Table 12. Contaminant Data for Pool 9 of the Upper Mississippi River

		Record #	505	270	271	272	273	506	732	730	274	507	275	508	276	503
		River Mile	678.3	677.91	677.9	677.8	677.6	677.5	677	676.7	676.4	676.2	675.6	675.5	671.8	671.8
		Location	ISLAND 126	ISLAND 126	ISLAND 126	ISLAND 126	ISLAND 126	ISLAND 126	R-N of Millstone Landing	L-Bh Sandpt Dwn Dairyl PP	TWIN ISLAND	TWIN ISLAND	BELOW TWIN ISLAND	TWIN ISLAND	HEAD OF BATTLE IS	HEAD OF BATTLE IS
		Year	1989	1978	1978	1982	1982	1989	1985	1985	1980	1989	1980	1989	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	3	3	1	1	1	1	1	1
		Pool	9	9	9	9	9	9	9	9	9	9	9	9	9	9
		Sam. Gear	1	1	1	1	1	1	2	2	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	FWS	FWS	COE	COE	COE	COE	COE	COE
CHC'S	ug/kg	a-BHC	< 0.07					< 0.07	< 10	< 10		< 0.07		< 0.07		< 0.07
	ug/kg	b-BHC	< 0.14					< 0.14	< 10	< 10		< 0.15		< 0.15		< 0.15
	ug/kg	BHC	< 0.21					< 0.22				< 0.22		< 0.22		< 0.22
	ug/kg	g-BHC (lindane)	< 0.1					< 0.1	< 10	< 10		< 0.1		< 0.1		< 0.1
	ug/kg	Heptachlor	< 0.07					< 0.07	< 10	< 10		< 0.07		< 0.07		< 0.12
	ug/kg	Aldrin	< 0.1					< 0.1				< 0.1		< 0.1		< 0.12
	ug/kg	Heptachlorepoxide	< 0.12					< 0.12				< 0.12		< 0.12		< 0.12
	ug/kg	Endosulfan I	< 0.12					< 0.12				< 0.12		< 0.12		< 0.12
	ug/kg	Dieldrin	< 0.12	0	0	< 0.1	< 0.1	< 0.12	< 10	< 10	0	< 0.12		< 0.12	< 0.1	< 0.12
	ug/kg	4,4'-DDE	< 0.1	0	0	< 0.1	< 0.1	< 0.1	< 10	< 10	0	< 0.1		< 0.1	< 0.1	< 0.1
	ug/kg	Endrin	< 0.21	0	0	< 0.1	< 0.1	< 0.22	< 10	< 10	0	< 0.22		< 0.22	< 0.1	< 0.22
	ug/kg	Endosulfan II	< 0.24					< 0.24				< 0.25		< 0.24		< 0.24
	ug/kg	4,4'-DDD	< 0.26	0	0	< 0.1	< 0.1	< 0.26	< 10	< 10	0	< 0.27		< 0.27	< 0.1	< 0.27
	ug/kg	Endrinaldehyde	< 0.26					< 0.26				< 0.27		< 0.27		< 0.27
	ug/kg	Sulfan sulfate	< 0.26					< 0.26				< 0.27		< 0.27		< 0.27
	ug/kg	4,4'-DDT	< 0.31	0	0	< 0.1	< 0.1	< 0.31	< 10	< 10	0	< 0.32		< 0.32	< 0.1	< 0.31
	ug/kg	Methoxychlor	< 0.52					< 0.53				< 0.54		< 0.54		< 0.53
	ug/kg	Endrinketone	< 0.26					< 0.26				< 0.27		< 0.27		< 0.27
	ug/kg	Chlorodane	< 1.43	0	0	< 1	< 1	< 1.44	< 10	< 10	0	< 1.48		< 1.46	< 1	< 1.45
	ug/kg	Toxaphene	< 1.43					< 1.44				< 1.48		< 1.46		< 1.45
METALS	mg/kg	Ag (silver)							< 0.4	< 0.4						
	mg/kg	Al (aluminum)							7200	4720						
	mg/kg	As (arsenic)	< 1.01	0	0	1.5	1.2	< 1.01	< 6	< 6	0	< 1.03	0	< 1.01	2	< 0.96
	mg/kg	B (boron)							14	< 4						
