Table 4 Summary of Results for Surface Sediments (0-6" and 0-1'), Buffalo River Sediment Study 2005

Analyte	Screening Criteria (1)	Screening Criteria (2)	2-670-00-R06 08/30/2005	2-670-00-L06 08/30/2005	4-673-00-L06 08/30/2005	2-675-00-R06 08/30/2005	2-675-00-L06 08/30/2005	4-677-00-L06 08/30/2005	2-680-00-L06 08/23/2005	2-680-00-R06 08/23/2005	4-682-00-L06 08/23/2005	2-685-00-R06 08/23/2005	2-685-00-L06 08/23/2005	4-688-00-L06 08/23/2005	2-690-00-R06 08/23/2005	2-690-00-L06 08/23/2005	4-693-00-L06 08/23/2005	2-695-00-R01 08/29/2005
4-CHLOROANILINE	220	NA	560 U	930 U	470 U	5900 U	2500 U	570 U	630 U	550 U	550 U	670 U	550 U	580 U	600 U	560 U	450 U	550 U
4-CHLOROPHENYL PHENYL ETHER	NA	NA	560 U	930 U	470 U	5900 U	2500 U	570 U	630 U	550 U	550 U	670 U	550 U	580 U	600 U	560 U	450 U	550 U
4-METHYLPHENOL	900	NA	560 U	930 U	470 U	5900 U	2500 U	570 U	630 U	550 U	550 U	670 U	550 U	580 U	600 U	560 U	450 U	550 U
4-NITROANILINE	NA	NA	1400 U	2300 U	1200 U	15000 U	6400 U	1400 U	1600 U	1400 U	1400 U	1700 U	1400 U	1500 U	1500 U	1400 U	1100 U	1400 U
4-NITROPHENOL	100	NA	1400 U	2300 U	1200 U	15000 U	6400 U	1400 U	1600 UJ	1400 U	1400 UJ	1700 UJ	1400 U	1500 UJ	1500 U	1400 U	1100 U	1400 U
ACENAPHTHENE	50000	NA	90 J	730 J	110 J	8900	980 J	29 J	50 J	200 J	52 J	39 J	4100	50 J	37 J	140 J	300 J	170 J
ACENAPHTHYLENE	41000	NA	42 J	930 U	23 J	5900 U	2500 U	570 U	630 U	75 J	550 U	670 U	60 J	580 U	600 U	26 J	450 U	550 U
ACETOPHENONE	NA	NA	560 U	930 U	470 U	5900 U	2500 U	570 U	630 U	550 U	550 U	670 U	550 UJ	580 UJ	600 U	560 U	450 U	550 U
ANTHRACENE	50000	NA	250 J	850 J	190 J	12000	440 J	48 J	85 J	370 J	120 J	60 J	1600	100 J	80 J	230 J	58 J	170 J
ATRAZINE	NA	NA	560 U	930 U	470 U	5900 U	2500 U	570 U	630 U	550 U	550 U	670 U	550 U	580 U	600 U	560 U	450 U	550 U
BENZALDEHYDE	NA	NA	560 UJ	930 UJ	470 UJ	5900 UJ	2500 U	570 UJ	630 UJ	550 UJ	550 UJ	670 UJ	550 UJ	580 UJ	600 UJ	560 UJ	450 UJ	550 UJ
BENZO(A)ANTHRACENE	224	NA	610	670 J	410 J	6400 J	1300 J	150 J	340 J	1100	440 J	210 J	1000	310 J	270 J	410 J	450 U	420 J
BENZO(A)PYRENE	61	28.6	480 J	460 J	370 J	2700 J	1200 J	150 J	410 J	1000 J	510 J	300 J	890	390 J	290 J	400 J	790	400 J
BENZO(B)FLUORANTHENE	1100	NA	650 J	440 J	590 J	3500 J	1100 J	190 J	610 J	2500 J	980	330 J	1400	520 J	440 J	480 J	450 U	540 J
BENZO(G,H,I)PERYLENE	50000	NA	270 J	250 J	160 J	910 J	690 J	120 J	260 J	330 J	270 J	180 J	430 J	230 J	180 J	250 J	450 U	190 J
BENZO(K)FLUORANTHENE	1100	NA	650 J	490 J	440 J	2900 J	1200 J	190 J	500 J	550 UJ	550 U	460 J	550 U	470 J	460 J	580 J	450 U	600 J
BIPHENYL	NA	NA	38 J	930 U	23 J	350 J	2500 U	570 U	630 U	50 J	550 U	670 U	550 U	33 J	600 U	32 J	450 U	26 J
BIS(2-CHLOROETHOXY)METHANE	NA	NA	560 U	930 U	470 U	5900 U	2500 U	570 U	630 U	550 U	550 U	670 U	550 U	580 U	600 U	560 U	450 U	550 U
BIS(2-CHLOROETHYL) ETHER	NA	0.66	560 U	930 U	470 U	5900 U	2500 U	570 U	630 U	550 U	550 U	670 U	550 U	580 U	600 U	560 U	450 U	550 U
BIS(2-CHLOROISOPROPYL) ETHER	NA	NA	560 U	930 U	470 U	5900 U	2500 U	570 U	630 U	550 U	550 U	670 U	550 U	580 U	600 U	560 U	450 U	550 U
BIS(2-ETHYLHEXYL) PHTHALATE	50000	NA	570	400 J	1600 J	320 J	1100 J	190 J	1100	2500	920	460 J	1100	530 J	510 J	350 J	450 UJ	490 J
BUTYLBENZYL PHTHALATE	50000	NA	560 U	930 U	470 UJ	5900 UJ	2500 U	570 U	630 U	550 U	550 U	670 U	550 U	580 U	600 U	560 U	24 J	550 U
CAPROLACTAM	NA	NA	560 U	930 U	470 U	5900 U	2500 U	570 U	630 U	550 U	550 U	670 U	550 UJ	580 U	600 U	560 U	450 U	550 U
CARBAZOLE	NA	NA	560 U	99 J	41 J	1400 J	2500 U	28 J	48 J	550 U	73 J	42 J	130 J	40 J	43 J	41 J	450 U	550 U
CHRYSENE	400	NA	810	850 J	580 J	6400 J	1800 J	260 J	610 J	1400	720	430 J	1400	540 J	430 J	610	21 J	670
DIBENZ(A,H)ANTHRACENE	14	NA	64 J	69 J	470 UJ	5900 UJ	230 J	35 J	100 J	83 J	120 J	68 J	190 J	92 J	59 J	100 J	450 U	64 J
DIBENZOFURAN	6200	NA	46 J	160 J	34 J	6900	2500 U	570 U	32 J	100 J	33 J	670 U	550 U	29 J	600 U	75 J	24 J	46 J
DIETHYL PHTHALATE	7100	NA	560 U	930 U	470 U	5900 U	2500 U	570 U	630 U	550 U	550 U	670 U	550 U	580 U	600 U	560 U	450 U	550 U
DIMETHYL PHTHALATE	2000	NA	560 U	930 U	470 U	5900 U	2500 U	570 U	630 U	550 U	550 U	670 U	550 U	580 U	600 U	560 U	450 U	550 U
DI-N-BUTYL PHTHALATE	8100	NA	560 U	930 U	470 U	5900 U	2500 U	570 U	630 U	550 U	25 J	670 U	550 U	580 U	600 U	560 U	20 J	550 U
DI-N-OCTYL PHTHALATE	50000	NA	560 UJ	930 U	470 UJ	5900 UJ	2500 U	570 U	630 U	550 UJ	34 J	39 J	550 U	580 U	280 J	560 UJ	450 U	550 UJ
FLUORANTHENE	50000	NA	1500	2300	970	26000	4200	460 J	920	2500	1300	710	4300	910	790	1100	28 J	1300
FLUORENE	50000	NA	110 J	760 J	99 J	11000	660 J	31 J	72 J	280 J	65 J	69 J	3200	75 J	46 J	170 J	140 J	160 J
HEXACHLOROBENZENE	410	NA	560 U	930 U	470 U	5900 U	2500 U	570 U	630 U	550 U	550 U	670 U	550 U	580 U	600 U	560 U	450 U	550 U
HEXACHLOROBUTADIENE	NA	6.6	560 U	930 U	470 U	5900 U	2500 U	570 U	630 U	550 U	550 U	670 U	550 U	580 U	600 U	560 U	450 U	550 U
HEXACHLOROCYCLOPENTADIENE	NA	NA	560 UJ	930 UJ	470 UJ	5900 UJ	2500 U	570 UJ	630 U	550 UJ	550 U	670 U	550 U	580 U	600 UJ	560 UJ	450 UJ	550 UJ
HEXACHLOROETHANE	NA	NA	560 U	930 U	470 U	5900 U	2500 U	570 U	630 U	550 U	550 U	670 U	550 U	580 U	600 U	560 U	450 U	550 U
INDENO(1,2,3-CD)PYRENE	3200	NA	190 J	220 J	130 J	830 J	610 J	96 J	230 J	270 J	260 J	150 J	360 J	210 J	150 J	210 J	450 U	180 J
ISOPHORONE	4400	NA	560 U	930 U	470 U	5900 U	2500 U	570 U	630 U	550 U	550 U	670 U	550 U	580 U	600 U	560 U	450 U	550 U
NAPHTHALENE	13000	NA	110 J	210 J	47 J	2000 J	190 J	570 U	32 J	160 J	30 J	670 U	250 J	40 J	600 U	260 J	450 U	45 J
NITROBENZENE	200	NA	560 U	930 U	470 U	5900 U	2500 U	570 U	630 U	550 U	550 U	670 U	550 U	580 U	600 U	560 U	450 U	550 U
N-NITROSO-DI-N-PROPYLAMINE	NA	NA	560 U	930 U	470 U	5900 U	2500 U	570 U	630 U	550 U	550 U	670 U	550 U	580 U	600 U	560 U	450 U	550 U
N-NITROSODIPHENYLAMINE	NA	NA	560 U	580 J	470 U	5900 U	2500 U	570 U	630 U	550 U	550 U	670 U	550 U	580 U	600 U	560 U	33 J	550 U
PENTACHLOROPHENOL	1000	NA	1400 U	2300 U	1200 U	15000 U	6400 U	1400 U	1600 U	1400 U	1400 U	1700 U	1400 U	1500 U	1500 U	1400 U	1100 U	1400 U
PHENANTHRENE	50000	NA	540 J	2500	560	40000	440 J	250 J	420 J	1100	560	350 J	1000	410 J	300 J	790	240 J	570
PHENOL	30	NA	560 U	930 U	470 U	5900 U	2500 U	570 U	630 U	550 U	550 U	670 U	550 U	580 U	600 U	560 U	450 U	550 U
PYRENE	50000	NA	1600	2100	950 J	25000 J	3500	460 J	850	2200	1100	590 J	3200	800	1100	1300	33 J	1300

(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 Values that exceed this criteria are shaded gray and bolded.

