Table 5 Range of Concentrations in Surface Sediments (0-6" and 0-1'), Buffalo River Sediment Study 2005

Analyte	Screening Criteria [1]	Screening Criteria [2]	Minimum Value	Maximum Value	Number of Positive Results	Number of Results Above Minimum Criteria
415.1_LK (mg/Kg)						
Total Organic Carbon	NA	*NA*	1720	56900	116	NA
6010B (mg/Kg)						
ARSENIC	7.5	*6*	2.6	417	116	107
BARIUM	300	*NA*	15.7	1330	116	3
CADMIUM	1	*0.6*	0.07	24.5	75	40
CHROMIUM	10	*26*	5.3	277	116	110
COPPER	25	*16*	12.2	2070	116	114
IRON	2000	*20000*	10500	187000	116	116
LEAD	NA	*31*	5.8	2600	116	84
MANGANESE	NA	*460*	88.6	2640	116	95
NICKEL	13	*16*	11.2	53.7	116	113
SELENIUM	2	*NA*	0.58	7.3	55	4
SILVER	NA	*1*	0.2	21.4	34	1
ZINC	20	*120*	38	9810	116	116
MERCURY	0.1	*0.15*	0.03	7.1	102	46
8081A (ug/Kg)						
2,4'-DDD	NA	*0.22*	83	83	1	1
2,4'-DDE	NA	*0.22*	6.5	6.5	1	1
2,4'-DDT	NA	*0.22*	5.9	10	3	3
4,4'-DDD	2900	*0.22*	11	13	2	2
4,4'-DDE	2100	*0.22*	5.1	96	9	9
4,4'-DDT	2100	*0.22*	8.8	17	3	3
ALDRIN	41	*2.2*	0	0	0	0
ALPHA-BHC	110	*1.32*	3.5	9.1	2	2
ALPHA-CHLORDANE	NA	*0.022*	0	0	0	0
BETA-BHC	200	*1.32*	20	20	1	1
DELTA-BHC	300	*1.32*	3.2	4.5	5	5
DIELDRIN	44	*2.2*	6.2	6.2	1	1
ENDOSULFAN I	900	*NA*	0	0	0	0
ENDOSULFAN II	900	*NA*	0	0	0	0
ENDOSULFAN SULFATE	1000	*NA*	10	10	1	0
ENDRIN	100	*17.6*	0	0	0	0
ENDRIN ALDEHYDE	NA	*NA*	7.7	7.7	1	NA
GAMMA-BHC	60	*1.32*	6	6	1	1
GAMMA-CHLORDANE	540	*0.022*	3.9	4.3	3	3
HEPTACHLOR	100	*0.0176*	5.5	7.7	2	2
HEPTACHLOR EPOXIDE	20	*0.0176*	3.9	230	2	2
METHOXYCHLOR	NA	*NA*	0	0	0	NA
8082 (ug/Kg)						
AROCLOR 1242	1000	*0.0176*	26	570	37	37
AROCLOR 1248	1000	*0.0176*	0	0	0	0
AROCLOR 1254	1000	*0.0176*	29	440	41	41

Table 5 Range of Concentrations in Surface Sediments (0-6" and 0-1'), Buffalo River Sediment Study 2005