	mg/kg	Ba (barium)		20	10				123	81.1	10		20		30	
	mg/kg	Be (beryllium)							0.54	0.36						
	mg/kg	Cd (cadmium)	< 1.11	< 10	< 10	< 0.2	< 0.19	< 1.1	< 0.3	< 0.3	< 10	< 1.13	< 10	< 1.1	< 1	< 1.06
	mg/kg	Cr (chromium)	3.9	< 10	30	3	2.8	2.8	15	14	< 10	2.2	< 10	2.7	< 10	2.9
	mg/kg	Cu (copper)	< 1.44	< 10	< 10	2	1.9	< 1.44	14	9.4	< 10	< 1.48	< 10	< 1.44	< 10	< 1.18
	mg/kg	Fe (iron)		1600	2000	4500	4300		16700	11400	1600		1900		750	
	mg/kg	Hg (mercury)	< 0.01	0	0	0.017	0.021	< 0.01	0.08	0.05	0	< 0.01	0	< 0.01	< 0.01	< 0.01
	mg/kg	Mg (magnesium)							5630	4970						
	mg/kg	Mn (manganese)	217	12	22			190	< 871	< 665	130	137	140	259	210	366
	mg/kg	Mo (molybdenum)							2	2						
	mg/kg	Ni (nickel)	6.3	< 10	< 10	5	5	5.9	14	10	< 10	< 5.64	< 10	< 5.49	< 10	6.6
	mg/kg	Pb (lead)	< 0.82	< 10	< 10	2	2	< 0.82	17	9.9	< 10	1.2	< 10	1.1	< 10	< 0.78
	mg/kg	Sb (antimony)							< 4	< 4						
	mg/kg	Se (selenium)	< 0.84					< 0.84	< 10	< 10		< 0.86		< 0.84		< 0.8
	mg/kg	Sn (tin)							< 2	< 2						
	mg/kg	Sr (strontium)							18.2	15						
	mg/kg	Ti (titanium)							20	20						
	mg/kg	Zn (zinc)	10.7	< 10	< 10	9	8	8.6	63.2	42.2	6.7	7.5	16	8.8	3	9.9
	mg/kg	V (vanadium)							< 12	< 9.2						
PCB'S	ug/kg	Aroclor-1006	< 1.43					< 1.44				< 1.48		< 1.46		< 1.45
	ug/kg	Aroclor-1221	< 1.43					< 1.44				< 1.48		< 1.46		< 1.45
	ug/kg	Aroclor-1232	< 1.43					< 1.44				< 1.48		< 1.46		< 1.45
	ug/kg	Aroclor-1242	< 1.43					< 1.44				< 1.48		< 1.46		< 1.45
	ug/kg	Aroclor-1248	< 1.43					< 1.44				< 1.48		< 1.46		< 1.45
	ug/kg	Aroclor-1254	< 2.98					< 3				< 3.08		< 3.05		< 3.03
	ug/kg	Aroclor-1260	< 2.98					< 3				< 3.08		< 3.05		< 3.03
	ug/kg	Total PCB's		0	0	0	0		0	0	0		0		0	
PARTICLE SIZE %FINER	SAND coarse	3 in		100	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	98.2	100	100	98	100	100			100	100	100	100	100	100
		8				96	99				100		100		100	
		10	95.7	100	99			99.7				100.0		99.4		99.9
	SAND medium	16	85.5			93.0	97.0	98.2			99.0	99.9	100	95.7	96.0	97.0
		20		100	93.0											
		30	49.6			71.0	53.0	74.4				93.5		54.8	61.0	59.6
		40		100	52.0	45.0	26.0				82.0		70.0		35.0	
		50	49.6			16.0	5.0	74.4				93.5		54.8	10.0	59.6
	SAND fine	70				3.0	2.0								2.0	
		80	2.5	89.0	3.0			9.1				22.1		6.1		5.7
		100	0.0			1.0	1.0	0.3			0.0	0.2	0.0	0.1	0.0	0.3
		140														0.0
	SILT CLAY	200		8.0	1.0	1.0	1.0				0.0		0.0		0.0	
		270				1.0	1.0								0.0	
		0.20 mm		0.0	0.0	0.0	1.0				0.0		0.0		0.0	
