

Table 8. Contaminant Data for Pool 5A of the Upper Mississippi River

Record #		187	466	711	188	465	189	190	712		
River Mile		735.1	734.6	734.9	734.8	734.5	734.1	734.0	734.0	733.7	
Location		ISLAND	ISLAND	ISLAND	R-Bay Mouth Jct	ISLAND	ISLAND	ISLAND	ISLAND	L-Bay Dwn Fntn	
Year		58	58	58	2 Chutes	58	58	58	58	City Bay	
System		1980	2002	1989	1985	1980	1989	1974	1980	1985	
Habitat Type		1	1	1	1	1	1	1	1	1	
Pool		1	1	1	3	1	1	1	1	3	
Sam. Gear		5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	
Sam. Depth		1	1	1	2	1	1	1	1	2	
Data Cit.		10	10	10	10	10	10	10	10	10	
		COE	COE	COE	FWS	COE	COE	COE	COE	FWS	
C H C ' S	ug/kg	a-BHC	<0.12	< 0.07	< 10	< 0.07				< 10	
	ug/kg	b-BHC	<0.12	< 0.14	< 10	< 0.14				< 10	
	ug/kg	BHC	<0.12	< 0.21		< 0.21					
	ug/kg	g-BHC (lindane)	<0.12	< 0.09	< 10	< 0.1				< 10	
	ug/kg	Heptachlor	<0.08	< 0.07	< 10	< 0.07				< 10	
	ug/kg	Aldrin		< 0.09		< 0.1					
	ug/kg	Heptachlorepoxyde	<1.48	< 0.12		< 0.12					
	ug/kg	Endosulfan I		< 0.12		< 0.12					
	ug/kg	Dieldrin	0 <0.12	< 0.12	< 10	< 0.2	< 0.1	< 10	0	< 10	
	ug/kg	4,4'-DDE	0 <0.12	< 0.09	< 10	< 0.2	< 0.21	10	0	< 10	
	ug/kg	Endrin	0 <0.12	< 0.21	< 10	< 0.2	< 0.24	< 10	0	< 10	
	ug/kg	Endosulfan II		< 0.23		< 0.23					
	ug/kg	4,4'-DDD	0 <0.12	< 0.26	< 10	< 0.2	< 0.26	< 10	0	< 10	
	ug/kg	Endrinaldehyde		< 0.26		< 0.26					
	ug/kg	Sulfan sulfate		< 0.26		< 0.26					
	ug/kg	4,4'-DDT	0 <0.24	< 0.3	10	< 0.4	< 0.31	< 10	0	< 10	
ug/kg	Methoxychlor		< 0.51		< 0.51						
ug/kg	Endrinetone		< 0.26		< 0.26						
ug/kg	Chlorodane	0 <0.36	< 1.4	< 10	< 0.4	< 1.43	< 10	0	< 10		
ug/kg	Toxaphene		< 1.4		< 1.4						
M E T A L S	mg/kg	Ag (silver)			< 0.4					< 0.4	
	mg/kg	Al (aluminum)			6190					6390	
	mg/kg	As (arsenic)	0	0.893	0.82	< 6	1.1	0.8	0	< 6	
	mg/kg	B (boron)			4					< 4	
	mg/kg	Ba (barium)	30		89.4				20	104	
	mg/kg	Be (beryllium)			0.38					0.41	
	mg/kg	Cd (cadmium)	< 10	0.08	< 1.1	0.5	0.949	< 1.1	< 1	< 10	0.5
	mg/kg	Cr (chromium)	10	4.2	7.9	16	28.7	6.4	7	30	18
	mg/kg	Cu (copper)	< 10	4.21	4.1	12	6.08	1.9	5	< 10	13
	mg/kg	Fe (iron)	2500		13300	11000			1600	16100	
	mg/kg	Hg (mercury)	0 <0.0058	< 0.12	0.11	< 0.01	< 0.12	0.2	0	0.06	
	mg/kg	Mg (magnesium)			4860					2580	
	mg/kg	Mn (manganese)	260	338	365	< 764	452		220	< 676	
	mg/kg	Mo (molybdenum)			2					2	
	mg/kg	Ni (nickel)	< 10	7.82	10.8	13	10.7	6	10	10	14
	mg/kg	Pb (lead)	< 10	3.62	< 0.49	13	3.09	< 0.48	< 9	< 10	12
mg/kg	Sb (antimony)			< 4					< 4		
mg/kg	Se (selenium)		< 0.82	< 10		< 0.81			< 10		
mg/kg	Sn (tin)			< 2					< 2		
mg/kg	Sr (strontium)			19.6					18.6		
mg/kg	Ti (titanium)			20					20		
mg/kg	Zn (zinc)	8.5	15.1	18.4	50.2	77.6	16	23	7.8	49.8	
mg/kg	V (vanadium)			< 12					< 17		
P C B ' S	ug/kg	Aroclor-1006		< 1.4		< 1.43					
	ug/kg	Aroclor-1221		< 1.4		< 1.43					
	ug/kg	Aroclor-1232		< 1.4		< 1.43					
	ug/kg	Aroclor-1242		< 1.4		< 1.43					
