Table 6 Summary of Results for Subsurface Sediments (>1'), Buffalo River Sediment Study 2005

Analyte	Screening Criteria (1)	Screening Criteria (2)	4-677-00-L34 08/30/2005	1-680-00-C04 08/23/2005	6-682-00-R35 08/23/2005	4-682-00-L23 08/23/2005	2-685-00-L23 08/23/2005	6-688-00-R35 08/23/2005	6-688-00-R67 08/23/2005	4-688-00-L23 08/23/2005	2-690-00-R12 08/23/2005	1-690-00-C05 08/23/2005	6-693-00-R35 08/23/2005	6-693-00-R56 08/23/2005	6-698-00-R02 08/29/2005	6-698-00-L35 08/29/2005	6-698-00-L89 08/29/2005	1-700-00-C05 08/27/2005	2-700-00-L910 08/29/2005	6-702-50-R35 08/29/2005	6-702-50-R56 08/29/2005
415.1_LK (mg/Kg)																					
Total Organic Carbon	NA	NA	23900	30300	37300	18800	20500	26600	25800	28000	23900	26800	50200	43000	34100	64800	46300	28500 J	84500	20700	89100
6010B (mg/Kg)																					
ARSENIC	7.5	6	19.6	9.3 J	9.5 J	6.5 J	12.7 J	12.9 J	34.1 J	20.2 J	26.7 J	17.6 J	164 J	111 J	23.8	157	43.0	10.2	108	9.1	78.8
BARIUM	300	NA	119	125	123	62.0	75.7	89.7	72.3	91.1	64.4	109	107	130	129	122	117	150	103	134	713
CADMIUM	1	0.6	0.75	1.2	0.90	1.1	4.0	2.7	0.53	2.5	2.2	1.3	29.9	7.8	0.98	2.9	1.9	0.46	2.3	0.65	25.6
CHROMIUM	10	26	55.4	33.6 J	30.7 J	44.5 J	86.4 J	153 J	83.9 J	114 J	121 J	64.3 J	488 J	445 J	318	576	434	22.3 J	753	39.0	15900
COPPER	25	16	61.3	144 J	61.2 J	62.0 J	90.4 J	121 J	118 J	98.7 J	112 J	84.1 J	400 J	265 J	80.3	400	280	43.6	448	43.3	1780
IRON	2000	20000	32500	25200 J+	28900 J	18600 J+	29400 J+	36200 J+	27300 J+	29300 J+	34100 J	33200 J	74100 J	47100 J	31200	82000	69900	37300 J	68100	25700	170000
LEAD	NA	31	81.1 J	142 J-	101 J	108 J-	214 J-	347 J-	157 J-	244 J-	265 J	127 J	1100 J	393 J	230 J	504 J	490 J	31.5 J	560 J	47.9 J	2840 J
MANGANESE	NA	460	953	484 J-	531 J	251 J-	344 J-	559 J-	465 J-	386 J-	514 J	573 J	769 J	865 J	435	909	947	949 J	777	566	1530
NICKEL	13	16	32.0	28.6	35.3	19.6	28.2	33.0	28.0	28.2	33.5	32.9	62.1	48.3	29.9	64.2	44.3	33.9	53.6	26.8	175
SELENIUM	2	NA	1.7 UJ	0.57 U	0.65 UJ	0.47 U	0.52 U	0.48 U	0.52 U	0.54 U	0.56 UJ	0.62 UJ	0.59 UJ	0.47 UJ	2.4 UJ	4.6 J	3.3 J	1.0 J	3.5 J	2.2 UJ	7.3 J
SILVER	NA	1	0.44 J	0.68	0.33	0.35	0.61	0.92	0.55	0.34	0.73	0.50	2.6	1.1	0.33 UJ	1.4 J	0.70 J	0.27 U	1.0 J	0.39 J	3.9 J
ZINC	20	120	217 J	350	201 J	174	353	565	478	555	511 J	285 J	4310 J	1050 J	200 J	1450 J	986 J	158 J	1340 J	134 J	4850 J
MERCURY	0.1	0.15	0.80 J+	0.28	0.28	0.69	0.91	1.1	2.3	3.0	1.1	1.0	9.0	6.1	1.1 J+	10.9 J	5.4 J	0.070	12.7 J	0.31 J+	31.8 J
8081A (ug/Kg)																					
2,4'-DDD	NA	0.22	5.3 U	11	6.1 U	4.6 U	4.8 U	5.0 U	4.6 U	4.9 U	5.8 U	5.4 UJ	11 J+	28	5.8 U	53	5.2 U	6.2 U	9.4	5.0 U	15 J+
2,4'-DDE	NA	0.22	5.3 U	9.6	6.1 U	4.6 U	4.8 U	5.0 U	4.6 U	4.9 U	5.8 U	5.4 U	7.7 J+	10	5.8 U	20	6.1	6.2 U	24	5.0 U	6.9 J+
2,4'-DDT	NA	0.22	5.3 U	5.6 U	8.1	4.6 U	4.8 U	5.0 U	4.6 U	4.9 U	5.8 U	5.4 U	36 J+	7.5	5.8 U	12	8.8	6.2 U	13	5.0 U	11 J+
4,4'-DDD	2900	0.22	5.3 U	5.6 U	6.1 U	4.6 U	4.8 U	5.5	20	4.9 U	5.8 U	5.4	46 J+	49	5.8 U	13	9.7	6.2 U	10	5.0 U	7.5 J+
4,4'-DDE	2100	0.22	5.3 U	7.8	8.6	4.9	4.8 U	12	6.5	4.9 U	5.8 U	7.3	23 J+	14	5.8 U	5.8 U	5.2 U	6.2 U	5.4 U	5.0 U	41 J+
4,4'-DDT	2100	0.22	5.3 U	8.2	6.1 U	4.6 U	4.8 U	5.0 U	4.6 U	4.9 U	5.8 U	6.7	51 J+	16	5.8 U	6.2	5.2 U	6.2 U	8.1	5.0 U	14 J+
ALDRIN	41	2.2	2.6 U	2.8 U	3.0 U	2.3 U	2.4 U	2.5 U	3.0	2.5 U	2.9 U	2.7 U	3.1 U	7.2	2.9 U	6.7	2.6 U	3.1 U	6.8	2.5 U	3.2 U
ALPHA-BHC	110	1.32	2.6 U	2.8 U	3.0 U	2.3 U	2.4 U	2.5 U	2.3 U	2.5 U	2.9 U	2.7 U	3.1 U	2.4 U	2.9 U	4.4	13	3.1 U	6.5	2.5 U	9.5 J+
ALPHA-CHLORDANE	NA	0.022	2.6 U	2.8 U	3.0 U	2.3 U	2.4 U	2.5	3.6	2.5 U	2.9 U	3.3	13 J+	8.1	2.9 U	29	2.6 U	3.1 U	18	2.5 U	5.7 J+
BETA-BHC	200	1.32	2.6 U	5.2	3.0 U	2.3 U	2.4 U	2.5 U	5.0	2.5 U	2.9 U	2.7 U	7.4 J+	24	2.9 U	44	23	3.1 U	20	2.5 U	6.0 J+
DELTA-BHC	300	1.32	2.6 U	2.8 U	3.0 U	2.3 U	2.4 U	2.5 U	2.3 U	2.5 U	2.9 U	2.7 U	16 J+	8.9	2.9 U	4.4	3.5	3.1 U	3.5	2.5 U	4.1 J+
DIELDRIN	44	2.2	5.3 U	9.8	6.1 U	4.6 U	4.8 U	5.0 U	4.6 U	4.9 U	5.8 U	5.4 U	22 J+	17	5.8 U	5.8 U	58	6.2 U	5.4 U	5.0 U	7.1 J+
ENDOSULFAN I	900	NA	2.6 U	2.8 U	3.0 U	2.3 U	2.4 U	2.5 U	2.3 U	2.5 U	2.9 U	2.7 U	3.2 J+	13	2.9 U	32	8.9	3.1 U	27	2.5 U	20 J+
ENDOSULFAN II	900	NA	5.3 U	5.6 U	6.1 U	4.6 U	4.8 U	5.0 U	4.6 U	4.9 U	5.8 U	5.4 U	6.7 J+	4.8 U	5.8 U	18	7.5	6.2 U	12	5.0 U	6.4 U
ENDOSULFAN SULFATE	1000	NA	5.3 U	5.6 U	6.1 U	4.6 U	4.8 U	5.0 U	4.6 U	4.9 U	5.8 U	5.4	6.2 U	6.2	5.8 U	13	6.3	6.2 U	11	5.0 U	6.4 U
ENDRIN	100	17.6	5.3 U	11	6.1 U	4.6 U	4.8 U	8.9	4.6 U	4.9 U	5.8 U	5.4 U	6.2 U	8.3	5.8 U	5.8 U	8.0	6.2 U	6.3	5.0 U	6.4 U
ENDRIN ALDEHYDE	NA	NA	5.3 U	5.6 U	7.0	4.6 U	4.8 U	5.0 U	4.6 U	4.9 U	5.8 U	5.4 U	16 J+	17	5.8 U	9.1	13	6.2 U	29	5.0 U	58 J+
GAMMA-BHC	60	1.32	2.6 U	2.8 U	3.0 U	2.3 U	2.4 U	2.5 U	6.5	2.5 U	2.9 U	3.1	6.3 J+	2.9	2.9 U	4.1	2.6 U	3.1 U	2.7 U	2.5 U	6.2 J+
GAMMA-CHLORDANE	540	0.022	2.6 U	2.8 U	3.0 U	2.3 U	2.4 U	2.5 U	5.0	2.5 U	2.9 U	2.7 U	25 J+	14	2.9 U	22 J-	37	3.1 U	35	2.5 U	6.4 J+
HEPTACHLOR	100	0.0176	2.6 U	2.8 U	3.0 U	2.3 U	4.1	3.6	5.1	2.5 U	2.9 U	2.7 U	25 J+	4.5	2.9 U	7.4	2.6 U	3.1 U	9.2	2.5 U	8.1 J+
HEPTACHLOR EPOXIDE	20	0.0176	2.6 U	5.7	3.0 U	2.3 U	2.4 U	2.5 U	2.3 U	2.5 U	2.9 U	2.7 U	4.3 J+	4.8	2.9 U	7.6	3.7	3.1 UJ	6.2	2.5 U	4.1 J+
METHOXYCHLOR	NA	NA	26 U	28 U	30 U	23 U	24 U	25 U	23 U	25 U	29 U	27 U	36 J+	31	29 U	45	57	31 U	27 U	25 U	32 U
8082 (ug/Kg)																					
AROCLOR 1242	1000	0.0176	53	390	69	270	510	370	23 U	25 U	30	230	2300	1000	29 U	29 UJ	26 UJ	31 U	27 UJ	25 U	32 UJ
AROCLOR 1248	1000	0.0176	26 U	56 U	30 U	23 U	48 U	50 U	23 U	25 U	29 U	27 U	310 U	73 U	29 U	29 UJ	26 UJ	31 U	27 UJ	25 U	32 UJ
AROCLOR 1254	1000	0.0176	51	430	91	210	470	540	23 U	25 U	29	120	1300	720	44	29 UJ	26 UJ	31 U	27 UJ	31	32 UJ
AROCLOR 1260	1000	0.0176	28	700	86	200	150	160	23 U	25 U	29 U	62 J-	310 U	410	29 U	29 UJ	26 UJ	31 U	27 UJ	25 U	32 UJ
AROCLOR 1262	1000	0.0176	26 U	56 U	30 U	23 U	48 U	50 U	23 U	25 U	29 U	27 U	310 U	73 U	29 U	29 UJ	26 UJ	31 U	27 UJ	25 U	32 UJ
AROCLOR 1268	1000	0.0176	26 U	56 U	30 U	23 U	48 U	50 U	23 U	25 U	29 U	27 U	310 U	73 U	29 U	29 UJ	26 UJ	31 U	27 UJ	25 U	32 UJ
8270C (ug/Kg)																					
2,4,5-TRICHLOROPHENOL	100	NA	3800 U	4700 U	3000 U	3800 U	2400 U	4100 U	23000 U	2900 U	1400 U	13000 U	77000 U	40000 U	1500 U	150000 U	52000 U	1500 U	89000 U	1300 U	21000 U
2,4,6-TRICHLOROPHENOL	NA	NA	1500 U	1900 U	1200 U	1500 U	940 U	1600 U	9200 U	1100 U	570 U	5300 U	31000 U	16000 U	580 U	58000 U	21000 U	610 U	35000 U	500 U	8500 U
2,4-DICHLOROPHENOL	400	NA	1500 U	1900 U	1200 U	1500 U	940 U	1600 U	9200 U	1100 U	570 U	5300 U	31000 U	16000 U	580 U	58000 U	21000 U	610 U	35000 U	500 U	8500 U
2,4-DIMETHYLPHENOL	NA	NA	1500 U	1900 U	1200 U	1500 U	940 U	1600 U	9200 U	1100 U	570 UJ	5300 UJ	31000 U	16000 U	580 U	58000 U	21000 U	610 U	35000 U	500 U	8500 U
2,4-DINITROPHENOL	200	NA	3800 UJ	4700 U	3000 U	3800 U	2400 U	4100 U	23000 U	2900 U	1400 U	13000 U	77000 U	40000 U	1500 U	150000 UJ	52000 UJ	1500 UJ	89000 UJ	1300 UJ	21000 UJ
2,4-DINITROTOLUENE	NA	NA	1500 U	1900 U	1200 U	1500 U	940 U	1600 U	9200 U	1100 U	570 U	5300 U	31000 U	16000 U	580 U	58000 U	21000 U	610 U	35000 U	170 J	8500 U
2,6-DINITROTOLUENE	1000	NA	1500 U	1900 U	1200 U	1500 U	940 U	1600 U	9200 U	1100 U	570 U	5300 U	31000 U	16000 U	580 U	58000 U	21000 U	610 U	35000 U	49 J	3400 J
2-CHLORONAPHTHALENE	NA	NA	1500 U	1900 U	1200 U	1500 U	940 U	1600 U	9200 U	1100 U	570 U	5300 U	31000 U	16000 U	580 U	58000 U	21000 U	610 U	35000 U	500 U	8500 U
2-CHLOROPHENOL	800	NA	1500 U	1900 U	1200 U	1500 U	940 U	1600 U	9200 U	1100 U	570 U	5300 U	31000 U	16000 U	580 U	58000 U	21000 U	610 U	35000 U	500 U	8500 U
2-METHYLNAPHTHALENE	36400	NA	1100 J	330 J	200 J	82 J	390 J	1600 J	3000 J	3300	570 U	11000 J+	20000 J	56000	71 J	120000	32000	86 J	78000	49 J	3500 J
2-METHYLPHENOL	100	NA	1500 U	1900 U	1200 U	1500 U	940 U	1600 U	9200 U	160 J	570 U	5300 U	31000 U	16000 U	580 U	58000 U	21000 U	610 U	35000 U	500 U	8500 U
2-NITROANILINE	430	NA	3800 U	4700 U	3000 U	3800 U	2400 U	4100 U	23000 U	2900 U	1400 U	13000 U	77000 U	40000 U	1500 U	150000 U	52000 U	1500 U	89000 U	1300 U	21000 U
2-NITROPHENOL	330	NA	1500 U	1900 U	1200 U	1500 U	940 U	1600 U	9200 U	1100 U	570 U	5300 U	31000 U	16000 U	580 U	58000 U	21000 U	610 U	35000 U	500 U	8500 U
3,3'-DICHLOROBENZIDINE	NA	NA	1500 U	1900 UJ	1200 U	1500 UJ	940 UJ	1600 UJ	9200 UJ	1100 UJ	570 U	5300 U	31000 U	16000 U	580 UJ	58000 U	21000 U	610 UJ	35000 U	500 U	8500 U
3-NITROANILINE	500	NA	3800 U	4700 U	3000 U	3800 U	2400 U	4100 U	23000 U	2900 U	1400 U	13000 U	77000 U	40000 U	1500 U	150000 U	52000 U	1500 U	89000 U	1300 U	960 J
4,6-DINITRO-2-METHYLPHENOL	NA	NA	3800 U	4700 U	3000 U	3800 U	2400 U	4100 U	23000 U	2900 U	1400 U	13000 U	77000 U	40000 U	1500 U	150000 U	52000 U	1500 U	89000 U	1300 U	21000 U
4-BROMOPHENYL PHENYL ETHER	NA	NA	1500 U	1900 U	1200 U	1500 U	940 U	1600 U	9200 U	1100 U	570 U	5300 U	31000 U	16000 U	580 U	58000 U	21000 U	610 U	35000 U	500 U	8500 U
4-CHLORO-3-METHYLPHENOL	240	NA	1500 U	1900 U	1200 U	1500 U	940 U	1600 U	9200 U	1100 U	570 U	5300 U	31000 U	16000 U	580 U	58000 U	21000 U	610 U	35000 U	500 U	8500 U
4-CHLOROANILINE	220	NA	1500 U	1900 U	1200 U	170 J	940 U	1600 U	9200 U	1100 U	570 U	5300 UJ	31000 U	16000 U	49 J	58000 U	21000 U	610 U	35000 U	500 U	2200 J

