Parameters	Units	"Natural Soil" Background	"Urban Soil" Background	Ecological Thresholds (aquatic): Freshwater TEC/TEL	Freshwater PEC/PEL	Marine TEL	Marine PEL	Human Exposure Thresholds (upland/floodplain): (for comparison) Method 1 Soil Standards	Direct Contact Method 2 (S-1)	Direct Contact Method 2 (S-2)	Direct Contact Method 3 Ceiling Limits	TCLP	Max Concentrations for
Metals (mg/kg)												mg/kg	mg/L
Arsenic	mg/kg (ppm)	20	20	9.79	33.0	7.24	41.60	20	20	20	600	100.0	5.0
Cadmium	mg/kg (ppm)	2	3	0.99	4.98	0.68	4.20	80	80	80	800	20.0	1.0
Chromium (TOTAL)	mg/kg (ppm)	30	40	43.4	111	52.30	160.00	100	100	200	2,000	100.0	5.0
Chromium III	mg/kg (ppm)	30	40					1,000	1,000	3,000	10,000		
Chromium VI (Hexavalent)	mg/kg (ppm)	30	40					100	100	200	2,000		
Copper	mg/kg (ppm)	40	200	31.6	149	18.70	108.00						
Lead	mg/kg (ppm)	100	600	35.8	128	30.24	112.00	200	200	600	6,000	100.0	5.0
Mercury	mg/kg (ppm)	0	1	0.18	1.06	0.13	0.70	20	20	40	400	4.0	0.2
Nickel	mg/kg (ppm)	20	30	22.7	48.6	15.90	42.80	700	700	1,000	10,000		
Zinc	mg/kg (ppm)	100	300	121	459	124.00	271.00	1,000	1,000	3,000	10,000		
PAHs (ug/kg)													
Acenaphthene	ug/kg (ppb)	500	2,000	6.71	88.9	6.70	88.90	4,000	1,000,000	3,000,000	10,000,000		
Acenaphthylene	ug/kg (ppb)	500	1,000	5.87	128	5.90	128.00	2,000	1,000,000	3,000,000	10,000,000		
Anthracene	ug/kg (ppb)	1,000	4,000	57.2	845	46.90	245.00	1,000,000	1,000,000	3,000,000	10,000,000		
Benzo(a)anthracene	ug/kg (ppb)	2,000	9,000	108	1,050	74.80	693.00	20,000	20,000	300,000	10,000,000		
Benzo(a)pyrene	ug/kg (ppb)	2,000	7,000	150	1,450	88.80	763.00	2,000	2,000	30,000	300,000		
Benzo(b)fluoranthene	ug/kg (ppb)	2,000	8,000					20,000	20,000	300,000	10,000,000		
Benzo(g,h,i)perylene	ug/kg (ppb)	1,000	3,000					1,000,000	1,000,000	3,000,000	10,000,000		
Benzo(k)fluoranthene	ug/kg (ppb)	1,000	4,000					200,000	200,000	3,000,000	10,000,000		
Chrysene	ug/kg (ppb)	2,000	7,000	166	1,290	108.00	846.00	200,000	200,000	3,000,000	10,000,000		
Dibenzo(a,h)anthracene	ug/kg (ppb)	500	1,000	33.0	135	6.22	135.00	2,000	2,000	30,000	2,000,000		
Fluoranthene	ug/kg (ppb)	4,000	10,000	423	2,230	113.00	1,494.00	1,000,000	1,000,000	3,000,000	10,000,000		
Fluorene	ug/kg (ppb)	1,000	2,000	77.4	536	21.20	144.00	1,000,000	1,000,000	3,000,000	10,000,000		
Indeno(1,2,3-cd)pyrene	ug/kg (ppb)	1,000	3,000			68	488	20,000	20,000	300,000	10,000,000		
2-Methylnaphthalene	ug/kg (ppb)	500	1,000			20.2	201	700	300,000	500,000	5,000,000		
Naphthalene	ug/kg (ppb)	500	1,000	176	561	34.60	391.00	4,000	500,000	1,000,000	10,000,000		
Phenanthrene	ug/kg (ppb)	3,000	20,000	204	1,170	86.70	544.00	10,000	500,000	1,000,000	10,000,000		
Pyrene	ug/kg (ppb)	4,000	20,000	195	1,520	153.00	1,398.00	1,000,000	500,000	1,000,000	10,000,000		
Total PAHs	ug/kg (ppb)	26,500	103,000	1,610	22,800	1,684.00	16,770.40						
PCBs (mg/kg or ppm)													
Total PCBs (mg/kg)	mg/kg (ppm)			0.0598	0.676	0.020	0.180	1.00	1.00	4.00	100		
PCB-8	mg/kg (ppm)												
PCB-18	mg/kg (ppm)												
PCB-28	mg/kg (ppm)												
PCB-44	mg/kg (ppm)												
PCB-52	mg/kg (ppm)												
PCB-66	mg/kg (ppm)												
PCB-77													
PCB-101	mg/kg (ppm)												
PCB-105	mg/kg (ppm)												
PCB-118	mg/kg (ppm)												
PCB-128	mg/kg (ppm)												
PCB-138	mg/kg (ppm)												
PCB-153	mg/kg (ppm)												
PCB-170	mg/kg (ppm)												
PCB-180	mg/kg (ppm)												
PCB-187	mg/kg (ppm)												
PCB-195	mg/kg (ppm)												
PCB-206	mg/kg (ppm)												
DCB Decachlorobiphenyl	mg/kg (ppm)												
Pesticides (ug/kg or ppb)													
4,4'-DDD	ug/kg (ppb)			4.88	28	1.22	7.81						
Sum DDD				4.88	28.0	1.22	7.81	10,000	10,000	40,000	700,000		
2-4' DDE													
4,4'-DDE	ug/kg (ppb)			3.16	31.30	2.07	374						
4,4'-DDT	ug/kg (ppb)			4.16	62.90	1.19	4.77						
Sum DDT				4.16	62.9	1.19	4.77	7,000	7,000	30,000	700,000		
Total DDTs (ppb)				5.28	572	3.89	51.7						
Alachlor													
Aldrin	ug/kg (ppb)							90	90	500	40,000		
alpha-BHC	ug/kg (ppb)												
beta-BHC	ug/kg (ppb)												
Chlordane	ug/kg (ppb)			3.24	17.6	2.26	4.8	6,000	6,000	30,000	600,000		
delta-BHC	ug/kg (ppb)												
Dieldrin	ug/kg (ppb)			1.90	61.8	0.72	4.3	90	90	600	40,000		
Endosulfan I	ug/kg (ppb)												