	ug/kg	Aroclor-1248		< 1.4		< 1.43					
	ug/kg	Aroclor-1254		< 2.93		< 2.98					
	ug/kg	Aroclor-1260		< 2.93		< 2.98					
	ug/kg	Total PCB's	0		0	0		0	0	0	
P A R T I C L E S I Z E & F I N E R	D I S T R I B U T I O N	3 in				100		100	100		
		1 1/2				100		100	100		
		3/4				100		100	100		
		3/8				99		100	100		
		4		99.3	99.5	100		98	100		
		8		92		100		91	100		
		10		96.8	95.8						
		16	79.0		81.7	90.0		82.0	99.0		
	S I Z E	M E I M	18		88.2						
			20			26.7					
			30	15.0			37.0		14.0	59.0	
			40		8.1	26.7					
			50								
			60								
	F I N E	S I Z E	70		0.4						
			80			1.1					
100			0.0	0.1	0.2	1.0		0.0	0.0		
140				0.0	0.2						
200			0.0	0.0	0.1	1.0		0.0	0.0		
270					0.1						
F I L T E R	S I Z E	0.20 mm	0.0	0.1				0.0	0.0		
		0.05 mm	0.0	0.1		1.0		0.0	0.0		
M I S C	%	Total Organic Carb	0.02	0.017		0.016					
	mg/kg	Chem Oxy Demand	870			830		414	610		
	mg/kg	Kjedahl Nitrogen	80					48	450		
	mg/kg	Total Phosph				676		140			
	mg/kg	Oil and Grease	0			1840		398	0		
	mg/kg	Cyanide, Total	<0.10	< 0.59		< 0.58					
	mg/kg	Ammonia		< 0.23		0.23					
	mg/l	Ammonia Elutriate									
%	Moisture		20.5	14.6		13.4					
%	Total Solids		79.5	85.4		86.6					
%	Volatile Solids		0.37	0.6		0.7					

Table 8. Contaminant Data for Pool 5A of the Upper Mississippi River

Record #			464	191	192	193	194		195	468		
River Mile			733.7	733.6	733.6	733.5	733.5	733.5	733.5	733.4	733.4	
Location			FOUNTAIN CITY	FOUNTAIN CITY	FOUNTAIN CITY	FOUNTAIN CITY	FOUNTAIN CITY	FOUNTAIN CITY -CT LABS	FOUNTAIN CITY - STAT LAB	FOUNT. CITY B. YARD	FOUNTIAN CITY B. YARD	
Year			1989	1978	1978	1979	1979	2008	2008	1982	1989	
System			1	1	1	1	1	1	1	1	1	
Habitat Type			1	1	1	1	1	1	1	2	1	
Pool			5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	
Sam. Gear			1	1	1	1	1	1	1	1	1	
Sam. Depth			10	10	10	10	10	10	10	10	10	
Data Cit.			COE	COE	COE	COE	COE	COE	COE	COE	COE	
CHC'S	ug/kg	a-BHC	< 0.07						<2.7		< 0.08	
	ug/kg	b-BHC	< 0.14						<2.7		< 0.17	
	ug/kg	BHC	< 0.21						<2.7		< 0.25	
	ug/kg	g-BHC (lindane)	< 0.09						<2.7		< 0.11	
	ug/kg	Heptachlor	< 0.07						<2.7		< 0.08	
	ug/kg	Aldrin	< 0.09						<2.7		< 0.11	
	ug/kg	Heptachlorepoxyde	< 0.12						<2.7		< 0.14	
	ug/kg	Endosulfan I	< 0.12						<2.7		< 0.14	
	ug/kg	Dieldrin	< 0.12	0	0	0	0	<3.2	<2.7	< 0.1	< 0.14	
	ug/kg	4,4'-DDE	< 0.09	0	0	0	0	<3.5	<2.7	< 0.1	< 0.11	
	ug/kg	Endrin	< 0.21	0	0	0	0		<2.7	< 0.1	< 0.25	
	ug/kg	Endosulfan II	< 0.23						<2.7		< 0.28	
	ug/kg	4,4'-DDD	< 0.26	0	0	0	0	<3.7	<2.7	1.2	< 0.31	
	ug/kg	Endrinaldehyde	< 0.26						<2.7		< 0.31	
	ug/kg	Sulfan sulfate	< 0.26								< 0.31	
	ug/kg	4,4'-DDT	< 0.3	0	0	0	0	<4.2	<2.7	< 0.1	< 0.37	
	ug/kg	Methoxychlor	< 0.51						<2.7		< 0.62	
	ug/kg	Endrinketone	< 0.26						<2.7		< 0.31	
	ug/kg	Chlorodane	< 1.39	0	0	0	0		<56	< 1	< 1.69	
	ug/kg	Toxaphene	< 1.39						<56		< 1.69	
METALS	mg/kg	Ag (silver)										
