Table 3. Contaminant Data for Pool 1 of the Upper Mississippi River

			Record #	10	427	11	428	12	429	13	14	15	430			16	
			River Mile	853.0	852.9	852.5	852.5	852.2	852.0	851.7	851.6	851.6	851.6	851.6	851.6	851.5	851.4
			Location	AB&BW WASH AVE BR.	AB&BW WASH AVE BR.	AB&BW WASH AVE BR.	AB&BW WASH AVE BR.	AB FRANK. AVE BRIDGE	AB FRANK. AVE BRIDGE	AB FRANK. AVE BRIDGE	AB FRANK. AVE BRIDGE	AB FRANK. AVE BRIDGE	AB FRANK. AVE BRIDGE	BELOW FRANKLIN BRIDGE	BELOW FRANKLIN BRIDGE dup	BLW FRANK AVE BRIDGE	ABOVE FRANKLIN BRIDGE
			Year	1980	1989	1980	1989	1980	1989	1980	1974	1975	1989	1994	1994	1980	1994
			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	1	1	1	1	1	1	1	1	1	1	1	1	1	1
			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		< 0.08		< 0.08		< 0.08					< 0.07	< 0.25	< 0.25		< 0.25
	ug/kg	b-BHC		< 0.15		< 0.15		< 0.15					< 0.15	0.57	< 0.25		1.1
	ug/kg	BHC		< 0.23		< 0.23		< 0.23					< 0.22	< 0.25	< 0.25		< 0.25
	ug/kg	g-BHC (lindane)		< 0.1		< 0.1		< 0.1					< 0.1	< 0.25	< 0.25		< 0.25
	ug/kg	Heptachlor		< 0.08		< 0.08		< 0.08					< 0.07	< 0.25	< 0.25		< 0.25
	ug/kg	Aldrin		< 0.1		< 0.1		< 0.1					0.12				
	ug/kg	Heptachlorepoxide		< 0.13		< 0.13		< 0.13					< 0.12				
	ug/kg	Endosulfan I		< 0.13		< 0.13		< 0.13					< 0.12				
	ug/kg	Dieldrin	0	< 0.13	0	< 0.13	0	< 0.13	0	< 10			< 0.12	< 0.5	< 0.49	0	0.58
	ug/kg	4,4'-DDE	0	< 0.1	4.2	< 0.1	0	< 0.1	0	< 10			< 0.1	< 0.5	< 0.49	0	< 0.5
	ug/kg	Endrin	0	< 0.23	0	< 0.23	0	< 0.23	0	< 10			< 0.22	< 0.5	< 0.49	0	< 0.5
	ug/kg	Endosulfan II		< 0.26		< 0.25		< 0.25					< 0.24				
	ug/kg	4,4'-DDD	1.7	< 0.38	1.2	< 0.28	0.4	< 0.28	0.9	< 10			< 0.27	< 0.5	< 0.49	1.7	< 0.5
	ug/kg	Endrinaldehyde		< 0.28		< 0.28		< 0.28					< 0.27				
	ug/kg	Sulfan sulfate		< 0.28		< 0.28		< 0.28					< 0.27				
	ug/kg	4,4'-DDT	2.2	< 0.33	0	< 0.33	0.3	< 0.33	0.2	< 10			< 0.32	< 0.5	< 0.49	1	< 0.5
	ug/kg	Methoxychlor		< 0.56		< 0.55		< 0.56					< 0.54				
	ug/kg	Endrinketone		< 0.28		< 0.28		< 0.28					< 0.27				
	ug/kg	Chlorodane	3	< 1.54	1	< 1.51	0	< 1.52	1	< 10			< 1.46	< 0.25	< 0.25	5	< 0.25
	ug/kg	Toxaphene		< 1.54		< 1.51		< 1.52					< 1.46				
METALS	mg/kg	Ag (silver)															
	mg/kg	Al (aluminum)															
	mg/kg	As (arsenic)	0	1.4	0	1.4	0	1.4	0	< 0.8	0.46		1.8	0.89		0	0.86
	mg/kg	B (boron)															
	mg/kg	Ba (barium)	10		10		30		10							10	
	mg/kg	Be (beryllium)															
	mg/kg	Cd (cadmium)	< 10	< 1.2	< 10	< 1.2	< 10	< 1.2	< 10	< 1	< 0.1		< 1.1	< 0.12		< 10	0.47
	mg/kg	Cr (chromium)	20	6.6	30	6.2	< 10	6.5	< 10	8	8		7	5.9		10	6.5