Endosulfan II	ug/kg (ppb)												
Endosulfan Sulfate	ug/kg (ppb)												
Endrin	ug/kg (ppb)			2.22	207			20,000	20,000	30,000	300,000		
Endrin Aldehyde													
Endrin Ketone	ug/kg (ppb)												
gamma-BHC (Lindane)	ug/kg (ppb)			2.37	4.99	0.32	0.99						
Heptachlor	ug/kg (ppb)							300	300	2,000	100,000		
Heptachlor epoxide	ug/kg (ppb)			2.47	16.0		2.74	200	200	1,000	10,000		
Hexachlorobenzene	ug/kg (ppb)							700	700	900	9,000		
Methoxychlor	ug/kg (ppb)							300,000	300,000	400,000	4,000,000		
TPH and EPH (mg/kg or ppm)													
TPH	mg/kg (ppm)							1,000	1,000	3,000	10,000		
C9-C18 Aliphatic Hydrocarbons	mg/kg (ppm)							1,000	1,000	3,000	20,000		
C19-C36 Aliphatic Hydrocarbons	mg/kg (ppm)							3,000	3,000	5,000	20,000		
C11-C22 Aromatic Hydrocarbons	mg/kg (ppm)							1,000	1,000	3,000	10,000		
Physical Characteristics													
Total Organic Carbon (%)	%												
Percent Water (%)	%												
Sieve No. 4 (% passing)	% passing												
Sieve No. 10 (% passing)	% passing												
Sieve No. 40 (% passing)	% passing												
Sieve No. 60 (% passing)	% passing												
Sieve No. 200 (% passing)	% passing												
Volatile Organic Compounds (VOCs)													
Acetone	mg/kg (ppm)							6.00	500	1,000	10,000		
Amyl Methyl Ether (TAME)	mg/kg (ppm)												
Benzene	mg/kg (ppm)							2.00	40	200	3,000		

Parameters	Upstream: IR-US-1 9/11/2024	Impoundment Upstream: IR-US-2 9/11/2024	IR-US-3 9/11/2024	IR-US-4 9/11/2024	IR-US-5 9/11/2024	IR-US-6 9/17/2024	Impoundment at Dam: IR-US-7 9/17/2024	IR-US-BANK 9/17/2024	IR-US-8 9/11/2024	Downstream Samples: IR-DS-1 9/11/2024	IR-DS-2 9/11/2024	IR-DS-3 9/11/2024
Metals (mg/kg)												
Arsenic	2.24	2.9	5.87	10.00	4.32	5.57	5.42	17.00	4.27	9.44	5.94	3.76
Cadmium	0.095	0.1	0.1	0.095	0.095	0.045	0.045	0.52	0.045	0.1	0.19	0.095
Chromium (TOTAL)	8.4	8.33	19.2	30.6	14.6	19.6	35.5	23.2	13	31.2	40	16.3
Chromium III	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (Hexavalent)	-	-	-	-	-	-	-	-	-	-	-	-
Copper	2.95	6.57	8.66	13.9	9.45	11.2	17.2	18.9	12.8	27.1	22.4	8.3
Lead	5.32	5.98	16	12.4	10.8	13	13.4	69.1	21	77.4	83.1	14.7
Mercury	0.005	0.144	0.037	0.014	0.028	0.014	0.022	0.166	0.032	0.253	0.293	0.067
Nickel	5.74	5.39	13.3	23.3	10.6	13.3	25.1	11.5	8.21	22	8.5	6.37
Zinc	29.8	34.9	41.5	53.8	39.4	46.7	61.8	126	37.8	60.3	78.3	34.8
PAHs (ug/kg)												
Acenaphthene	5.00	5.00	5.00	4.50	4.50	5.00	5.00	249.00	187.00	5.50	79.00	6.00
Acenaphthylene	5.00	5.00	5.00	4.50	18.00	5.00	5.00	28.00	17.00	5.50	133.00	6.00
Anthracene	5.00	5.00	5.00	4.50	12.00	5.00	5.00	621.00	528.00	5.50	304.00	17.00
Benzo(a)anthracene	5.00	5.00	5.00	4.50	104.00	5.00	5.00	1,120.00	1,470.00	33.00	1,210.00	65.00
Benzo(a)pyrene	5.00	5.00	5.00	4.50	107.00	5.00	5.00	868.00	1,360.00	35.00	1,350.00	62.00
Benzo(b)fluoranthene	5.00	5.00	5.00	4.50	101.00	5.00	5.00	852.00	1,310.00	21.00	880.00	56.00
Benzo(g,h,i)perylene	5.00	5.00	5.00	4.50	74.00	5.00	16.00	507.00	828.00	22.00	835.00	41.00
Benzo(k)fluoranthene	5.00	5.00	5.00	4.50	105.00	5.00	5.00	762.00	1,230.00	25.00	1,040.00	53.00
Chrysene	5.00	5.00	5.00	4.50	113.00	5.00	5.00	1,010.00	1,400.00	33.00	1,130.00	66.00
Dibenzo(a,h)anthracene	5.00	5.00	5.00	4.50	40.00	5.00	11.00	82.00	129.00	5.50	420.00	18.00
Fluoranthene	5.00	5.00	5.00	4.50	182.00	5.00	11.00	2,640.00	3,560.00	63.00	2,230.00	154.00
Fluorene	5.00	5.00	5.00	4.50	4.50	5.00	5.00	306.00	237.00	5.50	131.00	6.00
Indeno(1,2,3-cd)pyrene	5.00	5.00	5.00	4.50	65.00	5.00	12.00	444.00	764.00	16.00	705.00	35.00
2-Methylnaphthalene	5.00	5.00	5.00	4.50	4.50	5.00	5.00	51.00	28.00	5.50	34.00	6.00
Naphthalene	5.00	5.00	5.00	4.50	12.00	5.00	5.00	71.00	55.00	5.50	73.00	6.00
Phenanthrene	12.00	15.00	5.00	4.50	62.00	26.00	31.00	2,390.00	2,370.00	26.00	1,120.00	68.00
Pyrene	5.00	5.00	5.00	4.50	137.00	5.00	5.00	2,190.00	3,040.00	77.00	2,270.00	124.00
Total PAHs	12.00	15.00	ND	ND	1,132.00	26.00	81.00	14,191.00	18,513.00	351.00	13,944.00	759.00
PCBs (mg/kg or ppm)												
Total PCBs (mg/kg)	0.00297	0.00279	0.00288	0.00279	0.0027	0.00279	0.00297	0.087515	0.00288	0.003405	0.05474	0.00598
PCB-8	0.000165	0.000155	0.00016	0.000155	0.00015	0.000155	0.000165	0.0006	0.00016	0.000175	0.00016	0.00019
PCB-18	0.000165	0.000155	0.00016	0.000155	0.00015	0.000155	0.000165	0.00062	0.00016	0.000175	0.00064	0.00041