Table 6 Summary of Results for Subsurface Sediments (>1'), Buffalo River Sediment Study 2005

Analyte	Screening Criteria (1)	Screening Criteria (2)	4-677-00-L34 08/30/2005	1-680-00-C04 08/23/2005	6-682-00-R35 08/23/2005	4-682-00-L23 08/23/2005	2-685-00-L23 08/23/2005	6-688-00-R35 08/23/2005	6-688-00-R67 08/23/2005	4-688-00-L23 08/23/2005	2-690-00-R12 08/23/2005	1-690-00-C05 08/23/2005	6-693-00-R35 08/23/2005	6-693-00-R56 08/23/2005	6-698-00-R02 08/29/2005	6-698-00-L35 08/29/2005	6-698-00-L89 08/29/2005	1-700-00-C05 08/27/2005	2-700-00-L910 08/29/2005	6-702-50-R35 08/29/2005	6-702-50-R56 08/29/2005
4-CHLOROPHENYL PHENYL ETHER	NA	NA	1500 U	1900 U	1200 U	1500 U	940 U	1600 U	9200 U	1100 U	570 U	5300 U	31000 U	16000 U	580 U	58000 U	21000 U	610 U	35000 U	500 U	8500 U
4-METHYLPHENOL	900	NA	1500 U	1900 U	1200 U	1500 U	110 J	710 J	9200 U	1100 U	570 U	5300 U	31000 U	16000 U	580 U	58000 U	21000 U	610 U	35000 U	500 U	8500 U
4-NITROANILINE	NA	NA	3800 U	4700 U	3000 UJ	3800 UJ	2400 UJ	4100 UJ	23000 UJ	2900 UJ	1400 U	13000 U	77000 UJ	40000 UJ	1500 U	150000 U	52000 U	1500 U	89000 U	1300 U	21000 U
4-NITROPHENOL	100	NA	3800 U	4700 U	3000 UJ	3800 UJ	2400 UJ	4100 UJ	23000 UJ	2900 UJ	1400 U	13000 U	77000 UJ	40000 UJ	1500 U	150000 U	52000 U	1500 U	89000 U	1300 U	21000 U
ACENAPHTHENE	50000	NA	1900	1100 J	580 J	1600	890 J	1300 J	17000	1700	41 J	9500 J+	12000 J	50000	280 J	96000	40000	58 J	75000	51 J	2000 J
ACENAPHTHYLENE	41000	NA	1500 U	1900 U	290 J	250 J	220 J	230 J	950 J	210 J	570 U	5300 U	2300 J	2000 J	580 U	58000 U	21000 U	610 U	4000 J	500 U	8500 U
ACETOPHENONE	NA	NA	1500 U	1900 U	1200 U	1500 U	940 U	1600 U	9200 U	1100 UJ	570 U	5300 U	31000 U	16000 U	30 J	58000 U	21000 U	610 U	35000 U	500 U	8500 U
ANTHRACENE	50000	NA	3100	1500 J	1300	1200 J	1700	3500	22000	2900	100 J	10000 J+	26000 J	30000	620	110000	45000	120 J	94000	120 J	5200 J
ATRAZINE	NA	NA	1500 U	1900 U	1200 U	1500 U	940 U	1600 U	9200 U	1100 U	570 U	5300 U	31000 U	16000 U	580 U	58000 U	21000 U	610 U	35000 U	500 U	8500 U
BENZALDEHYDE	NA	NA	1500 U	1900 UJ	1200 UJ	1500 UJ	940 UJ	1600 UJ	9200 UJ	1100 UJ	570 UJ	5300 UJ	31000 UJ	16000 UJ	580 UJ	58000 U	21000 U	610 UJ	35000 U	500 UJ	8500 U
BENZO(A)ANTHRACENE	224	NA	2300	2900	2300	2100	1800	1600 J	8200 J	3000	340 J	4500 J	11000 J	12000 J	770	60000	26000	300 J	54000	230 J	6500 J
BENZO(A)PYRENE	61	28.6	1200 J	2400	2100	1700	1600	1800	5600 J	2300	340 J	2400 J	9400 J	7400 J	410 J	29000 J	15000 J	350 J	29000 J	190 J	4900 J
BENZO(B)FLUORANTHENE	1100	NA	1700 J	2700	4000	2700	2700	2500	4600 J	2800	570 J	3200 J	8800 J	6000 J	790 J	34000 J	13000 J	420 J	22000 J	330 J	2500 J
BENZO(G,H,I)PERYLENE	50000	NA	460 J	1400 J	470 J	470 J	320 J	410 J	1600 J	520 J	220 J	1500 J	2700 J	1600 J	180 J	9400 J	6800 J	150 J	11000 J	110 J	1100 J
BENZO(K)FLUORANTHENE	1100	NA	1300 J	2500	1200 U	1500 U	940 U	1600 U	7600 J	1100 U	410 J	2300 J	9300 J	9800 J	520 J	32000 J	16000 J	410 J	37000	240 J	3100 J
BIPHENYL	NA	NA	1500 U	1900 U	1200 U	1500 U	940 U	1600 U	9200 U	110 J	570 U	5300 U	31000 U	16000 U	150 J	15000 J	11000 J	33 J	17000 J	30 J	3200 J
BIS(2-CHLOROETHOXY)METHANE	NA	NA	1500 U	1900 U	1200 U	1500 U	940 U	1600 U	9200 U	1100 U	570 U	5300 U	31000 U	16000 U	580 U	58000 U	21000 U	610 U	35000 U	500 U	8500 U
BIS(2-CHLOROETHYL) ETHER	NA	0.66	1500 U	1900 U	1200 U	1500 U	940 U	1600 U	9200 U	1100 U	570 U	5300 U	31000 U	16000 U	580 U	58000 U	21000 U	610 U	35000 U	500 U	8500 U
BIS(2-CHLOROISOPROPYL) ETHER	NA	NA	1500 U	1900 U	1200 U	1500 U	940 U	1600 U	9200 U	1100 U	570 U	5300 U	31000 U	16000 U	580 U	58000 U	21000 U	610 U	35000 U	500 U	8500 U
BIS(2-ETHYLHEXYL) PHTHALATE	50000	NA	180 J	6100	4700	1300 J	2200	1700	9200 U	1100 U	570 UJ	5300 UJ	3400 J	1800 J	200 J	58000 U	21000 U	330 J	35000 U	190 J	8500 U
BUTYLBENZYL PHTHALATE	50000	NA	1500 U	1900 U	61 J	1500 U	940 U	1600 U	9200 U	1100 U	570 U	5300 U	31000 U	16000 U	580 U	58000 U	21000 U	610 U	35000 U	500 U	8500 U
CAPROLACTAM	NA	NA	1500 U	1900 U	1200 UJ	1500 UJ	940 UJ	1600 UJ	9200 UJ	1100 UJ	570 U	5300 U	31000 UJ	16000 UJ	580 U	58000 U	21000 U	610 U	35000 U	500 U	8500 U
CARBAZOLE	NA	NA	1500 U	620 J	350 J	250 J	940 U	1600 U	1500 J	1100 U	37 J	1200 J	3400 J	3300 J	76 J	13000 J	6200 J	63 J	10000 J	31 J	2700 J
CHRYSENE	400	NA	2600	3500	3000	2600	1900	2000	9100 J	2800	420 J	4500 J	13000 J	15000 J	930	59000	29000	480 J	58000	340 J	5300 J
DIBENZ(A,H)ANTHRACENE	14	NA	160 J	540 J	260 J	210 J	130 J	140 J	850 J	300 J	52 J	480 J	1600 J	1100 J	58 J	4200 J	2300 J	46 J	3800 J	35 J	8500 UJ
DIBENZOFURAN	6200	NA	1000 J	510 J	360 J	1500 U	940 U	450 J	5800 J	710 J	570 U	5800 J+	7400 J	29000	79 J	61000	20000 J	33 J	41000	500 U	2700 J
DIETHYL PHTHALATE	7100	NA	1500 U	1900 U	1200 U	1500 U	940 U	1600 U	9200 U	1100 U	570 U	5300 U	31000 U	16000 U	580 U	58000 U	21000 U	610 U	35000 U	500 U	8500 U
DIMETHYL PHTHALATE	2000	NA	1500 U	1900 U	1200 U	1500 U	940 U	1600 U	9200 U	1100 U	570 U	5300 U	31000 U	16000 U	580 U	58000 U	21000 U	610 U	35000 U	500 U	8500 U
DI-N-BUTYL PHTHALATE	8100	NA	1500 U	1900 U	1200 U	1500 U	940 U	1600 U	9200 U	1100 U	570 U	5300 U	31000 U	16000 U	580 U	58000 U	21000 U	610 U	35000 U	500 U	8500 U
DI-N-OCTYL PHTHALATE	50000	NA	1500 UJ	1900 U	82 J	1500 U	940 U	1600 U	9200 U	1100 U	570 UJ	5300 U	31000 U	16000 U	580 UJ	58000 UJ	21000 U	610 U	35000 U	500 UJ	8500 UJ
FLUORANTHENE	50000	NA	8200	7400	8200	8100	5500	4600	45000	1900	850	21000 J+	42000	66000	2100	260000	110000	860	230000	660 J+	11000
FLUORENE	50000	NA	2200	1300 J	1400	2000	1900	1800	24000	3000	570 U	10000 J+	69000	79000	150 J	95000	55000	72 J	130000	72 J	5400 J
HEXACHLOROBENZENE	410	NA	1500 U	1900 U	1200 U	1500 U	940 U	1600 U	9200 U	1100 U	570 U	5300 U	31000 U	16000 U	580 U	58000 U	21000 U	610 U	35000 U	500 U	8500 U
HEXACHLOROBUTADIENE	NA	6.6	1500 U	1900 U	1200 U	1500 U	940 U	1600 U	9200 U	1100 U	570 U	5300 U	31000 U	16000 U	580 U	58000 U	21000 U	610 U	35000 U	500 U	8500 U
HEXACHLOROCYCLOPENTADIENE	NA	NA	1500 UJ	1900 U	1200 UJ	1500 UJ	940 UJ	1600 UJ	9200 UJ	1100 UJ	570 UJ	5300 UJ	31000 UJ	16000 UJ	580 UJ	58000 UJ	21000 UJ	610 UJ	35000 UJ	500 UJ	8500 UJ
HEXACHLOROETHANE	NA	NA	1500 U	1900 U	1200 U	1500 U	940 U	1600 U	9200 U	1100 U	570 U	5300 U	31000 U	16000 U	580 U	58000 U	21000 U	610 U	35000 U	500 U	8500 U
INDENO(1,2,3-CD)PYRENE	3200	NA	430 J	1200 J	480 J	490 J	320 J	440 J	1900 J	510 J	170 J	1300 J	3000 J	1800 J	160 J	8800 J	6200 J	140 J	12000 J	98 J	810 J
ISOPHORONE	4400	NA	1500 U	1900 U	1200 U	1500 U	940 U	1600 U	9200 U	1100 U	570 U	5300 U	31000 U	16000 U	580 U	58000 U	21000 U	610 U	35000 U	500 U	8500 U
NAPHTHALENE	13000	NA	860 J	550 J	220 J	320 J	330 J	360 J	1700 J	2100	570 U	1500 J	3100 J	5100 J	310 J	76000	110000	61 J	57000	210 J	49000
NITROBENZENE	200	NA	1500 U	1900 U	1200 U	1500 U	940 U	1600 U	9200 U	1100 U	570 U	5300 U	31000 U	16000 U	40 J	58000 U	21000 U	610 U	35000 U	500 U	1000 J
N-NITROSO-DI-N-PROPYLAMINE	NA	NA	1500 U	1900 U	1200 U	1500 U	940 U	1600 U	9200 U	1100 U	570 U	5300 U	31000 U	16000 U	580 U	58000 U	21000 U	610 U	35000 U	500 U	8500 U
N-NITROSODIPHENYLAMINE	NA	NA	1500 U	1900 U	1200 U	1500 U	1400	7700	9200 U	1100 U	570 U	2100 J	19000 J	16000 U	500 J	16000 J	21000 U	610 U	35000 U	500 U	14000
PENTACHLOROPHENOL	1000	NA	3800 U	4700 U	3000 U	3800 U	2400 U	4100 U	23000 U	2900 U	1400 U	13000 U	77000 U	40000 U	1500 U	150000 U	52000 U	1500 U	89000 U	1300 U	21000 U
PHENANTHRENE	50000	NA	9900	6400	5300	1100 J	2000	4100	34000	6700	250 J	30000 J+	48000	84000	340 J	300000	120000	540 J	240000	330 J	11000
PHENOL	30	NA	1500 U	1900 U	1200 U	1500 U	940 U	1600 U	9200 U	1100 U	570 U	5300 U	31000 U	16000 U	580 U	58000 U	21000 U	610 U	35000 U	500 U	8500 U
PYRENE	50000	NA	9100	6700	5100	5400	3400	3000	23000	3700	1100	13000 J+	27000 J	38000	2200	230000	69000	800	150000	670 J+	12000