(2) New York State Department of Environmental Conservation, Division of Fish, Wildlife and Marine Resources, Technical Guidance for Screening Contaminated Sediments, January 1999. Table 1 Human Health Bioaccumulation - Sediment Criteria * Site specific criteria based on site average 22 gOO/Kg. Values that exceed this criteria are shaded teal, with white font, bolded and italics.*

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

Table 4 Summary of Results for Surface Sediments (0-6" and 0-1'), Buffalo River Sediment Study 2005

Analyte	Screening Criteria [1]	Screening Criteria [2]	2-695-00-L06 08/23/2005	2-700-00-R01 08/29/2005	2-700-00-L06 08/29/2005	-705-00-R06; 08/29/2005	-705-00-L06; 08/30/2005	2-710-00-R06 08/27/2006	2-710-00-L06 08/27/2005	712-00-L06; 08 08/27/2005	3-713-00-R06 08/29/2005	3-713-00-L06 08/25/2005	2-715-00-R06 08/29/2005	2-715-00-L06 08/25/2005	2-720-00-R06 08/27/2005	2-720-00-L06 08/25/2005	6-723-00-R06 08/27/2005	2-725-00-R06 08/27/2005
415.1_LK (mg/Kg)																		
Total Organic Carbon	NA	NA	3230	24400	56900	22000	18400	22000	24700 J	23100 J	25300	24100	21300	26200	5290 J	22800	28400 J	19600 J
6010B (mg/Kg)																		
ARSENIC	7.5	6	5.0 J	10.5	16.4	8.5	14.4	6.7	7.1	6.2	7.6	10.2	20.7	9.6	15.5	8.7	417	14.3
BARIUM	300	NA	18.7	141	271	112	112	106	115	107	132	129	170	158	345	121	1330	150
CADMIUM	1	0.6	0.080	0.96	2.4	0.62	2.6	0.45	0.34	0.40	0.69	0.095 U	1.0	0.11 U	0.26	0.090 U	24.5	0.35
CHROMIUM	10	26	7.1 J	158	71.2	23.5	202	25.3 J	17.9 J	16.7 J	18.3	22.8	119	26.3	26.4 J	20.0	90.6 J	20.3 J
COPPER	25	16	28.2 J	56.1	86.4	39.2	57.6	46.4	37.3	31.1	37.8	39.9	152	43.6	61.8	39.0	2070	47.2
IRON	2000	20000	10500 J	29200	44300	27200	49100	28400 J	31000 J	28400 J	25800	32600 J+	27500	38200 J+	37900 J	30300 J+	187000 J	31700 J
LEAD	NA	31	8.1 J	69.6 J	188 J	34.5 J	94.7 J	27.6 J	28.9 J	22.8 J	33.4 J	31.1 J	513 J	35.4 J	81.8 J	29.4 J	2600 J	53.6 J
MANGANESE	NA	460	88.6 J	740	1150	634	2640	541 J	716 J	650 J	608	696 J+	849	889 J+	647 J	702 J+	1610 J	786 J
NICKEL	13	16	16.5	31.1	32.5	27.6	30.5	27.0	28.1	26.9	27.3	34.5	27.6	39.4	32.6	31.9	29.0	28.2
SELENIUM	2	NA	0.46 UJ	2.7 UJ	3.4 J	1.1 UJ	2.8 J	1.5 J	1.9 J	1.6 J	2.4 UJ	0.64 UJ	2.3 UJ	0.74 UJ	1.3 J	0.60 UJ	7.3 J	1.9 J
SILVER	NA	1	0.22 U	0.50 J	0.75 J	0.41 J	0.84 J	0.27 U	0.30 U	0.30 U	0.53 J	0.30 U	0.65 J	0.35 U	0.47	0.29 U	21.4	0.31 U
ZINC	20	120	47.2 J	180 J	268 J	130 J	392 J	121 J	133 J	109 J	120 J	135	230 J	158	111 J	127	9810 J	131 J
MERCURY	0.1	0.15	0.018 U	0.10 J+	0.71 J+	0.088 J+	0.16 J+	0.052	0.062	0.043	0.065 J+	0.053 J	1.5 J+	0.067 J	0.022 U	0.051 J	1.0	0.11
8081A (ug/Kg)																		
2,4'-DDD	NA	0.22	3.8 U	6.3 U	6.4 U	6.0 U	5.4 U	6.1 U	6.1 U	6.5 U	6.1 U	6.4 U	5.7 U	6.8 U	4.3 U	6.2 U	83	5.4 U
2,4'-DDE	NA	0.22	3.8 U	6.3 U	6.4 U	6.0 U	5.4 U	6.1 U	6.1 U	6.5 U	6.1 U	6.4 U	5.7 U	6.8 U	4.3 U	6.2 U	54 U	5.4 U
2,4'-DDT	NA	0.22	3.8 U	6.3 U	6.4 U	6.0 U	5.4 U	6.1 U	6.1 U	6.5 U	6.1 U	6.4 U	5.7 U	6.8 U	4.3 U	6.2 U	54 U	5.4 U
4,4'-DDD	2900	0.22	3.8 U	6.3 U	6.4 U	6.0 U	5.4 U	6.1 U	6.1 U	6.5 U	6.1 U	6.4 U	5.7 U	6.8 U	4.3 U	6.2 U	54 U	5.4 U
4,4'-DDE	2100	0.22	3.8 U	6.3 U	6.4 U	6.0 U	5.4 U	6.1 U	6.1 U	6.5 U	6.1 U	6.4 U	5.7 U	6.8 U	4.3 U	6.2 U	96	5.4 U
4,4'-DDT	2100	0.22	3.8 U	6.3 U	6.4 U	6.0 U	5.4 U	6.1 U	6.1 U	6.5 U	6.1 U	6.4 U	5.7 U	6.8 U	4.3 U	6.2 U	54 U	5.4 U
ALDRIN	41	2.2	1.9 U	3.1 U	3.2 U	3.0 U	2.7 U	3.0 U	3.0 U	3.3 U	3.0 U	3.2 U	2.9 U	3.4 U	2.2 U	3.1 U	27 U	2.7 U
ALPHA-BHC	110	1.32	1.9 U	3.1 U	3.2 U	3.0 U	2.7 U	3.0 U	3.0 U	3.3 U	3.0 U	3.2 U	2.9 U	3.4 U	2.2 U	3.1 U	27 U	2.7 U
ALPHA-CHLORDANE	NA	0.022	1.9 U	3.1 U	3.2 U	3.0 U	2.7 U	3.0 U	3.0 U	3.3 U	3.0 U	3.2 U	2.9 U	3.4 U	2.2 U	3.1 U	27 U	2.7 U
BETA-BHC	200	1.32	1.9 U	3.1 U	3.2 U	3.0 U	2.7 U	3.0 U	3.0 U	3.3 U	3.0 U	3.2 U	2.9 U	3.4 U	2.2 U	3.1 U	27 U	2.7 U
DELTA-BHC	300	1.32	1.9 U	3.1 U	3.2 U	3.0 U	2.7 U	3.0 U	3.0 U	3.3 U	3.0 U	3.2 U	2.9 U	3.4 U	2.2 U	3.1 U	27 U	2.7 U
DIELDRIN	44	2.2	3.8 U	6.3 U	6.4 U	6.0 U	5.4 U	6.1 U	6.1 U	6.5 U	6.1 U	6.4 U	5.7 U	6.8 U	4.3 U	6.2 U	54 U	5.4 U
ENDOSULFAN I	900	NA	1.9 U	3.1 U	3.2 U	3.0 U	2.7 U	3.0 U	3.0 U	3.3 U	3.0 U	3.2 U	2.9 U	3.4 U	2.2 U	3.1 U	27 U	2.7 U
ENDOSULFAN II	900	NA	3.8 U	6.3 U	6.4 U	6.0 U	5.4 U	6.1 U	6.1 U	6.5 U	6.1 U	6.4 U	5.7 U	6.8 U	4.3 U	6.2 U	54 U	5.4 U
ENDOSULFAN SULFATE	1000	NA	3.8 U	6.3 U	6.4 U	6.0 U	5.4 U	6.1 U	6.1 U	6.5 U	6.1 U	6.4 U	5.7 U	6.8 U	4.3 U	6.2 U	54 U	5.4 U
ENDRIN	100	17.6	3.8 U	6.3 U	6.4 U	6.0 U	5.4 U	6.1 U	6.1 U	6.5 U	6.1 U	6.4 U	5.7 U	6.8 U	4.3 U	6.2 U	54 U	5.4 U
ENDRIN ALDEHYDE	NA	NA	3.8 U	6.3 U	6.4 U	6.0 U	5.4 U	6.1 U	6.1 U	6.5 U	6.1 U	6.4 U	5.7 U	6.8 U	4.3 U	6.2 U	54 U	5.4 U
GAMMA-BHC	60	1.32	1.9 U	3.1 U	3.2 U	3.0 U	2.7 U	3.0 U	3.0 U	3.3 U	3.0 U	3.2 U	2.9 U	3.4 U	2.2 U	3.1 U	27 U	2.7 U
GAMMA-CHLORDANE	540	0.022	1.9 U	3.1 U	3.2 U	3.0 U	2.7 U	3.0 U	3.0 U	3.3 U	3.0 U	3.2 U	2.9 U	3.4 U	2.2 U	3.1 U	27 U	2.7 U
HEPTACHLOR	100	0.0176	1.9 U	3.1 U	3.2 U	3.0 U	2.7 U	3.0 U	3.0 U	3.3 U	3.0 U	3.2 U	2.9 U	3.4 U	2.2 U	3.1 U	27 U	2.7 U
HEPTACHLOR EPOXIDE	20	0.0176	1.9 U	3.1 U	3.2 U	3.0 U	2.7 U	3.0 UJ	3.0 UJ	3.3 UJ	3.0 U	3.2 U	2.9 U	3.4 U	2.2 UJ	3.1 U	230 J	2.7 UJ
METHOXYCHLOR	NA	NA	19 U	31 U	32 U	30 U	27 U	30 U	30 U	33 U	30 U	32 U	29 U	34 U	22 U	31 U	270 U	27 U
8082 (ug/Kg)																		
AROCLOR 1242	1000	0.0176	19 U	31 U	120	30 U	27 U	30 U	30 U	33 U	30 U	32 U	29 U	34 U	22 U	31 U	27 UJ	27 U
AROCLOR 1248	1000	0.0176	19 U	31 U	32 U	30 U	27 U	30 U	30 U	33 U	30 U	32 U	29 U	34 U	22 U	31 U	27 UJ	27 U
AROCLOR 1254	1000	0.0176	19 U	31 U	140	30 U	27 U	30 U	30 U	33 U	30 U	32 U	29 U	34 U	22 U	31 U	27 UJ	29
AROCLOR 1260	1000	0.0176	19 U	31 U	47	30 U	27 U	30 U	30 U	33 U	30 U	32 UJ	29 U	34 UJ	22 U	31 UJ	27 UJ	27 U
AROCLOR 1262	1000	0.0176	19 U	31 U	32 U	30 U	27 U	30 U	30 U	33 U	30 U	32 U	29 U	34 U	22 U	31 U	27 UJ	27 U
AROCLOR 1268	1000	0.0176	19 U	31 U	32 U	30 U	27 U	30 U	30 U	33 U	30 U	32 U	29 U	34 U	22 U	31 U	27 UJ	27 U
8270C (ug/Kg)																		
2,4,5-TRICHLOROPHENOL	100	NA	950 U	1600 U	3200 U	1500 U	1300 U	1500 U	1500 U	1600 U	1500 U	1600 U	1400 U	1700 U	1100 U	15000 U	13000 U	1300 U
2,4,6-TRICHLOROPHENOL	NA	NA	380 U	620 U	1300 U	590 U	530 U	600 U	600 U	650 U	600 U	630 U	570 U	670 U	430 U	6100 U	5300 U	530 U
2,4-DICHLOROPHENOL	400	NA	380 U	620 U	1300 U	590 U	530 U	600 U	600 U	650 U	600 U	630 U	570 U	670 U	430 U	6100 U	5300 U	530 U
2,4-DIMETHYLPHENOL	NA	NA	380 UJ	620 U	1300 U	590 U	530 U	600 U	600 U	650 U	600 U	630 U	570 U	670 U	430 U	6100 U	5300 U	530 U
2,4-DINITROPHENOL	200	NA	950 U	1600 UJ	3200 UJ	1500 U	1300 UJ	1500 UJ	1500 UJ	1600 UJ	1500 UJ	1600 U	1400 U	1700 U	1100 UJ	15000 U	13000 UJ	1300 UJ
2,4-DINITROTOLUENE	NA	NA	380 U	620 U	1300 U	590 U	530 U	600 U	600 U	650 U	600 U	630 U	180 J	670 U	430 U	6100 U	5300 U	530 U
2,6-DINITROTOLUENE	1000	NA	380 U	620 U	1300 U	590 U	530 U	600 U	600 U	650 U	600 U	630 U	56 J	670 U	430 U	6100 U	5300 U	530 U
2-CHLORONAPHTHALENE	NA	NA	380 U	620 U	1300 U	590 U	530 U	600 U	600 U	650 U	600 U	630 U	570 U	670 U	430 U	6100 U	5300 U	530 U
2-CHLOROPHENOL	800	NA	380 U	620 U	1300 U	590 U	530 U	600 U	600 U	650 U	600 U	630 U	570 U	670 U	430 U	6100 U	5300 U	530 U
2-METHYLNAPHTHALENE	36400	NA	380 U	77 J	440 J	41 J	130 J	600 U	320 J	650 U	110 J	630 U	37 J	670 U	430 U	340 J	5300 U	110 J
2-METHYLPHENOL	100	NA	380 U	620 U	1300 U	590 U	530 U	600 U	600 U	650 U	600 U	630 U	570 U	670 U	430 U	6100 U	5300 U	530 U
2-NITROANILINE	430	NA	950 U	1600 U	3200 U	1500 U	1300 U	1500 U	1500 U	1600 U	1500 U	1600 U	1400 U	1700 U	1100 U	15000 U	13000 U	1300 U
2-NITROPHENOL	330	NA	380 U	620 U	1300 U	590 U	530 U	600 U	600 U	650 U	600 U	630 U	570 U	670 U	430 U	6100 U	5300 U	530 U
3,3'-DICHLOROBENZIDINE	NA	NA	380 U	620 U	1300 U	590 UJ	530 U	600 UJ	600 UJ	650 UJ	600 U	630 UJ	570 UJ	670 UJ	430 U	6100 UJ	680 UJ	530 U
3-NITROANILINE	500	NA	950 U	1600 U	3200 U	1500 U	1300 U	1500 U	1500 U	1600 U	1500 U	1600 U	1400 U	1700 U	1100 U	15000 U	13000 U	1300 U
4,6-DINITRO-2-METHYLPHENOL	NA	NA	950 U	1600 U	3200 U	1500 U	1300 U	1500 U	1500 U	1600 U	1500 U	1600 U	1400 U	1700 U	1100 U	15000 U	13000 U	1300 U
4-BROMOPHENYL PHENYL ETHER	NA	NA	380 U	620 U	1300 U	590 U	530 U	600 U	600 U	650 U	600 U	630 U	570 U	670 U	430 U	6100 U	5300 U	530 U
4-CHLORO-3-METHYLPHENOL	240	NA	380 U	620 U	1300 U	590 U	530 U	600 U	600 U	650 U	600 U	630 U	570 U	670 U	430 U	6100 U	5300 U	530 U