	mg/kg	Al (aluminum)										
	mg/kg	As (arsenic)	1.8	0	0	0	0	4.3	3.2	3.3	1.1	
	mg/kg	B (boron)										
	mg/kg	Ba (barium)		30	30	30	30					
	mg/kg	Be (beryllium)										
	mg/kg	Cd (cadmium)	< 1.1	< 10	< 10	< 10	< 10	18.8	15	0.2	< 1.3	
	mg/kg	Cr (chromium)	10.7	< 10	< 10	< 10	< 10	13.2	12	8	9	
	mg/kg	Cu (copper)	4.4	< 10	< 10	< 10	< 10	13.2	11	7	3	
	mg/kg	Fe (iron)		1900	2200	3700	3200			7500		
	mg/kg	Hg (mercury)	< 0.12	0.08	0.16	0	0	<0.10	0.043	0.021	< 0.14	
	mg/kg	Mg (magnesium)										
	mg/kg	Mn (manganese)	506	240	310	290	290	1070	750		376	
	mg/kg	Mo (molybdenum)										
	mg/kg	Ni (nickel)	9.8	< 10	< 10	< 10	< 10	16.7	13	8	8.2	
	mg/kg	Pb (lead)	< 0.5	< 10	< 10	< 10	< 10	13.2	11	6	3.8	
mg/kg	Sb (antimony)											
mg/kg	Se (selenium)	< 0.85								< 1		
mg/kg	Sn (tin)											
mg/kg	Sr (strontium)											
mg/kg	Ti (titanium)											
mg/kg	Zn (zinc)	20.2	< 10	< 10	10	10	51.3	42	24	21.1		
mg/kg	V (vanadium)											
PCB'S	ug/kg	Aroclor-1006	< 1.39					<31	<130		< 1.69	
	ug/kg	Aroclor-1221	< 1.39								< 1.69	
	ug/kg	Aroclor-1232	< 1.39								< 1.69	
	ug/kg	Aroclor-1242	< 1.39								< 1.69	
	ug/kg	Aroclor-1248	< 1.39					<29	<130		< 1.69	
	ug/kg	Aroclor-1254	< 2.9					<10	<130		< 3.53	
	ug/kg	Aroclor-1260	< 2.9					<19	<130		< 3.53	
	ug/kg	Total PCB's		0	0	0	0			0		
PARTICLE SIZE & FINEER	D	C O A A R S E	3 in		100	100	100	100				
			1 1/2		100	100	100	100			100	
			3/4		100	100	100	100			100	
			3/8		100	100	100	100			100	
			4	88.7	100	100	97	100	100	99.4	100	
			8								100	
			10	78.2	96	95	94	99	100	98.4		
			16	63.7								99.0
	S A	M E I M	20		68.0	84.0	80.0	90.0	96.31	97.2		
			30	22.6								96.0
			40		22.0	55.0	32.0	32.0	76.44	93.8		90.0
			50	22.6								86.0
			60						62.06	89.3		
			70									85.0
			80	1.2	3.0	4.0	2.0	2.0	55.17			
			100	0.1					52.77			85.0
140							85.3					
F L I S C L A Y	F I N E	200		1.0	2.0	1.0	1.0	44.24	84.3		84.0	
		270									83.0	
		0.20 mm		0.0	0.0	1.0	0.0				31.0	
		0.05 mm		0.0	0.0	0.0	0.0				12.0	
MISC	%	Total Organic Car	0.027					7600	46000			
	mg/kg	Chem Oxy Demand		1600	1300	1300	2100			14700		
	mg/kg	Kjedahl Nitrogen		180	210	190	450	1800	505	650		
	mg/kg	Total Phosph		85	42	200	180	980	756	371		
	mg/kg	Oil and Grease		100	0	0	0			< 50		
	mg/kg	Cyanide, Total	< 0.6					<0.60	<0.42		< 0.72	
	mg/kg	Ammonia	0.37					75	45		20	
	mg/l	Ammonia Elutriate										
	%	Moisture	17.9					41.5	41		30.9	
	%	Total Solids	82.1					58.5	59		69.1	
%	Volatile Solids	0.6					0.0505	<0.01		2.2		

Table 8. Contaminant Data for Pool 5A of the Upper Mississippi River

Record #			466	463	467	196	462	197	198	199	200		
River Mile			733.4	733.3	733.3	732.6	731.9	731.8	731.5	731.5	731.5		
Location			FOUNT. CITY B. YARD	FOUNTAIN CITY	FOUNTIAN CITY B. YARD		HEAD OF BETSY SLOUGH	HEAD OF BETSY SLOUGH	HEAD OF BETSY SLOUGH	HEAD OF BETSY SLOUGH	HEAD OF BETSY SLOUGH		
