

Table 6-1. Summary of pre-, post-remediation EPCs, removal volumes and acreages and IMPGs for human direct contact exposure areas under FP 1.

Exposure Area ID ¹	Area of Exposure Area (acre) ²	IMPG Scenario	Pre-Remediation EPC (mg/kg) ³	Removal			Post-Remediation EPC (mg/kg) ³	IMPG ⁴ (mg/kg)							
				Depth (ft)	Volume (cy)	Area (acre)		Cancer Risk @ 10 ⁻⁶		Cancer Risk @ 10 ⁻⁵		Cancer Risk @ 10 ⁻⁴		Non-Cancer	
								RME	CTE	RME	CTE	RME	CTE	RME	CTE
1	15	Medium-use general recreation, adult / older child	36	---	---	---	36	2.1	51	21	514	215	5143	40	176
2	27	High-use general recreation, adult / older child	31	---	---	---	31	1.4	51	14	514	143	5143	27	176
2a	2.3	Low-use general recreation, older child	56	---	---	---	56	12	103	116	1029	1165	10286	80	353
2b	2.0	High-use general recreation, older child	29	---	---	---	29	3.9	51	39	514	388	5143	27	176
3	0.4	High-use general recreation, adult	5.6	---	---	---	5.6	1.4	63	14	630	143	6305	38	234
4	3.2	High-use general recreation, young child (low use)	29	---	---	---	29	8.0	37	80	368	802	3684	27	63
5	2.5	High-use general recreation, adult / older child	48	---	---	---	48	1.4	51	14	514	143	5143	27	176
6	3.8	Low-use general recreation, adult	59	---	---	---	59	4.3	126	43	1261	429	12610	115	468
7	5.9	High-use general recreation, adult / older child	21	---	---	---	21	1.4	51	14	514	143	5143	27	176
8	0.60	Recreational canoeist	40	---	---	---	40	1.2	13	12	129	121	1286	28	73
9	0.042	Low-use general recreation, older child	27	---	---	---	27	12	103	116	1029	1165	10286	80	353
10	59	High-use general recreation, young child (high use)	10	---	---	---	10	1.3	18	13	184	134	1842	4.6	32
10a	8.0	High-use general recreation, young child (high use)	18	---	---	---	18	1.3	18	13	184	134	1842	4.6	32
11	2.5	High-use general recreation, adult	15	---	---	---	15	1.4	63	14	630	143	6305	38	234
12	4.8	High-use general recreation, young child (low use)	7.0	---	---	---	7.0	8.0	37	80	368	802	3684	27	63
13	5.9	High-use general recreation, adult	14	---	---	---	14	1.4	63	14	630	143	6305	38	234
14	4.1	High-use general recreation, adult	2.7	---	---	---	2.7	1.4	63	14	630	143	6305	38	234
15	0.87	High-use general recreation, adult	2.0	---	---	---	2.0	1.4	63	14	630	143	6305	38	234
16	2.5	High-use general recreation, adult	22	---	---	---	22	1.4	63	14	630	143	6305	38	234
17	8.5	High-use general recreation, adult	13	---	---	---	13	1.4	63	14	630	143	6305	38	234
18	17	Medium-use general recreation, adult	17	---	---	---	17	2.1	63	21	630	215	6305	58	234
19	36	High-use general recreation, adult	83	---	---	---	83	1.4	63	14	630	143	6305	38	234
20	9.1	High-use general recreation, adult	31	---	---	---	31	1.4	63	14	630	143	6305	38	234
21	2.9	High-use general recreation, adult / older child	4.9	---	---	---	4.9	1.4	51	14	514	143	5143	27	176
22	19	High-use general recreation, adult / older child	26	---	---	---	26	1.4	51	14	514	143	5143	27	176
22a	1.8	Dirt biking/ATVing	88	---	---	---	88	2.0	29	20	290	205	2901	14	99
23	0.28	Medium-use general recreation, older child	12	---	---	---	12	5.8	51	58	514	582	5143	40	176
24	10	High-use general recreation, adult	31	---	---	---	31	1.4	63	14	630	143	6305	38	234
25	0.51	High-use general recreation, older child	30	---	---	---	30	3.9	51	39	514	388	5143	27	176
26a	48	High-use general recreation, adult / older child	7.2	---	---	---	7.2	1.4	51	14	514	143	5143	27	176
26b	7.6	Agricultural use (based on direct contact by farmer)	1.7	---	---	---	1.7	1.2	42	12	419	118	4195	43	348
26_F	55	High-use general recreation, adult / older child	6.3	---	---	---	6.3	1.4	51	14	514	143	5143	27	176
27	6.3	High-use general recreation, adult / older child	2.4	---	---	---	2.4	1.4	51	14	514	143	5143	27	176
27a	0.38	Dirt biking/ATVing	4.3	---	---	---	4.3	2.0	29	20	290	205	2901	14	99
28	0.21	High-use general recreation, young child (low use)	21	---	---	---	21	8.0	37	80	368	802	3684	27	63
28a	0.071	Dirt biking/ATVing	21	---	---	---	21	2.0	29	20	290	205	2901	14	99
29	0.34	Low-use general recreation, adult / older child	21	---	---	---	21	4.3	103	43	1029	429	10286	80	353
30	0.19	High-use general recreation, adult / older child	13	---	---	---	13	1.4	51	14	514	143	5143	27	176
31	5.0	High-use general recreation, adult / older child	14	---	---	---	14	1.4	51	14	514	143	5143	27	176
31a	0.61	High-use general recreation, adult / older child	42	---	---	---	42	1.4	51	14	514	143	5143	27	176
32	6.8	High-use general recreation, adult	14	---	---	---	14	1.4	63	14	630	143	6305	38	234
33	30	High-use general recreation, adult	20	---	---	---	20	1.4	63	14	630	143	6305	38	234
34	7.8	Medium-use general recreation, adult	25	---	---	---	25	2.1	63	21	630	215	6305	58	234
35	25	High-use general recreation, adult / older child	22	---	---	---	22	1.4	51	14	514	143	5143	27	176
35a	1.2	High-use general recreation, adult / older child	39	---	---	---	39	1.4	51	14	514	143	5143	27	176
36a	16	Low-use commercial (groundskeeper scenario)	23	---	---	---	23	8.9	166	89	1664	885	16642	126	571
36b	2.2	Agricultural use (based on direct contact by farmer)	15	---	---	---	15	1.2	42	12	419	118	4195	43	348
37	20	High-use general recreation, adult / older child	17	---	---	---	17	1.4	51	14	514	143	5143	27	176
37a	1.4	Bank fishing	26	---	---	---	26	2.6	52	26	524	256	5237	42	180

Table 6-1. Summary of pre-, post-remediation EPCs, removal volumes and acreages and IMPGs for human direct contact exposure areas under FP 1.

Exposure Area ID ¹	Area of Exposure Area (acre) ²	IMPG Scenario	Pre-Remediation EPC (mg/kg) ³	Removal			Post-Remediation EPC (mg/kg) ³	IMPG ⁴ (mg/kg)							
				Depth (ft)	Volume (cy)	Area (acre)		Cancer Risk @ 10 ⁻⁶		Cancer Risk @ 10 ⁻⁵		Cancer Risk @ 10 ⁻⁴		Non-Cancer	
								RME	CTE	RME	CTE	RME	CTE	RME	CTE
37b	2.3	High-use general recreation, adult / older child	25	---	---	---	25	1.4	51	14	514	143	5143	27	176
38	13	High-use general recreation, adult	23	---	---	---	23	1.4	63	14	630	143	6305	38	234
38a	1.4	Bank fishing	33	---	---	---	33	2.6	52	26	524	256	5237	42	180
39	3.5	Marathon canoeist	32	---	---	---	32	0.78	5.8	7.8	58	78	575	13	25
40	98	High-use general recreation, young child (low use)	20	---	---	---	20	8.0	37	80	368	802	3684	27	63
40a	4.6	Bank fishing	40	---	---	---	40	2.6	52	26	524	256	5237	42	180
40b	1.1	High-use general recreation, young child (low use)	11	---	---	---	11	8.0	37	80	368	802	3684	27	63
41	20	Medium-use general recreation, adult	28	---	---	---	28	2.1	63	21	630	215	6305	58	234
41a	2.4	Bank fishing	35	---	---	---	35	2.6	52	26	524	256	5237	42	180
42	14	Medium-use general recreation, adult	12	---	---	---	12	2.1	63	21	630	215	6305	58	234
42a	0.94	Bank fishing	14	---	---	---	14	2.6	52	26	524	256	5237	42	180
43	1.5	Medium-use general recreation, adult	27	---	---	---	27	2.1	63	21	630	215	6305	58	234
43a	0.24	Bank fishing	64	---	---	---	64	2.6	52	26	524	256	5237	42	180
44	2.2	High-use general recreation, adult	24	---	---	---	24	1.4	63	14	630	143	6305	38	234
45	17	High-use general recreation, adult	39	---	---	---	39	1.4	63	14	630	143	6305	38	234
46	7.2	High-use general recreation, adult	8.2	---	---	---	8.2	1.4	63	14	630	143	6305	38	234
47	1.0	Recreational canoeist	18	---	---	---	18	1.2	13	12	129	121	1286	28	73
47_F	0.12	Recreational canoeist	8.1	---	---	---	8.1	1.2	13	12	129	121	1286	28	73
48	6.5	High-use general recreation, adult	3.4	---	---	---	3.4	1.4	63	14	630	143	6305	38	234
49	7.7	Low-use general recreation, adult	17	---	---	---	17	4.3	126	43	1261	429	12610	115	468
50	69	Low-use general recreation, adult	7.3	---	---	---	7.3	4.3	126	43	1261	429	12610	115	468
50a	11	Waterfowl hunting	15	---	---	---	15	9.0	75	90	752	904	7518	140	399
51	87	Low-use general recreation, adult	7.2	---	---	---	7.2	4.3	126	43	1261	429	12610	115	468
51a	32	Waterfowl hunting	13	---	---	---	13	9.0	75	90	752	904	7518	140	399
52	0.9	Recreational canoeist	10	---	---	---	10	1.2	13	12	129	121	1286	28	73
53	0.7	Recreational canoeist	34	---	---	---	34	1.2	13	12	129	121	1286	28	73
54	13	High-use general recreation, adult	7.1	---	---	---	7.1	1.4	63	14	630	143	6305	38	234
55	18	High-use general recreation, young child (low use)	11	---	---	---	11	8.0	37	80	368	802	3684	27	63
55a	5.0	Waterfowl hunting	47	---	---	---	47	9.0	75	90	752	904	7518	140	399
56	32	Medium-use general recreation, adult / older child	38	---	---	---	38	2.1	51	21	514	215	5143	40	176
56a	10	Waterfowl hunting	49	---	---	---	49	9.0	75	90	752	904	7518	140	399
57	13	High-use general recreation, young child (low use)	5.8	---	---	---	5.8	8.0	37	80	368	802	3684	27	63
58	1.3	High-use general recreation, adult	65	---	---	---	65	1.4	63	14	630	143	6305	38	234
59	1.9	High-use general recreation, young child (low use)	18	---	---	---	18	8.0	37	80	368	802	3684	27	63
59a	0.83	Bank fishing	22	---	---	---	22	2.6	52	26	524	256	5237	42	180
60	0.84	High-use general recreation, young child (low use)	7.0	---	---	---	7.0	8.0	37	80	368	802	3684	27	63
60a	0.16	Recreational canoeist	13	---	---	---	13	1.2	13	12	129	121	1286	28	73
61	3.3	Utility worker	42	---	---	---	42	17	209	169	2093	1694	20933	242	718
62	1.6	Utility worker	134	---	---	---	134	17	209	169	2093	1694	20933	242	718
63	0.67	Utility worker	23	---	---	---	23	17	209	169	2093	1694	20933	242	718
64	0.61	Utility worker	42	---	---	---	42	17	209	169	2093	1694	20933	242	718
65	3.9	Utility worker	17	---	---	---	17	17	209	169	2093	1694	20933	242	718
66	1.7	Utility worker	23	---	---	---	23	17	209	169	2093	1694	20933	242	718
67	0.31	High-use general recreation, adult	11	---	---	---	11	1.4	63	14	630	143	6305	38	234
68	0.090	High-use general recreation, adult	9.0	---	---	---	9.0	1.4	63	14	630	143	6305	38	234
69	1.9	High-use general recreation, adult	7.3	---	---	---	7.3	1.4	63	14	630	143	6305	38	234
70	19	High-use general recreation, young child (high use)	2.4	---	---	---	2.4	1.3	18	13	184	134	1842	4.6	32
70a	1.2	Bank fishing	3.8	---	---	---	3.8	2.6	52	26	524	256	5237	42	180
71	1.8	Bank fishing	4.6	---	---	---	4.6	2.6	52	26	524	256	5237	42	180
72	2.3	Bank fishing	10	---	---	---	10	2.6	52	26	524	256	5237	42	180