Table 4 Summary of Results for Surface Sediments (0-6" and 0-1'), Buffalo River Sediment Study 2005

Analyte	Screening Criteria (1)	Screening Criteria (2)	2-695-00-L06 08/23/2005	2-700-00-R01 08/29/2005	2-700-00-L06 08/29/2005	-705-00-R06; 08/29/2005	-705-00-L06; 08/30/2005	2-710-00-R06 08/27/2005	2-710-00-L06 08/27/2005	712-00-L06; 08 08/27/2005	3-713-00-R06 08/29/2005	3-713-00-L06 08/25/2005	2-715-00-R06 08/29/2005	2-715-00-L06 08/25/2005	2-720-00-R06 08/27/2005	2-720-00-L06 08/25/2005	6-723-00-R06 08/27/2005	2-725-00-R06 08/27/2005
4-CHLOROANILINE	220	NA	380 U	620 U	1300 U	590 U	530 U	600 U	600 U	650 U	600 U	630 U	570 U	670 U	430 U	6100 U	5300 U	530 U
4-CHLOROPHENYL PHENYL ETHER	NA	NA	380 U	620 U	1300 U	590 U	530 U	600 U	600 U	650 U	600 U	630 U	570 U	670 U	430 U	6100 U	5300 U	530 U
4-METHYLPHENOL	900	NA	380 U	620 U	140 J	590 U	530 U	600 U	600 U	650 U	600 U	630 U	570 U	670 U	430 U	6100 U	5300 U	530 U
4-NITROANILINE	NA	NA	950 U	1600 U	3200 U	1500 U	1300 U	1500 U	1500 U	1600 U	1500 U	1600 U	1400 U	1700 U	1100 U	15000 U	13000 U	1300 U
4-NITROPHENOL	100	NA	950 U	1600 U	3200 U	1500 U	1300 U	1500 U	1500 U	1600 U	1500 U	1600 U	1400 U	1700 U	1100 U	15000 UJ	13000 U	1300 U
ACENAPHTHENE	50000	NA	380 U	77 J	890 J	39 J	130 J	600 U	130 J	650 U	75 J	630 U	160 J	670 U	430 U	6100 U	1600 J	73 J
ACENAPHTHYLENE	41000	NA	380 U	620 U	230 J	590 U	530 U	600 U	27 J	650 U	600 U	630 U	570 U	670 U	430 U	6100 U	5300 U	530 U
ACETOPHENONE	NA	NA	380 U	620 U	1300 U	590 U	530 U	600 U	600 U	650 U	600 U	630 U	31 J	670 U	22 J	6100 U	5300 U	55 J
ANTHRACENE	50000	NA	380 U	170 J	1400 J+	71 J	180 J	52 J	110 J	36 J	100 J	46 J	900	670 U	430 U	380 J	3600 J	120 J
ATRAZINE	NA	NA	380 U	620 U	1300 U	590 U	530 U	600 U	600 U	650 U	600 U	630 U	570 U	670 U	430 U	6100 U	5300 U	530 U
BENZALDEHYDE	NA	NA	380 UJ	620 UJ	1300 UJ	590 UJ	530 U	600 UJ	600 UJ	650 UJ	600 UJ	96 J	570 UJ	130 J	430 U	6100 UJ	5300 UJ	530 UJ
BENZO(A)ANTHRACENE	224	NA	380 U	**330 J**	**2200 J+**	200 J	**280 J**	200 J	**270 J**	170 J	**290 J**	200 J	**690**	180 J	430 U	**1400 J**	**2500 J**	**250 J**
BENZO(A)PYRENE	61	28.6	380 U	**320 J**	**2100 J+**	**200 J**	**220 J**	**230 J**	**330 J**	**220 J**	**320 J**	**260 J**	**490 J**	**270 J**	430 U	**1600 J**	**2000 J**	**290 J**
BENZO(B)FLUORANTHENE	1100	NA	380 U	530 J	**1700 J+**	360 J	260 J	230 J	400 J	220 J	370 J	350 J	670	330 J	430 U	**2300 J**	**1600 J**	340 J
BENZO(G,H,I)PERYLENE	50000	NA	380 U	170 J	950 J	160 J	150 J	180 J	170 J	190 J	180 J	120 J	180 J	96 J	430 U	1000 J	660 J	170 J
BENZO(K)FLUORANTHENE	1100	NA	380 U	390 J	**2700 J+**	200 J	260 J	320 J	430 J	310 J	480 J	360 J	550 J	410 J	430 U	**2400 J**	**2200 J**	320 J
BIPHENYL	NA	NA	380 U	47 J	130 J	590 U	59 J	600 U	49 J	650 U	28 J	630 U	51 J	670 U	430 U	6100 U	5300 U	28 J
BIS(2-CHLOROETHOXY)METHANE	NA	NA	380 U	620 U	1300 U	590 U	530 U	600 U	600 U	650 U	600 U	630 U	570 U	670 U	430 U	6100 U	5300 U	530 U
BIS(2-CHLOROETHYL) ETHER	NA	0.66	380 U	620 U	1300 U	590 U	530 U	600 U	600 U	650 U	600 U	630 U	570 U	670 U	430 U	6100 U	5300 U	530 U
BIS(2-CHLOROISOPROPYL) ETHER	NA	NA	380 U	620 U	1300 U	590 U	530 U	600 U	600 U	650 U	600 U	630 U	570 U	670 U	430 U	6100 U	5300 U	530 U
BIS(2-ETHYLHEXYL) PHTHALATE	50000	NA	380 UJ	390 J	1400 J+	210 J	120 J	240 J	330 J	240 J	300 J	420 J	250 J	490 J	39 J	2500 J	570 J	210 J
BUTYLBENZYL PHTHALATE	50000	NA	380 U	620 U	1300 U	590 U	530 U	600 U	600 U	650 U	600 U	630 U	570 U	670 U	430 U	6100 U	5300 U	530 U
CAPROLACTAM	NA	NA	380 U	620 U	1300 U	590 U	530 U	600 U	600 U	650 U	600 U	630 UJ	570 U	670 U	430 U	6100 U	5300 U	530 U
CARBAZOLE	NA	NA	380 U	43 J	1300 U	27 J	530 U	34 J	40 J	650 U	52 J	35 J	190 J	670 U	430 U	6100 U	5300 U	36 J
CHRYSENE	400	NA	380 U	**520 J**	**2800 J+**	320 J	370 J	320 J	**470 J**	300 J	**460 J**	370 J	**810**	370 J	55 J	**2500 J**	**3300 J**	**410 J**
DIBENZ(A,H)ANTHRACENE	14	NA	380 U	**35 J**	**320 J**	**44 J**	**40 J**	**53 J**	**71 J**	**54 J**	**46 J**	**51 J**	**53 J**	670 U	430 U	**350 J**	**280 J**	**54 J**
DIBENZOFURAN	6200	NA	380 U	36 J	290 J	590 U	110 J	600 U	30 J	650 U	600 U	630 U	49 J	670 U	430 U	6100 U	1300 J	39 J
DIETHYL PHTHALATE	7100	NA	380 UJ	620 U	1300 U	590 U	530 U	600 U	600 U	650 U	600 U	630 U	570 U	670 U	430 U	6100 U	5300 U	530 U
DIMETHYL PHTHALATE	2000	NA	380 U	620 U	1300 U	590 U	530 U	600 U	600 U	650 U	600 U	630 U	570 U	670 U	430 U	6100 U	5300 U	530 U
DI-N-BUTYL PHTHALATE	8100	NA	380 U	620 U	1300 U	32 J	530 U	600 U	600 U	650 U	600 U	50 J	570 U	670 U	430 U	6100 U	5300 U	530 U
DI-N-OCTYL PHTHALATE	50000	NA	380 U	620 UJ	1300 U	590 U	530 U	600 U	600 U	650 U	600 U	630 U	570 U	44 J	430 U	6100 U	5300 U	530 U
FLUORANTHENE	50000	NA	380 U	1000	5500 J+	620	740	630	820	530 J	920	550 J	1300	450 J	430 U	4200 J	6400	790
FLUORENE	50000	NA	380 U	110 J	1200 J	49 J	140 J	36 J	88 J	650 U	72 J	29 J	78 J	36 J	430 U	6100 U	3400 J	96 J
HEXACHLOROBENZENE	410	NA	380 U	620 U	1300 U	590 U	530 U	600 U	600 U	650 U	600 U	630 U	570 U	670 U	430 U	6100 U	5300 U	530 U
HEXACHLOROBUTADIENE	NA	6.6	380 U	620 U	1300 U	590 U	530 U	600 U	600 U	650 U	600 U	630 U	570 U	670 U	430 U	6100 U	5300 U	530 U
HEXACHLOROCYCLOPENTADIENE	NA	NA	380 U	620 UJ	1300 UJ	590 UJ	530 UJ	600 UJ	600 UJ	650 UJ	600 UJ	630 U	570 UJ	670 UJ	430 UJ	6100 UJ	5300 UJ	530 UJ
HEXACHLOROETHANE	NA	NA	380 U	620 U	1300 U	590 U	530 U	600 U	600 U	650 U	600 U	630 U	570 U	670 U	430 U	6100 U	5300 U	530 U
INDENO(1,2,3-CD)PYRENE	3200	NA	380 U	140 J	980 J	130 J	120 J	160 J	170 J	170 J	160 J	100 J	160 J	84 J	430 U	880 J	780 J	160 J
ISOPHORONE	4400	NA	380 U	620 U	1300 U	590 U	530 U	600 U	600 U	650 U	600 U	630 U	570 U	670 U	430 U	6100 U	5300 U	530 U
NAPHTHALENE	13000	NA	380 U	500 J	880 J	590 U	490 J	600 U	160 J	650 U	42 J	630 U	110 J	670 U	430 U	6100 U	1100 J	100 J
NITROBENZENE	200	NA	380 U	620 U	1300 U	590 U	530 U	600 U	600 U	650 U	600 U	630 U	570 U	670 U	430 U	6100 U	**580 J**	530 U
N-NITROSO-DI-N-PROPYLAMINE	NA	NA	380 U	620 U	1300 U	590 U	530 U	600 U	600 U	650 U	600 U	630 U	570 U	670 U	430 U	6100 U	5300 U	530 U
N-NITROSODIPHENYLAMINE	NA	NA	380 U	620 U	1300 U	590 U	530 U	600 U	600 U	650 U	600 U	630 U	320 J	670 U	430 U	6100 U	5300 U	110 J
PENTACHLOROPHENOL	1000	NA	950 U	1600 U	3200 U	1500 U	1300 U	1500 U	1500 U	1600 U	1500 U	1600 U	1400 U	1700 U	1100 U	15000 U	13000 U	1300 U
PHENANTHRENE	50000	NA	380 U	510 J	3600 J+	320 J	520 J	300 J	560 J	230 J	530 J	280 J	700	230 J	430 U	2200 J	1100 J	440 J
PHENOL	30	NA	380 U	620 U	1300 U	590 U	530 U	600 U	600 U	650 U	600 U	630 U	570 U	670 U	430 U	6100 U	5300 U	530 U
PYRENE	50000	NA	380 U	1100	5100 J+	630	800	500 J	800	450 J	920	670	1800	610 J	20 J	4500 J	5600	690

(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 Values that exceed this criteria are shaded gray and bolded.