	mg/kg	Cu (copper)	< 10	8.1	< 10	6.2	< 10	4.3	< 10	5	4.3		5.2	1.7		< 10	2.4
	mg/kg	Fe (iron)	2000		1900		4400		3300							2900	
	mg/kg	Hg (mercury)	0	< 0.01	0	< 0.01	0	< 0.01	0	0.3	0.14		< 0.01	< 0.05		0	< 0.05
	mg/kg	Mg (magnesium)															
	mg/kg	Mn (manganese)	160	148	190	221	240	195	190				267	171		150	257
	mg/kg	Mo (molybdenum)															
	mg/kg	Ni (nickel)	10	< 5.8	10	< 5.8	< 10	< 6	10	5			7.7	4.4		< 10	5.2
	mg/kg	Pb (lead)	40	8.3	30	10.3	30	6.7	20	< 10	< 0.1		14.9	11.5		< 10	13.6
	mg/kg	Sb (antimony)															
	mg/kg	Se (selenium)		< 0.83		< 0.84		< 0.86					< 0.82				
	mg/kg	Sn (tin)															
	mg/kg	Sr (strontium)															
	mg/kg	Ti (titanium)															
	mg/kg	Zn (zinc)	19	21.2	1.8	20.7	19	19.8	16	16	24		19.7	15.9		15	17.7
	mg/kg	V (vanadium)															
PCB'S	ug/kg	Aroclor-1006		< 1.54		< 1.51		< 1.52					< 1.46	< 5	< 4.9		< 5
	ug/kg	Aroclor-1221		< 1.54		< 1.51		< 1.52					< 1.46	< 5	< 4.9		< 5
	ug/kg	Aroclor-1232		< 1.54		< 1.51		< 1.52					< 1.46	< 5	< 4.9		< 5
	ug/kg	Aroclor-1242		< 1.54		< 1.51		< 1.52					< 1.46	< 5	< 4.9		< 5
	ug/kg	Aroclor-1248		< 1.54		< 1.51		< 1.52					< 1.46	< 5	< 4.9		< 5
	ug/kg	Aroclor-1254		< 3.2		< 3.15		< 3.18					< 3.05	< 5	< 4.9		< 5
	ug/kg	Aroclor-1260		< 3.2		< 3.15		< 3.18					< 3.05	< 5	< 4.9		< 5
	ug/kg	Total PCB's															
PARTICLE SIZE %FINER	SAND coarse	3 in	100		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	
		3/8	100		100		100		100	100	100					100	
		4	99	99.7	100	99.3	99	100	100	100	99		98.5	99.7		100	100
		8	98		99		95		100	98	99					97	
		10		98.6		96.4		100					86.8	99.0			99.1
	SAND medium	16	83.0	91.1	94.0	92.7	88.0	99.9	99.0	94.0	99.0		64.6			88.0	
		20												96.0			92.2
		30		47.8		73.8		91.2					25.6				
		40	39.0		42.0		33.0		91.0	61.0	78.0			55.7		20.0	33.2
		50		47.8		73.8		91.2					25.6				
	SAND fine	70															
		80		1.9		24.1		17.9					7.3				
		100	2.0	0.4	3.0	1.3	1.0	1.2	3.0	1.0	4.0		2.5	2.0		1.0	1.2
		140		0.3		1.1		0.9					2.2	1.7			0.8
	SILT CLAY	200	0.0	0.3	1.0	0.9	0.0	0.8	1.0	0.0	2.0		1.6	1.7		0.0	0.6
		270		0.1		0.7							1.0				
		0.20 mm	0.0		0.0	0.5	0.0		0.0	0.0			0.8			0.0	
		0.05 mm	0.0		0.0	0.3	0.0		0.0	0.0			0.5			0.0	
MISC	%	Total Organic Carb		0.15		0.15		0.21					0.77	0.064	0.063		0.035
	mg/kg	Chem Oxy Demand	5700		7500		17000		3800	4300	3700					6700	
	mg/kg	Kjedahl Nitrogen	48600		750		210		300	269						490	
	mg/kg	Total Phosph								135							
	mg/kg	Oil and Grease	1000		0		0		0	247	245					100	
	mg/kg	Cyanide, Total		< 0.63		< 0.63		< 0.65					< 0.62	< 0.06			0.06