Analyte	Screening Criteria [1]	Screening Criteria [2]	Minimum Value	Maximum Value	Number of Positive Results	Number of Results Above Minimum Criteria
AROCLOR 1260	1000	*0.0176*	28	180	23	23
AROCLOR 1262	1000	*0.0176*	70	140	2	2
AROCLOR 1268	1000	*0.0176*	60	60	1	1
8270C (ug/Kg)						
2,4,5-TRICHLOROPHENOL	100	*NA*	0	0	0	0
2,4,6-TRICHLOROPHENOL	NA	*NA*	0	0	0	NA
2,4-DICHLOROPHENOL	400	*NA*	0	0	0	0
2,4-DIMETHYLPHENOL	NA	*NA*	0	0	0	NA
2,4-DINITROPHENOL	200	*NA*	100	100	1	0
2,4-DINITROTOLUENE	NA	*NA*	180	430	2	NA
2,6-DINITROTOLUENE	1000	*NA*	56	400	2	0
2-CHLORONAPHTHALENE	NA	*NA*	0	0	0	NA
2-CHLOROPHENOL	800	*NA*	0	0	0	0
2-METHYLNAPHTHALENE	36400	*NA*	27	10000	64	2
2-METHYLPHENOL	100	*NA*	0	0	0	0
2-NITROANILINE	430	*NA*	0	0	0	0
2-NITROPHENOL	330	*NA*	0	0	0	0
3,3'-DICHLOROBENZIDINE	NA	*NA*	0	0	0	NA
3-NITROANILINE	500	*NA*	46	46	1	0
4,6-DINITRO-2-METHYLPHENOL	NA	*NA*	0	0	0	NA
4-BROMOPHENYL PHENYL ETHER	NA	*NA*	0	0	0	NA
4-CHLORO-3-METHYLPHENOL	240	*NA*	0	0	0	0
4-CHLOROANILINE	220	*NA*	150	150	1	0
4-CHLOROPHENYL PHENYL ETHER	NA	*NA*	0	0	0	NA
4-METHYLPHENOL	900	*NA*	26	330	7	0
4-NITROANILINE	NA	*NA*	0	0	0	NA
4-NITROPHENOL	100	*NA*	0	0	0	0
ACENAPHTHENE	50000	*NA*	22	8900	86	0
ACENAPHTHYLENE	41000	*NA*	23	230	13	0
ACETOPHENONE	NA	*NA*	22	190	15	NA
ANTHRACENE	50000	*NA*	19	12000	109	0
ATRAZINE	NA	*NA*	0	0	0	NA
BENZALDEHYDE	NA	*NA*	36	280	39	NA
BENZO(A)ANTHRACENE	224	*NA*	23	6400	111	69
BENZO(A)PYRENE	61	*28.6*	20	3700	112	110
BENZO(B)FLUORANTHENE	1100	*NA*	29	3500	111	13
BENZO(G,H,I)PERYLENE	50000	*NA*	24	2900	108	0
BENZO(K)FLUORANTHENE	1100	*NA*	31	3700	103	8
BIPHENYL	NA	*NA*	23	350	34	NA
BIS(2-CHLOROETHOXY)METHANE	NA	*NA*	0	0	0	NA
BIS(2-CHLOROETHYL) ETHER	NA	*0.66*	0	0	0	0
BIS(2-CHLOROISOPROPYL) ETHER	NA	*NA*	0	0	0	NA
BIS(2-ETHYLHEXYL) PHTHALATE	50000	*NA*	39	2900	97	0

Table 5 Range of Concentrations in Surface Sediments (0-6" and 0-1'), Buffalo River Sediment Study 2005

Analyte	Screening Criteria (1)	Screening Criteria (2)	Minimum Value	Maximum Value	Number of Positive Results	Number of Results Above Minimum Criteria
BUTYLBENZYL PHTHALATE	50000	*NA*	24	700	19	0
CAPROLACTAM	NA	*NA*	0	0	0	NA
CARBAZOLE	NA	*NA*	27	1400	75	NA
CHRYSENE	400	*NA*	18	6400	115	70
DIBENZ(A,H)ANTHRACENE	14	*NA*	22	900	91	91
DIBENZOFURAN	6200	*NA*	24	6900	48	1
DIETHYL PHTHALATE	7100	*NA*	0	0	0	0
DIMETHYL PHTHALATE	2000	*NA*	56	56	1	0
DI-N-BUTYL PHTHALATE	8100	*NA*	20	83	13	0
DI-N-OCTYL PHTHALATE	50000	*NA*	25	390	36	0
FLUORANTHENE	50000	*NA*	28	26000	113	0
FLUORENE	50000	*NA*	17	11000	94	0
HEXACHLOROBENZENE	410	*NA*	0	0	0	0
HEXACHLOROBUTADIENE	NA	*6.6*	0	0	0	NA
HEXACHLOROCYCLOPENTADIENE	NA	*NA*	0	0	0	NA
HEXACHLOROETHANE	NA	*NA*	0	0	0	NA
INDENO(1,2,3-CD)PYRENE	3200	*NA*	21	2800	108	0
ISOPHORONE	4400	*NA*	0	0	0	0
NAPHTHALENE	13000	*NA*	27	2000	49	0
NITROBENZENE	200	*NA*	580	580	1	1
N-NITROSO-DI-N-PROPYLAMINE	NA	*NA*	0	0	0	NA
N-NITROSODIPHENYLAMINE	NA	*NA*	33	1700	19	NA
PENTACHLOROPHENOL	1000	*NA*	0	0	0	0
PHENANTHRENE	50000	*NA*	45	40000	112	0
PHENOL	30	*NA*	0	0	0	0
PYRENE	50000	*NA*	*20*	*25000*	*114*	*0*

(1) New York State Department of Environmental Conservation, Technical and Administrative Guidance and Memorandum, # 4046, Revised Jan. 24, 1994 Determination of Soil Cleanup Objectives and Cleanup Levels

(2) New York State Department of Environmental Conservation, Division of Fish, Wildlife and Marine Resoureces, Technical Guidance for Screening Contaminated Sediments, January 1999. Table 1 Human Health Bioaccumulation - Sediment Criteria Site specific criteria based on site average 22 gOC/Kg.

Key:

U: Not detected
J: Estimated
J-: Estimated low
J+: Estimated high
R : Rejected

mg/Kg: miligram per kilogram
ug/Kg: microgram per kilogram
mg/L: miligram per liter
ug/L: microgram per liter