(2) New York State Department of Environmental Conservation, Division of Fish, Wildlife and Marine Resources, 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. Values that exceed this criteria are shaded teal, with white font, bolded and italics.*

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

Table 4 Summary of Results for Surface Sediments (0-6" and 0-1'), Buffalo River Sediment Study 2005

Analyte	Screening Criteria [1]	Screening Criteria [2]	2-725-00-L06 08/25/2005	3-728-00-R06 08/27/2005	3-728-00-L06 08/25/2005	2-730-00-R06 08/27/2005	2-730-00-L06 08/25/2005	3-733-00-R06 08/26/2005	3-733-00-L06 08/25/2005	2-735-00-R06 08/26/2005	2-735-00-L06 08/26/2005	2-740-00-R06 08/24/2005	2-740-00-L06 08/24/2005	2-745-00-R06 08/24/2005	-745-00-L06; 08/24/2005	2-750-00-R06 08/26/2005	2-750-00-L06 08/26/2005	4-753-00-L06 08/26/2005
415.1_LK (mg/Kg)																		
Total Organic Carbon	NA	NA	30000	20700 J	23600	20400 J	22700	18700	22400	25600	23100	31700	27400 J	22200 J	19700 J	28000	22900	22200
6010B (mg/Kg)																		
ARSENIC	7.5	6	8.9	8.8	9.5	27.3	8.1	11.8	8.4	9.2	9.0	9.0 J	10.2 J	7.9 J	8.2 J	9.3	7.7	7.7
BARIUM	300	NA	124	111	130	133	109	125	116	118	110	120	123	95.8	93.0	103	96.7	95.4
CADMIUM	1	0.6	0.16	0.39	0.11 U	0.90	0.11 U	1.8	0.12	1.6	1.2	0.17	0.11 U	0.092 U	0.10 U	1.7	1.2	1.5
CHROMIUM	10	26	21.9	39.1 J	21.8	64.2 J	16.7	67.0	25.1	20.2	16.7	21.8 J	19.5 J	17.0 J	14.9 J	25.6	16.9	19.7
COPPER	25	16	44.2	38.0	45.4	86.4	37.5	55.8	46.1	39.5	35.6	39.4 J	39.7	32.6	30.1	45.6	37.6	41.3
IRON	2000	20000	30200 J+	29900 J	31600 J+	58200 J	26200 J+	33900	31400 J+	29600	26400	26000 J+	29700 J+	23600 J+	23400 J+	26600	24200	27400
LEAD	NA	31	35.4 J	28.6 J	34.9 J	81.6 J	26.9 J	103 J	31.6 J	27.6 J	25.2 J	40.8 J-	25.9 J	24.2 J	23.0 J	34.8 J	36.4 J	31.2 J
MANGANESE	NA	460	749 J+	655 J	750 J+	892 J	717 J+	819	679 J+	770	724	652 J-	780 J+	572 J+	598 J+	569	519	474
NICKEL	13	16	32.3	27.1	33.9	27.8	28.7	32.3	32.0	31.0	27.4	28.7	31.4 J	24.3 J	23.9 J	27.3	25.7	28.8
SELENIUM	2	NA	0.69 UJ	1.3 J	0.73 UJ	1.1 J	0.71 UJ	0.67 J-	0.71 UJ	1.3 J-	0.94 J-	0.70 U	0.74 U	0.61 U	0.70	1.6 J-	1.1 J-	0.90 J-
SILVER	NA	1	0.33 U	0.31 U	0.35 U	0.30 U	0.34 U	0.38	0.34 U	0.32 U	0.27 U	0.33 U	0.35 U	0.29 U	0.32 U	0.30	0.29	0.30
ZINC	20	120	145	127 J	145	273 J	109	153 J	142	125 J	112 J	129	118 J	98.7 J	90.1 J	139 J	119 J	124 J
MERCURY	0.1	0.15	0.11 J	0.045	0.070 J	0.43	0.053 J	0.43 J	0.069 J	0.086 J	0.040 J	0.26	0.083	0.062	0.054	0.26 J	0.066 J	0.062 J
8081A (ug/Kg)																		
2,4'-DDD	NA	0.22	6.7 U	5.8 U	6.2 U	5.6 U	6.2 U	5.8 U	6.3 U	6.5 U	5.8 U	5.9 U	7.1 U	5.7 U	5.9 U	5.7 U	5.2 U	5.5 U
2,4'-DDE	NA	0.22	6.7 U	5.8 U	6.2 U	5.6 U	6.2 U	5.8 U	6.3 U	6.5 U	5.8 U	5.9 U	7.1 U	5.7 U	5.9 U	5.7 U	5.2 U	5.5 U
2,4'-DDT	NA	0.22	6.7 U	5.8 U	6.2 U	5.6 U	6.2 U	5.8 U	6.3 U	6.5 U	5.8 U	5.9 U	7.1 U	5.7 U	5.9 U	5.7 U	5.2 U	5.5 U
4,4'-DDD	2900	0.22	6.7 U	5.8 U	6.2 U	5.6 U	6.2 U	5.8 U	6.3 U	6.5 U	5.8 U	5.9 U	7.1 UJ	5.7 UJ	5.9 UJ	5.7 U	5.2 U	5.5 U
4,4'-DDE	2100	0.22	11	5.8 U	6.2 U	5.6 U	6.2 U	5.8 U	6.3 U	6.5 U	5.8 U	5.9 U	7.1 U	5.7 U	5.9 U	5.7 U	5.2 U	5.5 U
4,4'-DDT	2100	0.22	8.8	5.8 U	6.2 U	5.6 U	6.2 U	5.8 U	6.3 U	6.5 U	5.8 U	5.9 U	7.1 U	5.7 U	5.9 U	5.7 U	5.2 U	5.5 U
ALDRIN	41	2.2	3.3 U	2.9 U	3.1 U	2.8 U	3.1 U	2.9 U	3.1 U	3.3 U	2.9 U	3.0 U	3.5 U	2.9 U	2.9 U	2.9 U	2.6 U	2.7 U
ALPHA-BHC	110	1.32	3.3 U	2.9 U	3.1 U	2.8 U	3.1 U	2.9 U	3.1 U	3.3 U	2.9 U	3.0 U	3.5 U	2.9 U	2.9 U	2.9 U	2.6 U	2.7 U
ALPHA-CHLORDANE	NA	0.022	3.3 U	2.9 U	3.1 U	2.8 U	3.1 U	2.9 U	3.1 U	3.3 U	2.9 U	3.0 U	3.5 U	2.9 U	2.9 U	2.9 U	2.6 U	2.7 U
BETA-BHC	200	1.32	3.3 U	2.9 U	3.1 U	2.8 U	3.1 U	2.9 U	3.1 U	3.3 U	2.9 U	3.0 U	3.5 U	2.9 U	2.9 U	2.9 U	2.6 U	2.7 U
DELTA-BHC	300	1.32	4.5	2.9 U	3.1 U	2.8 U	3.2	2.9 U	3.1 U	3.3 U	2.9 U	3.0 U	4.0	4.2	2.9 U	2.9 U	2.6 U	2.7 U
DIELDRIN	44	2.2	6.7 U	5.8 U	6.2 U	5.6 U	6.2 U	5.8 U	6.3 U	6.5 U	5.8 U	5.9 U	7.1 U	5.7 U	5.9 U	5.7 U	5.2 U	5.5 U
ENDOSULFAN I	900	NA	3.3 U	2.9 U	3.1 U	2.8 U	3.1 U	2.9 U	3.1 U	3.3 U	2.9 U	3.0 U	3.5 U	2.9 U	2.9 U	2.9 U	2.6 U	2.7 U
ENDOSULFAN II	900	NA	6.7 U	5.8 U	6.2 U	5.6 U	6.2 U	5.8 U	6.3 U	6.5 U	5.8 U	5.9 U	7.1 U	5.7 U	5.9 U	5.7 U	5.2 U	5.5 U
ENDOSULFAN SULFATE	1000	NA	6.7 U	5.8 U	6.2 U	5.6 U	6.2 U	5.8 U	6.3 U	6.5 U	5.8 U	5.9 U	7.1 U	5.7 U	5.9 U	5.7 U	5.2 U	5.5 U
ENDRIN	100	17.6	6.7 U	5.8 U	6.2 U	5.6 U	6.2 U	5.8 U	6.3 U	6.5 U	5.8 U	5.9 U	7.1 U	5.7 U	5.9 U	5.7 U	5.2 U	5.5 U
ENDRIN ALDEHYDE	NA	NA	6.7 U	5.8 U	6.2 U	5.6 U	6.2 U	5.8 U	6.3 U	6.5 U	5.8 U	5.9 U	7.1 U	5.7 U	5.9 U	5.7 U	5.2 U	5.5 U
GAMMA-BHC	60	1.32	3.3 U	2.9 U	3.1 U	2.8 U	3.1 U	2.9 U	3.1 U	3.3 U	2.9 U	3.0 U	3.5 U	2.9 U	2.9 U	2.9 U	2.6 U	2.7 U
GAMMA-CHLORDANE	540	0.022	3.3 U	2.9 U	3.1 U	2.8 U	3.1 U	2.9 U	3.1 U	3.3 U	2.9 U	3.0 U	3.5 U	2.9 U	2.9 U	2.9 U	2.6 U	2.7 U
HEPTACHLOR	100	0.0176	3.3 U	2.9 U	3.1 U	2.8 U	3.1 U	2.9 U	3.1 U	3.3 U	2.9 U	3.0 U	3.5 U	2.9 U	2.9 U	2.9 U	2.6 U	2.7 U
HEPTACHLOR EPOXIDE	20	0.0176	3.3 U	2.9 UJ	3.1 U	2.8 UJ	3.1 U	2.9 U	3.1 U	3.3 U	2.9 U	3.0 U	3.5 U	2.9 U	2.9 U	2.9 U	2.6 U	2.7 U
METHOXYCHLOR	NA	NA	33 U	29 U	31 U	28 U	31 U	29 U	31 U	33 U	29 U	30 U	35 U	29 U	29 U	29 U	26 U	27 U
8082 (ug/Kg)																		
AROCLOR 1242	1000	0.0176	100	29 U	31 U	130	31 U	29 U	31 U	33 U	29 U	30 U	35 U	29 U	29 U	92	26 U	27 U
AROCLOR 1248	1000	0.0176	33 U	29 U	31 U	28 U	31 U	29 U	31 U	33 U	29 U	30 U	35 U	29 U	29 U	29 U	26 U	27 U
AROCLOR 1254	1000	0.0176	99	29 U	31 U	96	31 U	29 U	31 U	33 U	29 U	41	35 U	29 U	29 U	130 J	26 U	27 U
AROCLOR 1260	1000	0.0176	66 J-	29 U	31 UJ	73	31 UJ	29 U	31 UJ	33 U	29 U	42	35 U	29 U	29 U	39	26 U	27 U
AROCLOR 1262	1000	0.0176	33 U	29 U	31 U	28 U	31 U	29 U	31 U	33 U	29 U	30 U	35 U	29 U	29 U	29 U	26 U	27 U
AROCLOR 1268	1000	0.0176	33 U	29 U	31 U	28 U	31 U	29 U	31 U	33 U	29 U	30 U	35 U	29 U	29 U	29 U	26 U	27 U
8270C (ug/Kg)																		
2,4,5-TRICHLOROPHENOL	100	NA	1700 U	1500 U	1500 U	2800 U	1500 U	1500 U	1600 U	1600 U	1500 U	1500 U	1800 U	1400 U	1500 U	1400 U	1300 U	1400 U
2,4,6-TRICHLOROPHENOL	NA	NA	660 U	580 U	610 U	1100 U	610 U	580 U	620 U	650 U	580 U	590 U	700 U	570 U	580 U	570 U	520 U	540 U
2,4-DICHLOROPHENOL	400	NA	660 U	580 U	610 U	1100 U	610 U	580 U	620 U	650 U	580 U	590 U	700 U	570 U	580 U	570 U	520 U	540 U
2,4-DIMETHYLPHENOL	NA	NA	660 U	580 U	610 U	1100 U	610 U	580 U	620 U	650 U	580 U	590 U	700 U	570 U	580 U	570 U	520 U	540 U
2,4-DINITROPHENOL	200	NA	1700 U	1500 UJ	100 J	2800 UJ	1500 U	1500 U	1600 U	1600 U	1500 U	1500 U	1800 U	1400 U	1500 U	1400 U	1300 U	1400 U
2,4-DINITROTOLUENE	NA	NA	660 U	580 U	610 U	430 J	610 U	580 U	620 U	650 U	580 U	590 U	700 U	570 U	580 U	570 U	520 U	540 U
2,6-DINITROTOLUENE	1000	NA	660 U	580 U	610 U	400 J	610 U	580 U	620 U	650 U	580 U	590 U	700 U	570 U	580 U	570 U	520 U	540 U
2-CHLORONAPHTHALENE	NA	NA	660 U	580 U	610 U	1100 U	610 U	580 U	620 U	650 U	580 U	590 U	700 U	570 U	580 U	570 U	520 U	540 U
2-CHLOROPHENOL	800	NA	660 U	580 U	610 U	1100 U	610 U	580 U	620 U	650 U	580 U	590 U	700 U	570 U	580 U	570 U	520 U	540 U
2-METHYLNAPHTHALENE	36400	NA	660 U	580 U	610 U	1100 U	64 J	150 J	620 U	41 J	580 U	39 J	700 U	29 J	580 U	32 J	520 U	540 U
2-METHYLPHENOL	100	NA	660 U	580 U	610 U	1100 U	610 U	580 U	620 U	650 U	580 U	590 U	700 U	570 U	580 U	570 U	520 U	540 U
2-NITROANILINE	430	NA	1700 U	1500 U	1500 U	2800 U	1500 U	1500 U	1600 U	1600 U	1500 U	1500 U	1800 U	1400 U	1500 U	1400 U	1300 U	1400 U
2-NITROPHENOL	330	NA	660 U	580 U	610 U	1100 U	610 U	580 U	620 U	650 U	580 U	590 U	700 U	570 U	580 U	570 U	520 U	540 U
3,3'-DICHLOROBENZIDINE	NA	NA	660 UJ	580 UJ	610 UJ	1100 UJ	610 UJ	580 U	620 UJ	650 U	580 U	590 UJ	700 UJ	570 UJ	580 UJ	570 U	520 U	540 U
3-NITROANILINE	500	NA	1700 U	1500 U	1500 U	2800 U	1500 U	1500 U	1600 U	1600 U	1500 U	1500 U	1800 U	1400 U	1500 U	1400 U	1300 U	1400 U
4,6-DINITRO-2-METHYLPHENOL	NA	NA	1700 U	1500 U	1500 U	2800 U	1500 U	1500 U	1600 U	1600 U	1500 U	1500 U	1800 U	1400 U	1500 U	1400 U	1300 U	1400 U
4-BROMOPHENYL PHENYL ETHER	NA	NA	660 U	580 U	610 U	1100 U	610 U	580 U	620 U	650 U	580 U	590 U	700 U	570 U	580 U	570 U	520 U	540 U
4-CHLORO-3-METHYLPHENOL	240	NA	660 U	580 U	610 U	1100 U	610 U	580 U	620 U	650 U	580 U	590 U	700 U	570 U	580 U	570 U	520 U	540 U

