

Table 1. Contaminant Data for Upstream of 9 ft. Navigation Project

Record #		1024	1037	1050	1063	1010	1006	1002	1019	1023	1015	1032	1036	1028	
River Mile		872.0	872.0	872.0	872.0	872.0	872.0	872.0	872.0	872.0	872.0	872.0	872.0	872.0	
Location		Anoka x-sec - mean	Anoka x-sec - mean	Anoka x-sec - mean	Anoka x-sec - mean	Anoka x-sec - south	Anoka x-sec - mid	Anoka x-sec - north	Anoka x-sec - mid	Anoka x-sec - south	Anoka x-sec - north	Anoka x-sec - mid	Anoka x-sec - south	Anoka x-sec - north	
Year		1982	1983	1984	1985	1981	1981	1981	1982	1982	1982	1983	1983	1983	
System		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	
Pool		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
Sam. Gear		3	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	
Data Cit.		MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	
CHCS	ug/kg	a-BHC	< 5	< 0.53	< 0.32	< 0.26									
	ug/kg	b-BHC	< 10	< 1.1	5	< 0.53									
	ug/kg	BHC													
	ug/kg	p-BHC (lindane)	15	< 0.53	< 0.32	< 0.26									
	ug/kg	Heptachlor	5	< 0.53	< 0.32	< 0.26									
	ug/kg	Aldrin													
	ug/kg	Heptachlorepoiside													
	ug/kg	Endosulfan I													
	ug/kg	Dieldrin	< 20	< 1.6	< 0.96	< 0.79									
	ug/kg	4,4'-DDE	< 7	< 1.6	< 0.96	< 0.79									
	ug/kg	Endrin	< 10	< 2.1	< 1.3	< 1.1									
	ug/kg	Endosulfan II													
	ug/kg	4,4'-DDD	< 14	< 3.2	< 1.9	< 1.6									
	ug/kg	Endrinaidehyde													
	ug/kg	Sulfan sulfate													
ug/kg	4,4'-DDT	< 20	< 4.2	< 2.5	< 2.1										
ug/kg	Methoxychlor														
ug/kg	Endrinetone														
ug/kg	Chlorodane	< 2	< 11	< 6.4	< 5.3										
ug/kg	Toxaphene														
METALS	mg/kg	Ag (silver)				0.06	0.07	0.06	0.051	0.055	0.052	0.035	0.029	0.038	
	mg/kg	Al (aluminum)													
	mg/kg	As (arsenic)				1.1	0.82	1.08	1.83	1.32	1.58	1.67	4.13	3.66	
	mg/kg	B (boron)													
	mg/kg	Ba (barium)													
	mg/kg	Be (beryllium)				0.12	0.13	0.13	0.112	0.101	0.117	0.093	0.21	0.123	
	mg/kg	Cd (cadmium)				0.05	0.05	0.05	0.032	0.022	0.02	0.01	0.109	0.018	
	mg/kg	Cr (chromium)				25.7	12.4	20.5	10.3	8.5	9.1	9.4	34.6	18.2	
	mg/kg	Cu (copper)				4.9	3.2	4.5	3.1	2.6	2.8	2.3	7.4	10.1	
	mg/kg	Fe (iron)													
	mg/kg	Hg (mercury)				0.005	0.005	0.005	0.05	0.05	0.05	0.05	0.05	0.05	
	mg/kg	Mg (magnesium)													
	mg/kg	Mn (manganese)							551	321	319				
	mg/kg	Mo (molybdenum)													
	mg/kg	Ni (nickel)				11.2	6	9.3	7.1	5.7	6.1	7.4	25.5	18.7	
mg/kg	Pb (lead)				4.9	3.2	12.2	1.8	2.2	1.8	0.6	2.6	1.1		
mg/kg	Sb (antimony)														
mg/kg	Se (selenium)				0.12	0.12	0.11	0.05	0.6	0.05	0.05	0.05	0.05		
mg/kg	Sn (tin)														
mg/kg	Sr (strontium)														
mg/kg	Ti (titanium)							0.6	0.6	0.6	0.6	0.6	0.6		
mg/kg	Zn (zinc)				20.5	16.7	19.2	14.3	12.6	14.1	10.6	21.4	20.1		
mg/kg	V (vanadium)														
PCBS	ug/kg	Aroclor-1008	50	6.20	44	< 5.3									
	ug/kg	Aroclor-1221													
	ug/kg	Aroclor-1232													
	ug/kg	Aroclor-1242													
	ug/kg	Aroclor-1248													
	ug/kg	Aroclor-1254	80	10	38	< 5.3									
	ug/kg	Aroclor-1260	< 20	< 5.3	< 3.2	< 5.3									
	ug/kg	Total PCB's													
PARTICLE SIZE % FINER	SAND	3 in													
		1 1/2													
		3/4													
		3/8													
		4													
	FINE MEDIUM	8													
		10													
		16													
		20													
		30													
SILT	40														
	50														
	70														
	80														
	100														
CLAY	140														
	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														