	mg/kg	Ammonia		0.63		3		4.7					5.5				
	mg/l	Ammonia Elutriate												< 0.06	< 0.06		< 0.06
	%	Moisture		20.3		21.1		23.3					19.4	20.3	21.5		22.1
	%	Total Solids		79.7		78.9		76.7					80.6	79.7	78.5		77.9
	%	Volatile Solids		0.5		0.5		0.5					1	1.17	1.45		1.21

Table 3. Contaminant Data for Pool 1 of the Upper Mississippi River

			Record #	431	432	17	433		18	19	20	21	434	22	435	436	
			River Mile	851.3	850.9	850.7	850.3	850.3	850.2	850.2	850.11	850.0	850.0	849.9	849.7	849.3	849.2
			Location	BLW FRANK AVE BRIDGE	BLW FRANK AVE BRIDGE	BLW FRANK AVE BRIDGE	AB LAKE ST. BRIDGE	ABOVE LAKE ST BRIDGE	AB LAKE ST. BRIDGE	AB LAKE ST. BRIDGE	AB LAKE ST. BRIDGE	AB LAKE ST. BRIDGE	AB LAKE ST. BRIDGE	AB LAKE ST. BRIDGE	BLW LAKE ST. BRIDGE	BLW LAKE ST. BRIDGE	BELOW LAKE ST BRIDGE
			Year	1989	1989	1980	1989	1994	1978	1978	1974	1982	1989	1980	1989	1989	1994
			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	1	1	1	1	1	1	1	1	1	1	1	1	1	1
			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
CHCS	ug/kg		a-BHC	< 0.07	< 0.07		< 0.07	< 0.25					< 0.07		< 0.07	< 0.08	< 0.25
	ug/kg		b-BHC	< 0.14	< 0.14		< 0.15	3.1					< 0.14		< 0.15	< 0.16	1.2
	ug/kg		BHC	< 0.21	< 0.21		< 0.22	< 0.25					< 0.22		< 0.22	< 0.24	< 0.25
	ug/kg		g-BHC (lindane)	< 0.1	< 0.09		< 0.1	< 0.25					< 0.1		< 0.1	< 0.11	< 0.25
	ug/kg		Heptachlor	< 0.07	< 0.07		< 0.07	< 0.25					< 0.07		< 0.07	< 0.08	< 0.25
	ug/kg		Aldrin	< 0.1	< 0.09		< 0.1						< 0.1		< 0.1	< 0.11	
	ug/kg		Heptachlorepoxide	< 0.12	< 0.12		< 0.12						< 0.12		< 0.12	< 0.14	
	ug/kg		Endosulfan I	< 0.12	< 0.12		< 0.12						< 0.12		< 0.12	< 0.14	
	ug/kg		Dieldrin	< 0.12	< 0.12	0	< 0.12	1.2	0	0	< 10	< 0.1	< 0.12	0	< 0.12	< 0.14	< 0.5
	ug/kg		4,4'-DDE	< 0.1	< 0.09	0	< 0.1	0.52	49	3.6	< 10	< 0.1	< 0.1	0	< 0.1	< 0.11	< 0.5
	ug/kg		Endrin	< 0.21	< 0.21	0	< 0.22	< 0.49	0	0	< 10		< 0.22	0	< 0.22	< 0.24	< 0.5
	ug/kg		Endosulfan II	< 0.24	< 0.23		< 0.24						< 0.24		< 0.24	< 0.27	
	ug/kg		4,4'-DDD	< 0.26	< 0.26	0.3	< 0.27	< 0.49	0	1.2	< 10	< 0.1	< 0.26	1.9	< 0.27	< 0.3	< 0.5
	ug/kg		Endrinaldehyde	< 0.26	< 0.26		< 0.27						< 0.26		< 0.27	< 0.3	
	ug/kg		Sulfan sulfate	< 0.26	< 0.26		< 0.27						< 0.26		< 0.27	< 0.3	
	ug/kg		4,4'-DDT	< 0.31	< 0.3	0.3	< 0.31	< 0.49	0	0	< 10	< 0.1	< 0.31	0.7	< 0.32	< 0.35	< 0.5
	ug/kg		Methoxychlor	< 0.52	< 0.51		< 0.53						< 0.53		< 0.54	< 0.59	
	ug/kg		Endrinketone	< 0.26	< 0.26		< 0.27						< 0.26		< 0.27	< 0.3	
	ug/kg		Chlorodane	< 1.43	< 1.46	1	< 1.45	< 0.25	0	0	< 10	< 1	< 1.44	6	< 1.46	< 1.62	< 0.25