Table 4 Summary of Results for Surface Sediments (0-6" and 0-1'), Buffalo River Sediment Study 2005

Analyte	Screening Criteria (1)	Screening Criteria (2)	2-725-00-L06 08/25/2005	3-728-00-R06 08/27/2005	3-728-00-L06 08/25/2005	2-730-00-R06 08/27/2005	2-730-00-L06 08/25/2005	3-733-00-R06 08/26/2005	3-733-00-L06 08/25/2005	2-735-00-R06 08/26/2005	2-735-00-L06 08/26/2005	2-740-00-R06 08/24/2005	2-740-00-L06 08/24/2005	2-745-00-R06 08/24/2005	-745-00-L06; 08/24/2005	2-750-00-R06 08/26/2005	2-750-00-L06 08/26/2005	4-753-00-L06 08/26/2005
4-CHLOROANILINE	220	NA	660 U	580 U	610 U	1100 U	610 U	580 U	620 U	650 U	580 U	590 U	700 U	570 U	580 U	570 U	520 U	540 U
4-CHLOROPHENYL PHENYL ETHER	NA	NA	660 U	580 U	610 U	1100 U	610 U	580 U	620 U	650 U	580 U	590 U	700 U	570 U	580 U	570 U	520 U	540 U
4-METHYLPHENOL	900	NA	660 U	580 U	610 U	1100 U	610 U	330 J	620 U	67 J	580 U	590 U	700 U	570 U	580 U	570 U	520 U	540 U
4-NITROANILINE	NA	NA	1700 U	1500 U	1500 U	2800 U	1500 U	1500 U	1600 U	1600 U	1500 U	1500 U	1800 U	1400 U	1500 U	1400 U	1300 U	1400 U
4-NITROPHENOL	100	NA	1700 U	1500 U	1500 U	2800 U	1500 U	1500 UJ	1600 U	1600 U	1500 U	1500 U	1800 UJ	1400 U	1500 UJ	1400 U	1300 U	1400 U
ACENAPHTHENE	50000	NA	31 J	580 U	77 J	190 J	30 J	170 J	68 J	100 J	580 U	99 J	700 U	46 J	580 U	74 J	33 J	27 J
ACENAPHTHYLENE	41000	NA	660 U	580 U	50 J	1100 U	610 U	580 U	620 U	650 U	580 U	590 U	700 U	570 U	580 U	570 U	520 U	540 U
ACETOPHENONE	NA	NA	660 U	580 U	610 UJ	1100 U	610 U	190 J	620 U	650 U	580 U	590 U	700 U	570 U	580 U	570 U	520 U	540 U
ANTHRACENE	50000	NA	59 J	43 J	180 J	650 J	37 J	230 J	91 J	54 J	41 J	140 J	700 U	56 J	31 J	130 J	75 J	60 J
ATRAZINE	NA	NA	660 U	580 U	610 U	1100 U	610 U	580 U	620 U	650 U	580 U	590 U	700 U	570 U	580 U	570 U	520 U	540 U
BENZALDEHYDE	NA	NA	160 J	580 UJ	280 J	1100 UJ	110 J	74 J	230 J	68 J	94 J	590 UJ	700 UJ	570 UJ	580 UJ	170 J	110 J	150 J
BENZO(A)ANTHRACENE	224	NA	**230 J**	160 J	**540 J**	**890 J**	130 J	**470 J**	**360 J**	210 J	200 J	**380 J**	100 J	170 J	130 J	**610**	**310 J**	**380 J**
BENZO(A)PYRENE	61	26.6	**290 J**	**190 J**	**600 J**	**950 J**	**150 J**	**490 J**	**440 J**	**250 J**	**230 J**	**450 J**	**110 J**	**200 J**	**140 J**	**630**	**330 J**	**360 J**
BENZO(B)FLUORANTHENE	1100	NA	350 J	220 J	580 J	**1200**	180 J	**1200 J**	560 J	360 J	280 J	470 J	180 J	310 J	140 J	**1500 J+**	390 J	530 J
BENZO(G,H,I)PERYLENE	50000	NA	200 J	100 J	250 J	350 J	110 J	230 J	210 J	150 J	180 J	280 J	53 J	100 J	130 J	240 J	200 J	180 J
BENZO(K)FLUORANTHENE	1100	NA	290 J	290 J	970	860 J	180 J	580 UJ	650	320 J	240 J	650	110 J	210 J	150 J	570 U	320 J	440 J
BIPHENYL	NA	NA	660 U	580 U	30 J	88 J	610 U	55 J	30 J	43 J	580 U	34 J	700 U	570 U	580 U	570 U	520 U	540 U
BIS(2-CHLOROETHOXY)METHANE	NA	NA	660 U	580 U	610 U	1100 U	610 U	580 U	620 U	650 U	580 U	590 U	700 U	570 U	580 U	570 U	520 U	540 U
BIS(2-CHLOROETHYL) ETHER	NA	0.66	660 U	580 U	610 U	1100 U	610 U	580 U	620 U	650 U	580 U	590 U	700 U	570 U	580 U	570 U	520 U	540 U
BIS(2-CHLOROISOPROPYL) ETHER	NA	NA	660 U	580 U	610 U	1100 U	610 U	580 U	620 U	650 U	580 U	590 U	700 U	570 U	580 U	570 U	520 U	540 U
BIS(2-ETHYLHEXYL) PHTHALATE	50000	NA	210 J	240 J	350 J	330 J	200 J	380 J	620 J	350 J	250 J	490 J	95 J	220 J	140 J	680 J+	230 J	360 J
BUTYLBENZYL PHTHALATE	50000	NA	660 U	580 U	610 U	1100 U	610 U	580 U	620 U	650 U	580 U	590 U	700 U	570 U	580 U	38 J	520 U	540 U
CAPROLACTAM	NA	NA	660 UJ	580 U	610 UJ	1100 U	610 UJ	580 U	620 UJ	650 U	580 U	590 UJ	700 U	570 U	580 U	570 U	520 U	540 U
CARBAZOLE	NA	NA	34 J	29 J	610 U	240 J	610 U	100 J	61 J	51 J	36 J	43 J	700 U	50 J	580 U	46 J	35 J	34 J
CHRYSENE	400	NA	360 J	280 J	**750**	**1100 J**	240 J	**670**	**700**	390 J	340 J	**630**	160 J	280 J	240 J	**930**	**450 J**	**550**
DIBENZ(A,H)ANTHRACENE	14	NA	**85 J**	**37 J**	**110 J**	**130 J**	**40 J**	**95 J**	**39 J**	**46 J**	**35 J**	**110 J**	700 U	570 U	**35 J**	**92 J**	**67 J**	**48 J**
DIBENZOFURAN	6200	NA	660 U	580 U	610 U	110 J	610 U	79 J	36 J	82 J	580 U	55 J	700 U	30 J	580 U	41 J	520 U	540 U
DIETHYL PHTHALATE	7100	NA	660 U	580 U	610 U	1100 U	610 U	580 U	620 U	650 U	580 U	590 U	700 U	570 U	580 U	570 U	520 U	540 U
DIMETHYL PHTHALATE	2000	NA	660 U	580 U	610 U	1100 U	610 U	580 U	620 U	650 U	580 U	590 U	700 U	570 U	580 U	570 U	520 U	540 U
DI-N-BUTYL PHTHALATE	8100	NA	660 U	580 U	610 U	1100 U	610 U	580 U	620 U	650 U	580 U	590 U	700 U	570 U	580 U	570 U	520 U	540 U
DI-N-OCTYL PHTHALATE	50000	NA	660 U	580 U	610 U	1100 U	610 U	31 J	37 J	39 J	580 U	590 U	700 U	570 U	580 U	570 U	520 U	33 J
FLUORANTHENE	50000	NA	660 J	490 J	1200	2100	410 J	1400	910	530 J	550 J	970	330 J	580	380 J	1200	710	720
FLUORENE	50000	NA	47 J	31 J	250 J	340 J	29 J	130 J	88 J	75 J	31 J	99 J	700 U	58 J	580 U	82 J	44 J	38 J
HEXACHLOROBENZENE	410	NA	660 U	580 U	610 U	1100 U	610 U	580 U	620 U	650 U	580 U	590 U	700 U	570 U	580 U	570 U	520 U	540 U
HEXACHLOROBUTADIENE	NA	6.6	660 U	580 U	610 U	1100 U	610 U	580 U	620 U	650 U	580 U	590 U	700 U	570 U	580 U	570 U	520 U	540 U
HEXACHLOROCYCLOPENTADIENE	NA	NA	660 U	580 UJ	610 U	1100 UJ	610 U	580 UJ	620 U	650 U	580 U	590 U	700 UJ	570 UJ	580 U	570 U	520 U	540 U
HEXACHLOROETHANE	NA	NA	660 U	580 U	610 U	1100 U	610 U	580 U	620 U	650 U	580 U	590 U	700 U	570 U	580 U	570 U	520 U	540 U
INDENO(1,2,3-CD)PYRENE	3200	NA	160 J	95 J	180 J	340 J	95 J	210 J	140 J	120 J	150 J	250 J	48 J	87 J	110 J	240 J	200 J	180 J
ISOPHORONE	4400	NA	660 U	580 U	610 U	1100 U	610 U	580 U	620 U	650 U	580 U	590 U	700 U	570 U	580 U	570 U	520 U	540 U
NAPHTHALENE	13000	NA	660 U	580 U	47 J	320 J	610 U	390 J	620 U	270 J	580 U	590 U	700 U	28 J	580 U	570 U	520 U	540 U
NITROBENZENE	200	NA	660 U	580 U	610 U	1100 U	610 U	580 U	620 U	650 U	580 U	590 U	700 U	570 U	580 U	570 U	520 U	540 U
N-NITROSO-DI-N-PROPYLAMINE	NA	NA	660 U	580 U	610 U	1100 U	610 U	580 U	620 U	650 U	580 U	590 U	700 U	570 U	580 U	570 U	520 U	540 U
N-NITROSODIPHENYLAMINE	NA	NA	660 U	580 U	610 U	780 J	610 U	860	620 U	650 U	580 U	590 U	700 U	570 U	580 U	570 U	520 U	540 U
PENTACHLOROPHENOL	1000	NA	1700 U	1500 U	1500 U	2800 U	1500 U	1500 U	1600 U	1600 U	1500 U	1500 U	1800 U	1400 U	1500 U	1400 U	1300 U	1400 U
PHENANTHRENE	50000	NA	300 J	250 J	510 J	1400	230 J	610	400 J	330 J	270 J	630	170 J	360 J	190 J	700 J+	400 J	340 J
PHENOL	30	NA	660 U	580 U	610 U	1100 U	610 U	580 U	620 U	650 U	580 U	590 U	700 U	570 U	580 U	570 U	520 U	540 U
PYRENE	50000	NA	650 J	450 J	1500	1900	410 J	1300	1200	630 J	600 J	890	310 J	560 J	340 J	1400 J	850 J	890 J