Table 1. Contaminant Data for Upstream of 9 ft. Navigation Project

Record #		1041	1049	1045	1062	1054	1058	
River Mile		872.0	872.0	872.0	872.0	872.0	872.0	
Location		Anoka 3-sec - north	Anoka 3-sec - south	Anoka 3-sec - mid	Anoka 3-sec - south	Anoka 3-sec - north	Anoka 3-sec - mid	
Year		1984	1984	1984	1985	1985	1985	
System		1	1	1	1	1	1	
Habitat Type		1	1	1	1	1	1	
Pool		-1	-1	-1	-1	-1	-1	
Sam. Gear		3	3	3	3	3	3	
Sam. Depth		10	10	10	10	10	10	
Data Ck.		MWCC	MWCC	MWCC	MWCC	MWCC	MWCC	
CHLCS	ug/kg	a-BHC						
	ug/kg	b-BHC						
	ug/kg	BHC						
	ug/kg	g-BHC (lindane)						
	ug/kg	Heptachlor						
	ug/kg	Aldrin						
	ug/kg	Heptachlorepoxyde						
	ug/kg	Endosulfan I						
	ug/kg	Dieldrin						
	ug/kg	4,4'-DDE						
	ug/kg	Endrin						
	ug/kg	Endosulfan II						
	ug/kg	4,4'-DDD						
	ug/kg	Endrinaidehyde						
	ug/kg	Sulfan sulfate						
METALS	mg/kg	Ag (silver)	0.005	0.016	0.019	0.031	0.031	0.039
	mg/kg	Al (aluminum)						
	mg/kg	As (arsenic)	1.14	1.4	1.31	3.17	4.04	3.75
	mg/kg	B (boron)						
	mg/kg	Ba (barium)						
	mg/kg	Be (beryllium)	0.116	0.163	0.096	0.097	0.111	0.142
	mg/kg	Cd (cadmium)	0.021	0.027	0.021	0.02	0.074	0.012
	mg/kg	Cr (chromium)	8.8	11.3	7.8	9.1	9.8	10.9
	mg/kg	Cu (copper)	2.7	5.5	3.2	5	6.1	8.3
	mg/kg	Fe (iron)						
	mg/kg	Hg (mercury)	0.05	0.05	0.05	0.05	0.05	0.05
	mg/kg	Mg (magnesium)						
	mg/kg	Mn (manganese)	332	450.6	356.4	434.5	895.9	417
	mg/kg	Mo (molybdenum)						
	mg/kg	Ni (nickel)	5.9	8	6.3	5.3	11.7	7.2
mg/kg	Pb (lead)	1.8	2.2	2.4	2.6	6.8	2.5	
mg/kg	Sb (antimony)				10.2	13.6	8.3	
mg/kg	Se (selenium)	0.12	0.12	0.12	0.12	0.12	0.12	
mg/kg	Sn (tin)							
mg/kg	Sr (strontium)							
mg/kg	Ti (titanium)	0.6	0.6	0.6	4.2	4.5	3.3	
mg/kg	Zn (zinc)	12.7	16	13	11.6	21.9	14.4	
mg/kg	V (vanadium)							
PCBS	ug/kg	Aroclor-1006						
	ug/kg	Aroclor-1221						
	ug/kg	Aroclor-1232						
	ug/kg	Aroclor-1242						
	ug/kg	Aroclor-1248						
	ug/kg	Aroclor-1254						
	ug/kg	Aroclor-1260						
	ug/kg	Total PCB's						
PARTICLE SIZE %FINER	SAND	coarse	3 in					
			1 1/2					
			3/4					
			3/8					
			4					
			8					
	MEDIUM	fine	10					
			16					
			20					
			30					
			40					
			50					
CLAY		70						
		80						
		100						
		140						
		200						
		270						
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							