Year			1989	1989	1989	1974	1989	1981	1978	1978	1978		
System			1	1	1	1	1	1	1	1	1		
Habitat Type			1	1	1	1	1	1	1	1	1		
Pool			5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1		
Sam. Gear			1	1	1	1	1	1	1	1	1		
Sam. Depth			10	10	10	10	10	10	10	10	10		
Data Cit.			COE	COE	COE	COE	COE	COE	COE	COE	COE		
C H C ' S	ug/kg	a-BHC		< 0.07	< 0.07		< 0.07						
	ug/kg	b-BHC		< 0.14	< 0.14		< 0.14						
	ug/kg	BHC		< 0.22	< 0.21		< 0.21						
	ug/kg	g-BHC (lindane)		< 0.1	< 0.1		< 0.09						
	ug/kg	Heptachlor		< 0.07	< 0.07		< 0.07						
	ug/kg	Aldrin		< 0.1	< 0.1		< 0.09						
	ug/kg	Heptachlorepoxyde		< 0.12	< 0.12		< 0.12						
	ug/kg	Endosulfan I		< 0.12	< 0.12		< 0.12						
	ug/kg	Dieldrin		< 0.12	< 0.12	< 10	< 0.12	< 0.1	0		0		
	ug/kg	4,4'-DDE		< 0.1	< 0.1	10	< 0.09	< 0.1	0		0		
	ug/kg	Endrin		< 0.22	< 0.21	< 10	< 0.21	< 0.1	0		0		
	ug/kg	Endosulfan II		< 0.24	< 0.24		< 0.24						
	ug/kg	4,4'-DDD		< 0.26	< 0.26	< 10	< 0.26	< 0.1	0		0		
	ug/kg	Endrinaldehyde		< 0.26	< 0.26		< 0.26						
	ug/kg	Sulfan sulfate		< 0.26	< 0.26		< 0.26						
	ug/kg	4,4'-DDT		< 0.31	< 0.31	< 10	< 0.31	< 0.1	0		0		
	ug/kg	Methoxychlor		< 0.53	< 0.52		< 0.52						
	ug/kg	Endrinketone		< 0.26	< 0.26		< 0.26						
ug/kg	Chlorodane		< 1.44	< 1.43	< 10	< 1.42	< 1	0		0			
ug/kg	Toxaphene		< 1.44	< 1.43		< 1.42							
M E T A L S	mg/kg	Ag (silver)											
	mg/kg	Al (aluminum)											
	mg/kg	As (arsenic)		0.99	1.1	0.7	1.8	0	0	0	0		
	mg/kg	B (boron)											
	mg/kg	Ba (barium)						40	40	60	90		
	mg/kg	Be (beryllium)											
	mg/kg	Cd (cadmium)		< 1.1	< 1.1	< 0.8	< 1.1	< 1	< 10	< 10	< 10		
	mg/kg	Cr (chromium)		9.9	6.3	8	7.4	< 10	< 10	< 10	< 10		
	mg/kg	Cu (copper)		3.5	2.4	6	4.4	< 10	< 10	< 10	< 10		
	mg/kg	Fe (iron)						3200	1900	3200	2900		
	mg/kg	Hg (mercury)		< 0.12	< 0.12	0.3	< 0.12	< 0.01	0	0.7	0		
	mg/kg	Mg (magnesium)											
	mg/kg	Mn (manganese)		219	427		539	490	330	490	780		
	mg/kg	Mo (molybdenum)											
	mg/kg	Ni (nickel)		9	7.2	6	11.6	< 10	20	< 10	< 100		
	mg/kg	Pb (lead)		1.4	< 0.5	< 8	0.98	< 10	< 100	< 10	< 100		
mg/kg	Sb (antimony)												
mg/kg	Se (selenium)		< 0.87	< 0.83		< 0.86							
mg/kg	Sn (tin)												
mg/kg	Sr (strontium)												
mg/kg	Ti (titanium)												
mg/kg	Zn (zinc)		20.1	15.9	35	17.4	11	15	10	15			
mg/kg	V (vanadium)												
P C B ' S	ug/kg	Aroclor-1006		< 1.44	< 1.43		< 1.42						
	ug/kg	Aroclor-1221		< 1.44	< 1.43		< 1.42						
	ug/kg	Aroclor-1232		< 1.44	< 1.43		< 1.42						
	ug/kg	Aroclor-1242		< 1.44	< 1.43		< 1.42						
	ug/kg	Aroclor-1248		< 1.44	< 1.43		< 1.42						
	ug/kg	Aroclor-1254		< 3	< 2.98		< 2.95						
	ug/kg	Aroclor-1260		< 3	< 2.98		< 2.95						
	ug/kg	Total PCB's				0		0	0	0	0		
P A R T I C L E S I Z E & F I N E R	D I S T R I B U T I O N	C O A R S E	3 in				100		100	100	100		