(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 Values that exceed this criteria are shaded gray and bolded.

(2) New York State Department of Environmental Conservation, Division of Fish, Wildlife and Marine Resources, 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. Values that exceed this criteria are shaded teal, with white font, bolded and italics *

Key:

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

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

Table 4 Summary of Results for Surface Sediments (0-6" and 0-1'), Buffalo River Sediment Study 2005

Analyte	Screening Criteria [1]	Screening Criteria [2]	2-755-00-R06 08/26/2005	2-755-00-L06 08/26/2005	4-758-00-L06 08/25/2005	2-760-00-L06 08/25/2005	2-760-00-R06 08/25/2005	4-763-00-L06 08/25/2005	2-765-00-R06 08/25/2005	2-765-00-L06 08/25/2005	3-768-00-R06 08/24/2005	3-768-00-L06 08/24/2005	2-770-00-R06 08/24/2005	2-770-00-L06 08/24/2005	3-773-00-R06 08/24/2005	3-773-00-L06 08/24/2005	2-775-00-R06 08/22/2005	2-775-00-L06 08/22/2005
415.1_LK (mg/Kg)																		
Total Organic Carbon	NA	NA	27300	29300	25500	24600	25300 J	27700 J	22200 J	32900 J	22100	6860	26700	4620	18300	24600	4060	27000
6010B (mg/Kg)																		
ARSENIC	7.5	6	8.0	8.6	6.4	8.4	8.1 J	10.6 J	7.7 J	12.2 J	6.8 J	2.6 J	7.5 J	7.5 J	4.9 J	9.0 J	3.0 J	8.4 J
BARIUM	300	NA	116	110	104	107	104	120	79.7	141	77.2	16.7	97.3	21.9	66.2	114	47.5	96.4
CADMIUM	1	0.6	1.4	1.3	0.23	0.091 U	0.10 U	0.090 U	0.091 U	0.12 U	0.11	0.054 U	0.12	0.33	0.082 U	0.10	0.088	0.30
CHROMIUM	10	26	18.9	18.2	17.6	18.0	15.0 J	21.0 J	11.2 J	22.7 J	14.8 J	6.2 J	13.4 J	8.0 J	12.2 J	18.8 J	7.4 J	14.3 J
COPPER	25	16	37.7	40.4	39.5	37.9	33.5	43.4	23.1	43.5	32.6 J	12.2 J	33.8 J	19.1 J	22.2 J	42.8 J	15.8 J	33.1 J
IRON	2000	20000	28100	25600	22100 J+	25900 J+	22100 J+	29600 J+	18500 J+	34900 J+	20100 J+	10700 J+	20000 J+	14900 J+	15200 J+	27900 J+	11500 J	23000 J
LEAD	NA	31	27.8 J	32.5 J	35.1 J	29.0 J	22.6 J	31.6 J	18.1 J	33.5 J	30.3 J-	5.8 J-	30.3 J-	12.1 J-	34.2 J-	29.8 J-	117 J	22.4 J
MANGANESE	NA	460	669	685	465 J+	615 J+	685 J+	680 J+	587 J+	955 J+	478 J-	206 J-	572 J-	128 J-	377 J-	691 J-	166 J	538 J
NICKEL	13	16	29.0	27.4	25.2	29.0	24.5 J	31.6 J	18.5 J	36.7 J	22.2	13.1	22.8	23.2	18.1	31.4	11.6	24.8
SELENIUM	2	NA	1.4 J-	0.81 J-	0.57 UJ	0.61 UJ	0.68 U	0.60 U	0.61 U	0.82 U	0.61 U	0.36 U	0.59 U	0.45 U	0.54 U	0.64 U	0.43 UJ	0.70 UJ
SILVER	NA	1	0.30 U	0.31 U	0.27 U	0.29 U	0.32 U	0.29 U	0.29 U	0.39 U	0.29 U	0.17 U	0.28 U	0.21 U	0.26 U	0.30 U	0.21 U	0.33 U
ZINC	20	120	122 J	132 J	128	123	88.8 J	140 J	70.7 J	145 J	107	44.6	103	62.7	86.7	133	58.3 J	95.3 J
MERCURY	0.1	0.15	0.079 J	0.057 J	0.089 J	0.078 J	0.36	0.052	0.047	0.099	0.12	0.016 U	0.052	0.020 U	0.024 U	0.035	0.018 U	0.032 U
8081A (ug/Kg)																		
2,4'-DDD	NA	0.22	5.7 U	6.1 U	5.7 U	5.9 U	6.2 U	6.5 U	5.6 U	8.3 U	5.4 U	3.6 U	6.4 U	4.2 U	5.1 U	6.4 U	3.8 U	7.0 U
2,4'-DDE	NA	0.22	5.7 U	6.1 U	5.7 U	5.9 U	6.2 U	6.5 U	5.6 U	8.3 U	5.4 U	3.6 U	6.4 U	4.2 U	5.1 U	6.4 U	3.8 U	7.0 U
2,4'-DDT	NA	0.22	5.7 U	6.1 U	5.7 U	5.9 U	6.2 U	6.5 U	5.6 U	8.3 U	5.4 U	3.6 U	6.4 U	4.2 U	5.1 U	6.4 U	3.8 U	7.0 U
4,4'-DDD	2900	0.22	5.7 U	6.1 U	5.7 U	5.9 U	6.2 U	6.5 U	5.6 UJ	8.3 UJ	5.4 U	3.6 U	6.4 U	4.2 U	5.1 U	6.4 U	3.8 U	7.0 U
4,4'-DDE	2100	0.22	5.7 U	6.1 U	5.7 U	5.9 U	6.2 U	6.5 U	5.6 U	8.3 U	5.4 U	3.6 U	6.4 U	4.2 U	5.1 U	6.4 U	3.8 U	7.0 U
4,4'-DDT	2100	0.22	5.7 U	6.1 U	5.7 U	5.9 U	6.2 U	6.5 U	5.6 U	8.3 U	5.4 U	3.6 U	6.4 U	4.2 U	5.1 U	6.4 U	3.8 U	7.0 U
ALDRIN	41	2.2	2.8 U	3.0 U	2.9 U	3.0 U	3.1 U	3.3 U	2.8 U	4.2 U	2.7 U	1.8 U	3.2 U	2.1 U	2.6 U	3.2 U	1.9 U	3.5 U
ALPHA-BHC	110	1.32	2.8 U	3.0 U	2.9 U	3.0 U	3.1 U	3.3 U	2.8 U	4.2 U	2.7 U	1.8 U	3.2 U	2.1 U	2.6 U	3.2 U	1.9 U	3.5 U
ALPHA-CHLORDANE	NA	0.022	2.8 U	3.0 U	2.9 U	3.0 U	3.1 U	3.3 U	2.8 U	4.2 U	2.7 U	1.8 U	3.2 U	2.1 U	2.6 U	3.2 U	1.9 U	3.5 U
BETA-BHC	200	1.32	2.8 U	3.0 U	2.9 U	3.0 U	3.1 U	3.3 U	2.8 U	4.2 U	2.7 U	1.8 U	3.2 U	2.1 U	2.6 U	3.2 U	1.9 U	3.5 U
DELTA-BHC	300	1.32	2.8 U	3.0 U	2.9 U	3.0 U	3.1 U	3.3 U	2.8 U	4.2 U	2.7 U	1.8 U	3.2 U	2.1 U	2.6 U	3.2 U	1.9 U	3.5 U
DIELDRIN	44	2.2	5.7 U	6.1 U	5.7 U	5.9 U	6.2 U	6.5 U	5.6 U	8.3 U	5.4 U	3.6 U	6.4 U	4.2 U	5.1 U	6.4 U	3.8 U	7.0 U
ENDOSULFAN I	900	NA	2.8 U	3.0 U	2.9 U	3.0 U	3.1 U	3.3 U	2.8 U	4.2 U	2.7 U	1.8 U	3.2 U	2.1 U	2.6 U	3.2 U	1.9 U	3.5 U
ENDOSULFAN II	900	NA	5.7 U	6.1 U	5.7 U	5.9 U	6.2 U	6.5 U	5.6 U	8.3 U	5.4 U	3.6 U	6.4 U	4.2 U	5.1 U	6.4 U	3.8 U	7.0 U
ENDOSULFAN SULFATE	1000	NA	5.7 U	6.1 U	5.7 U	5.9 U	6.2 U	6.5 U	5.6 U	8.3 U	5.4 U	3.6 U	6.4 U	4.2 U	5.1 U	6.4 U	3.8 U	7.0 U
ENDRIN	100	17.6	5.7 U	6.1 U	5.7 U	5.9 U	6.2 U	6.5 U	5.6 U	8.3 U	5.4 U	3.6 U	6.4 U	4.2 U	5.1 U	6.4 U	3.8 U	7.0 U
ENDRIN ALDEHYDE	NA	NA	5.7 U	6.1 U	5.7 U	5.9 U	6.2 U	6.5 U	5.6 U	8.3 U	5.4 U	3.6 U	6.4 U	4.2 U	5.1 U	6.4 U	3.8 U	7.0 U
GAMMA-BHC	60	1.32	2.8 U	3.0 U	2.9 U	3.0 U	3.1 U	3.3 U	2.8 U	4.2 U	2.7 U	1.8 U	3.2 U	2.1 U	2.6 U	3.2 U	1.9 U	3.5 U
GAMMA-CHLORDANE	540	0.022	2.8 U	3.0 U	2.9 U	3.0 U	3.1 U	3.3 U	2.8 U	4.2 U	2.7 U	1.8 U	3.2 U	2.1 U	2.6 U	3.2 U	1.9 U	3.5 U
HEPTACHLOR	100	0.0176	2.8 U	3.0 U	2.9 U	3.0 U	3.1 U	3.3 U	2.8 U	4.2 U	2.7 U	1.8 U	3.2 U	2.1 U	2.6 U	3.2 U	1.9 U	3.5 U
HEPTACHLOR EPOXIDE	20	0.0176	2.8 U	3.0 U	2.9 U	3.0 U	3.1 U	3.3 U	2.8 U	4.2 U	2.7 U	1.8 U	3.2 U	2.1 U	2.6 U	3.2 U	1.9 U	3.5 U
METHOXYCHLOR	NA	NA	28 U	30 U	29 U	30 U	31 U	33 U	28 U	42 U	27 U	18 U	32 U	21 U	26 U	32 U	19 U	35 U
8082 (ug/Kg)																		
AROCLOR 1242	1000	0.0176	28 U	30 U	29 U	30 U	31 U	33 U	28 U	42 U	27 U	18 U	32 U	21 U	26 U	150	19 U	35 U
AROCLOR 1248	1000	0.0176	28 U	30 U	29 U	30 U	31 U	33 U	28 U	42 U	27 U	18 U	32 U	21 U	26 U	32 U	19 U	35 U
AROCLOR 1254	1000	0.0176	28 U	30 U	29 U	30 U	31 U	33 U	100	42 U	32	18 U	32 U	21 U	26 U	32 U	19 U	35 U
AROCLOR 1260	1000	0.0176	28 U	30 U	29 UJ	30 UJ	31 U	33 U	28 U	42 U	27 U	18 U	32 U	21 U	26 U	32 U	19 U	35 U
AROCLOR 1262	1000	0.0176	28 U	30 U	29 U	30 U	31 U	33 U	28 U	42 U	27 U	18 U	32 U	21 U	26 U	32 U	19 U	35 U
AROCLOR 1268	1000	0.0176	28 U	30 U	29 U	30 U	31 U	33 U	28 U	42 U	27 U	18 U	32 U	21 U	26 U	32 U	19 U	35 U
8270C (ug/Kg)																		
2,4,5-TRICHLOROPHENOL	100	NA	1400 U	1500 U	1400 U	1500 U	1500 U	1600 U	1400 U	2100 U	1300 U	900 U	1600 U	1000 U	1300 U	1600 U	950 U	1700 U
2,4,6-TRICHLOROPHENOL	NA	NA	560 U	600 U	570 U	590 U	610 U	650 U	550 U	820 U	530 U	360 U	630 U	410 U	510 U	630 U	380 U	690 U
2,4-DICHLOROPHENOL	400	NA	560 U	600 U	570 U	590 U	610 U	650 U	550 U	820 U	530 U	360 U	630 U	410 U	510 U	630 U	380 U	690 U
2,4-DIMETHYLPHENOL	NA	NA	560 U	600 U	570 U	590 U	610 U	650 U	550 U	820 U	530 U	360 U	630 U	410 U	510 U	630 U	380 UJ	690 UJ
2,4-DINITROPHENOL	200	NA	1400 U	1500 U	1400 U	1500 U	1500 U	1600 U	1400 U	2100 U	1300 U	900 UJ	1600 UJ	1000 UJ	1300 UJ	1600 UJ	950 U	1700 U
2,4-DINITROTOLUENE	NA	NA	560 U	600 U	570 U	590 U	610 U	650 U	550 U	820 U	530 U	360 U	630 U	410 U	510 U	630 U	380 U	690 U
2,6-DINITROTOLUENE	1000	NA	560 U	600 U	570 U	590 U	610 U	650 U	550 U	820 U	530 U	360 U	630 U	410 U	510 U	630 U	380 U	690 U
2-CHLORONAPHTHALENE	NA	NA	560 U	600 U	570 U	590 U	610 U	650 U	550 U	820 U	530 U	360 U	630 U	410 U	510 U	630 U	380 U	690 U
2-CHLOROPHENOL	800	NA	560 U	600 U	570 U	590 U	610 U	650 U	550 U	820 U	530 U	360 U	630 U	410 U	510 U	630 U	380 U	690 U
2-METHYLNAPHTHALENE	36400	NA	560 U	67 J	570 U	590 U	610 U	650 U	550 U	820 U	530 U	360 U	630 U	410 U	510 U	630 U	380 U	120 J
2-METHYLPHENOL	100	NA	560 U	600 U	570 U	590 U	610 U	650 U	550 U	820 U	530 U	360 U	630 U	410 U	510 U	630 U	380 U	690 U
2-NITROANILINE	430	NA	1400 U	1500 U	1400 U	1500 U	1500 U	1600 U	1400 U	2100 U	1300 U	900 U	1600 U	1000 U	1300 U	1600 U	950 U	1700 U
2-NITROPHENOL	330	NA	560 U	600 U	570 U	590 U	610 U	650 U	550 U	820 U	530 U	360 U	630 U	410 U	510 U	630 U	380 U	690 U
3,3'-DICHLOROBENZIDINE	NA	NA	560 U	600 U	570 UJ	590 UJ	610 UJ	650 UJ	550 UJ	820 UJ	530 UJ	360 UJ	630 UJ	410 UJ	510 UJ	630 UJ	380 U	690 UJ
3-NITROANILINE	500	NA	1400 U	1500 U	1400 U	1500 U	1500 U	1600 U	1400 U	2100 U	1300 U	900 U	1600 U	1000 U	1300 U	1600 U	950 U	1700 U
4,6-DINITRO-2-METHYLPHENOL	NA	NA	1400 U	1500 U	1400 U	1500 U	1500 U	1600 U	1400 U	2100 U	1300 U	900 U	1600 U	1000 U	1300 U	1600 U	950 U	1700 U
4-BROMOPHENYL PHENYL ETHER	NA	NA	560 U	600 U	570 U	590 U	610 U	650 U	550 U	820 U	530 U	360 U	630 U	410 U	510 U	630 U	380 U	690 U
4-CHLORO-3-METHYLPHENOL	240	NA	560 U	600 U	570 U	590 U	610 U	650 U	550 U	820 U	530 U	360 U	630 U	410 U	510 U	630 U	380 U	690 U