	ug/kg		Toxaphene	< 1.43	< 1.46		< 1.45						< 1.44		< 1.46	< 1.62	
METALS	mg/kg		Ag (silver)														
	mg/kg		Al (aluminum)														
	mg/kg		As (arsenic)	1.6	2.4	0	1.5	1	3	0	< 1	2	1.5	0	1.8	1.9	1
	mg/kg		B (boron)														
	mg/kg		Ba (barium)			20			210	20				20			
	mg/kg		Be (beryllium)														
	mg/kg		Cd (cadmium)	< 1.2	< 1.1	< 10	< 1.2	0.47	< 10	< 10	2	0.56	< 1.2	< 10	< 1.2	< 1.3	0.38
	mg/kg		Cr (chromium)	6.4	7.4	< 10	6.3	7.1	30	< 10	10	6.9	6.2	< 10	6.2	6.3	6.8
	mg/kg		Cu (copper)	2.6	< 1.5	< 10	2.6	3.5	100	< 10	10	3.1	2	< 10	2.9	4	2.4
	mg/kg		Fe (iron)			3500			8000	3100				3900			
	mg/kg		Hg (mercury)	< 0.01	< 0.01	0	< 0.01	< 0.05	1.4	0	1.1	1.69	< 0.01	0	< 0.01	0.034	< 0.04
	mg/kg		Mg (magnesium)														
	mg/kg		Mn (manganese)	190	183	160	219	198	690	150			124	280	196	250	196
	mg/kg		Mo (molybdenum)														
	mg/kg		Ni (nickel)	< 5.8	< 5.7	< 10	< 5.9	5	40	20	7	8	< 5.9	< 10	< 6.3	< 6.6	6
	mg/kg		Pb (lead)	6.4	7.6	< 10	7.8	9.3	320	20	19	11	5.4	50	32.4	12.5	6.7
	mg/kg		Sb (antimony)														
	mg/kg		Se (selenium)	< 0.83	< 0.82		< 0.85						< 0.84		< 0.9	< 0.94	
	mg/kg		Sn (tin)														
	mg/kg		Sr (strontium)														
	mg/kg		Ti (titanium)														
	mg/kg		Zn (zinc)	15.5	15	14	16.2	21.9	400	20	29	37	24.1	33	24.2	23.7	14.9
	mg/kg		V (vanadium)														
PCB's	ug/kg		Aroclor-1006	< 1.43	< 1.46		< 1.45	< 4.9					< 1.44		< 1.46	< 1.62	< 5
	ug/kg		Aroclor-1221	< 1.43	< 1.46		< 1.45	< 4.9					< 1.44		< 1.46	< 1.62	< 5
	ug/kg		Aroclor-1232	< 1.43	< 1.46		< 1.45	< 4.9					< 1.44		< 1.46	< 1.62	< 5
	ug/kg		Aroclor-1242	< 1.43	< 1.46		< 1.45	< 4.9					< 1.44		< 1.46	< 1.62	< 5
	ug/kg		Aroclor-1248	< 1.43	< 1.46		< 1.45	< 4.9					< 1.44		< 1.46	< 1.62	< 5
	ug/kg		Aroclor-1254	< 2.98	< 2.93		< 3.03	< 4.9					< 3		< 3.05	< 3.38	< 5
	ug/kg		Aroclor-1260	< 2.98	< 2.93		< 3.03	< 4.9					< 3		< 3.05	< 3.38	< 5
	ug/kg		Total PCB's														
PARTICLE SIZE %FINER	SAND	coarse	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	99.2	95.1	100	99.8	99.4	99	100	99		99.2	100	99.7	99.7	97.8
			8			100					99			98			
			10	94.7	89.4		99.4	96.5	97	98			98.7		98.2	99.1	93.4
		medium	16	87.1	80.3	99.0	96.9				96.0		97.9	94.0	92.3	96.5	
			20					89.1	94.0	86.0							81.8
			30	54.6	47.1		69.0						92.7		63.7	81.2	
			40			84.0		43.7	90.0	33.0	66.0			56.0			37.4
			50	54.6	47.1		69.0						92.7		63.7	81.2	
		fine	70														
			80	3.8	8.0		10.0		79.0	3.0			16.2		14.6	25.5	
			100	0.8	0.4	1.0	1.0	1.3			2.0		0.7	4.0	2.7	16.2	0.7
			140	0.6	0.3		0.6	0.7							2.0	13.1	0.6
