Table 13. Contaminant Data for Pool 10 of the Upper Mississippi River

		Record #	289	290	291	446	292	293	445	294	295	738	296	739	297	740
		River Mile	646.5	646.2	646.1	644.5	644.3	644.3	644.1	643.3	642.8	641.5	635.5	633.4	633.2	631.4
		Location	HAY POINT	HAY POINT	HAY POINT	JACKSON ISLAND	JACKSON ISLAND	JACKSON ISLAND	JACKSON ISLAND	MISSISSIPPI GARDENS	MISSISSIPPI GARDENS	L-Sm Bay Nr Entr Off SI	PRAIRIE DuCHIEN BOAT	R-Chnl McGregor WTF Dis	McGREGOR	L-L Bank Chute on WI R.
		Year	1981	1974	1981	1989	1979	1979	1989	1981	1981	1985	1981	1985	1974	1985
		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	3	2	3	1	3
		Pool	10	10	10	10	10	10	10	10	10	10	10	10	10	10
		Sam. Gear	1	1	1	1	1	1	1	1	1	2	1	2	1	2
		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	FWS	COE	FWS	COE	FWS
CHC'S	ug/kg	a-BHC				< 0.08			< 0.08			< 10		< 10		< 10
	ug/kg	b-BHC				< 0.16			< 0.15			< 10		< 10		< 10
	ug/kg	BHC				< 0.23			< 0.23							
	ug/kg	g-BHC (lindane)				< 0.1			< 0.1			< 10		< 10		< 10
	ug/kg	Heptachlor				< 0.08			< 0.08			< 10		< 10		< 10
	ug/kg	Aldrin				< 0.1			< 0.1							
	ug/kg	Heptachlorepoxide				< 0.13			< 0.13							
	ug/kg	Endosulfan I				< 0.13			< 0.13							
	ug/kg	Dieldrin	< 0.1	< 10	< 0.1	< 0.13	0	0	< 0.13	< 0.1	< 0.1	< 10	< 0.1	< 10	< 10	< 10
	ug/kg	4,4'-DDE	< 0.1	< 10	< 0.1	< 0.1	0	0	< 0.1	< 0.1	< 0.1	< 10	< 0.1	< 10	< 10	< 10
	ug/kg	Endrin	< 0.1	< 10	< 0.1	< 0.23	0	0	< 0.23	< 0.1	< 0.1	< 10	< 0.1	< 10	< 10	< 10
	ug/kg	Endosulfan II				< 0.26			< 0.26							
	ug/kg	4,4'-DDD	< 0.1	< 10	< 0.1	< 0.29	0	0	< 0.28	< 0.1	< 0.1	< 10	1.2	< 10	< 10	< 10
	ug/kg	Endrinaldehyde				< 0.29			< 0.28							
	ug/kg	Sulfan sulfate				< 0.29			< 0.28							
	ug/kg	4,4'-DDT	< 0.1	< 10	< 0.1	< 0.34	0	0	< 0.33	< 0.1	< 0.1	< 10	< 0.1	< 10	< 10	< 10
	ug/kg	Methoxychlor				< 0.57			< 0.56							
	ug/kg	Endrinketone				< 0.29			< 0.28							
	ug/kg	Chlorodane	< 1	< 10	< 1	< 1.56	0	0	< 1.54	< 1	< 1	< 10	5	< 10	< 10	< 10
	ug/kg	Toxaphene				< 1.56			< 1.54							
METALS	mg/kg	Ag (silver)										< 0.4		< 0.4		< 0.4
	mg/kg	Al (aluminum)										9170		3480		10100
	mg/kg	As (arsenic)	3	< 0.8	2	< 0.72	0	0	< 0.75	6	2	< 7	29	< 5	0.9	< 7
	mg/kg	B (boron)										8		8		< 4
	mg/kg	Ba (barium)	40		40		20	30		20	80	141	170	63.3		126
	mg/kg	Be (beryllium)										0.63		0.27		0.66
	mg/kg	Cd (cadmium)	< 1	< 0.9	< 1	< 1.1	< 10	< 10	< 1.2	< 1	< 1	0.6	1	< 0.3	1	< 0.3
	mg/kg	Cr (chromium)	< 10	4	< 10	3.6	< 10	< 10	4.1	< 10	< 10	20	20	8.4	94	18
	mg/kg	Cu (copper)	< 10	2	< 10	< 1.4	< 10	< 10	< 1.5	< 10	< 10	16	28	13	5	13