(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 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. 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 6 Summary of Results for Subsurface Sediments (>1'), Buffalo River Sediment Study 2005

Analyte	Screening Criteria (1)	Screening Criteria (2)	6-702-50-L03 08/29/2005	2-705-00-R34 08/29/2005	6-708-00-L35 08/27/2005	2-710-00-R23 08/27/2005	2-710-00-L56 08/27/2005	7-711-50-L35 08/27/2005	3-712-00-L34 08/27/2005	3-713-00-R23 08/29/2005	1-713-00-C07 08/27/2005	3-713-00-L34 08/25/2005	2-715-00-R12 08/29/2005	2-715-00-L67 08/25/2005	6-718-00-L35 08/25/2005	1-720-00-C07 08/27/2005	2-720-00-L67 08/25/2005	6-723-00-L35 08/25/2005	2-725-00-R12 08/27/2005	2-725-00-L34 08/25/2005	3-728-00-R45 08/27/2005
415.1_LK (mg/Kg)																					
Total Organic Carbon	NA	NA	25800	28600	22500	19400	24100	23700 J	23400 J	14600	27500 J	22100	3500	19200	23700	41500 J-	21900	21300	24700 J-	31900	30600 J-
6010B (mg/Kg)																					
ARSENIC	7.5	6	17.6	8.5	7.6	7.4	9.6	8.4	8.3	17.2	36.1	8.5	51.0	9.2	7.9	41.1	8.6	8.7	357	8.5	81.2
BARIUM	300	NA	160	110	105	110	127	102	120	118	108	96.5	68.9	106	97.0	137	107	83.7	1690	99.1	463
CADMIUM	1	0.6	1.6	0.81	0.56	0.40	0.54	0.57	0.47	1.2	3.6	0.12	1.3	0.17	0.17	2.7	0.19	1.4	4.7	0.17	2.9
CHROMIUM	10	26	85.9	58.3	19.4 J	20.9 J	39.6 J	23.8 J	19.9 J	143	153 J	21.1	109	20.2	17.3	279 J	18.4	34.5	53.1 J	18.9	89.0 J
COPPER	25	16	73.5	50.8	38.4	42.6	47.2	42.8	42.8	70.2	143	38.4	553	43.9	36.2	206	41.8	53.4	915	40.6	286
IRON	2000	20000	40700	28100	28800 J	27500 J	34000 J	26900 J	31800 J	21200	58900 J	24800 J+	21800	27400 J+	23800 J+	103000 J	26000 J+	28800 J+	97400 J	25800 J+	427000 J
LEAD	NA	31	108 J	76.8 J	33.5 J	35.3 J	54.0 J	38.9 J	30.8 J	538 J	262 J	38.0 J	788 J	58.5 J	37.5 J	381 J	45.7 J	91.8 J	8510 J	38.3 J	397 J
MANGANESE	NA	460	1200	671	647 J	547 J	754 J	598 J	695 J	794	876 J	527 J+	643	664 J+	620 J+	1290 J	692 J+	686 J+	486 J	507 J+	9250 J
NICKEL	13	16	38.1	29.7	28.4	25.6	32.2	27.0	30.8	22.6	41.4	25.9	12.7	30.6	26.1	42.4	28.7	27.1	33.9	27.3	67.7
SELENIUM	2	NA	2.5 UJ	2.2 UJ	1.9 J	1.1 J	1.7 J	1.7 J	1.3 J	1.3 UJ	3.1 J	0.52 UJ	1.2 UJ	0.51 UJ	0.55 UJ	3.7 J	0.59 UJ	0.47 UJ	20.3 J	0.61 UJ	15.0 J
SILVER	NA	1	0.56 J	0.49 J	0.25 U	0.29 U	0.31	0.25 U	0.51	0.38 J	0.65	0.25 U	0.60 J	0.27	0.26 U	0.94	0.28 U	0.22 U	6.4	0.29 U	9.0
ZINC	20	120	245 J	211 J	127 J	130 J	168 J	131 J	142 J	410 J	646 J	112	356 J	137	122	932 J	120	160	1640 J	127	884 J
MERCURY	0.1	0.15	0.86 J+	0.23 J+	0.11	0.66	0.11	0.21	0.060	6.1 J	1.6	0.14 J	5.3 J	0.097 J	0.083 J	3.5	0.15 J	0.24 J	9.5 J-	0.056 J	0.23
8081A (ug/Kg)																					
2,4'-DDD	NA	0.22	5.8 U	5.2 U	5.1 U	5.2 U	5.3 U	4.9 U	5.4 U	4.6 U	5.2 U	5.3 U	3.9 U	5.1 U	5.0 U	4.7 U	5.2 U	4.9 U	5.1 U	5.8 U	5.0 U
2,4'-DDE	NA	0.22	5.8 U	5.2 U	5.1 U	5.2 U	5.3 U	4.9 U	5.4 U	4.6 U	5.2 U	5.3 U	3.9 U	5.1 U	5.0 U	4.7 U	5.2 U	4.9 U	5.1 U	5.8 U	5.0 U
2,4'-DDT	NA	0.22	5.8 U	5.2 U	5.1 U	5.2 U	5.3 U	4.9 U	5.4 U	4.6 U	5.2 U	5.3 U	3.9 U	5.1 U	5.0 U	27	5.2 U	4.9 U	6.7	5.8 U	5.0 U
4,4'-DDD	2900	0.22	5.8 U	5.2 U	5.1 U	5.2 U	5.3 U	4.9 U	5.4 U	4.6 U	7.8	5.3 U	3.9 U	5.2	5.0 U	55	5.2 U	4.9 U	5.1 U	5.8 U	5.0 U
4,4'-DDE	2100	0.22	5.8 U	7.6	5.1 U	5.2 U	5.3 U	4.9 U	5.4 U	4.6 U	7.0	5.3 U	3.9 U	7.2	5.0 U	11	5.3	4.9 U	26	5.8 U	5.0 U
4,4'-DDT	2100	0.22	5.8 U	5.2 U	5.1 U	5.2 U	5.3 U	4.9 U	5.4 U	4.6 U	5.2 U	5.3 U	3.9 U	5.1 U	5.0 U	19	5.2 U	4.9 U	12	5.8 U	5.0 U
ALDRIN	41	2.2	2.9 U	2.6 U	2.6 U	2.6 U	2.6 U	2.4 U	2.7 U	2.3 U	2.6 U	2.6 U	2.0 U	2.6 U	2.5 U	2.3 U	2.6 U	2.5 U	2.6 U	2.9 U	2.5 U
ALPHA-BHC	110	1.32	2.9 U	2.6 U	2.6 U	2.6 U	2.6 U	2.4 U	2.7 U	2.3 U	2.6 U	2.6 U	2.0 U	2.6 U	2.5 U	2.3 U	2.6 U	2.5 U	6.6	2.9 U	2.5 U
ALPHA-CHLORDANE	NA	0.022	2.9 U	2.6 U	2.6 U	2.6 U	2.6 U	2.4 U	2.7 U	2.3 U	2.6 U	2.6 U	2.0 U	2.6 U	2.5 U	2.7	2.6 U	2.5 U	2.6 U	2.9 U	2.5 U
BETA-BHC	200	1.32	2.9 U	2.6 U	2.6 U	2.8	2.6 U	2.4 U	2.7 U	4.9	2.6 U	2.6 U	2.0 U	2.6 U	2.5 U	8.1	2.6 U	2.5 U	2.6 U	2.9 U	2.5 U
DELTA-BHC	300	1.32	2.9 U	2.6 U	2.6 U	2.6 U	2.6 U	2.4 U	2.7 U	2.3 U	2.6 U	2.6 U	2.0 U	2.6 U	2.5 U	2.3 U	2.6 U	2.5 U	3.8	2.9 U	2.5 U
DIELDRIN	44	2.2	5.8 U	5.2 U	5.1 U	5.2 U	5.3 U	4.9 U	5.4 U	4.6 U	5.2 U	5.3 U	3.9 U	5.1 U	5.0 U	6.3	5.2 U	4.9 U	5.1 U	5.8 U	5.0 U
ENDOSULFAN I	900	NA	2.9 U	2.6 U	2.6 U	2.6 U	2.6 U	2.4 U	2.7 U	2.3 U	2.6 U	2.6 U	2.0 U	2.6 U	2.5 U	2.3 U	2.6 U	2.5 U	29	2.9 U	2.5 U
ENDOSULFAN II	900	NA	5.8 U	5.2 U	5.1 U	5.2 U	5.3 U	4.9 U	5.4 U	4.6 U	5.2 U	5.3 U	3.9 U	5.1 U	5.0 U	4.7	5.2 U	4.9 U	5.1 U	5.8 U	5.0 U
ENDOSULFAN SULFATE	1000	NA	5.8 U	5.2 U	5.1 U	5.2 U	5.3 U	4.9 U	5.4 U	4.6 U	9.0	5.3 U	3.9 U	5.1 U	5.0 U	6.6	5.2 U	4.9 U	19	5.8 U	5.0 U
ENDRIN	100	17.6	5.8 U	5.2 U	5.1 U	5.2 U	5.3 U	4.9 U	5.4 U	4.6 U	7.5	5.3 U	3.9 U	5.1 U	5.0 U	7.2	5.2 U	4.9 U	5.1 U	5.8 U	5.0 U
ENDRIN ALDEHYDE	NA	NA	5.8 U	5.2 U	5.1 U	5.2 U	5.3 U	4.9 U	5.4 U	4.6 U	5.2 U	5.3 U	3.9 U	5.1 U	5.0 U	4.7 U	5.2 U	4.9 U	7.1	5.8 U	5.0 U
GAMMA-BHC	60	1.32	2.9 U	2.6 U	2.6 U	2.6 U	2.6 U	2.4 U	2.7 U	2.3 U	2.6 U	2.6 U	2.0 U	2.6 U	2.5 U	3.4	2.6 U	2.5 U	16	2.9 U	2.5 U
GAMMA-CHLORDANE	540	0.022	2.9 U	2.6 U	2.6 U	2.6 U	2.6 U	2.4 U	2.7 U	2.3 U	2.6 U	2.6 U	2.0 U	2.6 U	2.5 U	4.8	2.6 U	2.5 U	2.6 U	2.9 U	2.5 U
HEPTACHLOR	100	0.0176	2.9 U	2.6 U	2.6 U	3.2	2.6 U	2.4 U	2.7 U	2.3 U	2.6 U	2.6 U	2.0 U	2.6 U	2.5 U	3.3	2.6 U	2.5 U	2.6 U	2.9 U	2.5 U
HEPTACHLOR EPOXIDE	20	0.0176	2.9 U	2.6 U	2.6 UJ	2.6 UJ	2.6 UJ	2.4 UJ	2.7 UJ	2.3 U	2.6 UJ	2.6 U	2.0 U	2.6 U	2.5 U	2.3 UJ	2.6 U	2.5 U	3.9 J	2.9 U	2.5 UJ
METHOXYCHLOR	NA	NA	29 U	26 U	26 U	26 U	26 U	24 U	27 U	23 U	26 U	26 U	20 U	26 U	25 U	78	26 U	25 U	83	29 U	25 U
8082 (ug/Kg)																					
AROCLOR 1242	1000	0.0176	160	42	26 U	470	26 U	24 U	27 U	23 U	560	26 U	20 U	26 U	25 U	1400	26 U	60	110	29 UJ	25 UJ
AROCLOR 1248	1000	0.0176	29 U	26 U	26 U	78 U	26 U	30	27 U	23 U	52 U	26 U	20 U	26 U	25 U	120 U	26 U	25 U	26 U	29 UJ	25 UJ
AROCLOR 1254	1000	0.0176	140	73	26 U	280	26 U	24 U	27 U	28	400	26 U	20 U	35	25 U	840	32	51	76	29 UJ	42 J
AROCLOR 1260	1000	0.0176	58	40	26 U	78 U	26 U	24 U	27 U	23 U	87	26 UJ	20 U	26 UJ	25 UJ	120 U	34 J-	25 UJ	41	29 UJ	25 UJ
AROCLOR 1262	1000	0.0176	29 U	26 U	26 U	78 U	26 U	24 U	27 U	23 U	52 U	26 U	20 U	26 U	25 U	120 U	26 U	25 U	26 U	29 UJ	25 UJ
AROCLOR 1268	1000	0.0176	29 U	26 U	26 U	78 U	26 U	24 U	27 U	23 U	52 U	26 U	20 U	26 U	25 U	120 U	26 U	25 U	26 U	29 UJ	25 UJ
8270C (ug/Kg)																					
2,4,5-TRICHLOROPHENOL	100	NA	4900 U	1300 U	1300 U	1300 U	1300 U	1200 U	1300 U	1200 U	13000 U	1300 U	1400 U	1300 U	1300 U	12000 U	13000 U	1200 U	13000 U	1500 U	12000 U
2,4,6-TRICHLOROPHENOL	NA	NA	1900 U	520 U	510 U	510 U	520 U	490 U	530 U	460 U	5200 U	520 U	550 U	510 U	500 U	4700 U	5200 U	490 U	5100 U	580 U	4700 U
2,4-DICHLOROPHENOL	400	NA	1900 U	520 U	510 U	510 U	520 U	490 U	530 U	460 U	5200 U	520 U	550 U	510 U	500 U	4700 U	5200 U	490 U	5100 U	580 U	4700 U
2,4-DIMETHYLPHENOL	NA	NA	1900 U	520 U	510 U	510 U	520 U	490 U	530 U	460 U	5200 U	520 U	550 U	510 U	500 U	4700 U	5200 U	490 U	5100 U	580 U	4700 U
2,4-DINITROPHENOL	200	NA	4900 UJ	1300 U	1300 UJ	1300 UJ	1300 UJ	1200 UJ	1300 UJ	1200 U	13000 UJ	1300 U	1400 UJ	1300 U	1300 U	12000 UJ	13000 U	1200 U	13000 UJ	1500 U	12000 UJ
2,4-DINITROTOLUENE	NA	NA	1900 U	520 U	510 U	510 U	520 U	490 U	530 U	82 J	5200 U	520 U	180 J	510 U	500 U	4700 U	5200 U	490 U	5100 U	580 U	4700 U
2,6-DINITROTOLUENE	1000	NA	1900 U	520 U	510 U	510 U	520 U	490 U	530 U	74 J	5200 U	520 U	61 J	510 U	500 U	4700 U	5200 U	490 U	5100 U	580 U	4700 U
2-CHLORONAPHTHALENE	NA	NA	1900 U	520 U	510 U	510 U	520 U	490 U	530 U	460 U	5200 U	520 U	550 U	510 U	500 U	4700 U	5200 U	490 U	5100 U	580 U	4700 U
2-CHLOROPHENOL	800	NA	1900 U	520 U	510 U	510 U	520 U	490 U	530 U	460 U	5200 U	520 U	550 U	510 U	500 U	4700 U	5200 U	490 U	5100 U	580 U	4700 U
2-METHYLNAPHTHALENE	36400	NA	6800	80 J	39 J	29 J	28 J	30 J	29 J	34 J	7800	520 U	47 J	110 J	500 U	8300	530 J	370 J	5100 U	69 J	640 J
2-METHYLPHENOL	100	NA	1900 U	520 U	510 U	510 U	520 U	490 U	530 U	460 U	5200 U	520 U	550 U	510 U	500 U	4700 U	5200 U	490 U	5100 U	580 U	4700 U
2-NITROANILINE	430	NA	4900 U	1300 U	1300 U	1300 U	1300 U	1200 U	1300 U	1200 U	13000 U	1300 U	1400 U	1300 U	1300 U	12000 U	13000 U	1200 U	13000 U	1500 U	12000 U
2-NITROPHENOL	330	NA	1900 U	520 U	510 U	510 U	520 U	490 U	530 U	460 U	5200 U	520 U	550 U	510 U	500 U	4700 U	5200 U	490 U	5100 U	580 U	4700 U
3,3'-DICHLOROBENZIDINE	NA	NA	1900 U	520 UJ	510 UJ	510 UJ	520 UJ	490 UJ	530 UJ	460 UJ	5200 UJ	520 UJ	550 U	510 UJ	500 UJ	880 UJ	5200 UJ	490 UJ	950 UJ	580 UJ	4700 UJ
3-NITROANILINE	500	NA	4900 U	1300 U	1300 U	1300 U	1300 U	1200 U	1300 U	1200 U	13000 U	1300 U	1400 U	1300 U	1300 U	12000 U	13000 U	1200 U	13000 U	1500 U	12000 U
4,6-DINITRO-2-METHYLPHENOL	NA	NA	4900 U	1300 U	1300 U	1300 U	1300 U	1200 U	1300 U	1200 U	13000 U	1300 U	1400 U	1300 U	1300 U	12000 U	13000 U	1200 U	13000 U	1500 U	12000 U
4-BROMOPHENYL PHENYL ETHER	NA	NA	1900 U	520 U	510 U	510 U	520 U	490 U	530 U	460 U	5200 U	520 U	550 U	510 U	500 U	4700 U	5200 U	490 U	5100 U	580 U	4700 U
4-CHLORO-3-METHYLPHENOL	240	NA	1900 U	520 U	510 U	510 U	520 U	490 U	530 U	460 U	5200 U	520 U	550 U	510 U	500 U	4700 U	5200 U	490 U	5100 U	580 U	4700 U
4-CHLOROANILINE	220	NA	1900 U	520 U	510 U	510 U	520 U	490 U	530 U	460 U	5200 U	520 U	550 U	510 U	500 U	4700 U	5200 U	490 U	5100 U	580 U	4700 U