	SILT CLAY		200	0.5	0.2	0.0	0.5	0.5	68.0	2.0	0.0			2.0	1.6	10.7	0.5
			270	0.4			0.3									8.5	
			0.20 mm	0.4		0.0			35.0	0.5	0.0			0.0			
			0.05 mm	0.2		0.0			13.0	0.0	0.0			0.0			
MISC	%		Total Organic Carb	0.11	0.034		0.22	0.112					0.23		0.75	1.99	0.104
	mg/kg		Chem Oxy Demand			2900			26000	4900	5032	3130		9400			
	mg/kg		Kjedahl Nitrogen			290			9200	410	548	< 20.00		1900			
	mg/kg		Total Phosph						990	87	201						
	mg/kg		Oil and Grease			0			1000	0	354	230		0			
	mg/kg		Cyanide, Total	< 0.63	< 0.62		< 0.65	< 0.06					< 0.64		< 0.68	< 0.72	0.08
	mg/kg		Ammonia	3.10	1.2		3.8						1.8		14	11.0	
	mg/l		Ammonia Elutriate					< 0.06									< 0.06
	%		Moisture	20.1	19.7		22.6	18.4					21.9		26.6	30.1	21.4
	%		Total Solids	79.9	80.3		77.4	81.6					78.1		73.4	69.9	78.6
	%		Volatile Solids	0.7	0.5		0.7	1.64					0.5		1.3	2.6	1.33

Table 3. Contaminant Data for Pool 1 of the Upper Mississippi River

		Record #	23	24	437		25	26	27	438	28	29	30		31	439
		River Mile	848.9	848.8	848.8	848.8	848.8	848.7	848.7	848.6	848.2	848.23	848.2	848.2	848.1	848.1
		Location	BLW LAKE ST. BRIDGE	BW DAYMARK 849.1	BW DAYMARK 849.1	ST PAUL DAYMARK 2	BW DAYMARK 849.1	BW DAYMARK 849.1	BW DAYMARK 849.1	BW DAYMARK 849.1	UPPER APPROACH L/D 1	UPPER APPROACH L/D 1	UPPER APPROACH L/D 1	ST PAUL DAYMARK 1	UPPER APPROACH L/D 1	UPPER APPROACH L/D 1
		Year	1980	1982	1989	1994	1982	1978	1978	1989	1974	1974	1975	1994	1975	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	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		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			< 0.07	< 0.25				< 0.07				< 0.24		< 0.08
	ug/kg	b-BHC			< 0.15	0.48				< 0.15				0.38		< 0.15
	ug/kg	BHC			< 0.22	< 0.25				< 0.22				< 0.24		< 0.23
	ug/kg	g-BHC (lindane)			< 0.1	< 0.25				< 0.1				< 0.24		< 0.1
	ug/kg	Heptachlor			< 0.07	< 0.25				< 0.07				< 0.24		< 0.08
	ug/kg	Aldrin			< 0.1					< 0.1						< 0.1
	ug/kg	Heptachlorepoxide			< 0.12					< 0.12						< 0.13
	ug/kg	Endosulfan I			< 0.12					< 0.12						< 0.13
	ug/kg	Dieldrin	0	< 0.1	< 0.12	< 0.51	< 0.1	0	0	< 0.12	< 10	< 10		< 0.49		< 0.13
	ug/kg	4,4'-DDE	0	< 0.1	< 0.1	< 0.51	< 0.1	0	0	< 0.1	< 10	< 10		< 0.49		< 0.1
	ug/kg	Endrin	0	< 0.1	< 0.22	< 0.51	< 0.1	0	0	< 0.22	< 10	< 10		< 0.49		< 0.23
	ug/kg	Endosulfan II			< 0.25					< 0.25						< 0.25
	ug/kg	4,4'-DDD	0	< 0.1	< 0.27	< 0.51	< 0.1	0.2	2.2	< 0.27	< 10	< 10		< 0.49		< 0.28
	ug/kg	Endrinaldehyde			< 0.27					< 0.27						< 0.28
	ug/kg	Sulfan sulfate			< 0.27					< 0.27						< 0.28
	ug/kg	4,4'-DDT	0	< 0.1	< 0.32	< 0.51	1	0	0.5	< 0.32	< 10	< 10		< 0.49		< 0.33