Table 6-1. Summary of pre-, post-remediation EPCs, removal volumes and acreages and IMPGs for human direct contact exposure areas under FP 1.

Exposure Area ID ¹	Area of Exposure Area (acre) ²	IMPG Scenario	Pre-Remediation EPC (mg/kg) ³	Removal			Post-Remediation EPC (mg/kg) ³	IMPG ⁴ (mg/kg)							
				Depth (ft)	Volume (cy)	Area (acre)		Cancer Risk @ 10 ⁻⁶		Cancer Risk @ 10 ⁻⁵		Cancer Risk @ 10 ⁻⁴		Non-Cancer	
								RME	CTE	RME	CTE	RME	CTE	RME	CTE
73	3.9	High-use general recreation, adult	0.50	---	---	---	0.50	1.4	63	14	630	143	6305	38	234
74	5.3	High-use general recreation, adult	5.3	---	---	---	5.3	1.4	63	14	630	143	6305	38	234
75	3.4	High-use general recreation, adult	15	---	---	---	15	1.4	63	14	630	143	6305	38	234
76	1.1	High-use general recreation, adult	0.79	---	---	---	0.79	1.4	63	14	630	143	6305	38	234
77	4.2	High-use general recreation, adult	0.89	---	---	---	0.89	1.4	63	14	630	143	6305	38	234
78	6.2	High-use general recreation, older child	5.9	---	---	---	5.9	3.9	51	39	514	388	5143	27	176
79	17	High-use general recreation, adult	2.9	---	---	---	2.9	1.4	63	14	630	143	6305	38	234
80a	9.5	Low-use general recreation, adult	2.6	---	---	---	2.6	4.3	126	43	1261	429	12610	115	468
80b	20	Agricultural use (based on direct contact by farmer)	0.76	---	---	---	0.76	1.2	42	12	419	118	4195	43	348
81	33	Low-use general recreation, adult	2.3	---	---	---	2.3	4.3	126	43	1261	429	12610	115	468
82	15	Low-use general recreation, adult	3.6	---	---	---	3.6	4.3	126	43	1261	429	12610	115	468
83	22	High-use commercial (groundskeeper scenario)	1.9	---	---	---	1.9	1.8	17	18	166	177	1664	25	57
84	8.5	Low-use general recreation, adult	4.3	---	---	---	4.3	4.3	126	43	1261	429	12610	115	468
85a	0.25	Recreational canoeist	7.9	---	---	---	7.9	1.2	13	12	129	121	1286	28	73
85b	10	High-use general recreation, older child	1.7	---	---	---	1.7	3.9	51	39	514	388	5143	27	176
86	118	High-use commercial (groundskeeper scenario)	2.5	---	---	---	2.5	1.8	17	18	166	177	1664	25	57
87	10	High-use general recreation, young child (high use)	9.4	---	---	---	9.4	1.3	18	13	184	134	1842	4.6	32
87a	0.88	Bank fishing	6.0	---	---	---	6.0	2.6	52	26	524	256	5237	42	180
88	1.1	Medium-use general recreation, older child	13	---	---	---	13	5.8	51	58	514	582	5143	40	176
89	4.3	High-use general recreation, adult	6.4	---	---	---	6.4	1.4	63	14	630	143	6305	38	234
90	8.9	High-use general recreation, adult / older child	6.8	---	---	---	6.8	1.4	51	14	514	143	5143	27	176
				Subtotal:	0	0									
Heavily Used Subareas															
Exposure Area ID ¹	Area of Exposure Area (acre) ²	IMPG Scenario	Pre-Remediation EPC (mg/kg) ³	Removal			Post-Remediation EPC (mg/kg) ³	IMPG ⁴ (mg/kg)							
				Depth (ft)	Volume (cy)	Area (acre)		Cancer Risk @ 10 ⁻⁶		Cancer Risk @ 10 ⁻⁵		Cancer Risk @ 10 ⁻⁴		Non-Cancer	
								RME	CTE	RME	CTE	RME	CTE	RME	CTE
4	0.71	High-use general recreation, young child (low use)	17	---	---	---	17	8.0	37	80	368	802	3684	27	63
12	1.5	High-use general recreation, young child (low use)	9.8	---	---	---	9.8	8.0	37	80	368	802	3684	27	63
26a	2.2	High-use general recreation, adult / older child	1.9	---	---	---	1.9	1.4	51	14	514	143	5143	27	176
39	0.15	Marathon canoeist	54	---	---	---	54	0.78	5.8	7.8	58	78	575	13	25
40	5.2	High-use general recreation, young child (low use)	19	---	---	---	19	8.0	37	80	368	802	3684	27	63
47	0.18	Recreational canoeist	6.0	---	---	---	6.0	1.2	13	12	129	121	1286	28	73
52	0.25	Recreational canoeist	7.0	---	---	---	7.0	1.2	13	12	129	121	1286	28	73
53	0.35	Recreational canoeist	408	---	---	---	408	1.2	13	12	129	121	1286	28	73
60a	0.16	Recreational canoeist	7.0	---	---	---	7.0	1.2	13	12	129	121	1286	28	73
				Subtotal:	0	0									
				Total:	0	0									

Notes:

¹ See Figures 5-1 and 5-2 for direct contact exposure areas in Reaches 5 through 8, and Heavily Used Subareas, respectively.

² Area only includes the portion of the exposure area within the 1 mg/kg PCB isopleth (Reaches 5/6) or the 100-year floodplain (Reaches 7/8).

³ EPC is calculated for top 1-ft floodplain soil, except in Heavily Used Subareas where it is calculated for top 3-ft floodplain soil.

⁴ For scenarios that contain more than one receptor (e.g. adult and older child), the lowest IMPG was utilized in the comparison to post-remediation EPCs.

Key

= post-remediation EPC is lower than the IMPG

Table 6-2. Summary of IMPGs, pre- and post-remediation EPCs, and removal volumes and acreages for agricultural products consumption areas under FP 1.