	mg/kg	Fe (iron)	3200		3700		2700	2700		3300	3200	18600	16000	7330		20800
	mg/kg	Hg (mercury)	< 0.01	0.6	< 0.01	< 0.12	0	0	< 0.12	< 0.01	< 0.01	0.2	0.01	0.45	0.2	0.11
	mg/kg	Mg (magnesium)										4850		15000		4790
	mg/kg	Mn (manganese)	480		620	354	190	180	205	260	1100	< 1170	960	< 418		< 1530
	mg/kg	Mo (molybdenum)										2		1		2
	mg/kg	Ni (nickel)	< 10	4	< 10	< 5.6	< 10	< 10	< 5.8	< 10	< 10	17	30	8	28	15
	mg/kg	Pb (lead)	< 10	< 9	< 10	1.3	< 10	< 10	1.2	< 10	< 10	17	40	25	11	15
	mg/kg	Sb (antimony)										< 4		< 4		< 5
	mg/kg	Se (selenium)				< 0.84			< 0.88			< 10		< 10		< 10
	mg/kg	Sn (tin)										< 2		< 2		< 2
	mg/kg	Sr (strontium)										24		24.5		14.6
	mg/kg	Ti (titanium)										20		20		20
	mg/kg	Zn (zinc)	8	9	8	10.3	< 10	< 10	8.4	8	8	73	83	58.5	25	75.1
	mg/kg	V (vanadium)										< 12		< 8.9		< 21
PCB'S	ug/kg	Aroclor-1006				< 1.56			< 1.54							
	ug/kg	Aroclor-1221				< 1.56			< 1.54							
	ug/kg	Aroclor-1232				< 1.56			< 1.54							
	ug/kg	Aroclor-1242				< 1.56			< 1.54							
	ug/kg	Aroclor-1248				< 1.56			< 1.54							
	ug/kg	Aroclor-1254				< 3.25			< 3.2							
	ug/kg	Aroclor-1260				< 3.25			< 3.2							
	ug/kg	Total PCB's	0	0	0		0	0		0	0	0	29	0	0	0
PARTICLE SIZE %FINER	SAND coarse	3 in		100			100	100							100	
		1 1/2	100	100	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		100		100	
		4	100	100	100	99.9	100	100	100.0	100	100		100		100	
		8	97	100	99					100	100		100		100	
		10				99.6	100	100	99.8							
	SAND medium	16	92.0	100	84.0	98.1			98.8	99.0	100		100		100	
		20					100	100								
		30	70.0		59.0	77.5			80.3	89.0	95.0		100			
		40	50.0	64.0	54.0		92.0	98.0		67.0	86.0		100		47.0	
		50	19.0		23.0	77.5			80.3	29.0	49.0		99.0			
	SAND fine	70	4.0		4.0					7.0	13.0		99.0			
		80				11.6	8.0	35.0	17.3							
		100	0.0	0.0	0.0	0.3			0.6	1.0	1.0		99.0		0.0	
		140				0.2										
	SILT CLAY	200	0.0	0.0	0.0		1.0	13.0		0.0	1.0		98.0		0.0	
		270	0.0		0.0					0.0	0.0		97.0			
		0.20 mm	0.0	0.0	0.0		0.0	6.0		0.0	0.0		71.0		0.0	
		0.05 mm	0.0	0.0	0.0		0.0	2.0		0.0	0.0		34.0		0.0	
MISC	%	Total Organic Carb				0.047			0.083							
	mg/kg	Chem Oxy Demand	1800	3271	1600		1700	1900		1600	2000		52000		12705	
	mg/kg	Kjedahl Nitrogen	224	90	286		8400	2300		292	276		10700		379	
	mg/kg	Total Phosph		102			38	87							358	
	mg/kg	Oil and Grease														
	mg/kg	Cyanide, Total				< 0.6			< 0.63							
	mg/kg	Ammonia				< 0.24			0.65							
	mg/l	Ammonia Elutriate														
	%	Moisture				17.2			20.3							
	%	Total Solids				82.8			79.7							
	%	Volatile Solids				0.4			0.3							