PCB-28	0.000165	0.000155	0.00016	0.000155	0.00015	0.000155	0.000165	0.00269	0.00016	0.000175	0.00063	0.00019
PCB-44	0.000165	0.000155	0.00016	0.000155	0.00015	0.000155	0.000165	0.00445	0.00016	0.000175	0.00154	0.00019
PCB-52	0.000165	0.000155	0.00016	0.000155	0.00015	0.000155	0.000165	0.0127	0.00016	0.000175	0.00356	0.00059
PCB-66	0.000165	0.000155	0.00016	0.000155	0.00015	0.000155	0.000165	0.0101	0.00016	0.000175	0.00016	0.00019
PCB-77	-	-	-	-	-	-	-	-	-	-	-	-
PCB-101	0.000165	0.000155	0.00016	0.000155	0.00015	0.000155	0.000165	0.0151	0.00016	0.00043	0.00528	0.00044
PCB-105	0.000165	0.000155	0.00016	0.000155	0.00015	0.000155	0.000165	0.00238	0.00016	0.000175	0.00323	0.00019
PCB-118	0.000165	0.000155	0.00016	0.000155	0.00015	0.000155	0.000165	0.011	0.00016	0.000175	0.00553	0.00062
PCB-128	0.000165	0.000155	0.00016	0.000155	0.00015	0.000155	0.000165	0.0021	0.00016	0.000175	0.00136	0.00019
PCB-138	0.000165	0.000155	0.00016	0.000155	0.00015	0.000155	0.000165	0.00843	0.00016	0.000175	0.00568	0.00093
PCB-153	0.000165	0.000155	0.00016	0.000155	0.00015	0.000155	0.000165	0.0105	0.00016	0.000175	0.00397	0.00071
PCB-170	0.000165	0.000155	0.00016	0.000155	0.00015	0.000155	0.000165	0.0014	0.00016	0.000175	0.00096	0.00019
PCB-180	0.000165	0.000155	0.00016	0.000155	0.00015	0.000155	0.000165	0.00184	0.00016	0.000175	0.00199	0.00019
PCB-187	0.000165	0.000155	0.00016	0.000155	0.00015	0.000155	0.000165	0.00141	0.00016	0.000175	0.00114	0.00019
PCB-195	0.000165	0.000155	0.00016	0.000155	0.00015	0.000155	0.000165	0.000225	0.00016	0.000175	0.00016	0.00019
PCB-206	0.000165	0.000155	0.00016	0.000155	0.00015	0.000155	0.000165	0.00074	0.00016	0.000175	0.00445	0.00019
DCB Decachlorobiphenyl	0.000165	0.000155	0.00016	0.000155	0.00015	0.000155	0.000165	0.00123	0.00016	0.000175	0.0143	0.00019
Pesticides (ug/kg or ppb)												
4,4'-DDD	1.55	1.45	1.45	1.4	1.45	1.45	1.65	2.1	1.5	1.7	9.7	1.85
Sum DDD	-	-	-	-	-	-	-	- -		-	-	-
2-4' DDE	-	-	-	-	-	-	-	- -		-	-	-
4,4'-DDE	1.55	1.45	1.45	1.4	1.45	1.45	1.65	2.1	1.5	1.7	5.3	1.85
4,4'-DDT	1.55	1.45	1.45	1.4	1.45	1.45	1.65	2.1	1.5	1.7	62.7	1.85
Sum DDT	-	-	-	-	-	-	-	- -		-	-	-
Total DDTs (ppb)	-	-	-	-	-	-	-	- -		-	-	-
Alachlor	-	-	-	-	-	-	-	- -		-	-	-
Aldrin	1.55	1.45	1.45	1.4	1.45	1.45	1.65	2.1	1.5	1.7	1.45	1.85
alpha-BHC	1.55	1.45	1.45	1.4	1.45	1.45	1.65	2.1	1.5	1.7	1.45	1.85
beta-BHC	1.55	1.45	1.45	1.4	1.45	1.45	1.65	2.1	1.5	1.7	1.45	1.85
Chlordane	12.3	11.45	11.6	11.2	11.7	11.75	13.05	16.85	12.1	13.55	11.75	14.75
delta-BHC	1.55	1.45	1.45	1.4	1.45	1.45	1.65	2.1	1.5	1.7	1.45	1.85
Dieldrin	1.55	1.45	1.45	1.4	1.45	1.45	1.65	2.1	1.5	1.7	1.45	1.85
Endosulfan I	1.55	1.45	1.45	1.4	1.45	1.45	1.65	2.1	1.5	1.7	1.45	1.85
Endosulfan II	1.55	1.45	1.45	1.4	1.45	1.45	1.65	2.1	1.5	1.7	1.45	1.85
Endosulfan Sulfate	1.55	1.45	1.45	1.4	1.45	1.45	1.65	2.1	1.5	1.7	1.45	1.85
Endrin	1.55	1.45	1.45	1.4	1.45	1.45	1.65	2.1	1.5	1.7	1.45	1.85
Endrin Aldehyde	-	-	-	-	-	-	-	-	-	-	-	-
Endrin Ketone	1.55	1.45	1.45	1.4	1.45	1.45	1.65	2.1	1.5	1.7	1.45	1.85
gamma-BHC (Lindane)	0.9	0.85	0.85	0.85	0.9	0.9	1	1.25	0.9	1	0.9	1.1
Heptachlor	1.55	1.45	1.45	1.4	1.45	1.45	1.65	2.1	1.5	1.7	1.45	1.85
Heptachlor epoxide	1.55	1.45	1.45	1.4	1.45	1.45	1.65	2.1	1.5	1.7	1.45	1.85
Hexachlorobenzene	1.55	1.45	1.45	1.4	1.45	1.45	1.65	2.1	1.5	1.7	1.45	1.85
Methoxychlor	1.55	1.45	1.45	1.4	1.45	1.45	1.65	2.1	1.5	1.7	1.45	1.85
TPH and EPH (mg/kg or ppm)												
TPH	6.3	6.25	5.8	14.1	5.5	5.7	6.25	201	40.8	6.75	160	7.35
C9-C18 Aliphatic Hydrocarbons	9.65	9.1	9.3	8.9	8.7	8.95	9.5	12.45	9	10.2	9	10.95
C19-C36 Aliphatic Hydrocarbons	9.65	9.1	9.3	8.9	20.1	8.95	9.5	12.45	9	10.2	18.9	10.95
C11-C22 Aromatic Hydrocarbons	9.75	9.2	9.4	9	8.8	9.05	9.6	12.6	9.1	10.3	31.8	11.05
Physical Characteristics												
Total Organic Carbon (%)	0.442	0.148	1.04	0.223	0.987	0.272	0.472	1.7	1.02	0.129	1.29	1.64
Percent Water (%)	16.3	22.8	24.7	19.5	14.5	30.9	17.2	53	20.5	21.4	19.2	62.3
Sieve No. 4 (% passing)	47.7	53.5	41.6	42.7	42.6	45.9	89.3	99.4	68.2	44.3	49	82.9
Sieve No. 10 (% passing)	40.1	41.5	34.2	36.8	35	39	75.6	98.8	58.6	28.1	36	72.3
Sieve No. 40 (% passing)	17.5	15.9	19.3	18.6	16.6	20.5	33.3	91.8	21.6	10	14.1	33.2
Sieve No. 60 (% passing)	5.5	5.2	13.4	12.1	10.9	15.1	29	74.2	10.9	8.5	6.2	21.9