Farm ID ¹	Area of farm (acre) ²	IMPG Scenario	Pre-Remediation EPC ³ (mg/kg)	Removal ⁴			Post-Remediation EPC ³ (mg/kg)	IMPG ⁵ (mg/kg)									
				Depth (ft)	Volume (cy)	Area (acres)		Cancer Risk @ 10 ⁻⁶		Cancer Risk @ 10 ⁻⁵		Cancer Risk @ 10 ⁻⁴		Non-Cancer (Child)		Non-Cancer (Adult)	
								RME	CTE	RME	CTE	RME	CTE	RME	CTE	RME	CTE
FA 1	8.0	Commercial Dairy	1.6	---	---	---	1.6	0.68	3.1	6.8	31	68	312	7.7	12.2	36.4	44.3
FA 2	3.3		13	---	---	---	13	2.59	11.9	25.9	119	259	1187	29.1	46.4	138.1	168.3
FA 3	4.1		0.20	---	---	---	0.20	0.29	1.3	2.9	13	29	132	3.2	5.2	15.4	18.7
FA 4	64		0.38	---	---	---	0.38	0.24	1.1	2.4	11	24	110	2.7	4.3	12.8	15.6
FA 5	12		0.25	---	---	---	0.25	0.24	1.1	2.4	11	24	110	2.7	4.3	12.8	15.6
FA 6	8		0.25	---	---	---	0.25	0.24	1.1	2.4	11	24	110	2.7	4.3	12.8	15.6
FA 7	24		0.25	---	---	---	0.25	0.24	1.1	2.4	11	24	110	2.7	4.3	12.8	15.6
FA 8	9.4		0.19	---	---	---	0.19	0.34	1.5	3.4	15	34	154	3.8	6.0	17.9	21.8
FA 9	26		0.89	---	---	---	0.89	0.31	1.4	3.1	14	31	143	3.5	5.6	16.6	20.3
FA 10	0.3		0.50	---	---	---	0.50	2.06	9.5	20.6	95	206	946	23.2	37.0	110.1	134.2
FA 11	0.14		0.25	---	---	---	0.25	6.10	27.9	61.0	279	610	2794	68.6	109.2	325.1	396.2
FA 12	8.0		0.25	---	---	---	0.25	0.38	1.8	3.8	18	38	176	4.3	6.9	20.5	25.0
FA 13	4.0		0.25	---	---	---	0.25	0.24	1.1	2.4	11	24	110	2.7	4.3	12.8	15.6
FA 14	2.6		0.30	---	---	---	0.30	0.55	2.5	5.5	25	55	253	6.2	9.9	29.4	35.9
Total:				0	0	0											

Notes:

¹ See Figure 5-4 for farm areas in Reaches 5 through 8.

² Farm area only includes the portion within the 1 mg/kg PCB isopleth (Reaches 5/6) or the 100-year floodplain (Reaches 7/8).

³ EPC is calculated for top 1 ft floodplain soil.

⁴ As stated in Section 5.4.4, the total and subtotal volumes shown are consistent with those described in the text, but due to roundoff for the individual averaging areas, do not always agree with the sum of the individual averaging areas.

⁵ IMPG values for agricultural products consumption include a multiplier to account for the areas outside the 1 mg/kg PCB isopleth/100-year floodplain (see Table 5-2).

Key


 = post-remediation EPC is lower than the IMPG

Table 6-3. Summary of IMPGs, pre- and post-remediation EPCs, and removal volumes and acreages for wood frog averaging areas (vernal pools) under FP 1.

Vernal Pool ID ¹	Area of Vernal Pool (acre)	Pre-Remediation EPC ² (mg/kg)	Removal			Post-Remediation EPC ² (mg/kg)	IMPG (mg/kg)	
			Depth (ft)	Volume (cy)	Area (acre)		Lower Bound	Upper Bound
5-VP-3	1.9	29	---	---	---	29	3.27	5.6
5-VP-1	0.044	1.7	---	---	---	1.7	3.27	5.6
8-VP-5	0.043	26	---	---	---	26	3.27	5.6
8-VP-4	0.24	3.9	---	---	---	3.9	3.27	5.6
8-VP-3	0.02	7.7	---	---	---	7.7	3.27	5.6
8-VP-2	0.57	66	---	---	---	66	3.27	5.6
18-VP-2	0.61	7.2	---	---	---	7.2	3.27	5.6
18-VP-1	0.28	7.9	---	---	---	7.9	3.27	5.6
19-VP-7	0.068	0.80	---	---	---	0.80	3.27	5.6
19-VP-2	0.0080	34	---	---	---	34	3.27	5.6
19-VP-1	0.18	23	---	---	---	23	3.27	5.6
19-VP-3	0.031	10	---	---	---	10	3.27	5.6
19-VP-4	0.094	5.6	---	---	---	5.6	3.27	5.6
19-VP-8	0.057	91	---	---	---	91	3.27	5.6
19-VP-5	0.51	26	---	---	---	26	3.27	5.6
19-VP-6	1.2	22	---	---	---	22	3.27	5.6
23-VP-2	0.18	46	---	---	---	46	3.27	5.6
23-VP-1	0.30	62	---	---	---	62	3.27	5.6
23A-VP-1	0.45	26	---	---	---	26	3.27	5.6
23B-VP-1	0.068	26	---	---	---	26	3.27	5.6
23B-VP-2	0.091	0.34	---	---	---	0.34	3.27	5.6
27B-VP-2	0.28	11	---	---	---	11	3.27	5.6
27B-VP-3	0.062	16	---	---	---	16	3.27	5.6
27B-VP-1	0.072	12	---	---	---	12	3.27	5.6
27-VP-2	0.47	21	---	---	---	21	3.27	5.6
27A-VP-1	0.20	31	---	---	---	31	3.27	5.6
27-VP-1	1.3	23	---	---	---	23	3.27	5.6
26-VP-1	0.036	40	---	---	---	40	3.27	5.6
33-VP-1	0.022	10	---	---	---	10	3.27	5.6
33-VP-2	0.12	65	---	---	---	65	3.27	5.6
38-VP-1	0.43	34	---	---	---	34	3.27	5.6
38A-VP-1	0.020	5.0	---	---	---	5.0	3.27	5.6
38-VP-3	0.046	28	---	---	---	28	3.27	5.6
38-VP-2	0.17	28	---	---	---	28	3.27	5.6
40-VP-3	0.46	59	---	---	---	59	3.27	5.6
40-VP-2	0.36	17	---	---	---	17	3.27	5.6
40A-VP-1	0.11	68	---	---	---	68	3.27	5.6
40-VP-1	0.47	58	---	---	---	58	3.27	5.6
42-VP-1	0.22	63	---	---	---	63	3.27	5.6
42-VP-2	0.28	45	---	---	---	45	3.27	5.6
42-VP-3	0.050	41	---	---	---	41	3.27	5.6
42-VP-5	0.58	61	---	---	---	61	3.27	5.6
42-VP-4	1.0	33	---	---	---	33	3.27	5.6
42A-VP-1	1.5	31	---	---	---	31	3.27	5.6
46-VP-2	7.1	20	---	---	---	20	3.27	5.6
46-VP-1	0.52	51	---	---	---	51	3.27	5.6
46-VP-5	0.056	123	---	---	---	123	3.27	5.6
46-VP-3	1.4	67	---	---	---	67	3.27	5.6
46-VP-4	0.011	125	---	---	---	125	3.27	5.6
49A-VP-1	0.019	16	---	---	---	16	3.27	5.6
49-VP-1	1.2	18	---	---	---	18	3.27	5.6
49B-VP-1	0.0044	26	---	---	---	26	3.27	5.6
66A-VP-1	0.032	0.70	---	---	---	0.70	3.27	5.6
69-VP-1	0.0074	12	---	---	---	12	3.27	5.6
8-VP-6	0.086	47	---	---	---	47	3.27	5.6
12-VP-1	0.080	8.0	---	---	---	8.0	3.27	5.6
39-VP-1	2.0	32	---	---	---	32	3.27	5.6
54-VP-1	0.20	21	---	---	---	21	3.27	5.6
55-VP-1	0.59	7.7	---	---	---	7.7	3.27	5.6
55A-VP-1	2.0	79	---	---	---	79	3.27	5.6
58A-VP-1	0.32	22	---	---	---	22	3.27	5.6
67A-VP-1	0.12	13	---	---	---	13	3.27	5.6
61A-VP-1	0.19	28	---	---	---	28	3.27	5.6
61A-VP-2	1.2	35	---	---	---	35	3.27	5.6
56A-VP-1	0.58	73	---	---	---	73	3.27	5.6
23-VP-3	1.3	22	---	---	---	22	3.27	5.6
			Total	0	0			

Notes:

¹ See Figure 5-5 for locations of vernal pools.

² EPC is calculated for the top 1 ft of floodplain soil.

Key

= post-remediation EPC is lower than the IMPG

Table 6-4. Summary of IMPGs, pre- and post-remediation EPCs, and removal volumes and acreages for shrew averaging areas under FP 1.

Averaging Area ID ¹	Area of Averaging Area (acre)	Pre-Remediation EPC ² (mg/kg)	Removal			Post-Remediation EPC ² (mg/kg)	IMPG (mg/kg)	
			Depth (ft)	Volume (cy)	Area (acre)		Lower Bound	Upper Bound
G1	88	22	---	---	---	22	21.1	34.3
G2	87	50	---	---	---	50	21.1	34.3
G3	86	18	---	---	---	18	21.1	34.3
G4	86	27	---	---	---	27	21.1	34.3
G5	88	28	---	---	---	28	21.1	34.3
G6	87	11	---	---	---	11	21.1	34.3
G7	73	17	---	---	---	17	21.1	34.3
Total:			0	0	0			

Notes:

¹ See Figure 5-6 for shrew averaging areas.

² EPC is calculated for the top 1 ft of floodplain soil.

Key

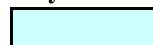
 = post-remediation EPC is lower than the IMPG

Table 6-5. Summary of IMPGs, pre- and post-remediation EPCs, and removal volumes and acreages for wood duck averaging areas under FP 1.

Averaging Area ID ¹	Reach	Averaging Area (acre)	Pre-Remediation EPC ² (mg/kg)	Removal ³			Post-Remediation EPC ² (mg/kg)	Floodplain IMPG (mg/kg)		
				Depth (ft)	Volume (cy)	Area (acre)		Sediment Target Level		
								1 mg/kg	3 mg/kg	5 mg/kg
K1	5A	52	34	---	---	---	34	50	39	29
K2		63	8.1	---	---	---	8.1	50	39	29
K3		85	40	---	---	---	40	50	39	29
K4		60	17	---	---	---	17	50	39	29
K5		25	23	---	---	---	23	50	39	29
K6	5B	55	25	---	---	---	25	48	33	18
K7		47	29	---	---	---	29	48	33	18
K8		92	24	---	---	---	24	48	33	18
K9	5C/5D	69	25	---	---	---	25	53	49	46
K10		83	13	---	---	---	13	53	49	46
K11		61	14	---	---	---	14	53	49	46
K12	6	28	23	---	---	---	23	53	50	46
				Total:	0	0				

Notes:

¹ See Figure 5-7 for wood duck averaging areas.