			1 1/2				100		100	100	100		
			3/4				100		100	100	100		
			3/8				100		100	100	100		
			4	100	92.6	93.8	100	96.2	98	100	98	100	
			8				96		96				
			10	99.6	83.0	86.8		91.6		99	93	96	
			16	98.8	61.6	66.9	84.0	79.5	82.0				
	S I Z E	F I N E	M E I M	18									
				20						95.0	71.0	68.0	
				30	89.8	23.5	22.3		32.3	43.0			
				40				31.0		13.0	52.0	22.0	22.0
				50	89.8	23.5	22.3		32.3	5.0			
				60									
				70						1.0			
				80	63.9	2.0	1.7		1.8		1.0	3.0	3.0
P A R T I C L E S I Z E & F I N E R	F I N E	C L A S S	100	16.9	0.8	0.4	0.0	0.0	0.0				
			140	13.3	0.1	0.3							
			200	9.2	0.1	0.3	0.0		0.0	1.0	2.0	1.0	
			270	6.7	0.1	0.2			0.0				
P A R T I C L E S I Z E & F I N E R	F I N E	C L A S S	0.20 mm	5.5	0.1	0.2	0.0		0.0	0.0	1.0	1.0	
			0.05 mm	4.1		0.2	0.0		0.0	0.0	0.0	0.0	
M I S C	%	Total Organic Car	0.94	0.05	0.066		0.035						
	mg/kg	Chem Oxy Demand				< 401		860	2300	1700	2100		
	mg/kg	Kjedahl Nitrogen				123		227	120	220	270		
	mg/kg	Total Phosph				152			240	960	110		
	mg/kg	Oil and Grease				385		0	0	0	0		
	mg/kg	Cyanide, Total		< 0.62	< 0.6		< 0.61						
	mg/kg	Ammonia		4.8	< 0.24		< 0.25						
	mg/l	Ammonia Elutriate											
	%	Moisture		19.4	16.1		18.4						
	%	Total Solids		80.6	83.9		81.6						
%	Volatile Solids		0.8	0.6		0.5							

Table 8. Contaminant Data for Pool 5A of the Upper Mississippi River

Record #			201	202	461	203	204	205	206	207	460
River Mile			731.5	731.2	731.1	730.85	730.8	730.8	730.8	730.7	730.7
Location			HEAD OF BETSY SLOUGH	HEAD OF BETSY SLOUGH	HEAD OF BETSY SLOUGH	WILDS BEND	WILDS BEND	WILDS BEND	WILDS BEND	WILDS BEND	WILDS BEND
Year			1978	1981	1989	1978	1978	1978	1978	1982	1989
System			1	1	1	1	1	1	1	1	1
Habitat Type			1	1	1	1	1	1	1	1	1
Pool			5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
Sam. Gear			1	1	1	1	1	1	1	1	1
Sam. Depth			10	10	10	10	10	10	10	10	10
Data Cit.			COE	COE	COE	COE	COE	COE	COE	COE	COE
C H C ' S	ug/kg	a-BHC			< 0.08						< 0.07
	ug/kg	b-BHC			< 0.15						< 0.14
	ug/kg	BHC			< 0.23						< 0.22
	ug/kg	g-BHC (lindane)			< 0.1						< 0.1
	ug/kg	Heptachlor			< 0.08						< 0.07
	ug/kg	Aldrin			< 0.1						< 0.1
	ug/kg	Heptachlorepoxyde			< 0.13						< 0.12
	ug/kg	Endosulfan I			< 0.13						< 0.12
	ug/kg	Dieldrin	0	< 0.1	< 0.13	0	0	0	0	< 0.1	< 0.12
	ug/kg	4,4'-DDE	0	< 0.1	< 0.23	0	0	0	0	< 0.1	< 0.1
	ug/kg	Endrin	0	< 0.1	< 0.25	0	0	0	0	< 0.1	< 0.22
	ug/kg	Endosulfan II			< 0.28						< 0.24
	ug/kg	4,4'-DDD	0	< 0.1	< 0.28	0	0	0	0	< 0.1	< 0.26
	ug/kg	Endrinaldehyde			< 0.28						< 0.26
	ug/kg	Sulfan sulfate			< 0.33						< 0.26
	ug/kg	4,4'-DDT	0	< 0.1	< 0.55	0	0	0	0	< 0.1	< 0.31
	ug/kg	Methoxychlor			< 0.28						< 0.53
	ug/kg	Endrinketone			< 1.51						< 0.26
ug/kg	Chlorodane	0	< 1	< 1.51	0	0	0	0	< 1	< 1.44	
ug/kg	Toxaphene			< 1.51						< 1.44	
M E T A L S	mg/kg	Ag (silver)									
	mg/kg	Al (aluminum)									