Table 6 Summary of Results for Subsurface Sediments (>1'), Buffalo River Sediment Study 2005

Analyte	Screening Criteria (1)	Screening Criteria (2)	6-702-50-L03 08/29/2005	2-705-00-R34 08/29/2005	6-708-00-L35 08/27/2005	2-710-00-R23 08/27/2005	2-710-00-L56 08/27/2005	7-711-50-L35 08/27/2005	3-712-00-L34 08/27/2005	3-713-00-R23 08/29/2005	1-713-00-C07 08/27/2005	3-713-00-L34 08/25/2005	2-715-00-R12 08/29/2005	2-715-00-L67 08/25/2005	6-718-00-L35 08/25/2005	1-720-00-C07 08/27/2005	2-720-00-L67 08/25/2005	6-723-00-L35 08/25/2005	2-725-00-R12 08/27/2005	2-725-00-L34 08/25/2005	3-728-00-R45 08/27/2005
4-CHLOROPHENYL PHENYL ETHER	NA	NA	1900 U	520 U	510 U	510 U	520 U	490 U	530 U	460 U	5200 U	520 U	550 U	510 U	500 U	4700 U	5200 U	490 U	5100 U	580 U	4700 U
4-METHYLPHENOL	900	NA	1900 U	520 U	510 U	510 U	520 U	490 U	530 U	460 U	5200 U	520 U	550 U	510 U	500 U	4700 U	5200 U	490 U	5100 U	580 U	4700 U
4-NITROANILINE	NA	NA	4900 U	1300 U	1300 U	1300 U	1300 U	1200 U	1300 U	1200 U	13000 U	1300 U	1400 U	1300 U	1300 U	12000 U	13000 U	1200 U	13000 U	1500 U	12000 U
4-NITROPHENOL	100	NA	4900 U	1300 U	1300 U	1300 U	1300 U	1200 U	1300 U	1200 U	13000 U	1300 U	1400 U	1300 U	1300 U	12000 U	13000 UJ	1200 U	13000 U	1500 U	12000 U
ACENAPHTHENE	50000	NA	4800	150 J	130 J	45 J	58 J	31 J	35 J	95 J	5100 J	30 J	64 J	38 J	33 J	2800 J	550 J	100 J	700 J	34 J	290 J
ACENAPHTHYLENE	41000	NA	1900 U	520 U	35 J	510 U	27 J	490 U	530 U	460 U	5200 U	520 U	100 J	23 J	500 U	1200 J	5200 U	490 U	5100 U	580 U	4700 U
ACETOPHENONE	NA	NA	1900 U	520 U	510 U	510 U	520 U	490 U	530 U	30 J	5200 U	520 U	42 J	510 UJ	500 U	4700 U	5200 U	490 UJ	5100 U	580 U	4700 U
ANTHRACENE	50000	NA	4400	310 J	190 J	80 J	120 J	77 J	71 J	190 J	6700	75 J	670	97 J	77 J	6400	1000 J	180 J	2200 J	49 J	910 J
ATRAZINE	NA	NA	1900 U	520 U	510 U	510 U	520 U	490 U	530 U	460 U	5200 U	520 U	550 U	510 U	500 U	4700 U	5200 U	490 U	5100 U	580 U	4700 U
BENZALDEHYDE	NA	NA	1900 U	520 U	510 UJ	510 UJ	520 UJ	490 UJ	530 UJ	460 UJ	5200 UJ	520 UJ	550 U	510 UJ	500 UJ	4700 UJ	5200 UJ	490 U	5100 UJ	150 J	4700 UJ
BENZO(A)ANTHRACENE	224	NA	2600	470 J	400 J	240 J	350 J	270 J	280 J	440 J	3100 J	270 J	890	290 J	330 J	2900 J	3100 J	440 J	2000 J	210 J	810 J
BENZO(A)PYRENE	61	28.6	1600 J	370 J	440 J	280 J	400 J	320 J	330 J	270 J	2500 J	320 J	590 J	340 J	430 J	2000 J	2900 J	360 J	1600 J	260 J	550 J
BENZO(B)FLUORANTHENE	1100	NA	1900 J	590 J	470 J	350 J	540	320 J	460 J	340 J	2500 J	430 J	760 J	410 J	980	2100 J	4600 J	890	1900 J	290 J	560 J
BENZO(G,H,I)PERYLENE	50000	NA	690 J	160 J	240 J	120 J	170 J	190 J	170 J	99 J	880 J	140 J	530 J	190 J	190 J	620 J	1500 J	160 J	650 J	200 J	240 J
BENZO(K)FLUORANTHENE	1100	NA	1900 J	380 J	570	340 J	490 J	440 J	360 J	330 J	2600 J	480 J	560 J	500 J	500 U	1600 J	3500 J	490 UJ	1500 J	300 J	520 J
BIPHENYL	NA	NA	95 J	27 J	510 U	510 U	520 U	490 U	530 U	29 J	620 J	520 U	26 J	510 U	500 U	2500 J	5200 U	30 J	5100 U	580 U	4700 U
BIS(2-CHLOROETHOXY)METHANE	NA	NA	1900 U	520 U	510 U	510 U	520 U	490 U	530 U	460 U	5200 U	520 U	550 U	510 U	500 U	4700 U	5200 U	490 U	5100 U	580 U	4700 U
BIS(2-CHLOROETHYL) ETHER	NA	0.66	1900 U	520 U	510 U	510 U	520 U	490 U	530 U	460 U	5200 U	520 U	550 U	510 U	500 U	4700 U	5200 U	490 U	5100 U	580 U	4700 U
BIS(2-CHLOROISOPROPYL) ETHER	NA	NA	1900 U	520 U	510 U	510 U	520 U	490 U	530 U	460 U	5200 U	520 U	550 U	510 U	500 U	4700 U	5200 U	490 U	5100 U	580 U	4700 U
BIS(2-ETHYLHEXYL) PHTHALATE	50000	NA	650 J	190 J	330 J	250 J	520 J	300 J	330 J	120 J	650 J	390 J	550 U	530	450 J	620 J	2500 J	490	570 J	330 J	4700 U
BUTYLBENZYL PHTHALATE	50000	NA	1900 U	520 U	510 U	510 U	520 U	490 U	530 U	460 U	5200 U	520 U	550 U	510 U	500 U	4700 U	650 J	490 U	5100 U	580 U	4700 U
CAPROLACTAM	NA	NA	1900 U	520 U	510 U	510 U	520 U	490 U	530 U	460 U	5200 U	520 UJ	550 U	510 U	500 UJ	4700 U	5200 U	490 U	5100 U	580 UJ	4700 U
CARBAZOLE	NA	NA	580 J	58 J	45 J	26 J	31 J	32 J	42 J	64 J	1100 J	32 J	64 J	30 J	41 J	560 J	460 J	31 J	690 J	34 J	4700 U
CHRYSENE	400	NA	2700	460 J	570	400 J	550	440 J	450 J	500	3400 J	430 J	870	550	600	3300 J	4400 J	630	2500 J	380 J	1200 J
DIBENZ(A,H)ANTHRACENE	14	NA	220 J	33 J	80 J	45 J	60 J	54 J	55 J	30 J	410 J	60 J	100 J	64 J	58 J	4700 U	660 J	35 J	260 J	54 J	4700 U
DIBENZOFURAN	6200	NA	3100	41 J	64 J	510 U	34 J	23 J	530 U	40 J	3300 J	520 U	49 J	30 J	23 J	2300 J	330 J	38 J	720 J	580 U	4700 U
DIETHYL PHTHALATE	7100	NA	1900 U	520 U	510 U	510 U	520 U	490 U	530 U	460 U	5200 U	520 U	550 U	510 U	500 U	4700 U	5200 U	490 U	5100 U	580 U	4700 U
DIMETHYL PHTHALATE	2000	NA	1900 U	520 U	510 U	510 U	520 U	490 U	530 U	460 U	5200 U	520 U	550 U	510 U	500 U	4700 U	5200 U	490 U	5100 U	580 U	4700 U
DI-N-BUTYL PHTHALATE	8100	NA	1900 U	520 U	510 U	510 U	520 U	490 U	530 U	460 U	5200 U	57 J	550 U	27 J	55 J	4700 U	5200 U	490 U	5100 U	580 U	4700 U
DI-N-OCTYL PHTHALATE	50000	NA	1900 UJ	520 UJ	510 U	510 U	520 U	490 U	530 U	460 U	5200 U	520 U	550 UJ	510 U	500 U	4700 U	5200 U	490 U	5100 U	580 U	4700 U
FLUORANTHENE	50000	NA	9600	1200	1200	660	970	800	810	850	10000	720	2000	870	960	11000	8900	1000	5100	580	1800 J
FLUORENE	50000	NA	4700	180 J	150 J	64 J	98 J	52 J	57 J	70 J	7700	48 J	62 J	80 J	54 J	7000	850 J	130 J	1900 J	580 U	840 J
HEXACHLOROBENZENE	410	NA	1900 U	520 U	510 U	510 U	520 U	490 U	530 U	460 U	5200 U	520 U	550 U	510 U	500 U	4700 U	5200 U	490 U	5100 U	580 U	4700 U
HEXACHLOROBUTADIENE	NA	6.6	1900 U	520 U	510 U	510 U	520 U	490 U	530 U	460 U	5200 U	520 U	550 U	510 U	500 U	4700 U	5200 U	490 U	5100 U	580 U	4700 U
HEXACHLOROCYCLOPENTADIENE	NA	NA	1900 UJ	520 UJ	510 UJ	510 UJ	520 UJ	490 UJ	530 UJ	460 UJ	5200 UJ	520 U	550 UJ	510 U	500 U	4700 UJ	5200 UJ	490 UJ	5100 UJ	580 U	4700 UJ
HEXACHLOROETHANE	NA	NA	1900 U	520 U	510 U	510 U	520 U	490 U	530 U	460 U	5200 U	520 U	550 U	510 U	500 U	4700 U	5200 U	490 U	5100 U	580 U	4700 U
INDENO(1,2,3-CD)PYRENE	3200	NA	630 J	150 J	220 J	120 J	160 J	190 J	170 J	89 J	850 J	110 J	310 J	170 J	160 J	610 J	1300 J	120 J	650 J	170 J	230 J
ISOPHORONE	4400	NA	1900 U	520 U	510 U	510 U	520 U	490 U	530 U	460 U	5200 U	520 U	550 U	510 U	500 U	4700 U	5200 U	490 U	5100 U	580 U	4700 U
NAPHTHALENE	13000	NA	1700 J	88 J	73 J	39 J	39 J	30 J	530 U	80 J	6600	30 J	63 J	510 U	500 U	15000	5200 U	110 J	28000	31 J	6100
NITROBENZENE	200	NA	1900 U	520 U	510 U	510 U	520 U	490 U	530 U	460 U	5200 U	520 U	550 U	510 U	500 U	4700 U	5200 U	490 U	5100 U	580 U	4700 U
N-NITROSO-DI-N-PROPYLAMINE	NA	NA	1900 U	520 U	510 U	510 U	520 U	490 U	530 U	460 U	5200 U	520 U	550 U	510 U	500 U	4700 U	5200 U	490 U	5100 U	580 U	4700 U
N-NITROSODIPHENYLAMINE	NA	NA	980 J	520 U	510 U	510 U	520 U	490 U	530 U	600	5200 U	520 U	98 J	510 U	500 U	4700 U	5200 U	490 U	3400 J	580 U	3600 J
PENTACHLOROPHENOL	1000	NA	4900 U	1300 U	1300 U	1300 U	1300 U	1200 U	1300 U	1200 U	13000 U	1300 U	1400 U	1300 U	1300 U	12000 U	13000 U	1200 U	13000 U	1500 U	12000 U
PHENANTHRENE	50000	NA	13000	850	660	330 J	540	370 J	400 J	510	15000	380 J	920	510	470 J	17000	5500	760	2300 J	290 J	1700 J
PHENOL	30	NA	1900 U	520 U	510 U	510 U	520 U	490 U	530 U	460 U	5200 U	520 U	550 U	510 U	500 U	4700 U	5200 U	490 U	5100 U	580 U	4700 U
PYRENE	50000	NA	8800	940	990	620	890	690	750	1100	7000	850	2400	820	1100	8800	8900	1300	4400 J	460 J	1800 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 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. 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 6 Summary of Results for Subsurface Sediments (>1'), Buffalo River Sediment Study 2005