² EPC is calculated for the top 1 ft of floodplain soil.

³ As stated in Section 5.4.4, the total and subtotal volumes shown are consistent with those described in the text, but due to roundoff for the individual averaging areas, do not always agree with the sum of the individual averaging areas.

Key


 = post-remediation EPC is lower than the IMPG

Table 6-6. Summary of IMPGs, pre- and post-remediation EPCs, and removal volumes and acreages for mink averaging areas under FP 1.

Averaging Area ¹	Area of Averaging Area (acre)	Pre-Remediation EPC ² (mg/kg)	Removal ³			Post-Remediation EPC ² (mg/kg)	Floodplain IMPG ⁴ (mg/kg)					
			Depth (ft)	Volume (cy)	Area (acre)		Sediment Target Level					
							1 mg/kg		3 mg/kg		5 mg/kg	
							Lower Bound	Upper Bound	Lower Bound	Upper Bound	Lower Bound	Upper Bound
5A/5B	435	22	---	---	---	22	3.4	16.6	n/a	5.1	n/a	n/a
5C/5D/6	291	18	---	---	---	18	6.9	19.6	3.0	15.7	n/a	11.8
			Total:	0	0							

Notes:

¹ See Figure 5-8 for mink averaging areas.

² EPC is calculated for the top 1 ft of floodplain soil.

³ As stated in Section 5.4.4, the total and subtotal volumes shown are consistent with those described in the text, but due to roundoff for the individual averaging areas, do not always agree with the sum of the individual averaging areas.

⁴ (n/a) denotes IMPG values not attainable in given reach for the sediment target level.

Key

= post-remediation EPC is lower than the IMPG

Table 6-7. Summary of pre-, post-remediation EPCs, removal volumes and acreages and IMPGs for human direct contact exposure areas under FP 2.

Exposure Area ID ¹	Area of Exposure Area (acre) ²	IMPG Scenario	Pre-Remediation EPC (mg/kg) ³	Removal ⁴			Post-Remediation EPC (mg/kg) ³	IMPG ⁵ (mg/kg)							
				Depth (ft)	Volume (cy)	Area (acre)		Cancer Risk @ 10 ⁻⁶		Cancer Risk @ 10 ⁻⁵		Cancer Risk @ 10 ⁻⁴		Non-Cancer	
								RME	CTE	RME	CTE	RME	CTE	RME	CTE
1	15	Medium-use general recreation, adult / older child	36	---	---	---	36	2.1	51	21	514	215	5143	40	176
2	27	High-use general recreation, adult / older child	31	1	1000	0.79	27	1.4	51	14	514	143	5143	27	176
2a	2.3	Low-use general recreation, older child	56	---	---	---	56	12	103	116	1029	1165	10286	80	353
2b	2.0	High-use general recreation, older child	29	1	10	0.010	27	3.9	51	39	514	388	5143	27	176
3	0.4	High-use general recreation, adult	5.6	---	---	---	5.6	1.4	63	14	630	143	6305	38	234
4	3.2	High-use general recreation, young child (low use)	29	1	40	0.030	27	8.0	37	80	368	802	3684	27	63
5	2.5	High-use general recreation, adult / older child	48	1	400	0.28	27	1.4	51	14	514	143	5143	27	176
6	3.8	Low-use general recreation, adult	59	---	---	---	59	4.3	126	43	1261	429	12610	115	468
7	5.9	High-use general recreation, adult / older child	21	---	---	---	21	1.4	51	14	514	143	5143	27	176
8	0.60	Recreational canoeist	40	1	80	0.050	28	1.2	13	12	129	121	1286	28	73
9	0.042	Low-use general recreation, older child	27	---	---	---	27	12	103	116	1029	1165	10286	80	353
10	59	High-use general recreation, young child (high use)	10	1	8000	4.7	4.6	1.3	18	13	184	134	1842	4.6	32
10a	8.0	High-use general recreation, young child (high use)	18	1	400	0.23	4.6	1.3	18	13	184	134	1842	4.6	32
11	2.5	High-use general recreation, adult	15	---	---	---	15	1.4	63	14	630	143	6305	38	234
12	4.8	High-use general recreation, young child (low use)	7.0	---	---	---	7.0	8.0	37	80	368	802	3684	27	63
13	5.9	High-use general recreation, adult	14	---	---	---	14	1.4	63	14	630	143	6305	38	234
14	4.1	High-use general recreation, adult	2.7	---	---	---	2.7	1.4	63	14	630	143	6305	38	234
15	0.87	High-use general recreation, adult	2.0	---	---	---	2.0	1.4	63	14	630	143	6305	38	234
16	2.5	High-use general recreation, adult	22	---	---	---	22	1.4	63	14	630	143	6305	38	234
17	8.5	High-use general recreation, adult	13	---	---	---	13	1.4	63	14	630	143	6305	38	234
18	17	Medium-use general recreation, adult	17	---	---	---	17	2.1	63	21	630	215	6305	58	234
19	36	High-use general recreation, adult	83	1	800	0.51	38	1.4	63	14	630	143	6305	38	234
20	9.1	High-use general recreation, adult	31	---	---	---	31	1.4	63	14	630	143	6305	38	234
21	2.9	High-use general recreation, adult / older child	4.9	---	---	---	4.9	1.4	51	14	514	143	5143	27	176
22	19	High-use general recreation, adult / older child	26	---	---	---	25	1.4	51	14	514	143	5143	27	176
22a	1.8	Dirt biking/ATVing	88	1	900	0.56	14	2.0	29	20	290	205	2901	14	99
23	0.28	Medium-use general recreation, older child	12	---	---	---	12	5.8	51	58	514	582	5143	40	176
24	10	High-use general recreation, adult	31	---	---	---	31	1.4	63	14	630	143	6305	38	234
25	0.51	High-use general recreation, older child	30	1	90	0.050	27	3.9	51	39	514	388	5143	27	176
26a	48	High-use general recreation, adult / older child	7.2	---	---	---	7.2	1.4	51	14	514	143	5143	27	176
26b	7.6	Agricultural use (based on direct contact by farmer)	1.7	---	---	---	1.7	1.2	42	12	419	118	4195	43	348
26_F	55	High-use general recreation, adult / older child	6.3	---	---	---	6.3	1.4	51	14	514	143	5143	27	176
27	6.3	High-use general recreation, adult / older child	2.4	---	---	---	2.4	1.4	51	14	514	143	5143	27	176
27a	0.38	Dirt biking/ATVing	4.3	---	---	---	4.3	2.0	29	20	290	205	2901	14	99
28	0.21	High-use general recreation, young child (low use)	21	---	---	---	21	8.0	37	80	368	802	3684	27	63
28a	0.071	Dirt biking/ATVing	21	1	30	0.020	13	2.0	29	20	290	205	2901	14	99
29	0.34	Low-use general recreation, adult / older child	21	---	---	---	21	4.3	103	43	1029	429	10286	80	353
30	0.19	High-use general recreation, adult / older child	13	---	---	---	13	1.4	51	14	514	143	5143	27	176
31	5.0	High-use general recreation, adult / older child	14	---	---	---	13	1.4	51	14	514	143	5143	27	176
31a	0.61	High-use general recreation, adult / older child	42	1	200	0.11	27	1.4	51	14	514	143	5143	27	176
32	6.8	High-use general recreation, adult	14	---	---	---	14	1.4	63	14	630	143	6305	38	234
33	30	High-use general recreation, adult	20	---	---	---	20	1.4	63	14	630	143	6305	38	234
34	7.8	Medium-use general recreation, adult	25	---	---	---	25	2.1	63	21	630	215	6305	58	234
35	25	High-use general recreation, adult / older child	22	---	---	---	22	1.4	51	14	514	143	5143	27	176
35a	1.2	High-use general recreation, adult / older child	39	1	40	0.020	27	1.4	51	14	514	143	5143	27	176
36a	16	Low-use commercial (groundskeeper scenario)	23	---	---	---	23	8.9	166	89	1664	885	16642	126	571
36b	2.2	Agricultural use (based on direct contact by farmer)	15	---	---	---	15	1.2	42	12	419	118	4195	43	348
37	20	High-use general recreation, adult / older child	17	---	---	---	17	1.4	51	14	514	143	5143	27	176
37a	1.4	Bank fishing	26	---	---	---	26	2.6	52	26	524	256	5237	42	180
37b	2.3	High-use general recreation, adult / older child	25	---	---	---	25	1.4	51	14	514	143	5143	27	176

Table 6-7. Summary of pre-, post-remediation EPCs, removal volumes and acreages and IMPGs for human direct contact exposure areas under FP 2.