	mg/kg	As (arsenic)	0	0	< 0.75	0	0	0	0	2.5	< 0.71
	mg/kg	B (boron)									
	mg/kg	Ba (barium)	60	30		30	30	40	55		
	mg/kg	Be (beryllium)									
	mg/kg	Cd (cadmium)	< 10	< 1	< 1.1	< 10	< 10	< 10	< 10	< 0.19	< 1.1
	mg/kg	Cr (chromium)	< 10	< 10	5.4	< 10	< 10	< 10	< 10	4.8	4.9
	mg/kg	Cu (copper)	< 10	< 10	< 1.5	< 10	< 10	< 10	< 10	3.8	< 1.4
	mg/kg	Fe (iron)	2600	2500		1850	1800	1600	1900	6100	
	mg/kg	Hg (mercury)	0.34	< 0.01	< 0.12	0	0	0	0	0.013	< 0.12
	mg/kg	Mg (magnesium)									
	mg/kg	Mn (manganese)	500	350	491	340	345	390	570		298
	mg/kg	Mo (molybdenum)									
	mg/kg	Ni (nickel)	< 10	< 10	6.4	12	< 10	< 10	< 10	8	< 5.4
mg/kg	Pb (lead)	< 10	< 10	< 0.52	< 10	< 10	8	< 10	2	< 0.5	
mg/kg	Sb (antimony)										
mg/kg	Se (selenium)			< 0.87						< 0.83	
mg/kg	Sn (tin)										
mg/kg	Sr (strontium)										
mg/kg	Ti (titanium)										
mg/kg	Zn (zinc)	10	12	13.8	< 10	< 10	< 10	8	16	11.8	
mg/kg	V (vanadium)										
P C B ' S	ug/kg	Aroclor-1006			< 1.51						< 1.44
	ug/kg	Aroclor-1221			< 1.51						< 1.44
	ug/kg	Aroclor-1232			< 1.51						< 1.44
	ug/kg	Aroclor-1242			< 1.51						< 1.44
	ug/kg	Aroclor-1248			< 1.51						< 1.44
	ug/kg	Aroclor-1254			< 3.15						< 3
	ug/kg	Aroclor-1260			< 3.15						< 3
	ug/kg	Total PCB's	0	0		0	0	0	0	0	
P A R T I C L E S I Z E & F I N E R	D	3 in				100	100	100	100	100	
		1 1/2				100	100	100	100	100	
		3/4				100	100	100	100	100	
		3/8				100	100	100	100	100	
		4			99.5	97	92	92	96	100	99.9
	N	8			99					97	
		10			97.5	36	23	21	30		99.3
		16		96.0	89.8					87.0	95.0
		18									
		20	61.0			28.0	20.0	16.0	23.0		
	S	30		76.0	46.2					62.0	63.2
		40	28.0	50.0		1.0	2.0	1.0	3.0	36.0	
		50		11.0	46.2					11.0	63.2
		60									
		70		1.0						3.0	
F	80	3.0		2.2	1.0	2.0	1.0	3.0		6.3	
	100		0.0	0.1					1.0	0.2	
	140									0.1	
	200	1.0	0.0		1.0	2.0	1.0	3.0	1.0	0.1	
	270		0.0						1.0	0.1	
H	0.20 mm	0.0	0.0		1.0	1.0	1.0	2.0	1.0	0.0	
	0.05 mm	0.0	0.0		1.0	1.0	1.0	1.0	0.0		
M I S C	%	Total Organic Car			0.031						0.035
	mg/kg	Chem Oxy Demand	1800	1000		1550	1260	1050	1900	1730	
	mg/kg	Kjedahl Nitrogen	410	228		235	180	165	160	33	
	mg/kg	Total Phosph	680			115	114	68	97.5	149	
	mg/kg	Oil and Grease	0	0		0	0	0	0	< 50	
M I S C	mg/kg	Cyanide, Total			< 0.62						< 0.59
	mg/kg	Ammonia			< 0.25						0.83
	mg/l	Ammonia Elutriate									
	%	Moisture			19.9						16
	%	Total Solids			80.1						84
%	Volatile Solids			0.4						0.4	

Table 8. Contaminant Data for Pool 5A of the Upper Mississippi River

Record #		208	209	713	459	210	211	212	470				
River Mile		730.5	730.4	730.32	730.2	730.2	728.9	728.6	728.5	728.2			
Location		WILDS BEND	WILDS BEND	WILDS BEND	Backwtr Lwr Betsy Slou.	WILDS BEND	UPPER APPROACH L/D 5A	UPPER APPROACH L/D 5A	UPPER APPROACH L/D 5A	LOWER APPROACH L/D 5A			
Year		1982	2002	1974	1985	1989	1981	1981	1980	1989			
System		1	1	1	1	1	1	1	1	1			