Sieve No. 200 (% passing)	0.2	0.1	9.5	9.4	7.9	10.6	23.5	50.9	3.6	7.5	0.2	2
Volatile Organic Compounds (VOCs)												
Acetone	0.0255	0.0231	0.0164	0.0256	0.01495	0.0215	0.0265	0.0623	0.019	0.02275	0.02505	0.0402
Amyl Methyl Ether (TAME)	0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195
Benzene	0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195

Parameters	Summary Concentration Statistics: Upstream Min	Upstream Max	Upstream Mean	Impoundment Upstream Min	Impoundment Upstream Max	Impoundment Upstream Mean	Impoundment at Dam Min	Impoundment at Dam Max	Impoundment at Dam Mean	Downstream Min	Downstream Max	Downstream Mean
Metals (mg/kg)												
Arsenic	2.24	2.24	2.24	2.90	10.00	5.73	4.27	17.00	8.90	3.76	9.44	6.38
Cadmium	0.10	0.10	0.10	0.05	0.10	0.09	0.05	0.52	0.20	0.10	0.19	0.13
Chromium (TOTAL)	8.40	8.40	8.40	8.33	30.60	18.47	13.00	35.50	23.90	16.30	40.00	29.17
Chromium III	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (Hexavalent)	-	-	-	-	-	-	-	-	-	-	-	-
Copper	2.95	2.95	2.95	6.57	13.90	9.96	12.80	18.90	16.30	8.30	27.10	19.27
Lead	5.32	5.32	5.32	5.98	16.00	11.64	13.40	69.10	34.50	14.70	83.10	58.40
Mercury	0.01	0.01	0.01	0.01	0.14	0.05	0.02	0.17	0.07	0.07	0.29	0.20
Nickel	5.74	5.74	5.74	5.39	23.30	13.18	8.21	25.10	14.94	6.37	22.00	12.29
Zinc	29.80	29.80	29.80	34.90	53.80	43.26	37.80	126.00	75.20	34.80	78.30	57.80
PAHs (ug/kg)												
Acenaphthene	5.00	5.00	5.00	4.50	5.00	4.80	5.00	249.00	147.00	5.50	79.00	30.17
Acenaphthylene	5.00	5.00	5.00	4.50	18.00	7.50	5.00	28.00	16.67	5.50	133.00	48.17
Anthracene	5.00	5.00	5.00	4.50	12.00	6.30	5.00	621.00	384.67	5.50	304.00	108.83
Benzo(a)anthracene	5.00	5.00	5.00	4.50	104.00	24.70	5.00	1,470.00	865.00	33.00	1,210.00	436.00
Benzo(a)pyrene	5.00	5.00	5.00	4.50	107.00	25.30	5.00	1,360.00	744.33	35.00	1,350.00	482.33
Benzo(b)fluoranthene	5.00	5.00	5.00	4.50	101.00	24.10	5.00	1,310.00	722.33	21.00	880.00	319.00
Benzo(g,h,i)perylene	5.00	5.00	5.00	4.50	74.00	18.70	16.00	828.00	450.33	22.00	835.00	299.33
Benzo(k)fluoranthene	5.00	5.00	5.00	4.50	105.00	24.90	5.00	1,230.00	665.67	25.00	1,040.00	372.67
Chrysene	5.00	5.00	5.00	4.50	113.00	26.50	5.00	1,400.00	805.00	33.00	1,130.00	409.67
Dibenzo(a,h)anthracene	5.00	5.00	5.00	4.50	40.00	11.90	11.00	129.00	74.00	5.50	420.00	147.83
Fluoranthene	5.00	5.00	5.00	4.50	182.00	40.30	11.00	3,560.00	2,070.33	63.00	2,230.00	815.67
Fluorene	5.00	5.00	5.00	4.50	5.00	4.80	5.00	306.00	182.67	5.50	131.00	47.50
Indeno(1,2,3-cd)pyrene	5.00	5.00	5.00	4.50	65.00	16.90	12.00	764.00	406.67	16.00	705.00	252.00
2-Methylnaphthalene	5.00	5.00	5.00	4.50	5.00	4.80	5.00	51.00	28.00	5.50	34.00	15.17
Naphthalene	5.00	5.00	5.00	4.50	12.00	6.30	5.00	71.00	43.67	5.50	73.00	28.17
Phenanthrene	12.00	12.00	12.00	4.50	62.00	22.50	31.00	2,390.00	1,597.00	26.00	1,120.00	404.67
Pyrene	5.00	5.00	5.00	4.50	137.00	31.30	5.00	3,040.00	1,745.00	77.00	2,270.00	823.67
Total PAHs	12.00	12.00	12.00	15.00	1,132.00	391.00	81.00	18,513.00	10,928.33	351.00	13,944.00	5,018.00
PCBs (mg/kg or ppm)												
Total PCBs (mg/kg)	0.002970	0.002970	0.002970	0.002700	0.002880	0.002790	0.002880	0.087515	0.031122	0.003405	0.054740	0.021375
PCB-8	0.000165	0.000165	0.000165	0.000150	0.000160	0.000155	0.000160	0.000600	0.000308	0.000160	0.000190	0.000175
PCB-18	0.000165	0.000165	0.000165	0.000150	0.000160	0.000155	0.000160	0.000620	0.000315	0.000175	0.000640	0.000408
PCB-28	0.000165	0.000165	0.000165	0.000150	0.000160	0.000155	0.000160	0.002690	0.001005	0.000175	0.000630	0.000332
PCB-44	0.000165	0.000165	0.000165	0.000150	0.000160	0.000155	0.000160	0.004450	0.001592	0.000175	0.001540	0.000635
PCB-52	0.000165	0.000165	0.000165	0.000150	0.000160	0.000155	0.000160	0.012700	0.004342	0.000175	0.003560	0.001442
PCB-66	0.000165	0.000165	0.000165	0.000150	0.000160	0.000155	0.000160	0.010100	0.003475	0.000160	0.000190	0.000175
PCB-77	-	-	-	-	-	-	-	-	-	-	-	-
PCB-101	0.000165	0.000165	0.000165	0.000150	0.000160	0.000155	0.000160	0.015100	0.005142	0.000430	0.005280	0.002050
PCB-105	0.000165	0.000165	0.000165	0.000150	0.000160	0.000155	0.000160	0.002380	0.000902	0.000175	0.003230	0.001198
PCB-118	0.000165	0.000165	0.000165	0.000150	0.000160	0.000155	0.000160	0.011000	0.003775	0.000175	0.005530	0.002108