Exposure Area ID ¹	Area of Exposure Area (acre) ²	IMPG Scenario	Pre-Remediation EPC (mg/kg) ³	Removal ⁴			Post-Remediation EPC (mg/kg) ³	IMPG ⁵ (mg/kg)							
				Depth (ft)	Volume (cy)	Area (acre)		Cancer Risk @ 10 ⁻⁶		Cancer Risk @ 10 ⁻⁵		Cancer Risk @ 10 ⁻⁴		Non-Cancer	
								RME	CTE	RME	CTE	RME	CTE	RME	CTE
38	13	High-use general recreation, adult	23	---	---	---	23	1.4	63	14	630	143	6305	38	234
38a	1.4	Bank fishing	33	---	---	---	33	2.6	52	26	524	256	5237	42	180
39	3.5	Marathon canoeist	32	1	900	0.57	13	0.78	5.8	7.8	58	78	575	13	25
40	98	High-use general recreation, young child (low use)	20	---	---	---	20	8.0	37	80	368	802	3684	27	63
40a	4.6	Bank fishing	40	---	---	---	40	2.6	52	26	524	256	5237	42	180
40b	1.1	High-use general recreation, young child (low use)	11	---	---	---	11	8.0	37	80	368	802	3684	27	63
41	20	Medium-use general recreation, adult	28	---	---	---	28	2.1	63	21	630	215	6305	58	234
41a	2.4	Bank fishing	35	---	---	---	35	2.6	52	26	524	256	5237	42	180
42	14	Medium-use general recreation, adult	12	---	---	---	12	2.1	63	21	630	215	6305	58	234
42a	0.94	Bank fishing	14	---	---	---	14	2.6	52	26	524	256	5237	42	180
43	1.5	Medium-use general recreation, adult	27	---	---	---	27	2.1	63	21	630	215	6305	58	234
43a	0.24	Bank fishing	64	1	10	0.010	42	2.6	52	26	524	256	5237	42	180
44	2.2	High-use general recreation, adult	24	---	---	---	24	1.4	63	14	630	143	6305	38	234
45	17	High-use general recreation, adult	39	1	200	0.12	38	1.4	63	14	630	143	6305	38	234
46	7.2	High-use general recreation, adult	8.2	---	---	---	8.2	1.4	63	14	630	143	6305	38	234
47	1.0	Recreational canoeist	18	---	---	---	18	1.2	13	12	129	121	1286	28	73
47_F	0.12	Recreational canoeist	8.1	---	---	---	8.1	1.2	13	12	129	121	1286	28	73
48	6.5	High-use general recreation, adult	3.4	---	---	---	3.4	1.4	63	14	630	143	6305	38	234
49	7.7	Low-use general recreation, adult	17	---	---	---	17	4.3	126	43	1261	429	12610	115	468
50	69	Low-use general recreation, adult	7.3	---	---	---	7.3	4.3	126	43	1261	429	12610	115	468
50a	11	Waterfowl hunting	15	---	---	---	15	9.0	75	90	752	904	7518	140	399
51	87	Low-use general recreation, adult	7.2	---	---	---	7.2	4.3	126	43	1261	429	12610	115	468
51a	32	Waterfowl hunting	13	---	---	---	13	9.0	75	90	752	904	7518	140	399
52	0.9	Recreational canoeist	10	---	---	---	10	1.2	13	12	129	121	1286	28	73
53	0.7	Recreational canoeist	34	1	100	0.090	28	1.2	13	12	129	121	1286	28	73
54	13	High-use general recreation, adult	7.1	---	---	---	7.1	1.4	63	14	630	143	6305	38	234
55	18	High-use general recreation, young child (low use)	11	---	---	---	11	8.0	37	80	368	802	3684	27	63
55a	5.0	Waterfowl hunting	47	---	---	---	47	9.0	75	90	752	904	7518	140	399
56	32	Medium-use general recreation, adult / older child	38	---	---	---	38	2.1	51	21	514	215	5143	40	176
56a	10	Waterfowl hunting	49	---	---	---	49	9.0	75	90	752	904	7518	140	399
57	13	High-use general recreation, young child (low use)	5.8	---	---	---	5.8	8.0	37	80	368	802	3684	27	63
58	1.3	High-use general recreation, adult	65	1	100	0.080	37	1.4	63	14	630	143	6305	38	234
59	1.9	High-use general recreation, young child (low use)	18	---	---	---	18	8.0	37	80	368	802	3684	27	63
59a	0.83	Bank fishing	22	---	---	---	22	2.6	52	26	524	256	5237	42	180
60	0.84	High-use general recreation, young child (low use)	7.0	---	---	---	7.0	8.0	37	80	368	802	3684	27	63
60a	0.16	Recreational canoeist	13	---	---	---	13	1.2	13	12	129	121	1286	28	73
61	3.3	Utility worker	42	---	---	---	40	17	209	169	2093	1694	20933	242	718
62	1.6	Utility worker	134	---	---	---	24	17	209	169	2093	1694	20933	242	718
63	0.67	Utility worker	23	---	---	---	23	17	209	169	2093	1694	20933	242	718
64	0.61	Utility worker	42	---	---	---	31	17	209	169	2093	1694	20933	242	718
65	3.9	Utility worker	17	---	---	---	16	17	209	169	2093	1694	20933	242	718
66	1.7	Utility worker	23	---	---	---	23	17	209	169	2093	1694	20933	242	718
67	0.31	High-use general recreation, adult	11	---	---	---	11	1.4	63	14	630	143	6305	38	234
68	0.090	High-use general recreation, adult	9.0	---	---	---	9.0	1.4	63	14	630	143	6305	38	234
69	1.9	High-use general recreation, adult	7.3	---	---	---	7.3	1.4	63	14	630	143	6305	38	234
70	19	High-use general recreation, young child (high use)	2.4	---	---	---	2.4	1.3	18	13	184	134	1842	4.6	32
70a	1.2	Bank fishing	3.8	---	---	---	3.8	2.6	52	26	524	256	5237	42	180
71	1.8	Bank fishing	4.6	---	---	---	4.6	2.6	52	26	524	256	5237	42	180
72	2.3	Bank fishing	10	---	---	---	10	2.6	52	26	524	256	5237	42	180
73	3.9	High-use general recreation, adult	0.50	---	---	---	0.50	1.4	63	14	630	143	6305	38	234

Table 6-7. Summary of pre-, post-remediation EPCs, removal volumes and acreages and IMPGs for human direct contact exposure areas under FP 2.

Exposure Area ID ¹	Area of Exposure Area (acre) ²	IMPG Scenario	Pre-Remediation EPC (mg/kg) ³	Removal ⁴			Post-Remediation EPC (mg/kg) ³	IMPG ⁵ (mg/kg)							
				Depth (ft)	Volume (cy)	Area (acre)		Cancer Risk @ 10 ⁻⁶		Cancer Risk @ 10 ⁻⁵		Cancer Risk @ 10 ⁻⁴		Non-Cancer	
								RME	CTE	RME	CTE	RME	CTE	RME	CTE
74	5.3	High-use general recreation, adult	5.3	---	---	---	5.3	1.4	63	14	630	143	6305	38	234
75	3.4	High-use general recreation, adult	15	---	---	---	15	1.4	63	14	630	143	6305	38	234
76	1.1	High-use general recreation, adult	0.79	---	---	---	0.79	1.4	63	14	630	143	6305	38	234
77	4.2	High-use general recreation, adult	0.89	---	---	---	0.89	1.4	63	14	630	143	6305	38	234
78	6.2	High-use general recreation, older child	5.9	---	---	---	5.9	3.9	51	39	514	388	5143	27	176
79	17	High-use general recreation, adult	2.9	---	---	---	2.9	1.4	63	14	630	143	6305	38	234
80a	9.5	Low-use general recreation, adult	2.6	---	---	---	2.6	4.3	126	43	1261	429	12610	115	468
80b	20	Agricultural use (based on direct contact by farmer)	0.76	---	---	---	0.76	1.2	42	12	419	118	4195	43	348
81	33	Low-use general recreation, adult	2.3	---	---	---	2.3	4.3	126	43	1261	429	12610	115	468
82	15	Low-use general recreation, adult	3.6	---	---	---	3.6	4.3	126	43	1261	429	12610	115	468
83	22	High-use commercial (groundskeeper scenario)	1.9	---	---	---	1.9	1.8	17	18	166	177	1664	25	57
84	8.5	Low-use general recreation, adult	4.3	---	---	---	4.3	4.3	126	43	1261	429	12610	115	468
85a	0.25	Recreational canoeist	7.9	---	---	---	7.9	1.2	13	12	129	121	1286	28	73
85b	10	High-use general recreation, older child	1.7	---	---	---	1.7	3.9	51	39	514	388	5143	27	176
86	118	High-use commercial (groundskeeper scenario)	2.5	---	---	---	2.5	1.8	17	18	166	177	1664	25	57
87	10	High-use general recreation, young child (high use)	9.4	1	4000	2.5	4.6	1.3	18	13	184	134	1842	4.6	32
87a	0.88	Bank fishing	6.0	---	---	---	5.4	2.6	52	26	524	256	5237	42	180
88	1.1	Medium-use general recreation, older child	13	---	---	---	13	5.8	51	58	514	582	5143	40	176
89	4.3	High-use general recreation, adult	6.4	---	---	---	6.4	1.4	63	14	630	143	6305	38	234
90	8.9	High-use general recreation, adult / older child	6.8	---	---	---	6.8	1.4	51	14	514	143	5143	27	176
				Subtotal:	17,000	11									
Heavily Used Subareas															
Exposure Area ID ¹	Area of Exposure Area (acre) ²	IMPG Scenario	Pre-Remediation EPC (mg/kg) ³	Removal ⁴			Post-Remediation EPC (mg/kg) ³	IMPG ⁵ (mg/kg)							
				Depth (ft)	Volume (cy)	Area (acre)		Cancer Risk @ 10 ⁻⁶		Cancer Risk @ 10 ⁻⁵		Cancer Risk @ 10 ⁻⁴		Non-Cancer	
								RME	CTE	RME	CTE	RME	CTE	RME	CTE
4	0.71	High-use general recreation, young child (low use)	17	---	---	---	17	8.0	37	80	368	802	3684	27	63
12	1.5	High-use general recreation, young child (low use)	9.8	---	---	---	9.8	8.0	37	80	368	802	3684	27	63
26a	2.2	High-use general recreation, adult / older child	1.9	---	---	---	1.9	1.4	51	14	514	143	5143	27	176
39	0.15	Marathon canoeist	54	---	---	---	54	0.78	5.8	7.8	58	78	575	13	25
40	5.2	High-use general recreation, young child (low use)	19	---	---	---	19	8.0	37	80	368	802	3684	27	63
47	0.18	Recreational canoeist	6.0	---	---	---	6.0	1.2	13	12	129	121	1286	28	73
52	0.25	Recreational canoeist	7.0	---	---	---	7.0	1.2	13	12	129	121	1286	28	73
53	0.35	Recreational canoeist	408	---	---	---	408	1.2	13	12	129	121	1286	28	73
60a	0.16	Recreational canoeist	7.0	---	---	---	7.0	1.2	13	12	129	121	1286	28	73
				Subtotal:	0	0									
				Total:	17,000	11									

Notes:

¹ See Figures 5-1 and 5-2 for direct contact exposure areas in Reaches 5 through 8, and Heavily Used Subareas, respectively.