Analyte	Screening Criteria (1)	Screening Criteria (2)	3-728-00-L23 08/25/2005	1-730-00-C07 08/27/2005	2-730-00-L23 08/25/2005	3-733-00-R67 08/26/2005	2-735-00-R12 08/26/2005	1-735-00-C06 08/25/2005	2-735-00-L56 08/26/2005	2-740-00-R56 08/24/2005	1-740-00-C03 08/24/2005	6-743-00-R35 08/24/2005	2-745-00-R78 08/24/2005	2-745-00-L67 08/24/2005	6-748-00-R35 08/26/2005	6-748-00-L35 08/24/2005	6-748-00-L910 08/24/2005	2-750-00-R23 08/26/2005	1-750-00-C05 08/26/2005	2-750-00-L56 08/26/2005	6-753-00-R35 08/26/2005
415.1_LK (mg/Kg)																					
Total Organic Carbon	NA	NA	24900	38500	15600	34400	26700	33100	27400	25900	20600 J	24800 J	22300 J	21300 J	26100	21800 J	24800 J	23100	27400	20900	26600
6010B (mg/Kg)																					
ARSENIC	7.5	6	23.5	39.5	7.0	25.6	9.8	16.4	9.0	52.0 J	7.5 J	10.3 J	10.4 J	6.5 J	15.2	8.5 J	20.4 J	9.2	8.9	7.0	7.6
BARIUM	300	NA	74.8	113	80.6	133	115	102	109	99.0	93.8	117	96.7	76.7	92.2	94.6	108	117	110	95.9	104
CADMIUM	1	0.6	0.98	3.8	0.075 U	8.6	1.7	1.6	1.3	1.4	0.23	0.41	0.67	0.081 U	1.6	0.080 U	1.3	1.7	1.3	0.96	1.3
CHROMIUM	10	26	257	702	17.6	174	22.3	79.9	18.4	149 J	19.9 J	18.0 J	30.8 J	13.5 J	41.4	17.2 J	98.1 J	23.9	20.1	15.2	17.8
COPPER	25	16	201	265	36.9	155	42.3	81.2	41.0	130 J	39.6	37.3	77.3	30.3	69.2	34.2	109	52.0	35.1	31.6	38.0
IRON	2000	20000	43300 J+	49600	22400 J+	51700	28600	31600 J+	26600	24800 J+	24400 J+	25700 J+	28900 J+	19700 J+	25600	23600 J+	27900 J+	28900	25100	21900	22400
LEAD	NA	31	223 J	431 J	32.0 J	199 J	40.6 J	116 J	29.6 J	247 J-	42.4 J	70.7 J	89.9 J	37.4 J	88.7 J	39.4 J	85.5 J	170 J	30.4 J	155 J	40.3 J
MANGANESE	NA	460	1280 J+	825	549 J+	733	837	641 J+	721	444 J-	566 J+	581 J+	529 J+	401 J+	477	548 J+	538 J+	604	644	358	656
NICKEL	13	16	35.3	41.8	26.0	40.8	30.1	30.3	27.9	28.7	26.5 J	26.2 J	30.1 J	22.5 J	28.1	25.2 J	24.8 J	30.2	27.4	23.3	28.6
SELENIUM	2	NA	0.52 UJ	1.7 J-	0.50 UJ	2.3 J-	1.3 J-	0.62 UJ	0.82 J-	0.65	0.53 U	0.62 U	0.56 U	0.54 U	1.0 J-	0.54 U	0.52 U	1.7 J-	1.1 J-	0.75 J-	1.3 J-
SILVER	NA	1	0.32	0.39	0.24 U	0.71	0.31 U	0.34	0.30	0.48	0.25 U	0.30 U	0.35	0.26 U	0.40	0.25 U	0.34	0.64	0.31 U	0.27	0.33
ZINC	20	120	305	397 J	102	330 J	135 J	220	121 J	243	118 J	124 J	150 J	85.3 J	139 J	108 J	176 J	160 J	114 J	90.1 J	145 J
MERCURY	0.1	0.15	1.5 J	4.8 J	0.077 J	2.2 J	0.18 J	0.56 J	0.086 J	2.5	0.14	0.21	0.31	0.050	1.6 J	0.098	0.83	0.20 J	0.046 J	0.45 J	0.069 J
8081A (ug/Kg)																					
2,4'-DDD	NA	0.22	4.6 U	110 U	5.1 UJ	5.3 U	6.2 U	5.3 U	5.5 U	5.1 U	5.1 U	5.7 U	5.2 U	5.4 U	27 U	5.1 U	6.0	5.4 U	5.6 U	4.6 U	4.9 U
2,4'-DDE	NA	0.22	4.6 U	110 U	5.1 UJ	5.3 J	6.2 U	5.3 U	5.5 U	5.1 U	5.1 U	5.7 U	5.2 U	5.4 U	100 NJ	5.1 U	4.5 U	5.4 U	5.6 U	4.6 U	4.9 U
2,4'-DDT	NA	0.22	21	110 U	5.1 UJ	5.3 U	6.2 U	5.3 U	5.5 U	5.1 U	5.1 U	5.7 U	5.2 U	5.4 U	45 NJ	5.1 U	4.5 U	5.4 U	5.6 U	4.6 U	4.9 U
4,4'-DDD	2900	0.22	8.3	110 U	5.1 U	5.9 J	6.2 U	5.3 U	5.5 U	5.1 U	5.1 UJ	5.7 UJ	9.9 J	5.4 UJ	27 U	5.1 UJ	9.1	5.4 U	5.6 U	4.6 U	4.9 U
4,4'-DDE	2100	0.22	8.0	110 U	5.1 U	13 NJ	6.2 U	5.9	5.5 U	8.0	8.4	5.7 U	20	7.0	150 NJ	5.1 U	7.2	5.4 U	5.6 U	4.6 U	4.9 U
4,4'-DDT	2100	0.22	9.3	110 U	5.1 UJ	5.3 U	6.2 U	5.3 U	5.5 U	6.4	5.1 U	5.7 U	5.6	5.4 U	27 U	6.6	5.0	5.4 U	5.6 U	4.6 U	4.9 U
ALDRIN	41	2.2	2.3 U	55 U	2.6 U	2.6 U	3.1 U	2.6 U	2.7 U	2.6	2.5 U	2.9 U	2.6 U	2.7 U	430 J	2.6 U	2.3 U	2.7 U	2.8 U	2.3 U	2.5 U
ALPHA-BHC	110	1.32	2.3 U	55 U	2.6 UJ	2.6 U	3.1 U	2.6 U	2.7 U	2.6 U	2.5 U	2.9 U	2.6 U	2.7 U	13 U	2.6 U	2.3 U	2.7 U	2.8 U	2.3 U	2.5 U
ALPHA-CHLORDANE	NA	0.022	2.3 U	55 U	2.6 U	5.5 J	3.1 U	2.6 U	2.7 U	2.6 U	2.5 U	2.9 U	3.2	2.7 U	34 NJ	2.6 U	2.9	2.7 U	2.8 U	2.3 U	2.5 U
BETA-BHC	200	1.32	5.9	55 U	2.6 UJ	3.1 NJ	3.1 U	2.6 U	2.7 U	2.6 U	2.5 U	2.9 U	4.9	2.7 U	13 U	2.6 U	3.7	2.7 U	2.8 U	2.3 U	2.5 U
DELTA-BHC	300	1.32	14	55 U	2.6 UJ	2.6 U	3.1 U	6.3	2.7 U	2.6 U	2.5 U	2.9 U	2.6 U	2.7 U	13 U	2.6 U	21	2.7 U	2.8 U	2.3 U	2.5 U
DIELDRIN	44	2.2	7.7	110 U	5.1 U	5.6 J	6.2 U	5.3 U	5.5 U	5.1 U	5.1 U	5.7 U	6.6	5.4 U	27 U	5.1 U	6.3	5.4 U	5.6 U	4.6 U	4.9 U
ENDOSULFAN I	900	NA	2.3 U	55 U	2.6 U	2.6 U	3.1 U	2.6 U	2.7 U	2.6 U	2.5 U	2.9 U	2.6 U	2.7 U	13 U	2.6 U	2.3 U	2.7 U	2.8 U	2.3 U	2.5 U
ENDOSULFAN II	900	NA	4.9	110 U	5.1 U	5.3 U	6.2 U	5.3 U	5.5 U	5.1 U	5.1 U	5.7 U	5.2 U	5.4 U	27 U	5.1 U	9.3	5.4 U	5.6 U	4.6 U	4.9 U
ENDOSULFAN SULFATE	1000	NA	5.8	110 U	5.1 U	5.3 U	6.2 U	5.3 U	5.5 U	5.1 U	5.1 U	5.7 U	5.2 U	5.4 U	35 NJ	5.1 U	4.5 U	5.4 U	5.6 U	4.6 U	4.9 U
ENDRIN	100	17.6	4.6 U	110 U	5.1 U	5.3 U	6.2 U	5.3 U	5.5 U	5.1 U	5.1 U	5.7 U	5.2 U	5.4 U	57 NJ	5.1 U	4.7	5.4 U	5.6 U	4.6 U	4.9 U
ENDRIN ALDEHYDE	NA	NA	4.6 U	110 U	5.1 U	5.3 U	6.2 U	5.3 U	5.5 U	5.1 U	5.1 U	5.7 U	5.2 U	5.4 U	34 J	5.1 U	4.5 U	5.4 U	5.6 U	4.6 U	4.9 U
GAMMA-BHC	60	1.32	5.6	55 U	2.6 UJ	2.6 U	3.1 U	2.6 U	2.7 U	2.6 U	2.5 U	2.9 U	2.6 U	2.7 U	150 NJ	2.6 U	2.3 U	2.7 U	2.8 U	2.3 U	2.5 U
GAMMA-CHLORDANE	540	0.022	2.3 U	55 U	2.6 U	4.1 NJ	3.1 U	2.7	2.7 U	2.6 U	2.5 U	2.9 U	3.8	2.7 U	13 U	2.6 U	2.7	2.7 U	2.8 U	2.3 U	2.5 U
HEPTACHLOR	100	0.0176	4.2	55 U	2.6 UJ	2.6 U	3.1 U	2.6 U	2.7 U	2.6 U	2.5 U	2.9 U	3.4	2.7 U	180 J	2.6 U	2.3 U	2.7 U	2.8 U	2.3 U	2.5 U
HEPTACHLOR EPOXIDE	20	0.0176	6.5	55 U	2.6 U	3.6 NJ	3.1 U	2.6 U	2.7 U	2.6 U	2.5 U	2.9 U	2.7	2.7 U	70 NJ	2.6 U	2.9	2.7 U	2.8 U	2.3 U	2.5 U
METHOXYCHLOR	NA	NA	23 U	550 U	26 UJ	26 U	31 U	26 U	27 U	26 U	25 U	29 U	26 U	27 U	130 U	26 U	29	27 U	28 U	23 U	25 U
8082 (ug/Kg)																					
AROCLOR 1242	1000	0.0176	390	510	26 U	1000 J	31 U	190	27 U	440	25 U	29 U	180	27 U	33000 J	43	470	180 J	28 U	23 U	80
AROCLOR 1248	1000	0.0176	46 U	110 U	26 U	130 U	31 U	26 U	27 U	51 U	25 U	29 U	52 U	27 U	5400 U	26 U	68 U	54 U	28 U	23 U	25 U
AROCLOR 1254	1000	0.0176	360	440 J	26 U	1200	34 J	140	27 U	440	49	29 U	250	27 U	5400 U	57	500	230	28 U	23 U	130
AROCLOR 1260	1000	0.0176	73 J-	160 J	26 UJ	190	37	44 J-	27 U	71	49	29 U	100	27 U	5400 U	30	110	71	28 U	23 U	56
AROCLOR 1262	1000	0.0176	46 U	110 U	26 U	130 U	31 U	26 U	27 U	51 U	25 U	29 U	52 U	27 U	5400 U	26 U	68 U	54 U	28 U	23 U	25 U
AROCLOR 1268	1000	0.0176	46 U	110 U	26 U	130 U	31 U	26 U	27 U	51 U	25 U	29 U	52 U	27 U	5400 U	26 U	68 U	54 U	28 U	23 U	25 U
8270C (ug/Kg)																					
2,4,5-TRICHLOROPHENOL	100	NA	12000 U	91000 UJ	1300 U	13000 U	1500 U	1300 U	1400 U	13000 U	1300 U	1400 U	1300 U	1300 U	13000 U	1300 U	2200 U	1300 U	1400 U	1100 U	1200 U
2,4,6-TRICHLOROPHENOL	NA	NA	4600 U	36000 UJ	510 U	5200 U	610 U	520 U	540 U	5100 U	500 U	570 U	520 U	530 U	5300 U	510 U	890 U	530 U	550 U	450 U	480 U
2,4-DICHLOROPHENOL	400	NA	4600 U	36000 UJ	510 U	5200 U	610 U	520 U	540 U	5100 U	500 U	570 U	520 U	530 U	5300 U	510 U	890 U	530 U	550 U	450 U	480 U
2,4-DIMETHYLPHENOL	NA	NA	4600 U	36000 UJ	510 U	5200 U	610 U	520 U	540 U	5100 U	500 U	570 U	520 U	530 U	5300 U	510 U	890 U	530 U	550 U	450 U	480 U
2,4-DINITROPHENOL	200	NA	12000 U	91000 UJ	1300 U	13000 U	1500 U	1300 U	1400 U	13000 U	1300 U	1400 U	1300 U	1300 U	13000 U	1300 U	2200 U	1300 U	1400 U	1100 U	1200 U
2,4-DINITROTOLUENE	NA	NA	4600 U	36000 U	510 U	5200 U	610 U	520 U	540 U	5100 U	500 U	570 U	520 U	530 U	5300 U	510 U	890 U	530 U	550 U	450 U	480 U
2,6-DINITROTOLUENE	1000	NA	4600 U	36000 U	510 U	5200 U	610 U	520 U	540 U	5100 U	500 U	570 U	520 U	530 U	5300 U	510 U	890 U	530 U	550 U	450 U	480 U
2-CHLORONAPHTHALENE	NA	NA	4600 U	36000 UJ	510 U	5200 U	610 U	520 U	540 U	5100 U	500 U	570 U	520 U	530 U	5300 U	510 U	890 U	530 U	550 U	450 U	480 U
2-CHLOROPHENOL	800	NA	4600 U	36000 UJ	510 U	5200 U	610 U	31 J	540 U	5100 U	500 U	570 U	520 U	530 U	5300 U	510 U	890 U	530 U	550 U	450 U	480 U
2-METHYLNAPHTHALENE	36400	NA	4300 J	4100 J	68 J	1200 J	110 J	520 U	28 J	1600 J	130 J	59 J	520 U	24 J	710 J	510 U	890 U	41 J	52 J	450 U	480 U
2-METHYLPHENOL	100	NA	4600 U	36000 U	510 U	5200 U	610 U	520 U	540 U	5100 U	500 U	570 U	520 U	530 U	5300 U	510 U	890 U	530 U	550 U	450 U	480 U
2-NITROANILINE	430	NA	12000 U	91000 U	1300 U	13000 U	1500 U	1300 U	1400 U	13000 U	1300 U	1400 U	1300 U	1300 U	13000 U	1300 U	2200 U	1300 U	1400 U	1100 U	1200 U
2-NITROPHENOL	330	NA	4600 U	36000 U	510 U	5200 U	610 U	520 U	540 U	5100 U	500 U	570 U	520 U	530 U	5300 U	510 U	890 U	530 U	550 U	450 U	480 U
3,3'-DICHLOROBENZIDINE	NA	NA	4600 UJ	10000 J	510 R	1100 J	610 U	520 UJ	540 U	5100 UJ	500 UJ	570 UJ	520 UJ	530 UJ	19000	510 UJ	890 UJ	530 U	550 U	450 U	480 U
3-NITROANILINE	500	NA	12000 U	91000 U	1300 U	13000 U	1500 U	1300 U	1400 U	13000 U	1300 U	1400 U	1300 U	1300 U	13000 U	1300 U	2200 U	1300 U	1400 U	1100 U	1200 U
4,6-DINITRO-2-METHYLPHENOL	NA	NA	12000 U	91000 U	1300 U	640 J	1500 U	1300 U	1400 U	13000 U	1300 U	1400 U	1300 U	1300 U	13000 U	1300 U	2200 U	1300 U	1400 U	1100 U	1200 U
4-BROMOPHENYL PHENYL ETHER	NA	NA	4600 U	36000 U	510 U	5200 U	610 U	520 U	540 U	5100 U	500 U	570 U	520 U	530 U	5300 U	510 U	890 U	530 U	550 U	450 U	480 U
4-CHLORO-3-METHYLPHENOL	240	NA	4600 U	36000 UJ	510 U	5200 U	610 U	520 U	540 U	5100 U	500 U	570 U	520 U	530 U	5300 U	510 U	890 U	530 U	550 U	450 U	480 U
4-CHLOROANILINE	220	NA	4600 U	20000 J	510 U	1300 J	610 U	520 U	540 U	5100 U	500 U	570 U	520 U	530 U	5300 U	510 U	890 U	530 U	550 U	450 U	480 U