		0.05 mm		0.0	0.0	0.0	0.0				0.0		0.0		0.0	
MISC	%	Total Organic Carb	0.019					0.021				0.036		0.019		0.027
	mg/kg	Chem Oxy Demand		1300	2000	1470	882				1400		1200		1700	
	mg/kg	Kjedahl Nitrogen		190	420	59	35				70		170		1600	
	mg/kg	Total Phosph		110	380	98	117									
	mg/kg	Oil and Grease														
	mg/kg	Cyanide, Total	< 0.62					< 0.6				< 0.63		< 0.63		< 0.62
	mg/kg	Ammonia	< 0.24					0.2				< 0.25		0.3		< 0.25
	mg/l	Ammonia Elutriate														
	%	Moisture	19.3					16.8				21.1		20		19.6
	%	Total Solids	80.7					83.2				78.9		80		80.4
	%	Volatile Solids	0.4					0.3				0.4		0.5		0.5

Table 12. Contaminant Data for Pool 9 of the Upper Mississippi River

		Record #	277	278	504	731	604	605	606	733	497	279	280	281	282	496
		River Mile	671.44	671.2	671.2	671	671	671	671	666.0	665.8	665.7	665.7	665.4	665.4	665.2
		Location	HEAD OF BATTLE IS.	HEAD OF BATTLE IS.	HEAD OF BATTLE IS.	R-R Desc Brik Iowa R Chan	L-Blackhawk Ab Rd.	L-Blackhawk Bw Rd.	L-Cold Springs South	R-Bloor W Lansing Big Lk	INDIAN CAMP LIGHT	INDIAN CAMP LIGHT	INDIAN CAMP LIGHT	INDIAN CAMP LIGHT	INDIAN CAMP LIGHT	Indian Camp Light
		Year	1974	1981	1989	1985	1986	1987	1987	1985	1989	1982	1982	1978	1978	1989
		System	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		Habitat Type	1	1	1	3	3	3	3	3	1	1	1	1	1	1
		Pool	9	9	9	9	9	9	9	9	9	9	9	9	9	9
		Sam. Gear	1	1	1	2	3	3	3	2	1	1	1	1	1	1
		Sam. Depth	10	10	10	10	60	76	45	10	10	10	10	10	10	10
		Data Cit.	COE	COE	COE	FWS	WDNR	WDNR	WDNR	FWS	COE	COE	COE	COE	COE	COE
CH'CS	ug/kg	a-BHC			< 0.07	< 10				< 10	< 0.07					
	ug/kg	b-BHC			< 0.14	< 10				< 10	< 0.14					
	ug/kg	BHC			< 0.21						< 0.21					
	ug/kg	g-BHC (lindane)			< 0.1	< 10				< 10	< 0.09					
	ug/kg	Heptachlor			< 0.07	< 10		< 10	< 10	< 10	< 0.07					
	ug/kg	Aldrin			< 0.1						< 0.09					
	ug/kg	Heptachlorepoxide			< 0.12						< 0.12					
	ug/kg	Endosulfan I			< 0.12						< 0.12					
	ug/kg	Dieldrin	< 10	< 0.1	< 0.12	< 10		< 10	< 10	< 10	< 0.12	< 0.1	< 0.1		0	
	ug/kg	4,4'-DDE	< 10	< 0.1	< 0.1	< 10	< 10	< 10	< 10	< 10	< 0.09	< 0.1	< 0.1		0	
	ug/kg	Endrin	< 10	< 0.1	< 0.21	< 10				< 10	< 0.21	< 0.1	< 0.1		0	
	ug/kg	Endosulfan II			< 0.24						< 0.23					
	ug/kg	4,4'-DDD	< 10	< 0.1	< 0.26	< 10				< 10	< 0.26	< 0.1	< 0.1		0	
	ug/kg	Endrinaldehyde			< 0.26						< 0.26					
	ug/kg	Sulfan sulfate			< 0.26						< 0.26					