Habitat Type		1	1	1	3	1	1	1	1	1			
Pool		5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1			
Sam. Gear		1	1	1	2	1	1	1	1	1			
Sam. Depth		10		10	10	10	10	10	10	10			
Data Cit.		COE	COE	COE	FWS	COE	COE	COE	COE	COE			
CHC'S	ug/kg	a-BHC	<0.12		< 10	< 0.07				< 0.07			
	ug/kg	b-BHC	<0.12		< 10	< 0.14				< 0.15			
	ug/kg	BHC	<0.12			< 0.21				< 0.22			
	ug/kg	g-BHC (lindane)	<0.12		< 10	< 0.09				< 0.1			
	ug/kg	Heptachlor	<0.08		< 10	< 0.07				< 0.07			
	ug/kg	Aldrin				< 0.09				< 0.1			
	ug/kg	Heptachlorepoxyde	<1.48			< 0.12				< 0.12			
	ug/kg	Endosulfan I				< 0.12				< 0.12			
	ug/kg	Dieldrin	< 0.1	<0.12	< 10	< 10	< 0.12	< 0.1	< 0.1	0	< 0.12		
	ug/kg	4,4'-DDE	< 0.1	<0.12	10	< 10	< 0.09	< 0.1	< 0.1	0	< 0.1		
	ug/kg	Endrin	< 0.1	<0.12	< 10	< 10	< 0.21	< 0.1	< 0.1	0	< 0.22		
	ug/kg	Endosulfan II					< 0.23				< 0.24		
	ug/kg	4,4'-DDD	< 0.1	<0.12	< 10	< 10	< 0.26	< 0.1	< 0.1	0	< 0.27		
	ug/kg	Endrinaldehyde					< 0.26				< 0.27		
	ug/kg	Sulfan sulfate					< 0.26				< 0.27		
	ug/kg	4,4'-DDT	< 0.1	<0.24	< 10	< 10	< 0.3	< 0.1	< 0.1	0	< 0.32		
	ug/kg	Methoxychlor					< 0.51				< 0.54		
	ug/kg	Endrinetone					< 0.26				< 0.27		
ug/kg	Chlorodane	< 1	<0.36	< 10	< 10	< 1.39	< 1	< 1	0	< 1.46			
ug/kg	Toxaphene					< 1.39				< 1.46			
METALS	mg/kg	Ag (silver)			< 0.4								
	mg/kg	Al (aluminum)			4440								
	mg/kg	As (arsenic)	1.3	0.925	< 0.8	< 6	1.1	0	0	0			
	mg/kg	B (boron)				10							
	mg/kg	Ba (barium)				80.9		10	20	20			
	mg/kg	Be (beryllium)				0.32							
	mg/kg	Cd (cadmium)	< 0.17	0.12	< 0.8	< 0.3	< 1.1	< 1	< 1	< 10			
	mg/kg	Cr (chromium)	3.4	4.51	6	17	4.2	< 10	< 10	< 10			
	mg/kg	Cu (copper)	2.6	4.14	6	9.3	< 1.4	< 10	< 10	< 10			
	mg/kg	Fe (iron)	3700			11900		1800	3300	2000			
	mg/kg	Hg (mercury)	0.02	<0.0056	0.3	0.05	< 0.12	< 0.01	< 0.01	0			
	mg/kg	Mg (magnesium)				3970							
	mg/kg	Mn (manganese)		626		< 743	362	130	180	190			
	mg/kg	Mo (molybdenum)				2							
	mg/kg	Ni (nickel)	5	8.35	6	11	< 5.4	< 10	< 10	10			
mg/kg	Pb (lead)	2	3.9	< 8	11	< 0.5	< 10	< 10	< 10				
mg/kg	Sb (antimony)				< 4								
mg/kg	Se (selenium)				< 10	< 0.83							
mg/kg	Sn (tin)				< 2								
mg/kg	Sr (strontium)				15.3								
mg/kg	Ti (titanium)				20								
mg/kg	Zn (zinc)	12	16	16	42.1	11.8	7	11	7.9				
mg/kg	V (vanadium)				< 11								
PCB'S	ug/kg	Aroclor-1006				< 1.39				< 1.46			
	ug/kg	Aroclor-1221				< 1.39				< 1.46			
	ug/kg	Aroclor-1232				< 1.39				< 1.46			
	ug/kg	Aroclor-1242				< 1.39				< 1.46			
	ug/kg	Aroclor-1248				< 1.39				< 1.46			
	ug/kg	Aroclor-1254				< 2.9				< 3.05			
	ug/kg	Aroclor-1260				< 2.9				< 3.05			
	ug/kg	Total PCB's	0		0	0		0	0	0			
PARTICLE SIZE & FINER	D	C O O R S	3 in			100				100			
			1 1/2			100				100			
			3/4			100			100	100	100		
			3/8			100			100	97	100		
			4		94.6	100		99.4	100	93	100	100	
			8			100			99	88	100		