Table 6 Summary of Results for Subsurface Sediments (>1'), Buffalo River Sediment Study 2005

Analyte	Screening Criteria (1)	Screening Criteria (2)	4-753-00-L67 08/26/2005	2-755-00-R910 08/26/2005	2-755-00-L89 08/26/2005	6-758-00-R35 08/25/2005	4-758-00-L23 08/25/2005	2-760-00-R67 08/25/2005	1-760-00-C02 08/25/2005	2-760-00-L45 08/25/2005	6-763-00-R35 08/25/2005	4-763-00-L34 08/25/2005	2-765-00-R34 08/25/2005	2-765-00-L45 08/25/2005	3-768-00-R23 08/24/2005	2-775-00-L89 08/22/2005	2-780-00-R34 08/22/2005	1-780-00-C02 08/22/2005	2-780-00-L45 08/22/2005
415.1_LK (mg/Kg)																			
Total Organic Carbon	NA	NA	15500	28000	20000	29200 J	24200	23900 J	33500 J	27400	31500 J	15500 J	23200 J	18400 J	22300	23200	20200	11600	46000
6010B (mg/Kg)																			
ARSENIC	7.5	6	3.5	9.1	8.3	7.5 J	9.9	9.1 J	5.3 J	10.0	6.8 J	7.9 J	8.3 J	7.8 J	6.3 J	11.6 J	4.4 J	8.0 J	13.4 J
BARIUM	300	NA	45.2	126	90.3	109	90.8	106	83.6	146	116	71.9	97.4	77.6	84.5	115	60.2	113	105
CADMIUM	1	0.6	0.83	1.6	1.3	0.098 U	0.51	0.082 U	0.11 U	1.2	0.11 U	0.067 U	0.078 U	0.34	0.15	0.55	0.29	0.14	0.48
CHROMIUM	10	26	14.5	21.9	19.9	19.4 J	30.4	18.6 J	9.7 J	67.5	19.0 J	15.6 J	15.3 J	21.3 J	16.8 J	19.1 J	15.7 J	12.9 J	23.7 J
COPPER	25	16	24.5	43.0	40.6	39.0	62.3	38.0	23.7	113	37.7	28.6	29.5	41.8	32.2 J	53.9 J	36.1 J	34.3 J	39.5 J
IRON	2000	20000	20200	30800	25400	24700 J+	22200 J+	25400 J+	15600 J+	27900 J+	24700 J+	17500 J+	23700 J+	21100 J+	19300 J+	28400 J	20400 J	20000 J	22600 J
LEAD	NA	31	21.8 J	40.7 J	34.1 J	31.5 J	79.6 J	30.3 J	15.1 J	116 J	32.3 J	74.7 J	21.9 J	56.2 J	38.8 J-	64.3 J	19.8 J	31.4 J	38.9 J
MANGANESE	NA	460	239	787	574	675 J+	389 J+	666 J+	440 J+	599 J+	682 J+	311 J+	628 J+	382 J+	548 J-	542 J	326 J	455 J	350 J
NICKEL	13	16	25.3	35.1	26.3	27.9 J	24.2	28.0 J	17.5 J	34.7	26.8 J	19.4 J	25.2 J	22.2 J	22.4	32.4	29.2	22.6	29.7
SELENIUM	2	NA	0.56 J-	1.1 J-	0.70 J-	0.65 U	0.51 UJ	0.54 U	0.71 U	0.60 UJ	0.70 U	0.45 U	0.52 U	0.51 U	0.46 U	0.54 UJ	0.66 UJ	0.50 UJ	0.58 UJ
SILVER	NA	1	0.21 U	0.40	0.22	0.31 U	0.35	0.26 U	0.34 U	0.99	0.33 U	0.21 U	0.25 U	0.24 U	0.31	0.26 U	0.31 U	0.24 U	0.28 U
ZINC	20	120	96.8 J	134 J	106 J	128 J	142	119 J	64.0 J	207	130 J	86.0 J	88.6 J	119 J	110	164 J	80.9 J	69.9 J	127 J
MERCURY	0.1	0.15	0.19 J	0.13 J	0.10 J	0.10	0.28 J	0.071	0.038	0.34 J	0.084	0.072	0.075	0.11	0.041	0.17	0.027 U	0.020 U	0.14
8081A (ug/Kg)																			
2,4'-DDD	NA	0.22	4.1 U	5.4 U	4.8 U	5.8 U	4.6 U	5.4 U	6.3 U	5.6 U	5.9 U	4.5 U	5.3 U	4.9 U	5.0 UJ	5.0 U	6.3 U	4.5 U	6.3 U
2,4'-DDE	NA	0.22	4.1 U	5.4 U	4.8 U	5.8 U	4.6 U	5.4 U	6.3 U	6.5	5.9 U	4.5 U	5.3 U	4.9 U	5.0 UJ	5.0 U	6.3 U	4.5 U	6.3 U
2,4'-DDT	NA	0.22	4.1 U	5.4 U	4.8 U	5.8 U	10	5.4 U	6.3 U	18	5.9 U	4.5 U	5.3 U	4.9 U	5.0 UJ	5.0 U	24	8.1	6.3 U
4,4'-DDD	2900	0.22	4.1 U	5.4 U	4.8 U	5.8 U	9.0	5.4 U	6.3 UJ	19	5.9 UJ	4.5 U	5.3 UJ	4.9 UJ	5.0 UJ	5.0 U	6.3	4.5 U	17
4,4'-DDE	2100	0.22	4.3	5.4 U	6.4	5.8 U	9.3	5.4 U	6.3 U	21	5.9 U	4.5 U	5.3 U	7.1	5.0 UJ	5.0 U	8.2	4.7	6.3 U
4,4'-DDT	2100	0.22	4.1 U	5.4 U	4.8 U	5.8 U	5.2	5.4 U	6.3 U	28	5.9 U	4.5 U	5.3 U	4.9 U	5.0 UJ	5.0 U	7.4	13	6.3 U
ALDRIN	41	2.2	2.1 U	2.7 U	2.4 U	2.9 U	2.3 U	2.7 U	3.1 U	5.7	3.0 U	2.3 U	2.6 U	2.5 U	2.5 UJ	2.5 U	3.1 U	2.3 U	3.1 U
ALPHA-BHC	110	1.32	2.1 U	2.7 U	2.4 U	2.9 U	2.3 U	2.7 U	3.1 U	2.8 U	3.0 U	2.3 U	2.6 U	2.5 U	2.5 UJ	2.5 U	3.1 U	2.3 U	3.1 U
ALPHA-CHLORDANE	NA	0.022	2.1 U	2.7 U	2.4 U	2.9 U	3.5	2.7 U	3.1 U	4.7	3.0 U	2.3 U	2.6 U	2.5 U	2.5 UJ	2.5 U	3.1 U	2.3 U	3.1 U
BETA-BHC	200	1.32	2.1 U	2.7 U	2.4 U	2.9 U	2.3 U	2.7 U	3.1 U	2.8 U	3.0 U	2.3 U	2.6 U	2.5 U	2.5 UJ	2.5 U	3.1 U	3.5	3.1 U
DELTA-BHC	300	1.32	2.1 U	2.7 U	2.4 U	2.9 U	6.4	2.7 U	3.3	6.1	3.0 U	2.3 U	2.6 U	2.5 U	2.5 UJ	2.5 U	3.1 U	2.3 U	3.1 U
DIELDRIN	44	2.2	4.1 U	5.4 U	4.8 U	5.8 U	6.7	5.4 U	6.3 U	67	5.9 U	4.5 U	5.3 U	4.9 U	5.0 UJ	5.0 U	6.3 U	4.5 U	6.3 U
ENDOSULFAN I	900	NA	2.1 U	2.7 U	2.4 U	2.9 U	2.3 U	2.7 U	3.1 U	2.9	3.0 U	2.3 U	2.6 U	2.5 U	2.5 UJ	2.5 U	3.1 U	2.3 U	3.1 U
ENDOSULFAN II	900	NA	4.1 U	5.4 U	4.8 U	5.8 U	4.6 U	5.4 U	6.3 U	5.6 U	5.9 U	4.5 U	5.3 U	4.9 U	5.0 UJ	5.0 U	6.3 U	4.5 U	6.3 U
ENDOSULFAN SULFATE	1000	NA	4.1 U	5.4 U	4.8 U	5.8 U	4.6 U	5.4 U	6.3 U	5.6 U	5.9 U	4.5 U	5.3 U	4.9 U	5.0 UJ	5.0 U	7.3	4.5 U	6.3 U
ENDRIN	100	17.6	4.1 U	5.4 U	4.8 U	5.8 U	4.6 U	5.4 U	6.3 U	7.7	5.9 U	4.5 U	5.3 U	4.9 U	5.0 UJ	5.0 U	6.6	4.5 U	6.3 U
ENDRIN ALDEHYDE	NA	NA	4.1 U	5.4 U	4.8 U	5.8 U	4.6 U	5.4 U	6.3 U	17	5.9 U	4.5 U	5.3 U	4.9 U	5.0 UJ	5.0 U	6.3 U	5.5	6.3 U
GAMMA-BHC	60	1.32	2.1 U	2.7 U	2.4 U	2.9 U	2.3 U	2.7 U	3.1 U	2.8 U	3.0 U	2.3 U	2.6 U	2.5 U	2.5 UJ	2.5 U	3.1 U	2.3 U	3.1 U
GAMMA-CHLORDANE	540	0.022	2.1 U	2.7 U	2.4 U	2.9 U	3.8	2.7 U	3.1 U	4.6	3.0 U	2.3 U	2.6 U	2.5 U	2.5 UJ	2.5 U	4.1	2.4	3.1 U
HEPTACHLOR	100	0.0176	2.1 U	2.7 U	2.4 U	2.9 U	2.3 U	2.7 U	3.1 U	2.8 U	3.0 U	2.3 U	2.6 U	2.5 U	2.5 UJ	2.5 U	3.1 U	2.3 U	3.1 U
HEPTACHLOR EPOXIDE	20	0.0176	2.1 U	2.7 U	2.4 U	2.9 U	2.3 U	2.7 U	3.1 U	4.3	3.0 U	2.3 U	2.6 U	2.5 U	2.5 UJ	2.5 U	4.3	2.3 U	3.1 U
METHOXYCHLOR	NA	NA	21 U	27 U	24 U	29 U	23 U	27 U	31 U	28 U	30 U	23 U	26 U	25 U	25 U	25 U	31 U	23 U	31 U
8082 (ug/Kg)																			
AROCLOR 1242	1000	0.0176	41	27 U	50	29 U	120	27 U	31 U	140	30 U	23 U	26 U	25 U	25 U	25 UJ	390	150	31 UJ
AROCLOR 1248	1000	0.0176	21 U	27 U	24 U	29 U	23 U	27 U	31 U	28 U	30 U	23 U	26 U	25 U	25 U	25 UJ	31 U	23 U	31 UJ
AROCLOR 1254	1000	0.0176	53	27 U	71 J	29 U	180	27 U	31 U	270	30 U	23 U	26 U	54	25 U	25 UJ	360	110	31 UJ
AROCLOR 1260	1000	0.0176	48	27 U	36	29 U	120 J-	27 U	31 U	330 J-	30 U	23 U	26 U	45	25 UJ	25 UJ	110	97	31 UJ
AROCLOR 1262	1000	0.0176	21 U	27 U	24 U	29 U	23 U	27 U	31 U	28 U	30 U	23 U	26 U	25 U	25 U	25 UJ	31 U	23 U	31 UJ
AROCLOR 1268	1000	0.0176	21 U	27 U	24 U	29 U	23 U	27 U	31 U	28 U	30 U	23 U	26 U	25 U	25 U	25 UJ	31 U	23 U	31 UJ
8270C (ug/Kg)																			
2,4,5-TRICHLOROPHENOL	100	NA	51 J	1300 U	1200 U	1500 U	1100 U	1300 U	1600 U	1400 U	1500 U	1100 U	1300 U	1200 U	1200 U	1300 U	1600 U	1100 U	1600 U
2,4,6-TRICHLOROPHENOL	NA	NA	410 U	530 U	480 U	580 U	450 U	530 U	620 U	550 U	590 U	450 U	520 U	490 U	490 U	500 U	620 U	450 U	620 U
2,4-DICHLOROPHENOL	400	NA	410 U	530 U	480 U	580 U	450 U	530 U	620 U	550 U	590 U	450 U	520 U	490 U	490 U	500 U	620 U	450 U	620 U
2,4-DIMETHYLPHENOL	NA	NA	410 U	530 U	480 U	580 U	450 U	530 U	620 U	550 U	590 U	450 U	520 U	490 U	490 U	500 UJ	620 UJ	450 UJ	620 UJ
2,4-DINITROPHENOL	200	NA	1000 U	1300 U	1200 U	1500 U	1100 U	1300 U	1600 U	1400 U	1500 U	1100 U	1300 U	1200 U	1200 U	1300 U	1600 U	1100 U	1600 U
2,4-DINITROTOLUENE	NA	NA	410 U	530 U	480 U	580 U	450 U	530 U	620 U	550 U	590 U	450 U	520 U	490 U	490 U	500 U	620 U	450 U	620 U
2,6-DINITROTOLUENE	1000	NA	410 U	530 U	480 U	580 U	450 U	530 U	620 U	550 U	590 U	450 U	520 U	490 U	490 U	500 U	620 U	450 U	620 U
2-CHLORONAPHTHALENE	NA	NA	410 U	530 U	480 U	580 U	450 U	530 U	620 U	550 U	590 U	450 U	520 U	490 U	490 U	500 U	620 U	450 U	620 U
2-CHLOROPHENOL	800	NA	410 U	530 U	480 U	580 U	450 U	530 U	620 U	550 U	590 U	450 U	520 U	490 U	490 U	500 U	620 U	450 U	620 U
2-METHYLNAPHTHALENE	36400	NA	410 U	530 U	480 U	580 U	450 U	530 U	31 J	550 U	34 J	450 U	520 U	490 U	28 J	500 U	620 U	22 J	130 J
2-METHYLPHENOL	100	NA	410 U	530 U	480 U	580 U	450 U	530 U	65 J	550 U	590 U	450 U	520 U	490 U	490 U	500 U	620 U	450 U	620 U
2-NITROANILINE	430	NA	1000 U	1300 U	1200 U	1500 U	1100 U	1300 U	1600 U	1400 U	1500 U	1100 U	1300 U	1200 U	1200 U	1300 U	1600 U	1100 U	1600 U
2-NITROPHENOL	330	NA	410 U	530 U	480 U	580 U	450 U	530 U	620 U	550 U	590 U	450 U	520 U	490 U	490 U	500 U	620 U	450 U	620 U
3,3'-DICHLOROBENZIDINE	NA	NA	410 U	530 U	480 U	580 UJ	450 UJ	530 UJ	620 UJ	550 UJ	590 UJ	450 UJ	520 UJ	490 UJ	490 UJ	500 UJ	620 U	450 UJ	620 UJ
3-NITROANILINE	500	NA	1000 U	1300 U	1200 U	1500 U	1100 U	1300 U	1600 U	1400 U	1500 U	1100 U	1300 U	1200 U	1200 U	1300 U	1600 U	1100 U	1600 U
4,6-DINITRO-2-METHYLPHENOL	NA	NA	1000 U	1300 U	1200 U	1500 U	1100 U	1300 U	1600 U	1400 U	1500 U	1100 U	1300 U	1200 U	1200 U	1300 U	1600 U	1100 U	1600 U
4-BROMOPHENYL PHENYL ETHER	NA	NA	410 U	530 U	480 U	580 U	450 U	530 U	620 U	550 U	590 U	450 U	520 U	490 U	490 U	500 U	620 U	450 U	620 U
4-CHLORO-3-METHYLPHENOL	240	NA	410 U	530 U	480 U	580 U	450 U	530 U	620 U	550 U	590 U	450 U	520 U	490 U	490 U	500 U	620 U	450 U	620 U
4-CHLOROANILINE	220	NA	410 U	530 U	480 U	580 U	450 U	530 U	620 U	550 U	590 U	450 U	520 U	490 U	490 U	500 U	620 U	450 U	620 U