PCB-128	0.000165	0.000165	0.000165	0.000150	0.000160	0.000155	0.000160	0.002100	0.000808	0.000175	0.001360	0.000575
PCB-138	0.000165	0.000165	0.000165	0.000150	0.000160	0.000155	0.000160	0.008430	0.002918	0.000175	0.005680	0.002262
PCB-153	0.000165	0.000165	0.000165	0.000150	0.000160	0.000155	0.000160	0.010500	0.003608	0.000175	0.003970	0.001618
PCB-170	0.000165	0.000165	0.000165	0.000150	0.000160	0.000155	0.000160	0.001400	0.000575	0.000175	0.000960	0.000442
PCB-180	0.000165	0.000165	0.000165	0.000150	0.000160	0.000155	0.000160	0.001840	0.000722	0.000175	0.001990	0.000785
PCB-187	0.000165	0.000165	0.000165	0.000150	0.000160	0.000155	0.000160	0.001410	0.000578	0.000175	0.001140	0.000502
PCB-195	0.000165	0.000165	0.000165	0.000150	0.000160	0.000155	0.000160	0.000225	0.000183	0.000160	0.000190	0.000175
PCB-206	0.000165	0.000165	0.000165	0.000150	0.000160	0.000155	0.000160	0.000740	0.000355	0.000175	0.004450	0.001605
DCB Decachlorobiphenyl	0.000165	0.000165	0.000165	0.000150	0.000160	0.000155	0.000160	0.001230	0.000518	0.000175	0.014300	0.004888
Pesticides (ug/kg or ppb)												
4,4'-DDD	1.55	1.55	1.55	1.40	1.45	1.44	1.50	2.10	1.75	1.70	9.70	4.42
Sum DDD	-	-	-	-	-	-	-	-	-	-	-	-
2-4' DDE	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	1.55	1.55	1.55	1.40	1.45	1.44	1.50	2.10	1.75	1.70	5.30	2.95
4,4'-DDT	1.55	1.55	1.55	1.40	1.45	1.44	1.50	2.10	1.75	1.70	62.70	22.08
Sum DDT	-	-	-	-	-	-	-	-	-	-	-	-
Total DDTs (ppb)	-	-	-	-	-	-	-	-	-	-	-	-
Alachlor	-	-	-	-	-	-	-	-	-	-	-	-
Aldrin	1.55	1.55	1.55	1.40	1.45	1.44	1.50	2.10	1.75	1.45	1.85	1.67
alpha-BHC	1.55	1.55	1.55	1.40	1.45	1.44	1.50	2.10	1.75	1.45	1.85	1.67
beta-BHC	1.55	1.55	1.55	1.40	1.45	1.44	1.50	2.10	1.75	1.45	1.85	1.67
Chlordane	12.30	12.30	12.30	11.20	11.75	11.54	12.10	16.85	14.00	11.75	14.75	13.35
delta-BHC	1.55	1.55	1.55	1.40	1.45	1.44	1.50	2.10	1.75	1.45	1.85	1.67
Dieldrin	1.55	1.55	1.55	1.40	1.45	1.44	1.50	2.10	1.75	1.45	1.85	1.67
Endosulfan I	1.55	1.55	1.55	1.40	1.45	1.44	1.50	2.10	1.75	1.45	1.85	1.67
Endosulfan II	1.55	1.55	1.55	1.40	1.45	1.44	1.50	2.10	1.75	1.45	1.85	1.67
Endosulfan Sulfate	1.55	1.55	1.55	1.40	1.45	1.44	1.50	2.10	1.75	1.45	1.85	1.67
Endrin	1.55	1.55	1.55	1.40	1.45	1.44	1.50	2.10	1.75	1.45	1.85	1.67
Endrin Aldehyde	-	-	-	-	-	-	-	-	-	-	-	-
Endrin Ketone	1.55	1.55	1.55	1.40	1.45	1.44	1.50	2.10	1.75	1.45	1.85	1.67
gamma-BHC (Lindane)	0.90	0.90	0.90	0.85	0.90	0.87	0.90	1.25	1.05	0.90	1.10	1.00
Heptachlor	1.55	1.55	1.55	1.40	1.45	1.44	1.50	2.10	1.75	1.45	1.85	1.67
Heptachlor epoxide	1.55	1.55	1.55	1.40	1.45	1.44	1.50	2.10	1.75	1.45	1.85	1.67
Hexachlorobenzene	1.55	1.55	1.55	1.40	1.45	1.44	1.50	2.10	1.75	1.45	1.85	1.67
Methoxychlor	1.55	1.55	1.55	1.40	1.45	1.44	1.50	2.10	1.75	1.45	1.85	1.67
TPH and EPH (mg/kg or ppm)												
TPH	6.30	6.30	6.30	5.50	14.10	7.47	6.25	201.00	82.68	6.75	160.00	58.03
C9-C18 Aliphatic Hydrocarbons	9.65	9.65	9.65	8.70	9.30	8.99	9.00	12.45	10.32	9.00	10.95	10.05
C19-C36 Aliphatic Hydrocarbons	9.65	9.65	9.65	8.90	20.10	11.27	9.00	12.45	10.32	10.20	18.90	13.35
C11-C22 Aromatic Hydrocarbons	9.75	9.75	9.75	8.80	9.40	9.09	9.10	12.60	10.43	10.30	31.80	17.72
Physical Characteristics												
Total Organic Carbon (%)	0.44	0.44	0.44	0.15	1.04	0.53	0.47	1.70	1.06	0.13	1.64	1.02
Percent Water (%)	16.30	16.30	16.30	14.50	30.90	22.48	17.20	53.00	30.23	19.20	62.30	34.30
Sieve No. 4 (% passing)	47.70	47.70	47.70	41.60	53.50	45.26	68.20	99.40	85.63	44.30	82.90	58.73
Sieve No. 10 (% passing)	40.10	40.10	40.10	34.20	41.50	37.30	58.60	98.80	77.67	28.10	72.30	45.47
Sieve No. 40 (% passing)	17.50	17.50	17.50	15.90	20.50	18.18	21.60	91.80	48.90	10.00	33.20	19.10
Sieve No. 60 (% passing)	5.50	5.50	5.50	5.20	15.10	11.34	10.90	74.20	38.03	6.20	21.90	12.20
Sieve No. 200 (% passing)	0.20	0.20	0.20	0.10	10.60	7.50	3.60	50.90	26.00	0.20	7.50	3.23
Volatile Organic Compounds (VOCs)												
Acetone	0.03	0.03	0.03	0.01	0.03	0.02	0.02	0.06	0.04	0.02	0.04	0.03
Amyl Methyl Ether (TAME)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Benzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

				Ecological Thresholds (aquatic)				Human Exposure Thresholds (upland/floodplain)						Upstream	Impoundment Upstream					Impoundment at Dam			Downstream Samples			Summary Concentration Statistics											
