg	Cd (cadmium)				0.083	0.063	0.061
	mg/kg	Cr (chromium)				9.2	7.5	6.7
	mg/kg	Cu (copper)				6.3	1.4	1.6
	mg/kg	Fe (iron)						
	mg/kg	Hg (mercury)				0.05	0.05	0.05
	mg/kg	Mg (magnesium)						
	mg/kg	Mn (manganese)				206.4	135	221.5
	mg/kg	Mo (molybdenum)						
	mg/kg	Ni (nickel)				6.7	4.6	4.9
	mg/kg	Pb (lead)				3.9	2.5	3
	mg/kg	Sb (antimony)				4	3.4	3.3
	mg/kg	Se (selenium)				0.11	0.13	0.12
	mg/kg	Sn (tin)						
	mg/kg	Sr (strontium)						
	mg/kg	Ti (titanium)				1.9	1.4	1.4
	mg/kg	Zn (zinc)				18.3	11.6	13.1
	mg/kg	V (vanadium)						
PCB'S	ug/kg	Aroclor-1006		22.10	17.10	< 5.3	35.00	27.70
	ug/kg	Aroclor-1221						
	ug/kg	Aroclor-1232						
	ug/kg	Aroclor-1242						
	ug/kg	Aroclor-1248						
	ug/kg	Aroclor-1254		< 5.3	< 5.3	< 5.3	< 5.3	< 5.3
	ug/kg	Aroclor-1260		< 5.3	< 5.3	< 5.3	< 5.3	< 5.3
	ug/kg	Total PCB's						
PARTICLE SIZE %FINER	SAND	coarse	3 in					
			1 1/2					
			3/4					
			3/8					
			4					
			8					
			10					
		medium	16					
			20					
			30					
			40					
			50					
		fine	70					
			80					
			100					
			140					
	SILT	CLAY	200					
			270					
			0.20 mm					
			0.05 mm					
MISC	%	Total Organic Carb						
	mg/kg	Chem Oxy Demand						
	mg/kg	Kjedahl Nitrogen						
	mg/kg	Total Phosph						
	mg/kg	Oil and Grease						
	mg/kg	Cyanide, Total						
	mg/kg	Ammonia						
	mg/l	Ammonia Elutriate						
	%	Moisture						
	%	Total Solids						
	%	Volatile Solids						