Table 6 Summary of Results for Subsurface Sediments (>1'), Buffalo River Sediment Study 2005

Analyte	Screening Criteria (1)	Screening Criteria (2)	3-728-00-L23 08/25/2005	1-730-00-C07 08/27/2005	2-730-00-L23 08/25/2005	3-733-00-R67 08/26/2005	2-735-00-R12 08/26/2005	1-735-00-C06 08/25/2005	2-735-00-L56 08/26/2005	2-740-00-R56 08/24/2005	1-740-00-C03 08/24/2005	6-743-00-R35 08/24/2005	2-745-00-R78 08/24/2005	2-745-00-L67 08/24/2005	6-748-00-R35 08/26/2005	6-748-00-L35 08/24/2005	6-748-00-L910 08/24/2005	2-750-00-R23 08/26/2005	1-750-00-C05 08/26/2005	2-750-00-L56 08/26/2005	6-753-00-R35 08/26/2005
4-CHLOROPHENYL PHENYL ETHER	NA	NA	4600 U	36000 UJ	510 U	5200 U	610 U	520 U	540 U	5100 U	500 U	570 U	520 U	530 U	5300 U	510 U	890 U	530 U	550 U	450 U	480 U
4-METHYLPHENOL	900	NA	4600 U	36000 UJ	510 U	5200 U	**1300**	120 J	540 U	5100 U	500 U	570 U	520 U	530 U	5300 U	510 U	890 U	530 U	550 U	450 U	480 U
4-NITROANILINE	NA	NA	12000 U	91000 UJ	1300 U	13000 U	1500 U	1300 U	1400 U	13000 UJ	1300 U	1400 U	1300 U	1300 U	13000 U	1300 U	2200 U	1300 U	1400 U	1100 U	1200 U
4-NITROPHENOL	100	NA	12000 UJ	91000 UJ	1300 U	13000 U	1500 U	1300 U	1400 UJ	13000 UJ	1300 U	1400 UJ	1300 U	1300 UJ	13000 U	1300 U	2200 U	1300 U	1400 U	1100 U	1200 U
ACENAPHTHENE	50000	NA	750 J	2800 J	41 J	650 J	320 J	300 J	26 J	790 J	83 J	61 J	72 J	46 J	11000	39 J	500 J	110 J	67 J	170 J	120 J
ACENAPHTHYLENE	41000	NA	4600 U	36000 U	510 U	5200 U	610 U	520 U	540 U	5100 U	500 U	570 U	520 U	530 U	5300 U	510 U	890 U	530 U	550 U	450 U	480 U
ACETOPHENONE	NA	NA	4600 U	36000 U	510 U	5200 U	610 U	100 J	540 U	5100 U	500 U	570 U	520 U	26 J	5300 U	510 U	890 U	530 U	31 J	450 U	480 U
ANTHRACENE	50000	NA	5300	8800 J	77 J	2200 J	150 J	1200	52 J	6300	160 J	78 J	190 J	84 J	6600	97 J	2000	150 J	96 J	240 J	150 J
ATRAZINE	NA	NA	4600 U	36000 U	510 U	5200 U	610 U	520 U	540 U	5100 U	500 U	570 U	520 U	530 U	5300 U	510 U	890 U	530 U	550 U	450 U	480 U
BENZALDEHYDE	NA	NA	4600 UJ	36000 UJ	96 J	5200 U	38 J	120 J	540 UJ	5100 UJ	500 UJ	570 UJ	38 J	530 UJ	5300 U	38 J	74 J	64 J	73 J	88 J	70 J
BENZO(A)ANTHRACENE	224	NA	**1200 J**	36000 U	**290 J**	**890 J**	**360 J**	**600**	220 J	**1100 J**	**330 J**	210 J	**290 J**	**240 J**	**2000 J**	**260 J**	**670 J**	**550**	**360 J**	**600**	**350 J**
BENZO(A)PYRENE	61	*28.6*	**700 J**	36000 U	**330 J**	**710 J**	**360 J**	**710**	**280 J**	**850 J**	**420 J**	**230 J**	**320 J**	**220 J**	**1400 J**	**280 J**	**530 J**	**570**	**400 J**	**310 J**	**340 J**
BENZO(B)FLUORANTHENE	1100	NA	820 J	36000 UJ	480 J	640 J	430 J	**1300**	510 J	650 J	480 J	300 J	370 J	370 J	890 J	270 J	420 J	650 J+	470 J	270 J	330 J
BENZO(G,H,I)PERYLENE	50000	NA	400 J	36000 U	190 J	440 J	190 J	190 J	180 J	240 J	130 J	130 J	170 J	110 J	790 J	190 J	210 J	200 J	190 J	88 J	120 J
BENZO(K)FLUORANTHENE	1100	NA	600 J	36000 U	340 J	660 J	490 J	520 U	300 J	730 J	490 J	360 J	350 J	250 J	870 J	380 J	560 J	790	550 J	140 J	430 J
BIPHENYL	NA	NA	740 J	9500 J	28 J	5200 U	62 J	520 U	540 U	280 J	500 U	570 U	520 U	530 U	3700 J	510 U	890 U	530 U	25 J	450 U	480 U
BIS(2-CHLOROETHOXY)METHANE	NA	NA	4600 U	36000 UJ	510 U	5200 U	610 U	520 U	540 U	5100 U	500 U	570 U	520 U	530 U	5300 U	510 U	890 U	530 U	550 U	450 U	480 U
BIS(2-CHLOROETHYL) ETHER	NA	*0.66*	4600 U	36000 UJ	510 U	5200 U	610 U	520 U	540 U	5100 U	500 U	570 U	520 U	530 U	5300 U	510 U	890 U	530 U	550 U	450 U	480 U
BIS(2-CHLOROISOPROPYL) ETHER	NA	NA	4600 U	36000 UJ	510 U	5200 U	610 U	520 U	540 U	5100 U	500 U	570 U	520 U	530 U	5300 U	510 U	890 U	530 U	550 U	450 U	480 U
BIS(2-ETHYLHEXYL) PHTHALATE	50000	NA	560 J	2800 J	390 J	1800 J	370 J	1100	290 J	720 J	1000	240 J	690	150 J	2200 J	490 J	1100	780 J+	290 J	31 J	380 J
BUTYLBENZYL PHTHALATE	50000	NA	4600 U	36000 U	510 U	5200 U	610 U	520 U	540 U	5100 U	500 U	570 U	520 U	530 U	5300 U	510 U	890 U	35 J	550 U	450 U	480 U
CAPROLACTAM	NA	NA	4600 U	36000 U	510 UJ	5200 U	610 U	520 UJ	540 U	5100 UJ	500 U	570 U	520 U	530 U	5300 U	510 U	890 U	530 U	550 U	450 U	480 U
CARBAZOLE	NA	NA	4600 U	36000 U	47 J	5200 U	110 J	97 J	40 J	340 J	500 U	33 J	520 U	44 J	5300 U	26 J	890 U	55 J	43 J	450 U	46 J
CHRYSENE	400	NA	**1500 J**	36000 U	**500 J**	**1300 J**	**520 J**	**900**	400 J	**1600 J**	**590**	330 J	**490 J**	340 J	**2000 J**	**460 J**	**1200**	**780**	**570**	**930**	**470 J**
DIBENZ(A,H)ANTHRACENE	14	NA	4600 U	36000 U	**61 J**	5200 U	**49 J**	**56 J**	**62 J**	5100 U	500 U	**28 J**	**39 J**	**29 J**	5300 U	**50 J**	**68 J**	**69 J**	**74 J**	**81 J**	**49 J**
DIBENZOFURAN	6200	NA	800 J	36000 U	510 U	310 J	230 J	140 J	540 U	480 J	56 J	39 J	520 U	530 U	1700 J	24 J	890 U	42 J	27 J	450 U	77 J
DIETHYL PHTHALATE	7100	NA	4600 U	36000 UJ	510 U	5200 U	610 U	520 U	540 U	5100 U	500 U	570 U	520 U	530 U	5300 U	510 U	890 U	530 U	550 U	450 U	480 U
DIMETHYL PHTHALATE	2000	NA	4600 U	36000 U	510 U	5200 U	610 U	520 U	540 U	5100 U	500 U	570 U	520 U	530 U	5300 U	510 U	890 U	530 U	550 U	450 U	480 U
DI-N-BUTYL PHTHALATE	8100	NA	4600 U	36000 U	25 J	5200 U	610 U	520 U	33 J	5100 U	500 U	570 U	520 U	530 U	5300 U	510 U	890 U	530 U	34 J	450 U	32 J
DI-N-OCTYL PHTHALATE	50000	NA	4600 U	36000 U	510 U	5200 UJ	610 U	520 U	540 U	5100 U	500 U	570 U	520 U	530 U	5300 UJ	510 U	890 U	39 J	550 U	450 U	480 U
FLUORANTHENE	50000	NA	3700 J	2900 J	830	2300 J	760	1700	790	2700 J	780	730	710	740	4900 J	700	1300	1100	790	360 J	760
FLUORENE	50000	NA	1500 J	36000 U	56 J	640 J	210 J	550	44 J	1300 J	92 J	70 J	98 J	60 J	5300 J	53 J	810 J	110 J	60 J	450 U	160 J
HEXACHLOROBENZENE	410	NA	4600 U	36000 U	510 U	5200 U	610 U	520 U	540 U	5100 U	500 U	570 U	520 U	530 U	**930 J**	230 J	890 U	530 U	550 U	450 U	480 U
HEXACHLOROBUTADIENE	NA	*6.6*	4600 U	36000 U	510 U	5200 U	610 U	520 U	540 U	5100 U	500 U	570 U	520 U	530 U	5300 U	510 U	890 U	530 U	550 U	450 U	480 U
HEXACHLOROCYCLOPENTADIENE	NA	NA	4600 UJ	36000 UJ	510 UJ	5200 U	610 U	520 U	540 UJ	5100 UJ	500 U	570 UJ	520 U	530 UJ	5300 U	510 U	890 U	530 U	550 U	450 U	480 U
HEXACHLOROETHANE	NA	NA	4600 U	36000 U	510 U	5200 U	610 U	520 U	540 U	5100 U	500 U	570 U	520 U	530 U	5300 U	510 U	890 U	530 U	550 U	450 U	480 U
INDENO(1,2,3-CD)PYRENE	3200	NA	370 J	36000 U	150 J	360 J	150 J	160 J	150 J	240 J	110 J	110 J	130 J	100 J	550 J	170 J	150 J	200 J	190 J	69 J	130 J
ISOPHORONE	4400	NA	4600 U	36000 UJ	510 U	5200 U	610 U	520 U	540 U	5100 U	500 U	570 U	520 U	530 U	5300 U	510 U	890 U	530 U	550 U	450 U	480 U
NAPHTHALENE	13000	NA	3100 J	**70000 J-**	46 J	1400 J	800	170 J	540 U	2600 J	130 J	570 U	73 J	530 U	2100 J	510 U	890 U	35 J	550 U	21 J	25 J
NITROBENZENE	200	NA	4600 U	**2900 J**	510 U	5200 U	610 U	520 U	540 U	5100 U	500 U	570 U	520 U	530 U	5300 U	510 U	890 U	530 U	550 U	450 U	480 U
N-NITROSO-DI-N-PROPYLAMINE	NA	NA	4600 U	36000 U	510 U	5200 U	610 U	520 U	540 U	5100 U	500 U	570 U	520 U	530 U	5300 U	510 U	890 U	530 U	550 U	450 U	480 U
N-NITROSODIPHENYLAMINE	NA	NA	6800	28000 J	510 U	4600 J	160 J	2600	540 U	6700	500 U	570 U	520 U	530 U	24000	510 U	890 U	530 U	550 U	450 U	480 U
PENTACHLOROPHENOL	1000	NA	12000 U	91000 UJ	1300 U	13000 U	1500 U	1300 U	1400 U	13000 U	1300 U	1400 U	1300 U	1300 U	13000 U	1300 U	2200 U	1300 U	1400 U	1100 U	1200 U
PHENANTHRENE	50000	NA	6300	15000 J	440 J	2700 J	600 J	1800	320 J	4000 J	600	370 J	560	460 J	17000 J+	380 J	1900	620 J+	480 J	97 J	690 J+
PHENOL	30	NA	4600 U	36000 UJ	510 U	5200 U	610 U	520 U	540 U	5100 U	500 U	570 U	520 U	530 U	5300 U	510 U	890 U	530 U	550 U	450 U	480 U
PYRENE	50000	NA	2900 J	2200 J	870 J+	2300 J	870 J	2000	710	2400 J	1000	690	740	760	8500	720	2200	1400 J	960 J	800 J	980 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 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. Values that exceed this criteria are shaded teal, with white font, bolded and italics."