	ug/kg	Methoxychlor			< 0.54					< 0.54						< 0.55
	ug/kg	Endrinketone			< 0.27					< 0.27						< 0.28
	ug/kg	Chlorodane	0	< 1	< 1.48	< 0.25	< 1	0	2	< 1.48	< 10	< 10		< 0.24		< 1.5
	ug/kg	Toxaphene			< 1.48					< 1.48						< 1.5
METALS	mg/kg	Ag (silver)														
	mg/kg	Al (aluminum)														
	mg/kg	As (arsenic)	0	1.3	1.5	0.95	0.68	0	0	2.2	< 0.8	< 0.9	1.6	0.91	2.2	1.6
	mg/kg	B (boron)														
	mg/kg	Ba (barium)	10					10	20							
	mg/kg	Be (beryllium)														
	mg/kg	Cd (cadmium)	< 10	< 0.2	< 1.2	0.45	< 0.2	< 10	< 10	< 1.3	1	< 1	< 0.1	0.42	4.3	< 1.3
	mg/kg	Cr (chromium)	< 10	2.9	4.8	8.6	3.9	< 10	< 10	6.8	8	9	9.6	8.2	37.5	5.5
	mg/kg	Cu (copper)	< 10	1.9	15.8	2.4	2	< 10	< 10	7.9	11	12	24	1.8	39.7	4.2
	mg/kg	Fe (iron)	2800	3600			3900	1700	2300							
	mg/kg	Hg (mercury)	0	0.035	< 0.01	< 0.04	0.035	0	0	0.02	1.1	0.6	0.09	< 0.05	0.4	< 0.01
	mg/kg	Mg (magnesium)														
	mg/kg	Mn (manganese)	150		136	212		100	130	222				150		196
	mg/kg	Mo (molybdenum)														
	mg/kg	Ni (nickel)	< 10	4	< 5.9	5.3	5	< 10	< 10	< 6.3	6	3		4.1		< 6.4
	mg/kg	Pb (lead)	< 10	8	10.9	6.6	10	10	20	11.2	< 11	< 12	< 0.1	10.8	118	5.3
	mg/kg	Sb (antimony)														
	mg/kg	Se (selenium)			< 0.85					< 0.91						< 0.92
	mg/kg	Sn (tin)														
	mg/kg	Sr (strontium)														
	mg/kg	Ti (titanium)														
	mg/kg	Zn (zinc)	13	12	15.6	17.3	13	10	20	23.2	24	23	40.9	16.9	158	17.5
	mg/kg	V (vanadium)														
PCB's	ug/kg	Aroclor-1006			< 1.48	< 5.1				< 1.48				< 4.9		< 1.5
	ug/kg	Aroclor-1221			< 1.48	< 5.1				< 1.48				< 4.9		< 1.5
	ug/kg	Aroclor-1232			< 1.48	< 5.1				< 1.48				< 4.9		< 1.5
	ug/kg	Aroclor-1242			< 1.48	< 5.1				< 1.48				< 4.9		< 1.5
	ug/kg	Aroclor-1248			< 1.48	< 5.1				< 1.48				< 4.9		< 1.5
	ug/kg	Aroclor-1254			< 3.08	< 5.1				< 3.08				< 4.9		< 3.13
	ug/kg	Aroclor-1260			< 3.08	< 5.1				< 3.08				< 4.9		< 3.13
	ug/kg	Total PCB's														
PARTICLE SIZE %FINER	SAND coarse	3 in	100					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		96	96				
		4	99	100	100	100	100	100	100	100	86	86		100		100
		8	98	100			100				78	78				
		10			99.9	99.6		100	99	99.8				99.9		99.7
	SAND medium	16	93.0	100.0	99.3		99.0			99.2	74.0	74.0				99.6
		20				98.7		100.0	91.0					99.3		
		30		93.0	92.7		96.0			91.0						98.0
		40	58.0	80.0		90.5	84.0	94.0	63.0		63.0	63.0		84.4		
		50		51.0	92.7		47.0			91.0						98.0
	SAND fine	70		17.0			18.0									
		80			25.7			11.0	7.0	22.2						36.8
		100	0.0	4.0	0.8	4.4	5.0			3.8	4.0	4.0		3.3		3.7