	ug/kg	4,4'-DDT	< 10	< 0.1	< 0.31	< 10				< 10	< 0.3	< 0.1	< 0.1		0	
	ug/kg	Methoxychlor			< 0.52						< 0.51					
	ug/kg	Endrinketone			< 0.26						< 0.26					
	ug/kg	Chlorodane	< 10	< 1	< 1.43	< 10		< 10	< 10	< 10	< 1.4	< 1	< 1		0	
	ug/kg	Toxaphene			< 1.43						< 1.4					
METALS	mg/kg	Ag (silver)				< 0.4				< 0.4						
	mg/kg	Al (aluminum)				13100	10000			11700						
	mg/kg	As (arsenic)	< 0.9	2	< 1.02	< 7	5	9.6	2.4	< 7	< 0.97	1.3	0.67	1	0	
	mg/kg	B (boron)				10				16						
	mg/kg	Ba (barium)		20		199				167				10	10	
	mg/kg	Be (beryllium)				0.79				0.77						
	mg/kg	Cd (cadmium)	0.9	< 1	< 1.11	< 0.3	< 1	< 1	< 1	< 0.3	< 1.06	< 0.17	< 0.19	< 10	< 10	
	mg/kg	Cr (chromium)	14	10	2.5	18	43	28	10	22	2.1	2.6	1.9	< 10	< 10	
	mg/kg	Cu (copper)	4	< 10	< 1.45	17	14	23	7	18	< 1.39	1.7	0.9	< 10	< 10	
	mg/kg	Fe (iron)		1600		19300				21000		3800	2400	1900	1800	
	mg/kg	Hg (mercury)	0.1	< 0.01	< 0.01	0.05	< 0.1			0.05	< 0.01	0.018	0.013	0.04	0	
	mg/kg	Mg (magnesium)				5870				5000						
	mg/kg	Mn (manganese)		240	306	< 1300		890	180	< 1270	281			240	260	
	mg/kg	Mo (molybdenum)				2				2						
	mg/kg	Ni (nickel)	7	< 10	< 5.55	21	10	33	10	21	< 5.3	3	3	< 100	< 100	
	mg/kg	Pb (lead)	< 9	< 10	< 0.82	23	10	14	< 5	19	1.3	2	2	20	20	
	mg/kg	Sb (antimony)				< 4				< 4						
	mg/kg	Se (selenium)			< 0.85	< 10				< 10	< 0.81					
	mg/kg	Sn (tin)				< 2				< 2						
	mg/kg	Sr (strontium)				34.2				28.9						
	mg/kg	Ti (titanium)				20				20						
	mg/kg	Zn (zinc)	15	7	9.1	102	67	120	34	84.9	8.5	9	2	< 10	< 10	
	mg/kg	V (vanadium)				< 20				< 13						
PCB'S	ug/kg	Aroclor-1006			< 1.43						< 1.4					
	ug/kg	Aroclor-1221			< 1.43						< 1.4					
	ug/kg	Aroclor-1232			< 1.43						< 1.4					
	ug/kg	Aroclor-1242			< 1.43						< 1.4					
	ug/kg	Aroclor-1248			< 1.43						< 1.4					
	ug/kg	Aroclor-1254			< 2.98						< 2.93					
	ug/kg	Aroclor-1260			< 2.98						< 2.93					
	ug/kg	Total PCB's	0	0		0	90	0	0	0		0	0	0	0	
PARTICLE SIZE %FINER	SAND coarse	3 in	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	99	100	100						98.7	100	100	100	100	100
		8	95	100								99	100			
		10			99.1						94.1			100	100	99.6
	SAND fine medium	16	82.0	100	95.3						84.0	97.0	100			98.5
		20												99.0	97.0	
		30		91.0	64.3						50.3	86.0	97.0			86.2
		40	19.0	71.0								66.0	89.0	84.0	66.0	
		50		23.0	64.3						50.3	24.0	59.0			86.2
		70		5.0								5.0	14.0			
		80			7.1						4.6			5.0	2.0	17.2