Key:

U: Not detected	mg/Kg: miligram per kilogram
J: Estimated	ug/Kg: microgram per kilogram
J-: Estimated low	mg/L: miligram per liter
J+: Estimated high	ug/L: microgram per liter
R : Rejected	

Table 6 Summary of Results for Subsurface Sediments (>1'), Buffalo River Sediment Study 2005

Analyte	Screening Criteria (1)	Screening Criteria (2)	4-753-00-L67 08/26/2005	2-755-00-R910 08/26/2005	2-755-00-L89 08/26/2005	6-758-00-R35 08/25/2005	4-758-00-L23 08/25/2005	2-760-00-R67 08/25/2005	1-760-00-C02 08/25/2005	2-760-00-L45 08/25/2005	6-763-00-R35 08/25/2005	4-763-00-L34 08/25/2005	2-765-00-R34 08/25/2005	2-765-00-L45 08/25/2005	3-768-00-R23 08/24/2005	2-775-00-L89 08/22/2005	2-780-00-R34 08/22/2005	1-780-00-C02 08/22/2005	2-780-00-L45 08/22/2005
4-CHLOROPHENYL PHENYL ETHER	NA	N/A	410 U	530 U	480 U	580 U	450 U	530 U	620 U	550 U	590 U	450 U	520 U	490 U	490 U	500 U	620 U	450 U	620 U
4-METHYLPHENOL	900	N/A	410 U	530 U	480 U	580 U	450 U	530 U	51 J	48 J	590 U	450 U	520 U	490 U	490 U	500 U	620 U	450 U	620 U
4-NITROANILINE	NA	N/A	1000 U	1300 U	1200 U	1500 U	1100 U	1300 U	1600 U	1400 U	1500 U	1100 U	1300 U	1200 U	1200 U	1300 U	1600 U	1100 U	1600 U
4-NITROPHENOL	100	N/A	1000 U	1300 U	1200 U	1500 U	1100 U	1300 U	1600 U	1400 U	1500 U	1100 U	1300 U	1200 U	1200 U	1300 U	1600 U	1100 U	1600 U
ACENAPHTHENE	50000	N/A	290 J	530 U	34 J	29 J	360 J	530 U	38 J	550 U	34 J	340 J	520 U	46 J	34 J	500 U	620 U	50 J	140 J
ACENAPHTHYLENE	41000	N/A	410 U	530 U	480 U	580 U	450 U	530 U	620 U	550 U	590 U	450 U	520 U	490 U	490 U	500 U	620 U	450 U	620 U
ACETOPHENONE	NA	N/A	410 U	530 U	480 U	580 U	450 U	530 U	620 U	550 U	590 U	450 U	520 U	31 J	490 U	500 U	620 U	450 U	620 U
ANTHRACENE	50000	N/A	490	25 J	57 J	62 J	150 J	56 J	70 J	550 U	57 J	970	26 J	110 J	75 J	500 U	620 U	81 J	85 J
ATRAZINE	NA	N/A	410 U	530 U	480 U	580 U	450 U	530 U	620 U	550 U	590 U	450 U	520 U	490 U	490 U	500 U	620 U	450 U	620 U
BENZALDEHYDE	NA	N/A	82 J	31 J	33 J	45 J	120 J	39 J	99 J	150 J	100 J	450 UJ	84 J	98 J	490 UJ	500 UJ	620 UJ	450 UJ	620 UJ
BENZO(A)ANTHRACENE	224	N/A	**230 J**	120 J	180 J	**270 J**	**490**	**260 J**	**240 J**	**530 J**	**290 J**	**400 J**	120 J	**330 J**	**320 J**	**1000 J**	620 U	**250 J**	**280 J**
BENZO(A)PYRENE	61	*28.6*	**200 J**	**120 J**	**190 J**	**390 J**	**470**	**350 J**	**270 J**	**520 J**	**470 J**	**290 J**	**150 J**	**350 J**	**420 J**	**440 J**	620 U	**420 J**	**190 J**
BENZO(B)FLUORANTHENE	1100	N/A	180 J	160 J	180 J	510 J	720	430 J	350 J	550	700	240 J	190 J	470 J	760	530 J	620 U	340 J	210 J
BENZO(G,H,I)PERYLENE	50000	N/A	82 J	110 J	150 J	230 J	140 J	210 J	100 J	250 J	160 J	98 J	49 J	100 J	290 J	290 J	620 U	300 J	160 J
BENZO(K)FLUORANTHENE	1100	N/A	210 J	120 J	240 J	470 J	450 U	450 J	310 J	620	810	210 J	170 J	470 J	490 U	320 J	620 U	510 J	370 J
BIPHENYL	NA	N/A	410 U	530 U	480 U	580 U	450 U	530 U	30 J	550 U	590 U	450 U	520 U	490 U	490 U	500 U	620 U	450 U	620 U
BIS(2-CHLOROETHOXY)METHANE	NA	N/A	410 U	530 U	480 U	580 U	450 U	530 U	620 U	550 U	590 U	450 U	520 U	490 U	490 U	500 U	620 U	450 U	620 U
BIS(2-CHLOROETHYL) ETHER	NA	*0.66*	410 U	530 U	480 U	580 U	450 U	530 U	620 U	550 U	590 U	450 U	520 U	490 U	490 U	500 U	620 U	450 U	620 U
BIS(2-CHLOROISOPROPYL) ETHER	NA	N/A	410 U	530 U	480 U	580 U	450 U	530 U	620 U	550 U	590 U	450 U	520 U	490 U	490 U	500 U	620 U	450 U	620 U
BIS(2-ETHYLHEXYL) PHTHALATE	50000	N/A	180 J	94 J	210 J	570 J	880	510 J	250 J	2200	820	450 U	160 J	1000	360 J	500 UJ	620 UJ	450 UJ	620 UJ
BUTYLBENZYL PHTHALATE	50000	N/A	410 U	67 J	480 U	580 U	450 U	530 U	620 U	550 U	590 U	450 U	520 U	490 U	490 U	500 UJ	620 U	450 UJ	620 UJ
CAPROLACTAM	NA	N/A	410 U	530 U	480 U	580 U	450 UJ	530 U	620 U	550 UJ	590 U	450 U	520 U	490 U	490 UJ	500 U	620 U	450 U	620 U
CARBAZOLE	NA	N/A	410 U	530 U	480 U	47 J	450 U	46 J	49 J	550 U	54 J	450 U	520 U	490 U	31 J	500 U	620 U	48 J	620 U
CHRYSENE	400	N/A	350 J	200 J	270 J	**610**	**830**	**570**	360 J	**890**	**550 J**	**650**	200 J	**480 J**	**610**	**1700 J**	620 U	340 J	330 J
DIBENZ(A,H)ANTHRACENE	14	N/A	**36 J**	**32 J**	**48 J**	**55 J**	**80 J**	**48 J**	620 U	**67 J**	**49 J**	**25 J**	520 U	**43 J**	**110 J**	**170 J**	620 U	**93 J**	520 UJ
DIBENZOFURAN	6200	N/A	410 U	530 U	480 U	580 U	450 U	530 U	620 U	550 U	590 U	450 U	520 U	490 U	23 J	500 U	620 U	27 J	620 U
DIETHYL PHTHALATE	7100	N/A	410 U	530 U	480 U	580 U	450 U	530 U	620 U	550 U	590 U	450 U	520 U	490 U	490 U	500 U	620 UJ	450 UJ	620 UJ
DIMETHYL PHTHALATE	2000	N/A	410 U	530 U	480 U	580 U	450 U	530 U	620 U	550 U	590 U	450 U	520 U	490 U	490 U	500 U	620 U	450 U	620 U
DI-N-BUTYL PHTHALATE	8100	N/A	410 U	530 U	480 U	84 J	450 U	530 U	620 U	550 U	590 U	450 U	520 U	490 U	23 J	500 U	620 U	27 J	620 U
DI-N-OCTYL PHTHALATE	50000	N/A	410 U	530 U	140 J	580 U	450 U	530 U	620 U	550 U	590 U	450 U	520 U	490 U	490 U	500 UJ	620 U	450 UJ	620 UJ
FLUORANTHENE	50000	N/A	440	290 J	430 J	870	330 J	820	610 J	1000	820	870	310 J	770	800	620	620 U	490	660
FLUORENE	50000	N/A	270 J	24 J	43 J	39 J	450 U	38 J	50 J	550 U	37 J	830	520 U	67 J	55 J	500 U	620 U	56 J	230 J
HEXACHLOROBENZENE	410	N/A	410 U	530 U	480 U	580 U	450 U	530 U	620 U	550 U	590 U	450 U	520 U	490 U	490 U	500 U	620 U	450 U	620 U
HEXACHLOROBUTADIENE	NA	*6.6*	410 U	530 U	480 U	580 U	450 U	530 U	620 U	550 U	590 U	450 U	520 U	490 U	490 U	500 U	620 U	450 U	620 U
HEXACHLOROCYCLOPENTADIENE	NA	N/A	410 U	530 U	480 U	580 U	450 U	530 U	620 R	550 U	590 UJ	450 U	520 UJ	490 UJ	490 UJ	500 U	620 U	450 U	620 U
HEXACHLOROETHANE	NA	N/A	410 U	530 U	480 U	580 U	450 U	530 U	620 U	550 U	590 U	450 U	520 U	490 U	490 U	500 U	620 U	450 U	620 U
INDENO(1,2,3-CD)PYRENE	3200	N/A	73 J	87 J	130 J	190 J	110 J	170 J	91 J	150 J	150 J	76 J	49 J	95 J	260 J	150 J	620 U	270 J	620 UJ
ISOPHORONE	4400	N/A	410 U	530 U	480 U	580 U	450 U	530 U	620 U	550 U	590 U	450 U	520 U	490 U	490 U	500 U	620 U	450 U	620 U
NAPHTHALENE	13000	N/A	52 J	530 U	480 U	580 U	40 J	530 U	620 U	190 J	590 U	94 J	520 U	490 U	490 U	500 U	620 U	450 U	31 J
NITROBENZENE	200	N/A	410 U	530 U	480 U	580 U	450 U	530 U	620 U	550 U	590 U	450 U	520 U	490 U	490 U	500 U	620 U	450 U	620 U
N-NITROSO-DI-N-PROPYLAMINE	NA	N/A	410 U	530 U	480 U	580 U	450 U	530 U	620 U	550 U	590 U	450 U	520 U	490 U	490 U	500 U	620 U	450 U	620 U
N-NITROSODIPHENYLAMINE	NA	N/A	410 U	530 U	480 U	580 U	450 U	530 U	620 U	550 U	590 U	450 U	520 U	490 U	490 U	500 U	620 U	450 U	620 U
PENTACHLOROPHENOL	1000	N/A	1000 U	1300 U	1200 U	1500 U	1100 U	1300 U	1600 U	1400 U	1500 U	1100 U	1300 U	1200 U	1200 U	1300 U	1600 U	1100 U	1600 U
PHENANTHRENE	50000	N/A	650 J+	170 J	280 J	390 J	210 J	370 J	410 J	3400	420 J	3100	170 J	420 J	470 J	2500	620 U	390 J	1000
PHENOL	30	N/A	410 U	530 U	480 U	580 U	450 U	530 U	620 U	550 U	590 U	450 U	520 U	490 U	490 U	500 U	620 U	450 U	620 U
PYRENE	50000	N/A	750 J	350 J	510 J	850	2200	790	750	3600	1100	1300	380 J	1100	820	2700 J	620 U	740 J	780 J

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