Table 13. Contaminant Data for Pool 10 of the Upper Mississippi River

		Record #	443	298	299	444	741	742	441	300	442	387	386	388	385
		River Mile	627.8	627.6	627.5	627.2	625.8	621.0	619.3	618.6	618.5	617.0	617.0	617.0	617.0
		Location	WYALUSING	WYALUSING	WYALUSING	WYALUSING	R-Center of Methodist Lk	L-8th Isl @ Lwrend Duck Lk	McMILLAN	McMILLAN	McMILLAN	Bussey Lake -3	Bussey Lake -2	Bussey Lake -4	Bussey Lake -1
		Year	1989	1974	1974	1989	1985	1985	1989	1974	1989	1988	1988	1988	1988
		System	1	1	1	1	1	1	1	1	1	1	1	1	1
		Habitat Type	1	1	1	1	3	3	1	1	1	3	3	3	3
		Pool	10	10	10	10	10	10	10	10	10	10	10	10	10
		Sam. Gear	1	1	1	1	2	2	1	1	1	4	4	4	4
		Sam. Depth	10	10	10	10	10	10	10	10	10	10	10	10	10
		Data Cit.	COE	COE	COE	COE	FWS	FWS	COE	COE	COE	COE	COE	COE	COE
CHC'S	ug/kg	a-BHC	< 0.08			< 0.08	< 10	< 10	< 0.08		< 0.08	< 0.003	< 0.003	< 0.004	< 0.033
	ug/kg	b-BHC	< 0.16			< 0.16	< 10	< 10	< 0.16		< 0.16	< 0.009	< 0.009	< 0.013	< 0.1
	ug/kg	BHC	< 0.23			< 0.23			< 0.23		< 0.23				
	ug/kg	g-BHC (lindane)	< 0.1			< 0.1	< 10	< 10	< 0.1		< 0.1	< 0.009	< 0.009	< 0.013	< 0.1
	ug/kg	Heptachlor	< 0.08			< 0.08	< 10	< 10	< 0.08		< 0.08	< 0.009	< 0.009	< 0.013	< 0.1
	ug/kg	Aldrin	< 0.1			< 0.1			< 0.1		< 0.1				
	ug/kg	Heptachlorepoxide	< 0.13			< 0.13			< 0.13		< 0.13				
	ug/kg	Endosulfan I	< 0.13			< 0.13			< 0.13		< 0.13				
	ug/kg	Dieldrin	< 0.13	< 10	< 10	< 0.13	< 10	< 10	< 0.13	< 10	< 0.13	< 0.02	< 0.02	< 0.02	< 0.17
	ug/kg	4,4'-DDE	< 0.1	< 10	< 10	< 0.1	< 10	< 10	< 0.1	< 10	< 0.1	0.29	< 0.009	0.8	< 0.1
	ug/kg	Endrin	< 0.23	< 10	< 10	< 0.23	< 10	< 10	< 0.23	< 10	< 0.23	< 0.03	< 0.03	< 0.04	< 0.3
	ug/kg	Endosulfan II	< 0.26			< 0.26			< 0.26		< 0.26				
	ug/kg	4,4'-DDD	< 0.29	< 10	< 10	< 0.29	< 10	< 10	< 0.29	< 10	< 0.29	< 0.02	< 0.02	0.65	< 0.17
	ug/kg	Endrinaldehyde	< 0.29			< 0.29			< 0.29		< 0.29				
	ug/kg	Sulfan sulfate	< 0.29			< 0.29			< 0.29		< 0.29				
	ug/kg	4,4'-DDT	< 0.34	< 10	< 10	< 0.34	< 10	< 10	< 0.34	< 10	< 0.34	< 0.04	< 0.04	< 0.06	< 0.43
	ug/kg	Methoxychlor	< 0.57			< 0.57			< 0.57		< 0.57				
	ug/kg	Endrinketone	< 0.29			< 0.29			< 0.29		< 0.29				
	ug/kg	Chlorodane	< 1.56	< 10	< 10	< 1.56	< 10	< 10	< 1.56	< 10	< 1.56	0.2	< 0.23	0.61	< 2.55
	ug/kg	Toxaphene	< 1.56			< 1.56			< 1.56		< 1.56				
METALS	mg/kg	Ag (silver)					< 0.4	< 0.4							
	mg/kg	Al (aluminum)					11500	6450							
	mg/kg	As (arsenic)	< 0.75	< 0.8	< 0.9	< 0.74	< 7	< 6	< 0.77	< 0.8	< 0.76	< 0.1	< 0.1	0.61	< 0.1
	mg/kg	B (boron)					6	8							
	mg/kg	Ba (barium)					162	86.3							
	mg/kg	Be (beryllium)					0.77	0.45							