		100	0.0	0.0	0.4						0.1	2.0	2.0			0.1
		140														
	SILT CLAY	200	0.0	0.0								2.0	1.0	1.0	0.0	
		270		0.0								2.0	1.0			
		0.20 mm	0.0	0.0								1.0	0.0	0.0	0.0	
		0.05 mm	0.0	0.0								0.0	0.0	0.0	0.0	
MISC	%	Total Organic Carb			0.032						0.016					0.084
	mg/kg	Chem Oxy Demand	2903	1100								964	680	2700	120	
	mg/kg	Kjedahl Nitrogen	134	524								130	40	22	66	
	mg/kg	Total Phosph	126									110	73	170	18	
	mg/kg	Oil and Grease														
	mg/kg	Cyanide, Total			< 0.62						< 0.58					
	mg/kg	Ammonia			< 0.25						< 0.23					
	mg/l	Ammonia Elutriate														
	%	Moisture			18.8						13.3					
	%	Total Solids			81.2						86.7					
	%	Volatile Solids			0.4						0.4					

Table 12. Contaminant Data for Pool 9 of the Upper Mississippi River

		Record #	498	283	499	284	285	286	287	500	734	735	736	361	359	358
		River Mile	665.2	664.8	664.7	664.4	664.3	664.3	664.1	664.1	661.7	659.6	657.6	655.5	655.5	655.5
		Location	INDIAN CAMP LIGHT	LANSING UPPER LIGHT	LANSING UPPER LIGHT	LANSING UPPER LIGHT	LANSING UPPER LIGHT	LANSING UPPER LIGHT	LANSING UPPER LIGHT	LANSING UPPER LIGHT	L-Veg in Bay @ Lwr End Is	R-Land. Sunk Barge DwnPP	L-Bth One of Many Sm Isls	Lower pool 9 - 9	Lower pool 9 - 5	Lower pool 9 - 3
		Year	1989	1981	1989	1974	1978	1978	1981	1989	1985	1985	1985	1987	1987	1987
		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	3	3	3	3	3
		Pool	9	9	9	9	9	9	9	9	9	9	9	9	9	9
		Sam. Gear	1	1	1	1	1	1	1	1	2	2	2	1	1	1
		Sam. Depth	10	10	10	10	10	10	10	10	10	10	10			
		Data Cit.	COE	COE	COE	COE	COE	COE	COE	COE	FWS	FWS	FWS	COE	COE	COE
CHC'S	ug/kg	a-BHC	< 0.07		< 0.07					< 0.07	< 10	< 10	< 10	< 5	< 5	< 5
	ug/kg	b-BHC	< 0.14		< 0.14					< 0.14	< 10	< 10	< 10	< 5	< 5	< 5
	ug/kg	BHC	< 0.22		< 0.22					< 0.22						
	ug/kg	g-BHC (lindane)	< 0.1		< 0.1					< 0.1	< 10	< 10	< 10	< 5	< 5	< 5
	ug/kg	Heptachlor	< 0.07		< 0.07					< 0.07	< 10	< 10	< 10	< 5	< 5	< 5
	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	< 0.12	< 0.1	< 0.12	< 10	< 0.1	0	< 0.1	< 0.12	< 10	< 10	< 10	< 5	< 5	< 5
	ug/kg	4,4'-DDE	< 0.1	< 0.1	< 0.1	< 10	< 0.1	0	< 0.1	< 0.1	< 10	< 10	< 10	< 5	< 5	< 5
	ug/kg	Endrin	< 0.22	< 0.1	< 0.22	< 10	< 0.1	0	< 0.1	< 0.22	< 10	< 10	< 10	< 5	< 5	< 5
	ug/kg	Endosulfan II	< 0.24		< 0.24					< 0.24						
	ug/kg	4,4'-DDD	< 0.26	< 0.1	< 0.26	< 10	< 0.1	0	< 0.1	< 0.26	< 10	< 10	< 10	< 5	< 5	< 5