Table 4 Summary of Results for Surface Sediments (0-6" and 0-1'), Buffalo River Sediment Study 2005

Analyte	Screening Criteria (1)	Screening Criteria (2)	2-755-00-R06 08/26/2005	2-755-00-L06 08/26/2005	4-758-00-L06 08/25/2005	2-760-00-L06 08/25/2005	2-760-00-R06 08/25/2005	4-763-00-L06 08/25/2005	2-765-00-R06 08/25/2005	2-765-00-L06 08/25/2005	3-768-00-R06 08/24/2005	3-768-00-L06 08/24/2005	2-770-00-R06 08/24/2005	2-770-00-L06 08/24/2005	3-773-00-R06 08/24/2005	3-773-00-L06 08/24/2005	2-775-00-R06 08/22/2005	2-775-00-L06 08/22/2005
4-CHLOROANILINE	220	NA	560 U	600 U	570 U	590 U	610 U	650 U	550 U	820 U	530 U	360 U	630 U	410 U	510 U	630 U	380 U	690 U
4-CHLOROPHENYL PHENYL ETHER	NA	NA	560 U	600 U	570 U	590 U	610 U	650 U	550 U	820 U	530 U	360 U	630 U	410 U	510 U	630 U	380 U	690 U
4-METHYLPHENOL	900	NA	560 U	600 U	570 U	590 U	610 U	650 U	550 U	820 U	530 U	360 U	51 J	410 U	26 J	630 U	380 U	69 J
4-NITROANILINE	NA	NA	1400 U	1500 U	1400 U	1500 U	1500 U	1600 U	1400 U	2100 U	1300 U	900 U	1600 U	1000 U	1300 U	1600 U	950 U	1700 U
4-NITROPHENOL	100	NA	1400 U	1500 U	1400 U	1500 U	1500 U	1600 U	1400 U	2100 U	1300 U	900 UJ	1600 UJ	1000 UJ	1300 UJ	1600 UJ	950 U	1700 U
ACENAPHTHENE	50000	NA	560 U	100 J	41 J	590 U	610 U	33 J	550 U	820 U	53 J	360 U	42 J	73 J	24 J	630 U	22 J	37 J
ACENAPHTHYLENE	41000	NA	560 U	600 U	570 U	590 U	610 U	650 U	550 U	820 U	530 U	360 U	630 U	410 U	510 U	630 U	380 U	690 U
ACETOPHENONE	NA	NA	560 U	600 U	570 U	590 U	610 U	650 U	550 U	820 U	530 U	360 U	630 U	410 U	510 U	630 U	380 U	690 U
ANTHRACENE	50000	NA	34 J	340 J	98 J	59 J	41 J	88 J	44 J	40 J	90 J	19 J	180 J	88 J	63 J	47 J	19 J	95 J
ATRAZINE	NA	NA	560 U	600 U	570 U	590 U	610 U	650 U	550 U	820 U	530 U	360 U	630 U	410 U	510 U	630 U	380 U	690 U
BENZALDEHYDE	NA	NA	110 J	140 J	140 J	150 J	36 J	65 J	36 J	150 J	530 UJ	360 U	630 UJ	410 U	510 UJ	630 UJ	380 UJ	690 UJ
BENZO(A)ANTHRACENE	224	NA	200 J	**600**	**400 J**	**260 J**	130 J	**370 J**	150 J	210 J	**310 J**	31 J	**824**	73 J	200 J	210 J	27 J	**360 J**
BENZO(A)PYRENE	61	28.6	**240 J**	**660**	**490 J**	**340 J**	**140 J**	**490 J**	**160 J**	**270 J**	**380 J**	32 J	**764**	**67 J**	**240 J**	**280 J**	21 J	**350 J**
BENZO(B)FLUORANTHENE	1100	NA	360 J	1000 J+	520 J	390 J	150 J	610 J	160 J	340 J	490 J	29 J	730	66 J	250 J	360 J	31 J	450 J
BENZO(G,H,I)PERYLENE	50000	NA	130 J	260 J	190 J	150 J	69 J	280 J	100 J	130 J	250 J	24 J	310 J	45 J	140 J	170 J	43 J	200 J
BENZO(K)FLUORANTHENE	1100	NA	250 J	740	750	540 J	140 J	600 J	150 J	480 J	430 J	35 J	1100	73 J	330 J	400 J	51 J	470 J
BIPHENYL	NA	NA	560 U	30 J	570 U	590 U	610 U	650 U	550 U	820 U	530 U	360 U	630 U	410 U	510 U	630 U	380 U	690 U
BIS(2-CHLOROETHOXY)METHANE	NA	NA	560 U	600 U	570 U	590 U	610 U	650 U	550 U	820 U	530 U	360 U	630 U	410 U	510 U	630 U	380 U	690 U
BIS(2-CHLOROETHYL) ETHER	NA	0.66	560 U	600 U	570 U	590 U	610 U	650 U	550 U	820 U	530 U	360 U	630 U	410 U	510 U	630 U	380 U	690 U
BIS(2-CHLOROISOPROPYL) ETHER	NA	NA	560 U	600 U	570 U	590 U	610 U	650 U	550 U	820 U	530 U	360 U	630 U	410 U	510 U	630 U	380 U	690 U
BIS(2-ETHYLHEXYL) PHTHALATE	50000	NA	310 J	450 J	410 J	470 J	88 J	680	120 J	500 J	310 J	360 U	410 J	49 J	250 J	410 J	380 UJ	690 UJ
BUTYLBENZYL PHTHALATE	50000	NA	560 U	600 U	570 U	590 U	610 U	650 U	550 U	820 U	530 U	360 U	630 U	410 U	510 U	630 U	380 U	690 UJ
CAPROLACTAM	NA	NA	560 U	600 U	570 UJ	590 UJ	610 U	650 U	550 U	820 U	530 U	360 U	630 U	410 U	510 U	630 U	380 U	690 U
CARBAZOLE	NA	NA	33 J	120 J	43 J	47 J	610 U	52 J	29 J	820 U	40 J	360 U	140 J	410 U	44 J	46 J	380 U	58 J
CHRYSENE	400	NA	350 J	**890**	**690**	**500 J**	220 J	**800**	250 J	**410 J**	**520 J**	51 J	**1100**	130 J	350 J	**430 J**	42 J	**490 J**
DIBENZ(A,H)ANTHRACENE	14	NA	**42 J**	**97 J**	**75 J**	**65 J**	610 U	**78 J**	**35 J**	**48 J**	**110 J**	360 U	**150 J**	**22 J**	**54 J**	**52 J**	380 U	690 UJ
DIBENZOFURAN	6200	NA	560 U	59 J	570 U	590 U	610 U	31 J	550 U	820 U	25 J	360 U	630 U	35 J	510 U	630 U	380 U	32 J
DIETHYL PHTHALATE	7100	NA	560 U	600 U	570 U	590 U	610 U	650 U	550 U	820 U	530 U	360 U	630 U	410 U	510 U	630 U	380 UJ	690 UJ
DIMETHYL PHTHALATE	2000	NA	560 U	600 U	570 U	590 U	610 U	650 U	550 U	820 U	530 U	360 U	630 U	410 U	510 U	630 U	380 U	690 U
DI-N-BUTYL PHTHALATE	8100	NA	560 U	600 U	570 U	40 J	40 J	650 U	550 U	820 U	530 U	360 U	630 U	410 U	510 U	630 U	380 U	690 U
DI-N-OCTYL PHTHALATE	50000	NA	26 J	43 J	570 U	590 U	610 U	650 U	550 U	820 U	530 U	360 U	39 J	410 U	25 J	31 J	380 U	690 UJ
FLUORANTHENE	50000	NA	470 J	1300	1100	800	350 J	1200	410 J	570 J	830	120 J	1700	300 J	680	750	66 J	710
FLUORENE	50000	NA	560 U	120 J	61 J	44 J	610 U	59 J	26 J	820 U	58 J	17 J	59 J	66 J	41 J	42 J	380 U	83 J
HEXACHLOROBENZENE	410	NA	560 U	600 U	570 U	590 U	610 U	650 U	550 U	820 U	530 U	360 U	630 U	410 U	510 U	630 U	380 U	690 U
HEXACHLOROBUTADIENE	NA	6.6	560 U	600 U	570 U	590 U	610 U	650 U	550 U	820 U	530 U	360 U	630 U	410 U	510 U	630 U	380 U	690 U