		140			0.7	0.9				3.6				0.9		3.8
	SILT CLAY	200	0.0	3.0	0.7	0.4	3.0	1.0	3.0	2.6	1.0	1.0		0.7		2.6
		270		3.0	0.5		3.0			1.9						1.9
		0.20 mm	0.0	1.0	0.4		1.0	0.0	0.0	1.4	0.0	0.0				1.8
		0.05 mm	0.0	0.0	0.3		0.0	0.0	0.0	1.1	0.0	0.0				1.3
MISC	%	Total Organic Carb			0.28	0.071				0.74				0.045		0.15
	mg/kg	Chem Oxy Demand	2000	2360			2960	2300	3600		5243	8243	26334		91600	
	mg/kg	Kjedahl Nitrogen	600	170			150	250	380		156	145				
	mg/kg	Total Phosph		95			110	630	82		170	406				
	mg/kg	Oil and Grease	0	< 50			< 50	0	0		396	374	1147		3160	
	mg/kg	Cyanide, Total			< 0.64	< 0.07				< 0.69				< 0.06		< 0.69
	mg/kg	Ammonia			3					10.5						8.1
	mg/l	Ammonia Elutriate				< 0.06								< 0.06		
	%	Moisture			22.3	23.2				27.1				20.2		28
	%	Total Solids			77.7	76.8				73				79.8		72
	%	Volatile Solids			0.5	0.99				1.2				1.1		1.4

Table 3. Contaminant Data for Pool 1 of the Upper Mississippi River

		Record #		32	33	34	35	1071	1075	1076	1088	1080	1084	440
		River Mile	848.1	848.03	848.02	848.01	848	848	848	848	848	848	848	847.9
		Location	UPPER APPROACH L/D 1.1	UPPER APPROACH L/D 1	UPPER APPROACH L/D 1	UPPER APPROACH L/D 1	UPPER APPROACH L/D 1	Ab. L/D 1 - mid	Ab. L/D 1 - west	Ab. L/D 1 - mean	Ab. L/D 1 - west	Ab. L/D 1 - east	Ab. L/D 1 - mid	UPPER APPROACH L/D 1
		Year	1994	1982	1982	1978	1978	1983	1983	1983	1985	1985	1985	1989
		System	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
		Pool	1	1	1	1	1	1	1	1	1	1	1	1
		Sam. Gear	1	1	1	1	1	3	3	3	3	3	3	1
		Sam. Depth	10	10	10	10	10	10	10	10	10	10	10	10
		Data Cit.	COE	COE	COE	COE	COE	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	COE
CHC's	ug/kg	a-BHC	< 0.25							< 0.53				< 0.08
	ug/kg	b-BHC	2.6							< 1.1				< 0.15
	ug/kg	BHC	< 0.25											< 0.23
	ug/kg	g-BHC (lindane)	< 0.25							< 0.53				< 0.1
	ug/kg	Heptachlor	< 0.25							< 0.53				< 0.08
	ug/kg	Aldrin												< 0.1
	ug/kg	Heptachlorepoxide												< 0.13
	ug/kg	Endosulfan I												< 0.13
	ug/kg	Dieldrin	< 0.49	< 0.1	< 0.1	0	0			< 1.6				< 0.13
	ug/kg	4,4'-DDE	< 0.49	< 0.1	< 0.1	1.2	1			< 1.6				< 0.1
	ug/kg	Endrin	< 0.49	< 0.1	< 0.1	0	0			< 2.1				< 0.23
	ug/kg	Endosulfan II												< 0.25
	ug/kg	4,4'-DDD	< 0.49	< 0.1	< 0.1	0.9	3.6			< 3.2				< 0.28
	ug/kg	Endrinaldehyde												< 0.28
	ug/kg	Sulfan sulfate												< 0.28
	ug/kg	4,4'-DDT	< 0.49	< 0.1	< 0.1	0	0.5			< 4.2				< 0.33
	ug/kg	Methoxychlor												< 0.56
	ug/kg	Endrinketone												< 0.28
	ug/kg	Chlorodane	< 0.25	< 1	< 1	0	0			< 11				< 1.52
	ug/kg	Toxaphene												< 1.52