² Area only includes the portion of the exposure area within the 1 mg/kg PCB isopleth (Reaches 5/6) or the 100-year floodplain (Reaches 7/8).

³ EPC is calculated for top 1-ft floodplain soil, except in Heavily Used Subareas where it is calculated for top 3-ft floodplain soil.

⁴ As stated in Section 5.4.4, the total and subtotal volumes shown are consistent with those described in the text, but due to roundoff for the individual averaging areas, do not always agree with the sum of the individual averaging areas.

⁵ For scenarios containing more than one receptor (e.g. adult and older child), the lowest IMPG was utilized in the comparison to post-remediation EPCs. The lowest IMPG value for which the alternative was designed to achieve is shown in bold.

Key

= post-remediation EPC is lower than the IMPG

Table 6-8. Summary of IMPGs, pre- and post-remediation EPCs, and removal volumes and acreages for agricultural products consumption areas under FP 2.

Farm ID ¹	Area of farm (acre) ²	IMPG Scenario	Pre-Remediation EPC ³ (mg/kg)	Removal ⁴			Post-Remediation EPC ³ (mg/kg)	IMPG ⁵ (mg/kg)									
				Depth (ft)	Volume (cy)	Area (acres)		Cancer Risk @ 10 ⁻⁶		Cancer Risk @ 10 ⁻⁵		Cancer Risk @ 10 ⁻⁴		Non-Cancer (Child)		Non-Cancer (Adult)	
								RME	CTE	RME	CTE	RME	CTE	RME	CTE	RME	CTE
FA 1	8.0	Commercial Dairy	1.6	---	---	---	1.6	0.68	3.1	6.8	31	68	312	7.7	12.2	36.4	44.3
FA 2	3.3		13	---	---	---	13	2.59	11.9	25.9	119	259	1187	29.1	46.4	138.1	168.3
FA 3	4.1		0.20	---	---	---	0.20	0.29	1.3	2.9	13	29	132	3.2	5.2	15.4	18.7
FA 4	64		0.38	---	---	---	0.38	0.24	1.1	2.4	11	24	110	2.7	4.3	12.8	15.6
FA 5	12		0.25	---	---	---	0.25	0.24	1.1	2.4	11	24	110	2.7	4.3	12.8	15.6
FA 6	7.7		0.25	---	---	---	0.25	0.24	1.1	2.4	11	24	110	2.7	4.3	12.8	15.6
FA 7	24		0.25	---	---	---	0.25	0.24	1.1	2.4	11	24	110	2.7	4.3	12.8	15.6
FA 8	9.4		0.19	---	---	---	0.19	0.34	1.5	3.4	15	34	154	3.8	6.0	17.9	21.8
FA 9	26		0.89	---	---	---	0.89	0.31	1.4	3.1	14	31	143	3.5	5.6	16.6	20.3
FA 10	0.31		0.50	---	---	---	0.50	2.06	9.5	20.6	95	206	946	23.2	37.0	110.1	134.2
FA 11	0.14		0.25	---	---	---	0.25	6.10	27.9	61.0	279	610	2794	68.6	109.2	325.1	396.2
FA 12	8.0		0.25	---	---	---	0.25	0.38	1.8	3.8	18	38	176	4.3	6.9	20.5	25.0
FA 13	4.0		0.25	---	---	---	0.25	0.24	1.1	2.4	11	24	110	2.7	4.3	12.8	15.6
FA 14	2.6		0.30	---	---	---	0.30	0.55	2.5	5.5	25	55	253	6.2	9.9	29.4	35.9
Total:				0	0	0											

Notes:

¹ See Figure 5-4 for farm areas in Reaches 5 through 8.

² Farm area only includes the portion within the 1 mg/kg PCB isopleth (Reaches 5/6) or the 100-year floodplain (Reaches 7/8).

³ EPC is calculated for the top 1 ft of floodplain soil.

⁴ As stated in Section 5.4.4, the total and subtotal volumes shown are consistent with those described in the text, but due to roundoff for the individual averaging areas, do not always agree with the sum of the individual averaging areas.

⁵ IMPG values for agricultural products consumption include a multiplier to account for the areas outside the 1 mg/kg PCB isopleth/100-year floodplain (see Table 5-2). The lowest IMPG value for which the alternative was designed to achieve is shown in bold.

Key

= post-remediation EPC is lower than the IMPG

Table 6-9. Summary of IMPGs, pre- and post-remediation EPCs, and removal volumes and acreages for wood frog averaging areas (vernal pools) under FP 2.

Vernal Pool ID ¹	Area of Vernal Pool (acre)	Pre-Remediation EPC ² (mg/kg)	Removal ³			Post-Remediation EPC ² (mg/kg)	IMPG (mg/kg)	
			Depth (ft)	Volume (cy)	Area (acre)		Lower Bound	Upper Bound
5-VP-3	1.9	29	---	---	---	29	3.27	5.6
5-VP-1	0.044	1.7	---	---	---	1.7	3.27	5.6
8-VP-5	0.043	26	---	---	---	26	3.27	5.6
8-VP-4	0.24	3.9	---	---	---	3.9	3.27	5.6
8-VP-3	0.02	7.7	---	---	---	7.7	3.27	5.6
8-VP-2	0.57	66	---	---	---	66	3.27	5.6
18-VP-2	0.61	7.2	---	---	---	7.2	3.27	5.6
18-VP-1	0.28	7.9	---	---	---	7.9	3.27	5.6
19-VP-7	0.068	0.80	---	---	---	0.80	3.27	5.6
19-VP-2	0.0080	34	---	---	---	34	3.27	5.6
19-VP-1	0.18	23	---	---	---	23	3.27	5.6
19-VP-3	0.031	10	---	---	---	10	3.27	5.6
19-VP-4	0.094	5.6	---	---	---	5.6	3.27	5.6
19-VP-8	0.057	91	---	---	---	91	3.27	5.6
19-VP-5	0.51	26	---	---	---	26	3.27	5.6
19-VP-6	1.2	22	---	---	---	22	3.27	5.6
23-VP-2	0.18	46	---	---	---	46	3.27	5.6
23-VP-1	0.30	62	---	---	---	62	3.27	5.6
23A-VP-1	0.45	26	---	---	---	25	3.27	5.6
23B-VP-1	0.068	26	---	---	---	26	3.27	5.6
23B-VP-2	0.091	0.34	---	---	---	0.34	3.27	5.6
27B-VP-2	0.28	11	---	---	---	11	3.27	5.6
27B-VP-3	0.062	16	---	---	---	16	3.27	5.6
27B-VP-1	0.072	12	---	---	---	12	3.27	5.6
27-VP-2	0.47	21	---	---	---	21	3.27	5.6
27A-VP-1	0.20	31	---	---	---	31	3.27	5.6
27-VP-1	1.3	23	---	---	---	23	3.27	5.6
26-VP-1	0.036	40	---	---	---	40	3.27	5.6
33-VP-1	0.022	10	---	---	---	10	3.27	5.6
33-VP-2	0.12	65	---	---	---	65	3.27	5.6
38-VP-1	0.43	34	---	---	---	34	3.27	5.6
38A-VP-1	0.020	5.0	---	---	---	5.0	3.27	5.6
38-VP-3	0.046	28	---	---	---	28	3.27	5.6
38-VP-2	0.17	28	---	---	---	28	3.27	5.6
40-VP-3	0.46	59	---	---	---	59	3.27	5.6
40-VP-2	0.36	17	---	---	---	17	3.27	5.6
40A-VP-1	0.11	68	---	---	---	68	3.27	5.6
40-VP-1	0.47	58	---	---	---	58	3.27	5.6
42-VP-1	0.22	63	---	---	---	63	3.27	5.6
42-VP-2	0.28	45	---	---	---	45	3.27	5.6
42-VP-3	0.050	41	---	---	---	41	3.27	5.6
42-VP-5	0.58	61	---	---	---	61	3.27	5.6
42-VP-4	1.0	33	---	---	---	33	3.27	5.6
42A-VP-1	1.5	31	---	---	---	31	3.27	5.6
46-VP-2	7.1	20	---	---	---	20	3.27	5.6
46-VP-1	0.52	51	---	---	---	51	3.27	5.6
46-VP-5	0.056	123	---	---	---	123	3.27	5.6
46-VP-3	1.4	67	---	---	---	67	3.27	5.6
46-VP-4	0.011	125	---	---	---	125	3.27	5.6
49A-VP-1	0.019	16	---	---	---	16	3.27	5.6
49-VP-1	1.2	18	---	---	---	18	3.27	5.6
49B-VP-1	0.0044	26	---	---	---	26	3.27	5.6
66A-VP-1	0.032	0.70	---	---	---	0.70	3.27	5.6
69-VP-1	0.0074	12	---	---	---	12	3.27	5.6
8-VP-6	0.086	47	---	---	---	47	3.27	5.6
12-VP-1	0.080	8.0	---	---	---	8.0	3.27	5.6
39-VP-1	2.0	32	---	---	---	32	3.27	5.6
54-VP-1	0.20	21	---	---	---	21	3.27	5.6
55-VP-1	0.59	7.7	---	---	---	7.7	3.27	5.6
55A-VP-1	2.0	79	---	---	---	79	3.27	5.6
58A-VP-1	0.32	22	---	---	---	22	3.27	5.6
67A-VP-1	0.12	13	---	---	---	13	3.27	5.6
61A-VP-1	0.19	28	---	---	---	28	3.27	5.6
61A-VP-2	1.2	35	---	---	---	35	3.27	5.6
56A-VP-1	0.58	73	---	---	---	73	3.27	5.6
23-VP-3	1.3	22	---	---	---	22	3.27	5.6
Total				0	0			

Notes:

¹ See Figure 5-5 for locations of vernal pools.

² EPC is calculated for the top 1 ft of floodplain soil.

³ As stated in Section 5.4.4, the total and subtotal volumes shown are consistent with those described in the text, but due to roundoff for the individual averaging areas, do not always agree with the sum of the individual averaging areas.

Key

= post-remediation EPC is lower than the IMPG

Table 6-10. Summary of IMPGs, pre- and post-remediation EPCs, and removal volumes and acreages for shrew averaging areas under FP 2.