HEXACHLOROCYCLOPENTADIENE	NA	NA	560 U	600 U	570 U	590 U	610 U	650 U	550 U	820 UJ	530 U	360 U	630 U	410 U	510 U	630 U	380 U	690 U
HEXACHLOROETHANE	NA	NA	560 U	600 U	570 U	590 U	610 U	650 U	550 U	820 U	530 U	360 U	630 U	410 U	510 U	630 U	380 U	690 U
INDENO(1,2,3-CD)PYRENE	3200	NA	120 J	250 J	200 J	140 J	61 J	270 J	89 J	130 J	210 J	21 J	290 J	39 J	130 J	150 J	23 J	170 J
ISOPHORONE	4400	NA	560 U	600 U	570 U	590 U	610 U	650 U	550 U	820 U	530 U	360 U	630 U	410 U	510 U	630 U	380 U	690 U
NAPHTHALENE	13000	NA	560 U	630	570 U	590 U	610 U	650 U	550 U	820 U	530 U	360 U	630 U	410 U	510 U	630 U	380 U	690 U
NITROBENZENE	200	NA	560 U	600 U	570 U	590 U	610 U	650 U	550 U	820 U	530 U	360 U	630 U	410 U	510 U	630 U	380 U	690 U
N-NITROSO-DI-N-PROPYLAMINE	NA	NA	560 U	600 U	570 U	590 U	610 U	650 U	550 U	820 U	530 U	360 U	630 U	410 U	510 U	630 U	380 U	690 U
N-NITROSODIPHENYLAMINE	NA	NA	560 U	600 U	570 U	590 U	610 U	650 U	550 U	820 U	530 U	360 U	630 U	410 U	510 U	630 U	380 U	690 U
PENTACHLOROPHENOL	1000	NA	1400 U	1500 U	1400 U	1500 U	1500 U	1600 U	1400 U	2100 U	1300 U	900 U	1600 U	1000 U	1300 U	1600 U	950 U	1700 U
PHENANTHRENE	50000	NA	260 J	870 J+	510 J	400 J	200 J	580 J	230 J	280 J	520 J	79 J	810	250 J	330 J	330 J	45 J	620 J
PHENOL	30	NA	560 U	600 U	570 U	590 U	610 U	650 U	550 U	820 U	530 U	360 U	630 U	410 U	510 U	630 U	380 U	690 U
PYRENE	50000	NA	540 J	1500 J	1300	840	310 J	1200	380 J	690 J	840	96 J	1500	270 J	550	620 J	83 J	1100 J

(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 Values that exceed this criteria are shaded gray and bolded.

(2) New York State Department of Environmental Conservation, Division of Fish, Wildlife and Marine Resources, 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. Values that exceed this criteria are shaded teal, with white font, bolded and italics *

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

Table 4 Summary of Results for Surface Sediments (0-6" and 0-1'), Buffalo River Sediment Study 2005

Analyte	Screening Criteria [1]	Screening Criteria [2]	2-780-00-R06 08/22/2005	2-780-00-L06 08/22/2005	2-785-00-R06 08/22/2005	2-785-00-L06 08/22/2005
415.1_LK (mg/Kg)						
Total Organic Carbon	NA	NA	1720	16800	14600	8990
6010B (mg/Kg)						
ARSENIC	7.5	6	4.4 J	8.5 J	2.6 J	7.9 J
BARIUM	300	NA	15.7	85.9	24.2	43.9
CADMIUM	1	0.6	0.084	0.74	0.070	0.15
CHROMIUM	10	26	5.3 J	15.0 J	5.9 J	10.7 J
COPPER	25	16	161 J	33.2 J	18.7 J	49.4 J
IRON	2000	20000	12800 J	23900 J	10700 J	19300 J
LEAD	NA	31	98.1 J	25.6 J	15.1 J	64.4 J
MANGANESE	NA	460	109 J	529 J	186 J	301 J
NICKEL	13	16	11.2	29.3	11.7	31.1
SELENIUM	2	NA	0.39 UJ	0.68 J	0.41 UJ	0.44 UJ
SILVER	NA	1	0.20	0.25	0.20 U	0.21 U
ZINC	20	120	54.0 J	193 J	38.0 J	99.3 J
MERCURY	0.1	0.18	0.017 U	0.14	0.018 U	0.018 U
8081A (ug/Kg)						
2,4'-DDD	NA	0.22	3.7 U	4.8 U	4.1 U	3.9 U
2,4'-DDE	NA	0.22	3.7 U	4.8 U	4.1 U	3.9 U
2,4'-DDT	NA	0.22	3.7 U	4.8 U	4.1 U	3.9 U
4,4'-DDD	2900	0.22	3.7 U	4.8 U	4.1 U	3.9 U
4,4'-DDE	2100	0.22	3.7 U	4.8 U	4.1 U	3.9 U
4,4'-DDT	2100	0.22	3.7 U	4.8 U	4.1 U	3.9 U
ALDRIN	41	2.2	1.8 U	2.4 U	2.0 U	1.9 U
ALPHA-BHC	110	1.32	1.8 U	2.4 U	2.0 U	1.9 U
ALPHA-CHLORDANE	NA	0.022	1.8 U	2.4 U	2.0 U	1.9 U
BETA-BHC	200	1.32	1.8 U	2.4 U	2.0 U	1.9 U
DELTA-BHC	300	1.32	1.8 U	2.4 U	2.0 U	1.9 U
DIELDRIN	44	2.2	3.7 U	4.8 U	4.1 U	3.9 U
ENDOSULFAN I	900	NA	1.8 U	2.4 U	2.0 U	1.9 U
ENDOSULFAN II	900	NA	3.7 U	4.8 U	4.1 U	3.9 U
ENDOSULFAN SULFATE	1000	NA	3.7 U	4.8 U	4.1 U	3.9 U
ENDRIN	100	17.6	3.7 U	4.8 U	4.1 U	3.9 U
ENDRIN ALDEHYDE	NA	NA	3.7 U	4.8 U	4.1 U	3.9 U
GAMMA-BHC	60	1.32	1.8 U	2.4 U	2.0 U	1.9 U
GAMMA-CHLORDANE	540	0.022	1.8 U	2.4 U	2.0 U	1.9 U
HEPTACHLOR	100	0.0176	1.8 U	2.4 U	2.0 U	1.9 U
HEPTACHLOR EPOXIDE	20	0.0176	1.8 U	2.4 U	2.0 U	1.9 U
METHOXYCHLOR	NA	NA	18 U	24 U	20 U	19 U
8082 (ug/Kg)						
AROCLOR 1242	1000	0.0176	18 U	24 UJ	20 U	19 U
AROCLOR 1248	1000	0.0176	18 U	24 UJ	20 U	19 U
AROCLOR 1254	1000	0.0176	18 U	67 J-	20 U	19 U
AROCLOR 1260	1000	0.0176	18 U	24 UJ	20 U	19 U
AROCLOR 1262	1000	0.0176	18 U	24 UJ	20 U	19 U
AROCLOR 1268	1000	0.0176	18 U	24 UJ	20 U	19 U
8270C (ug/Kg)						
2,4,5-TRICHLOROPHENOL	100	NA	910 U	1200 U	2000 U	970 U
2,4,6-TRICHLOROPHENOL	NA	NA	360 U	480 U	800 U	380 U
2,4-DICHLOROPHENOL	400	NA	360 U	480 U	800 U	380 U
2,4-DIMETHYLPHENOL	NA	NA	360 UJ	480 UJ	800 UJ	380 UJ
2,4-DINITROPHENOL	200	NA	910 U	1200 U	2000 U	970 U
2,4-DINITROTOLUENE	NA	NA	360 U	480 U	800 U	380 U
2,6-DINITROTOLUENE	1000	NA	360 U	480 U	800 U	380 U
2-CHLORONAPHTHALENE	NA	NA	360 U	480 U	800 U	380 U
2-CHLOROPHENOL	800	NA	360 U	480 U	800 U	380 U
2-METHYLNAPHTHALENE	36400	NA	360 U	47 J	800 U	380 U
2-METHYLPHENOL	100	NA	360 U	480 U	800 U	380 U
2-NITROANILINE	430	NA	910 U	1200 U	2000 U	970 U
2-NITROPHENOL	330	NA	360 U	480 U	800 U	380 U
3,3'-DICHLOROBENZIDINE	NA	NA	360 U	480 U	800 U	380 U
3-NITROANILINE	500	NA	910 U	1200 U	2000 U	970 U
4,6-DINITRO-2-METHYLPHENOL	NA	NA	910 U	1200 U	2000 U	970 U
4-BROMOPHENYL PHENYL ETHER	NA	NA	360 U	480 U	800 U	380 U
4-CHLORO-3-METHYLPHENOL	240	NA	360 U	480 U	800 U	380 U