Parameters	Units			Freshwater		Marine		(for comparison)	Direct Contact	Direct Contact :	Direct Contact			IR-US-1	IR-US-2	IR-US-3	IR-US-4	IR-US-5	IR-US-6	IR-US-7	IR-US-BANK	IR-US-8	IR-DS-1	IR-DS-2	IR-DS-3	Upstream			Impoundment Upstream			Impoundment at Dam			Downstream		
		"Natural Soil" Background	"Urban Soil" Background	TEC/TEL	PEC/PEL	TEL	PEL	Method 1 Soil Standards	Method 2 (S-1)	Method 2 (S-2) :	Method 3 Ceiling Limits	TCLP	Max Concentrations for	*9/11/2024*	*9/11/2024*	*9/11/2024*	*9/11/2024*	*9/11/2024*	*9/17/2024*	*9/17/2024*	*9/17/2024*	*9/11/2024*	*9/11/2024*	*9/11/2024*	*9/11/2024*	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean
Bromobenzene	mg/kg (ppm)													0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bromochloromethane	mg/kg (ppm)													0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bromodichloromethane	mg/kg (ppm)							0.10	40	200	5,000			0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bromoform	mg/kg (ppm)							0.10	300	1,000	10,000			0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bromomethane	mg/kg (ppm)							0.50	100	700	7,000			0.0051	0.0046	0.0033	0.0051	0.003	0.0043	0.0053	0.00395	0.0038	0.00455	0.005	0.0039	0.01	0.01	0.01	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.01	0.00
sec-Butylbenzene	mg/kg (ppm)													0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n-Butylbenzene	mg/kg (ppm)													0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tert-Butylbenzene	mg/kg (ppm)													0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carbon Disulfide	mg/kg (ppm)													0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carbon Tetrachloride	mg/kg (ppm)							10.00	30	100	10,000			0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chlorobenzene	mg/kg (ppm)							1.00	500	1,000	10,000			0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chlorodibromomethane	mg/kg (ppm)													0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chloroethane	mg/kg (ppm)													0.0051	0.0046	0.0033	0.0051	0.003	0.0043	0.0053	0.00395	0.0038	0.00455	0.005	0.0039	0.01	0.01	0.01	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.01	0.00
Chloroform	mg/kg (ppm)							0.40	500	1,000	10,000			0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chloromethane	mg/kg (ppm)													0.0051	0.0046	0.0033	0.0051	0.003	0.0043	0.0053	0.00395	0.0038	0.00455	0.005	0.0039	0.01	0.01	0.01	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.01	0.00
Chlorotoluene, 2-	mg/kg (ppm)													0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chlorotoluene, 4-	mg/kg (ppm)													0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dibromo-3-chloropropane PP	mg/kg (ppm)													0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dibromoethane, 1,2- (EDB)	mg/kg (ppm)													0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dibromomethane	mg/kg (ppm)													0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dichlorobenzene, 1,3- (m-DCB)	mg/kg (ppm)							3.00	100	500	5,000			0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dichlorobenzene, 1,2- (o-DCB)	mg/kg (ppm)							9.00	1,000	3,000	10,000			0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dichlorobenzene, 1,4- (p-DCB)	mg/kg (ppm)							0.70	100	400	10,000			0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dichlorodifluoromethane (Freon 12)	mg/kg (ppm)													0.0051	0.0046	0.0033	0.0051	0.003	0.0043	0.0053	0.00395	0.0038	0.00455	0.005	0.0039	0.01	0.01	0.01	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.01	0.00
Dichloroethane, 1,1-	mg/kg (ppm)							0.40	500	1,000	10,000			0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dichloroethane, 1,2-	mg/kg (ppm)							0.10	30	100	10,000			0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dichloroethylene, 1,1-	mg/kg (ppm)							3.00	500	1,000	10,000			0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dichloroethylene, cis-1,2	mg/kg (ppm)							0.30	100	500	5,000			0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dichloroethylene, trans-1,2	mg/kg (ppm)							1.00	500	1,000	10,000			0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dichloropropane, 1,2-	mg/kg (ppm)							0.10	60	300	10,000			0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dichloropropane, 