Averaging Area ID ¹	Area of Averaging Area (acre)	Pre-Remediation EPC ² (mg/kg)	Removal ³			Post-Remediation EPC ² (mg/kg)	IMPG (mg/kg)	
			Depth (ft)	Volume (cy)	Area (acre)		Lower Bound	Upper Bound
G1	88	22	---	---	---	20	21.1	34.3
G2	87	50	---	---	---	23	21.1	34.3
G3	86	18	---	---	---	18	21.1	34.3
G4	86	27	---	---	---	26	21.1	34.3
G5	88	28	---	---	---	28	21.1	34.3
G6	87	11	---	---	---	11	21.1	34.3
G7	73	17	---	---	---	17	21.1	34.3
Total:			0	0	0			

Notes:

¹ See Figure 5-6 for shrew averaging areas.

² EPC is calculated for the top 1 ft of floodplain soil.

³ As stated in Section 5.4.4, the total and subtotal volumes shown are consistent with those described in the text, but due to roundoff for the individual averaging areas, do not always agree with the sum of the individual averaging areas.

Key


 = post-remediation EPC is lower than the IMPG

Table 6-11. Summary of IMPGs, pre- and post-remediation EPCs, and removal volumes and acreages for wood duck averaging areas under FP 2.

Averaging Area ID ¹	Reach	Averaging Area (acre)	Pre-Remediation EPC ² (mg/kg)	Removal ³			Post-Remediation EPC ² (mg/kg)	Floodplain IMPG (mg/kg)		
				Depth (ft)	Volume (cy)	Area (acre)		Sediment Target Level		
								1 mg/kg	3 mg/kg	5 mg/kg
K1	5A	52	34	---	---	---	31	50	39	29
K2		63	8.1	---	---	---	6.1	50	39	29
K3		85	40	---	---	---	26	50	39	29
K4		60	17	---	---	---	17	50	39	29
K5		25	23	---	---	---	22	50	39	29
K6	5B	55	25	---	---	---	25	48	33	18
K7		47	29	---	---	---	28	48	33	18
K8		92	24	---	---	---	24	48	33	18
K9	5C/5D	69	25	---	---	---	25	53	49	46
K10		83	13	---	---	---	13	53	49	46
K11		61	14	---	---	---	14	53	49	46
K12	6	28	23	---	---	---	23	53	50	46
				Total:	0	0				

Notes:

¹ See Figure 5-7 for wood duck averaging areas.

² EPC is calculated for the top 1 ft of floodplain soil.

³ As stated in Section 5.4.4, the total and subtotal volumes shown are consistent with those described in the text, but due to roundoff for the individual averaging areas, do not always agree with the sum of the individual averaging areas.

Key

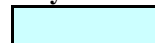
 = post-remediation EPC is lower than the IMPG

Table 6-12. Summary of IMPGs, pre- and post-remediation EPCs, and removal volumes and acreages for mink averaging areas under FP 2.

Averaging Area ¹	Area of Averaging Area (acre)	Pre-Remediation EPC ² (mg/kg)	Removal ³			Post-Remediation EPC ² (mg/kg)	Floodplain IMPG ⁴ (mg/kg)					
			Depth (ft)	Volume (cy)	Area (acre)		Sediment Target Level					
							1 mg/kg		3 mg/kg		5 mg/kg	
							Lower Bound	Upper Bound	Lower Bound	Upper Bound	Lower Bound	Upper Bound
5A/5B	435	22	---	---	---	20	3.4	16.6	n/a	5.1	n/a	n/a
5C/5D/6	291	18	---	---	---	18	6.9	19.6	3.0	16	n/a	11.8
Total:			0	0	0							

Notes:

¹ See Figure 5-8 for mink averaging areas.

² EPC is calculated for the top 1 ft of floodplain soil.

³ As stated in Section 5.4.4, the total and subtotal volumes shown are consistent with those described in the text, but due to roundoff for the individual averaging areas, do not always agree with the sum of the individual averaging areas.

⁴ (n/a) denotes IMPG values not attainable in given reach for the sediment target level.

Key


 = post-remediation EPC is lower than the IMPG

Table 6-13. Summary of IMPGs, pre- and post-remediation EPCs, and removal volumes and acreages for human direct contact exposure areas under FP 3.

Exposure Area ID ¹	Area of Exposure Area (acre) ²	IMPG Scenario	Pre-Remediation EPC (mg/kg) ³	Removal ⁴			Post-Remediation EPC (mg/kg) ³	IMPG ⁵ (mg/kg)							
				Depth (ft)	Volume (cy)	Area (acre)		Cancer Risk @ 10 ⁻⁶		Cancer Risk @ 10 ⁻⁵		Cancer Risk @ 10 ⁻⁴		Non-Cancer	
								RME	CTE	RME	CTE	RME	CTE	RME	CTE
1	15	Medium-use general recreation, adult / older child	36	---	---	---	23	2.1	51	21	514	215	5143	40	176
2	27	High-use general recreation, adult / older child	31	1	1000	0.8	18	1.4	51	14	514	143	5143	27	176
2a	2.3	Low-use general recreation, older child	56	---	---	---	45	12	103	116	1029	1165	10286	80	353
2b	2.0	High-use general recreation, older child	29	1	10	0.01	27	3.9	51	39	514	388	5143	27	176
3	0.4	High-use general recreation, adult	5.6	---	---	---	5.6	1.4	63	14	630	143	6305	38	234
4	3.2	High-use general recreation, young child (low use)	29	1	40	0.03	23	8.0	37	80	368	802	3684	27	63
5	2.5	High-use general recreation, adult / older child	48	1	500	0.3	22	1.4	51	14	514	143	5143	27	176
6	3.8	Low-use general recreation, adult	59	---	---	---	26	4.3	126	43	1261	429	12610	115	468
7	5.9	High-use general recreation, adult / older child	21	---	---	---	21	1.4	51	14	514	143	5143	27	176
8	0.60	Recreational canoeist	40	1	80	0.05	15	1.2	13	12	129	121	1286	28	73
9	0.042	Low-use general recreation, older child	27	---	---	---	27	12	103	116	1029	1165	10286	80	353
10	59	High-use general recreation, young child (high use)	10	1	8000	5.	4.6	1.3	18	13	184	134	1842	4.6	32
10a	8.0	High-use general recreation, young child (high use)	18	1	400	0.2	4.6	1.3	18	13	184	134	1842	4.6	32
11	2.5	High-use general recreation, adult	15	---	---	---	15	1.4	63	14	630	143	6305	38	234
12	4.8	High-use general recreation, young child (low use)	7.0	---	---	---	7.0	8.0	37	80	368	802	3684	27	63
13	5.9	High-use general recreation, adult	14	---	---	---	13	1.4	63	14	630	143	6305	38	234
14	4.1	High-use general recreation, adult	2.7	---	---	---	2.6	1.4	63	14	630	143	6305	38	234
15	0.87	High-use general recreation, adult	2.0	---	---	---	2.0	1.4	63	14	630	143	6305	38	234
16	2.5	High-use general recreation, adult	22	---	---	---	22	1.4	63	14	630	143	6305	38	234
17	8.5	High-use general recreation, adult	13	---	---	---	13	1.4	63	14	630	143	6305	38	234
18	17	Medium-use general recreation, adult	17	---	---	---	17	2.1	63	21	630	215	6305	58	234
19	36	High-use general recreation, adult	83	1	800	0.5	20	1.4	63	14	630	143	6305	38	234
20	9.1	High-use general recreation, adult	31	---	---	---	23	1.4	63	14	630	143	6305	38	234
21	2.9	High-use general recreation, adult / older child	4.9	---	---	---	4.3	1.4	51	14	514	143	5143	27	176
22	19	High-use general recreation, adult / older child	26	---	---	---	23	1.4	51	14	514	143	5143	27	176
22a	1.8	Dirt biking/ATVing	88	1	900	0.6	13	2.0	29	20	290	205	2901	14	99
23	0.28	Medium-use general recreation, older child	12	---	---	---	10	5.8	51	58	514	582	5143	40	176
24	10	High-use general recreation, adult	31	---	---	---	26	1.4	63	14	630	143	6305	38	234
25	0.51	High-use general recreation, older child	30	1	90	0.05	27	3.9	51	39	514	388	5143	27	176
26a	48	High-use general recreation, adult / older child	7.2	---	---	---	7.0	1.4	51	14	514	143	5143	27	176
26b	7.6	Agricultural use (based on direct contact by farmer)	1.7	---	---	---	1.7	1.2	42	12	419	118	4195	43	348
26_F	55	High-use general recreation, adult / older child	6.3	---	---	---	6.2	1.4	51	14	514	143	5143	27	176
27	6.3	High-use general recreation, adult / older child	2.4	---	---	---	2.4	1.4	51	14	514	143	5143	27	176
27a	0.38	Dirt biking/ATVing	4.3	---	---	---	4.3	2.0	29	20	290	205	2901	14	99
28	0.21	High-use general recreation, young child (low use)	21	---	---	---	21	8.0	37	80	368	802	3684	27	63
28a	0.071	Dirt biking/ATVing	21	1	30	0.02	13	2.0	29	20	290	205	2901	14	99
29	0.34	Low-use general recreation, adult / older child	21	---	---	---	21	4.3	103	43	1029	429	10286	80	353
30	0.19	High-use general recreation, adult / older child	13	---	---	---	13	1.4	51	14	514	143	5143	27	176
31	5.0	High-use general recreation, adult / older child	14	---	---	---	13	1.4	51	14	514	143	5143	27	176
31a	0.61	High-use general recreation, adult / older child	42	1	200	0.1	27	1.4	51	14	514	143	5143	27	176
32	6.8	High-use general recreation, adult	14	---	---	---	14	1.4	63	14	630	143	6305	38	234
33	30	High-use general recreation, adult	20	---	---	---	18	1.4	63	14	630	143	6305	38	234
34	7.8	Medium-use general recreation, adult	25	---	---	---	25	2.1	63	21	630	215	6305	58	234
35	25	High-use general recreation, adult / older child	22	---	---	---	21	1.4	51	14	514	143	5143	27	176
35a	1.2	High-use general recreation, adult / older child	39	1	90	0.06	13	1.4	51	14	514	143	5143	27	176
36a	16	Low-use commercial (groundskeeper scenario)	23	---	---	---	23	8.9	166	89	1664	885	16642	126	571
36b	2.2	Agricultural use (based on direct contact by farmer)	15	---	---	---	15	1.2	42	12	419	118	4195	43	348
37	20	High-use general recreation, adult / older child	17	---	---	---	15	1.4	51	14	514	143	5143	27	176
37a	1.4	Bank fishing	26	---	---	---	26	2.6	52	26	524	256	5237	42	180
37b	2.3	High-use general recreation, adult / older child	25	---	---	---	9.8	1.4	51	14	514	143	5143	27	176

Table 6-13. Summary of IMPGs, pre- and post-remediation EPCs, and removal volumes and acreages for human direct contact exposure areas under FP 3.