	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	< 0.1	< 0.31	< 10	< 0.1	0	< 0.1	< 0.31	< 10	< 10	< 10	< 5	< 5	< 5
	ug/kg	Methoxychlor	< 0.53		< 0.53					< 0.53						
	ug/kg	Endrinketone	< 0.26		< 0.26					< 0.26						
	ug/kg	Chlorodane	< 1.44	< 1	< 1.44	< 10	< 1	0	< 1	< 1.44	< 10	< 10	< 10	< 5	< 5	< 5
	ug/kg	Toxaphene	< 1.44		< 1.44					< 1.44						
METALS	mg/kg	Ag (silver)									< 0.4	< 0.4	< 0.4			
	mg/kg	Al (aluminum)									9500	4920	5450			
	mg/kg	As (arsenic)	< 0.72	2	< 0.97	< 0.7		0	1	< 0.98	< 7	< 6	< 6	< 2.2	< 2.2	< 2.2
	mg/kg	B (boron)									10	10	14			
	mg/kg	Ba (barium)		50				40	20		128	83	85			
	mg/kg	Be (beryllium)									0.65	0.38	0.41			
	mg/kg	Cd (cadmium)	< 1.08	< 1	< 1.06	0.9		< 10	< 1	< 1.08	0.6	< 0.3	0.4	< 3.1	< 3.1	5.8
	mg/kg	Cr (chromium)	2.28	< 10	2.3	2		< 10	< 10	2.1	23	11	12	20.2	9.6	20.2
	mg/kg	Cu (copper)	< 1.4	< 10	< 1.39	4		< 10	< 10	< 1.4	20	9.3	11	11.5	11.5	18.2
	mg/kg	Fe (iron)		2500				2300	2500		19300	10800	11700			
	mg/kg	Hg (mercury)	< 0.01	< 0.01	< 0.01	0.5		0	< 0.01	< 0.01	0.05	0.05	0.05	< 0.6	< 0.6	< 0.6
	mg/kg	Mg (magnesium)									4990	10200	3400			
	mg/kg	Mn (manganese)	231	500	215			470	220	167	< 599	< 803	< 399	560.3	878.8	547.4
	mg/kg	Mo (molybdenum)									2	2	2			
	mg/kg	Ni (nickel)	< 5.34	< 10	< 5.29	4		< 100	< 10	< 5.36	19	10	12	54.5	< 25	54.5
	mg/kg	Pb (lead)	0.8	< 10	0.9	9		20	< 10	< 0.8	19	9.8	11	17.4	15.2	28.7
	mg/kg	Sb (antimony)									< 4	< 4	< 4			
	mg/kg	Se (selenium)	< 0.82		< 0.81					< 0.82	< 10	< 10	< 10			
	mg/kg	Sn (tin)									< 2	< 2	< 2			
	mg/kg	Sr (strontium)									24.4	21.2	17.6			
	mg/kg	Ti (titanium)									20	20	20			
	mg/kg	Zn (zinc)	9.1	11	7.5	12		< 10	10	7.9	80.3	43	48.7	67.1	56.9	86.7
	mg/kg	V (vanadium)									< 15	< 9.1	< 11			
PCB'S	ug/kg	Aroclor-1006	< 1.44		< 1.44					< 1.44						
	ug/kg	Aroclor-1221	< 1.44		< 1.44					< 1.44						
	ug/kg	Aroclor-1232	< 1.44		< 1.44					< 1.44						
	ug/kg	Aroclor-1242	< 1.44		< 1.44					< 1.44						
	ug/kg	Aroclor-1248	< 1.44		< 1.44					< 1.44						
	ug/kg	Aroclor-1254	< 3		< 3					< 3						
	ug/kg	Aroclor-1260	< 3		< 3					< 3						
	ug/kg	Total PCB's		0		0	0	0	0		0	0	0	0	0	0
PARTICLE SIZE %FINER	SAND coarse	3 in				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		100	100	100	100	100	100	99.6						
		8		100		99			100							
		10			100		100	100		99.3						
	SAND medium	16		96.0	99.1	98.0			100.0	99.2						
		20					100.0	97.0								