			10								98.9		
			16			100		94.0	94.6	95.0	76.0	100	95.2
			18		75.8								
			20										
	S	M E I M	30			89.0		63.1	70.0	40.0		48.2	
			40			65.0		43.0	43.0	19.0	63.0		
			50		10.5				63.1	10.0	5.0		48.2
			60										
			70		4.0	2.6				2.0	1.0		
F	I N E	80					6.3				3.0		
		100		2.0	0.2	0.0		0.2	0.0	0.0	0.0	0.1	
		140			0.1			0.2					
		200		2.0	0.0	0.0		0.1	0.0	0.0	0.0		
		270		2.0				0.1	0.0	0.0	0.0		
H	C L A	0.20 mm			1.0			0.0	0.0	0.0			
		0.05 mm			0.0			0.0	0.0	0.0			
MISC	%	Total Organic Car		0.02		0.038				0.011			
	mg/kg	Chem Oxy Demand	988	< 458			740	1600	890				
	mg/kg	Kjedahl Nitrogen	22	90			324	218	300				
	mg/kg	Total Phosph	113	142									
	mg/kg	Oil and Grease	< 50	64			0	0	0				
	mg/kg	Cyanide, Total		<0.10			< 0.59						
	mg/kg	Ammonia					0.36						
	mg/l	Ammonia Elutriate											
%	Moisture		18.4			15.6							
%	Total Solids		81.6			84.4							
%	Volatile Solids		0.35			0.5							

Table 8. Contaminant Data for Pool 5A of the Upper Mississippi River

		Record #	213	469
		River Mile	728	728
			LOWER	LOWER
			APPROACH	APPROACH
		Location	L/D 5A	L/D 5A
		Year	1980	1989
		System	1	1
		Habitat Type	1	1
		Pool	5.1	5.1
		Sam. Gear	1	1
		Sam. Depth	10	10
		Data Cit.	COE	COE
C H C ' S	ug/kg	a-BHC		< 0.08
	ug/kg	b-BHC		< 0.15
	ug/kg	BHC		< 0.23
	ug/kg	g-BHC (lindane)		< 0.1
	ug/kg	Heptachlor		< 0.08
	ug/kg	Aldrin		< 0.1
	ug/kg	Heptachlorepoxyde		< 0.13
	ug/kg	Endosulfan I		< 0.13
	ug/kg	Dieldrin	0	< 0.13
	ug/kg	4,4'-DDE	0	< 0.1
	ug/kg	Endrin	0	< 0.23
	ug/kg	Endosulfan II		< 0.25
	ug/kg	4,4'-DDD	0	< 0.28
	ug/kg	Endrinaldehyde		< 0.28
	ug/kg	Sulfan sulfate		< 0.28
	ug/kg	4,4'-DDT	0	< 0.33
	ug/kg	Methoxychlor		< 0.55
	ug/kg	Endrinketone		< 0.28
ug/kg	Chlorodane	0	< 1.5	
ug/kg	Toxaphene		< 1.5	
M E T A L S	mg/kg	Ag (silver)		
	mg/kg	Al (aluminum)		
	mg/kg	As (arsenic)		
	mg/kg	B (boron)		
	mg/kg	Ba (barium)		
	mg/kg	Be (beryllium)		
	mg/kg	Cd (cadmium)		
	mg/kg	Cr (chromium)		
	mg/kg	Cu (copper)		
	mg/kg	Fe (iron)		
	mg/kg	Hg (mercury)		
	mg/kg	Mg (magnesium)		
	mg/kg	Mn (manganese)		
	mg/kg	Mo (molybdenum)		
	mg/kg	Ni (nickel)		
	mg/kg	Pb (lead)		
	mg/kg	Sb (antimony)		
	mg/kg	Se (selenium)		
mg/kg	Sn (tin)			
mg/kg	Sr (strontium)			
mg/kg	Ti (titanium)			
mg/kg	Zn (zinc)			
mg/kg	V (vanadium)			
P C B ' S	ug/kg	Aroclor-1006		< 1.5
	ug/kg	Aroclor-1221		< 1.5
	ug/kg	Aroclor-1232		< 1.5
	ug/kg	Aroclor-1242		< 1.5
	ug/kg	Aroclor-1248		< 1.5
	ug/kg	Aroclor-1254		< 3.13
	ug/kg	Aroclor-1260		< 3.13
	ug/kg	Total PCB's	0	
P A R T I C L E S I Z E & F I N E R	D	C O A R S E	3 in	
			1 1/2	
			3/4	
			3/8	
			4	98.79
			8	
	S	M E I M	16	89.2
			18	
			20	
			30	52.2
			40	
			50	52.2
	F	I N E	60	
			70	
80			2.3	
100			0.2	
S	C L A Y	140		
		200		
		270		
			0.20 mm	
			0.05 mm	
M I S C	%	Total Organic Car		0.017
	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			