METALS	mg/kg	Ag (silver)						0.056	0.09	0.083	0.013	0.027	0.078	
	mg/kg	Al (aluminum)												
	mg/kg	As (arsenic)	0.69	0.57	0.66	0	0	1.01	0.7	1	1.41	2.36	1.47	2.1
	mg/kg	B (boron)												
	mg/kg	Ba (barium)				10	10							
	mg/kg	Be (beryllium)						0.069	0.068	0.091	0.081	0.074	0.073	
	mg/kg	Cd (cadmium)	0.36	< 0.19	< 0.19	< 10	< 10	0.103	0.109	0.165	0.042	0.166	0.052	< 1.2
	mg/kg	Cr (chromium)	11.2	2.9	3.8	< 10	< 10	13.3	13	9	6.5	6.1	7.5	7
	mg/kg	Cu (copper)	11.9	2.9	1.9	< 10	< 10	2.9	3.3	5.4	2	2.7	2	5.3
	mg/kg	Fe (iron)		3100	3800	2200	2200							
	mg/kg	Hg (mercury)	0.08	0.026	0.032	0	0	0.05	0.05	0.05	0.05	0.05	0.05	0.019
	mg/kg	Mg (magnesium)												
	mg/kg	Mn (manganese)	171			140	140				118	192.6	120.8	242
	mg/kg	Mo (molybdenum)												
	mg/kg	Ni (nickel)	4.9	4	5	< 10	10	6.5	6.3	5.4	3.7	4	3.7	< 6.2
	mg/kg	Pb (lead)	14.6	10	9	10	10	6.5	6.7	8.3	4.6	15.6	7.8	13.9
	mg/kg	Sb (antimony)									4.4	4.5	5	
	mg/kg	Se (selenium)						0.05	0.05	0.05	0.12	0.12	0.12	< 0.89
	mg/kg	Sn (tin)												
	mg/kg	Sr (strontium)												
	mg/kg	Ti (titanium)						0.6	0.6	0.6	1.7	1.4	1.9	
	mg/kg	Zn (zinc)	13.9	11	17	20	20	14	11.7	14.6	12.5	24.4	12.7	24.3
	mg/kg	V (vanadium)												
PCB's	ug/kg	Aroclor-1006	< 4.9							16				< 1.52
	ug/kg	Aroclor-1221	< 4.9											< 1.52
	ug/kg	Aroclor-1232	< 4.9											< 1.52
	ug/kg	Aroclor-1242	< 4.9											< 1.52
	ug/kg	Aroclor-1248	< 4.9											< 1.52
	ug/kg	Aroclor-1254	< 4.9							22				< 3.18
	ug/kg	Aroclor-1260	< 4.9							< 5.3				< 3.18
	ug/kg	Total PCB's												
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	100	97	100	100	100						99.8504
			8		94	100								
			10	99.8			100	99						99.7
		medium	16		92.0	100.0								99.3
			20	98.8			100.0	98.0						
			30		89.0	100.0								98.3
			40	91.5	83.0	99.0	100.0	93.0						
			50		61.0	83.0								98.3
		fine	70		24.0	34.0								
			80				20.0	25.0						60.6
			100	3.0	9.0	5.0								2.8
			140	1.2										2.3
	SILT CLAY		200	0.8	4.0	3.0	3.0	5.0						1.8
			270		3.0	2.0								1.3
			0.20 mm		1.0	1.0	0.0	1.0						1.3
			0.05 mm		0.0	0.0	0.0	0.0						0.8
MISC	%	Total Organic Carb	0.049											0.64
	mg/kg	Chem Oxy Demand		4120	3710	4900	5200							
	mg/kg	Kjedahl Nitrogen		190	140	490	630							
	mg/kg	Total Phosph		100	190	150	88							
	mg/kg	Oil and Grease		65	75	0	0							
	mg/kg	Cyanide, Total	< 0.06											< 0.68
	mg/kg	Ammonia												13
	mg/l	Ammonia Elutriate	< 0.06											
	%	Moisture	22											26.2
	%	Total Solids	78											73.8
	%	Volatile Solids	1.04											1.6