		30		80.0	76.5				93.0	88.3						
		40		65.0		62.0	94.0	78.0	76.0							
		50		33.0	76.5				41.0	88.3						
	SAND fine	70		6.0					15.0							
		80			13.9		20.0	6.0		32.3						
		100		0.0	0.6	0.0			2.0	0.6						
		140			0.0					0.4						
	SILT CLAY	200		0.0		0.0	3.0	1.0	1.0							
		270		0.0					0.0							
		0.20 mm		0.0		0.0	1.0	0.0	0.0							
		0.05 mm		0.0		0.0	0.0	0.0	0.0							
MISC	%	Total Organic Carb			0.061					0.052						
	mg/kg	Chem Oxy Demand		1900		3488		2400	3000							
	mg/kg	Kjedahl Nitrogen		299		147		40	205							
	mg/kg	Total Phosph				95		14								
	mg/kg	Oil and Grease														
	mg/kg	Cyanide, Total	< 0.58		< 0.61					< 0.58						
	mg/kg	Ammonia	< 0.23		0.4					0.5						
	mg/l	Ammonia Elutriate														
	%	Moisture	14.2		17.5					13.7						
	%	Total Solids	85.8		82.5					86.3						
	%	Volatile Solids	0.4		0.5					0.3						

Table 12. Contaminant Data for Pool 9 of the Upper Mississippi River

		Record #	360	502	357	501	609	356	607	608	737	288
		River Mile	655.5	655.1	655.0	654.8	653.8	653.8	653.8	653.8	652.5	651
		Location	Lower pool 9 - 7	AB CROOKED SLOUGH	Lower pool 9 - 1	AB CROOKED SLOUGH	L-Halfway Ck Ab RD.	L-Cold Springs North	L-Cold Springs South	L-Cold Springs South	R-Bh Isl Border Channel	
		Year	1987	1989	1987	1989	1984	1987	1987	1987	1985	1974
		System	1	1	1	1	1	1	1	1	1	1
		Habitat Type	3	1	1	1	3	3	3	3	3	1
		Pool	9	9	9	9	9	9	9	9	9	9
		Sam. Gear	1	1	1	1	3	4	3	3	2	1
		Sam. Depth		10	10	10	10	91	45-91	91-152	10	10
		Data Cit.	COE	COE	COE	COE	WDNR	COE	WDNR	WDNR	FWS	COE
CH'CS	ug/kg	a-BHC	< 5	< 0.07	< 5	< 0.1		< 5			< 10	
	ug/kg	b-BHC	< 5	< 0.14	< 5	< 0.19		< 5			< 10	
	ug/kg	BHC		< 0.22		< 0.29						
	ug/kg	g-BHC (lindane)	< 5	< 0.1	< 5	< 0.13		< 5			< 10	
	ug/kg	Heptachlor	< 5	< 0.07	< 5	< 0.1		< 5		< 10	< 10	
	ug/kg	Aldrin		< 0.1		< 0.13						
	ug/kg	Heptachlorepoxide		< 0.12		< 0.16						
	ug/kg	Endosulfan I		< 0.12		< 0.16						
	ug/kg	Dieldrin	< 5	< 0.12	< 5	< 0.16		< 5		< 10	< 10	< 10
	ug/kg	4,4'-DDE	< 5	< 0.1	< 5	< 0.13		< 5		< 10	< 10	< 10
	ug/kg	Endrin	< 5	< 0.22	< 5	< 0.29		< 5			< 10	< 10
	ug/kg	Endosulfan II		< 0.24		< 0.32						
	ug/kg	4,4'-DDD	< 5	< 0.26	< 5	< 0.35		< 5			< 10	< 10
	ug/kg	Endrinaldehyde		< 0.26		< 0.35						
	ug/kg	Sulfan sulfate		< 0.26		< 0.35						
	ug/kg	4,4'-DDT	< 5	< 0.31	< 5	< 0.42		< 5			< 10	< 10
	ug/kg	Methoxychlor		< 0.53		< 0.7						
	ug/kg	Endrinketone		< 0.26		< 0.35						