	mg/kg	Cd (cadmium)	< 1.1	< 0.9	< 0.9	< 1.1	0.6	< 0.3	< 1.2	< 0.9	< 1.2	< 0.1	0.16	< 0.1	< 0.1
	mg/kg	Cr (chromium)	3.4	9	9	4.1	23	14	4	4	4.5	5.2	5.2	< 1	3.3
	mg/kg	Cu (copper)	3.5	2	2	1.7	19	10	5.5	2	4.4	3.8	3.6	< 1	2.2
	mg/kg	Fe (iron)					21200	14200							
	mg/kg	Hg (mercury)	< 0.12	< 0.1	< 0.1	< 0.12	0.05	0.05	< 0.13	0.3	< 0.12	< 0.01	< 0.01	< 0.01	< 0.01
	mg/kg	Mg (magnesium)					4680	3910							
	mg/kg	Mn (manganese)	178			155	< 1240	< 751	188		196	185	158	1	118
	mg/kg	Mo (molybdenum)					2	2							
	mg/kg	Ni (nickel)	< 5.7	2	2	< 5.7	22	12	< 5.9	2	< 5.8	6.4	49.8	< 1	3
	mg/kg	Pb (lead)	0.87	< 9	< 9	0.74	22	13	1.6	< 9	0.93	9.6	8.5	11.7	5.1
	mg/kg	Sb (antimony)					< 4	< 4							
	mg/kg	Se (selenium)	< 0.87			< 0.87	< 10	< 10	< 0.89		< 0.88	< 1	< 1	< 1	< 1
	mg/kg	Sn (tin)					< 2	< 2							
	mg/kg	Sr (strontium)					25.4	13.3							
	mg/kg	Ti (titanium)					20	20							
	mg/kg	Zn (zinc)	14.8	11	11	7.6	85.3	52	10.5	10	11.8	0.71	19.8	< 1	12.2
	mg/kg	V (vanadium)					< 13	< 11							
PCB'S	ug/kg	Aroclor-1006	< 1.56			< 1.56			< 1.56		< 1.56	< 0.23	< 0.23	< 0.33	< 2.5
	ug/kg	Aroclor-1221	< 1.56			< 1.56			< 1.56		< 1.56				
	ug/kg	Aroclor-1232	< 1.56			< 1.56			< 1.56		< 1.56				
	ug/kg	Aroclor-1242	< 1.56			< 1.56			< 1.56		< 1.56				
	ug/kg	Aroclor-1248	< 1.56			< 1.56			< 1.56		< 1.56				
	ug/kg	Aroclor-1254	< 3.25			< 3.25			< 3.25		< 3.25	< 6.1	< 0.39	23	< 4.2
	ug/kg	Aroclor-1260	< 3.25			< 3.25			< 3.25		< 3.25	< 0.39	< 0.39	< 0.54	< 4.2
	ug/kg	Total PCB's		0	0		0	0		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	99.9			100	100	99.9				
		8			95					100					
		10				99.6			100		99.7	100	98.8	100	100
	SAND fine medium	16			87.0	98.7			99.4	99.0	98.4				
		20													
		30				71.6			83.3		84.3				
		40			27.0					56.0		96.3	98.5	90.1	79.2
		50				71.6			83.3		84.3				
		70													
		80				2.9			11.2		12.0				
		100			0.0	0.1			1.3	0.0	0.1				
		140							1.2						
	SILT CLAY	200			0.0				0.9	0.0					
		270							0.9			72.5	96.0	55.4	65.8
		0.20 mm			0.0				0.7	0.0		61.1	66.8	86.6	89.7
		0.05 mm			0.0				0.6	0.0		33.2	26.9	59.4	47.1
MISC	%	Total Organic Carb				0.025			0.032		0.018	3.5	3.91	6.21	2.55
	mg/kg	Chem Oxy Demand			2189					3514					
	mg/kg	Kjedahl Nitrogen			135					75					
	mg/kg	Total Phosph			158					82					
	mg/kg	Oil and Grease													
	mg/kg	Cyanide, Total	< 0.63			< 0.62			< 0.64		< 0.63				
	mg/kg	Ammonia	1.5			0.62			1.3		0.82				
	mg/l	Ammonia Elutriate													
	%	Moisture	19.7			19.3			21.7		20.5				
	%	Total Solids	80.3			80.7			78.3		79.5				
	%	Volatile Solids	0.3			0.2			0.2		0.2				