1,3-	mg/kg (ppm)													0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dichloropropane, 2,2-	mg/kg (ppm)													0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dichloropropene, 1,1-	mg/kg (ppm)													0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dichloropropene, cis-1,3-3	mg/kg (ppm)													0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dichloropropene, trans-1,3- 3	mg/kg (ppm)													0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Diethyl Ether OXY	mg/kg (ppm)													0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Diisopropyl Ether (DIPE) OXY	mg/kg (ppm)													0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dioxane, 1,4- PP, 1	mg/kg (ppm)							0.20	20	90	5,000			0.051	0.04625	0.0328	0.051	0.0299	0.04305	0.053	0.0394	0.03795	0.0455	0.05	0.03925	0.05	0.05	0.05	0.03	0.05	0.04	0.04	0.05	0.04	0.04	0.05	0.04
Ethylbenzene	mg/kg (ppm)							40.00	500	1,000	10,000			0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hexachlorobutadiene	mg/kg (ppm)							30.00	30	100	1,000			0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hexanone (MNBK), 2- PP	mg/kg (ppm)													0.0255	0.0231	0.0164	0.0256	0.01495	0.0215	0.0265	0.0197	0.019	0.02275	0.02505	0.0196	0.03	0.03	0.03	0.01	0.03	0.02	0.02	0.03	0.02	0.02	0.03	0.02
Isopropylbenzene (Cumene)2	mg/kg (ppm)													0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Isopropyltoluene, p-2	mg/kg (ppm)													0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
m+p Xylene	mg/kg (ppm)													0.0051	0.0046	0.0033	0.0051	0.003	0.0043	0.0053	0.00395	0.0038	0.00455	0.005	0.0039	0.01	0.01	0.01	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.01	0.00
Methyl Isobutyl Ketone (MIBK) PP	mg/kg (ppm)							4.00	500	1,000	10,000			0.0255	0.0231	0.0164	0.0256	0.01495	0.0215	0.0265	0.0197	0.019	0.02275	0.02505	0.0196	0.03	0.03	0.03	0.01	0.03	0.02	0.02	0.03	0.02	0.02	0.03	0.02
Methyl Tertiary Butyl Ether (MTBE) OXY	mg/kg (ppm)							0.40	500	1,000	5,000			0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methylene Chloride	mg/kg (ppm)													0.01275	0.01155	0.0082	0.0128	0.0075	0.01075	0.01325	0.00985	0.0095	0.01135	0.01255	0.0098	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Naphthalene	mg/kg (ppm)	500	1,000	176.00	561.00	34.60	391.00	4,000.00	500,000	1,000,000	10,000			0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2-Nitampme (MEK)	mg/kg (ppm)													0.0255	0.0231	0.0164	0.0256	0.01495	0.0215	0.0265	0.0197	0.019	0.02275	0.02505	0.0196	0.03	0.03	0.03	0.01	0.03	0.02	0.02	0.03	0.02	0.02	0.03	0.02
o-Xylene	mg/kg (ppm)													0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Propylbenzene, n-2	mg/kg (ppm)													0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Styrene	mg/kg (ppm)							3.00	80	300	10,000			0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tert-Butyl Ethyl Ether (TBEE)	mg/kg (ppm)													0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tetrachloroethane, 1,1,1,2-	mg/kg (ppm)							0.10	90	400	5,000			0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tetrachloroethane, 1,1,2,2-	mg/kg (ppm)							0.01	10	50	5,000			0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tetrachloroethylene	mg/kg (ppm)							1.00	100	500	8,000			0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tetrahydrofuran (THF)	mg/kg (ppm)													0.0102	0.00925	0.00655	0.01025	0.006	0.0086	0.0106	0.0079	0.0076	0.0091	0.01	0.00785	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Toluene	mg/kg (ppm)							30.00	500	1,000	10,000			0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Trichlorobenzene, 1,2,4-	mg/kg (ppm)							2.00	700	3,000	10,000			0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Trichlorobenzene, 1,2,3-	mg/kg (ppm)													0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Trichloroethane, 1,1,1-	mg/kg (ppm)							30.00	500	1,000	10,000			0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Trichloroethane, 1,1,2-	mg/kg (ppm)							0.10	40	200	5,000			0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Trichloroethylene (TCE)	mg/kg (ppm)							0.30	30	60	700			0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Trichlorofluoromethane (Freon 11)	mg/kg (ppm)													0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Trichloropropane, 1,2,3-	mg/kg (ppm)													0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2,4-Trimethylbenzene	mg/kg (ppm)													0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,3,5-Trimethylbenzene	mg/kg (ppm)													0.00255	0.0023	0.00165	0.00255	0.0015	0.00215	0.00265	0.00195	0.0019	0.00225	0.0025	0.00195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vinyl Chloride	mg/kg (ppm)							0.30	0.30	10	1,000			0.0051	0.0046	0.0033	0.0051	0.003	0.0043	0.0053	0.00395	0.0038	0.00455	0.005	0.0039	0.01	0.01	0.01	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.01	0.00
Xylenes	mg/kg (ppm)							400	500	1,000	10,000			0.0051	0.0046	0.0033	0.0051	0.003	0.0043	0.0053	0.00395	0.0038	0.00455	0.005	0.0039	0.01	0.01	0.01	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.01	0.00
Extra/Additional Parameters																																					
Perchlorate	mg/kg (ppm)							0.10	4.00	6.00	60			0.0027	0.00285	0.00225	0.003	0.0027	0.0034	0.0025	0.005	0.00305	0.00225	0.00275	0.0048	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
alpha-Chlordane	mg/kg (ppm)													0.00155	0.00145	0.00145	0.0014	0.00145	0.00145	0.00165	0.0021	0.0015	0.0017	0.00145	0.00185	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
gamma-Chlordane	mg/kg (ppm)													0.00155	0.00145	0.00145	0.0014	0.00145	0.00145	0.00165	0.0021	0.0015	0.0017	0.00145	0.00185	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C11-C22 Unadjusted Aromatics1	mg/kg (ppm)													9.65	9.1	9.3	8.9	8.7	8.95	9.5	29.4	30.3	10.2	45.7	10.95	9.65	9.65	9.65	8.70	9.30	8.99	9.50	30.30	23.07	10.20	45.70	22.28
2,4,5-T	mg/kg (ppm)													0.0055	0.0055	0.0055	0.0055	0.005	0.0055	0.006	0.008	0.0055	0.006	0.0055	0.0065	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
2,4,5-TP (Silvex)	mg/kg (ppm)													0.0055	0.0055	0.0055	0.0055	0.005	0.0055	0.006	0.008	0.0055	0.006	0.0055	0.0065	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
2,4-D	mg/kg (ppm)													0.028	0.0275	0.027	0.027	0.0255	0.027	0.029	0.0395	0.027	0.0305	0.0275	0.033	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.03	0.03	0.03	0.03
2,4-DB	mg/kg (ppm)													0.028	0.028	0.0275	0.027	0.0255	0.0275	0.029	0.04	0.027	0.031	0.028	0.0335	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.03	0.03	0.03	0.03
Dalapon	mg/kg (ppm)													0.027	0.0265	0.026	0.026	0.0245	0.0265	0.028	0.038	0.026	0.0295	0.0265	0.032	0.03	0.03	0.03	0.02	0.03	0.03	0.03	0.04	0.03	0.03	0.03	0.03
Dicamba	mg/kg (ppm)													0.0055	0.0055	0.0055	0.0055	0.005	0.0055	0.006	0.008	0.0055	0.006	0.011	0.0065	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Dichlorprop	mg/kg (ppm)													0.028	0.0275	0.027	0.027	0.0255	0.027	0.029	0.0395	0.027	0.0305	0.055	0.033	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.03	0.03	0.06	0.04
MCPA	mg/kg (ppm)													1.38	1.36	1.335	1.33	1.26	1.345	1.425	1.95	1.33	1.51	2.72	1.63	1.38	1.38	1.38	1.26	1.36	1.33	1.33	1.95	1.57	1.51	2.72	1.95
MCPP	mg/kg (ppm)													1.395	1.375	1.35	1.345	1.27	1.355	1.44	1.97	1.345	1.525	2.75	1.645	1.40	1.40	1.40	1.27	1.38	1.34	1.35	1.97	1.59	1.53	2.75	1.97

Legend and Notes

Only Parameters with ecological threshold exceedances shown.
No parameters exceeded MCP S1 standards
mg/kg = milligrams per kilogram
Natural and Urban Background Levels in Soil from MassDEP Technical Update: Background Levels of Polycyclic Aromatic Hydrocarbons and Metals in Soil, 1992.
ug/kg = micrograms per kilogram
ppm = parts per million
ppb = parts per billion
TEC / PEC = Threshold / Probable Effect Concentration from MacDonald et al. 2000
TEL / PEL = Threshold / Probably Effect Level from NOAA Screening Quick Reference Tables
Green text font indicates the sample was below the laboratory detection limit and is reported as 1/2 of that limit
Hyphens (-) indicate the parameter was not analyzed
Entries that exceed ecological or human exposure criteria are shaded to match the criteria exceeded. Colorization rersents the highest concentration standard exceeded.
Total PCBs calculated as a sum of the entries for each congener, where a congener was non-detect, half the detection limit used.