	ug/kg	Chlorodane	< 5	< 1.44	< 5	< 1.92		< 5		< 10	< 10	< 10
	ug/kg	Toxaphene		< 1.44		< 1.92						
METALS	mg/kg	Ag (silver)									< 0.4	
	mg/kg	Al (aluminum)					17700				4890	
	mg/kg	As (arsenic)	< 2.2	< 1.04	< 2.2	< 1.55		< 2.2	2.1	9.9	< 6	< 0.8
	mg/kg	B (boron)									6	
	mg/kg	Ba (barium)									88.3	
	mg/kg	Be (beryllium)									0.47	
	mg/kg	Cd (cadmium)	5.8	< 1.13	5.8	< 1.7	< 1	< 3.1	< 1	< 1	< 0.3	0.9
	mg/kg	Cr (chromium)	20.2	2.4	9.6	8.1	48	20.2	9	25	11	11
	mg/kg	Cu (copper)	11.5	< 1.48	11.5	3.2	28	18.2	4	22	9.2	4
	mg/kg	Fe (iron)									11700	
	mg/kg	Hg (mercury)	< 0.6	< 0.01	< 0.6	< 0.02	0.1	< 0.6			0.05	0.2
	mg/kg	Mg (magnesium)									2580	
	mg/kg	Mn (manganese)	534.6	152	432.1	544		840.4	250	990	< 717	
	mg/kg	Mo (molybdenum)									2	
	mg/kg	Ni (nickel)	< 25	< 5.6	< 25	9.3	31	54.5	14	30	11	4
	mg/kg	Pb (lead)	16	1.1	14.7	3.7	19	9.8	< 5	15	9.7	< 9
	mg/kg	Sb (antimony)									< 4	
	mg/kg	Se (selenium)		< 0.86		< 1.29					< 10	
	mg/kg	Sn (tin)									< 2	
	mg/kg	Sr (strontium)									16.7	
	mg/kg	Ti (titanium)									20	
	mg/kg	Zn (zinc)	74.7	8.9	23.7	30.6	110	87.5	21	100	42.1	13
	mg/kg	V (vanadium)									< 6.4	
PCB'S	ug/kg	Aroclor-1006		< 1.44		< 1.92						
	ug/kg	Aroclor-1221		< 1.44		< 1.92						
	ug/kg	Aroclor-1232		< 1.44		< 1.92						
	ug/kg	Aroclor-1242		< 1.44		< 1.92						
	ug/kg	Aroclor-1248		< 1.44		< 1.92						
	ug/kg	Aroclor-1254		< 3		< 4						
	ug/kg	Aroclor-1260		< 3		< 4						
	ug/kg	Total PCB's	0		0		0	0	0	0	0	0
PARTICLE SIZE %FINER	SAND coarse	3 in										100
		1 1/2										100
		3/4										100
		3/8										100
		4		100		100						100
		8										100
		10		99.8		99.8						
	SAND medium	16		99.0		99.2						99.0
		20										
		30		90.6		98.0						
		40										57.0
		50		90.6		98.0						
	SAND fine	70										
		80		51.2		89.8						
		100		0.6		34.9						4.0
		140		0.4		28.9						
	SILT CLAY	200		0.3		8.8						3.0
		270		0.2		4.9						
		0.20 mm				3.4						0.0
		0.05 mm				3.7						0.0
MISC	%	Total Organic Carb		0.016		2.47						
	mg/kg	Chem Oxy Demand										5797
	mg/kg	Kjedahl Nitrogen										160
	mg/kg	Total Phosph										164
	mg/kg	Oil and Grease										
	mg/kg	Cyanide, Total		< 0.59		< 0.83						
	mg/kg	Ammonia		1.5		15.00						
	mg/l	Ammonia Elutriate										
	%	Moisture		14.7		40.0						
	%	Total Solids		85.3		60.0						
	%	Volatile Solids		0.8		3.2						