Exposure Area ID ¹	Area of Exposure Area (acre) ²	IMPG Scenario	Pre-Remediation EPC (mg/kg) ³	Removal ⁴			Post-Remediation EPC (mg/kg) ³	IMPG ⁵ (mg/kg)							
				Depth (ft)	Volume (cy)	Area (acre)		Cancer Risk @ 10 ⁻⁶		Cancer Risk @ 10 ⁻⁵		Cancer Risk @ 10 ⁻⁴		Non-Cancer	
								RME	CTE	RME	CTE	RME	CTE	RME	CTE
38	13	High-use general recreation, adult	23	---	---	---	22	1.4	63	14	630	143	6305	38	234
38a	1.4	Bank fishing	33	---	---	---	33	2.6	52	26	524	256	5237	42	180
39	3.5	Marathon canoeist	32	1	1000	0.9	6.9	0.78	5.8	7.8	58	78	575	13	25
40	98	High-use general recreation, young child (low use)	20	---	---	---	19	8.0	37	80	368	802	3684	27	63
40a	4.6	Bank fishing	40	---	---	---	39	2.6	52	26	524	256	5237	42	180
40b	1.1	High-use general recreation, young child (low use)	11	---	---	---	11	8.0	37	80	368	802	3684	27	63
41	20	Medium-use general recreation, adult	28	---	---	---	25	2.1	63	21	630	215	6305	58	234
41a	2.4	Bank fishing	35	---	---	---	30	2.6	52	26	524	256	5237	42	180
42	14	Medium-use general recreation, adult	12	---	---	---	12	2.1	63	21	630	215	6305	58	234
42a	0.94	Bank fishing	14	---	---	---	14	2.6	52	26	524	256	5237	42	180
43	1.5	Medium-use general recreation, adult	27	---	---	---	27	2.1	63	21	630	215	6305	58	234
43a	0.24	Bank fishing	64	1	10	0.01	42	2.6	52	26	524	256	5237	42	180
44	2.2	High-use general recreation, adult	24	---	---	---	24	1.4	63	14	630	143	6305	38	234
45	17	High-use general recreation, adult	39	1	200	0.1	38	1.4	63	14	630	143	6305	38	234
46	7.2	High-use general recreation, adult	8.2	---	---	---	8.1	1.4	63	14	630	143	6305	38	234
47	1.0	Recreational canoeist	18	1	80	0.05	12	1.2	13	12	129	121	1286	28	73
47_F	0.12	Recreational canoeist	8.1	---	---	---	8.1	1.2	13	12	129	121	1286	28	73
48	6.5	High-use general recreation, adult	3.4	---	---	---	3.4	1.4	63	14	630	143	6305	38	234
49	7.7	Low-use general recreation, adult	17	---	---	---	17	4.3	126	43	1261	429	12610	115	468
50	69	Low-use general recreation, adult	7.3	---	---	---	7.3	4.3	126	43	1261	429	12610	115	468
50a	11	Waterfowl hunting	15	---	---	---	15	9.0	75	90	752	904	7518	140	399
51	87	Low-use general recreation, adult	7.2	---	---	---	7.2	4.3	126	43	1261	429	12610	115	468
51a	32	Waterfowl hunting	13	---	---	---	13	9.0	75	90	752	904	7518	140	399
52	0.9	Recreational canoeist	10	---	---	---	9.6	1.2	13	12	129	121	1286	28	73
53	0.7	Recreational canoeist	34	1	200	0.1	9.1	1.2	13	12	129	121	1286	28	73
54	13	High-use general recreation, adult	7.1	---	---	---	7.0	1.4	63	14	630	143	6305	38	234
55	18	High-use general recreation, young child (low use)	11	---	---	---	11	8.0	37	80	368	802	3684	27	63
55a	5.0	Waterfowl hunting	47	---	---	---	47	9.0	75	90	752	904	7518	140	399
56	32	Medium-use general recreation, adult / older child	38	---	---	---	38	2.1	51	21	514	215	5143	40	176
56a	10	Waterfowl hunting	49	---	---	---	49	9.0	75	90	752	904	7518	140	399
57	13	High-use general recreation, young child (low use)	5.8	---	---	---	5.8	8.0	37	80	368	802	3684	27	63
58	1.3	High-use general recreation, adult	65	1	200	0.1	14	1.4	63	14	630	143	6305	38	234
59	1.9	High-use general recreation, young child (low use)	18	---	---	---	18	8.0	37	80	368	802	3684	27	63
59a	0.83	Bank fishing	22	---	---	---	22	2.6	52	26	524	256	5237	42	180
60	0.84	High-use general recreation, young child (low use)	7.0	---	---	---	7.0	8.0	37	80	368	802	3684	27	63
60a	0.16	Recreational canoeist	13	1	4.	0.0	12	1.2	13	12	129	121	1286	28	73
61	3.3	Utility worker	42	---	---	---	31	17	209	169	2093	1694	20933	242	718
62	1.6	Utility worker	134	---	---	---	23	17	209	169	2093	1694	20933	242	718
63	0.67	Utility worker	23	---	---	---	19	17	209	169	2093	1694	20933	242	718
64	0.61	Utility worker	42	---	---	---	31	17	209	169	2093	1694	20933	242	718
65	3.9	Utility worker	17	---	---	---	16	17	209	169	2093	1694	20933	242	718
66	1.7	Utility worker	23	---	---	---	11	17	209	169	2093	1694	20933	242	718
67	0.31	High-use general recreation, adult	11	---	---	---	11	1.4	63	14	630	143	6305	38	234
68	0.090	High-use general recreation, adult	9.0	---	---	---	9.0	1.4	63	14	630	143	6305	38	234
69	1.9	High-use general recreation, adult	7.3	---	---	---	7.3	1.4	63	14	630	143	6305	38	234
70	19	High-use general recreation, young child (high use)	2.4	---	---	---	2.4	1.3	18	13	184	134	1842	4.6	32
70a	1.2	Bank fishing	3.8	---	---	---	3.8	2.6	52	26	524	256	5237	42	180
71	1.8	Bank fishing	4.6	---	---	---	4.6	2.6	52	26	524	256	5237	42	180
72	2.3	Bank fishing	10	---	---	---	10	2.6	52	26	524	256	5237	42	180
73	3.9	High-use general recreation, adult	0.50	---	---	---	0.50	1.4	63	14	630	143	6305	38	234

Table 6-13. Summary of IMPGs, pre- and post-remediation EPCs, and removal volumes and acreages for human direct contact exposure areas under FP 3.

Exposure Area ID ¹	Area of Exposure Area (acre) ²	IMPG Scenario	Pre-Remediation EPC (mg/kg) ³	Removal ⁴			Post-Remediation EPC (mg/kg) ³	IMPG ⁵ (mg/kg)							
				Depth (ft)	Volume (cy)	Area (acre)		Cancer Risk @ 10 ⁻⁶		Cancer Risk @ 10 ⁻⁵		Cancer Risk @ 10 ⁻⁴		Non-Cancer	
								RME	CTE	RME	CTE	RME	CTE	RME	CTE
74	5.3	High-use general recreation, adult	5.3	---	---	---	5.3	1.4	63	14	630	143	6305	38	234
75	3.4	High-use general recreation, adult	15	---	---	---	15	1.4	63	14	630	143	6305	38	234
76	1.1	High-use general recreation, adult	0.79	---	---	---	0.79	1.4	63	14	630	143	6305	38	234
77	4.2	High-use general recreation, adult	0.89	---	---	---	0.88	1.4	63	14	630	143	6305	38	234
78	6.2	High-use general recreation, older child	5.9	---	---	---	5.9	3.9	51	39	514	388	5143	27	176
79	17	High-use general recreation, adult	2.9	---	---	---	2.9	1.4	63	14	630	143	6305	38	234
80a	9.5	Low-use general recreation, adult	2.6	---	---	---	2.6	4.3	126	43	1261	429	12610	115	468
80b	20	Agricultural use (based on direct contact by farmer)	0.76	---	---	---	0.76	1.2	42	12	419	118	4195	43	348
81	33	Low-use general recreation, adult	2.3	---	---	---	2.3	4.3	126	43	1261	429	12610	115	468
82	15	Low-use general recreation, adult	3.6	---	---	---	3.6	4.3	126	43	1261	429	12610	115	468
83	22	High-use commercial (groundskeeper scenario)	1.9	---	---	---	1.9	1.8	17	18	166	177	1664	25	57
84	8.5	Low-use general recreation, adult	4.3	---	---	---	4.3	4.3	126	43	1261	429	12610	115	468
85a	0.25	Recreational canoeist	7.9	---	---	---	7.9	1.2	13	12	129	121	1286	28	73
85b	10	High-use general recreation, older child	1.7	---	---	---	1.7	3.9	51	39	514	388	5143	27	176
86	118	High-use commercial (groundskeeper scenario)	2.5	---	---	---	2.5	1.8	17	18	166	177	1664	25	57
87	10	High-use general recreation, young child (high use)	9.4	1	4000	3	4.6	1.3	18	13	184	134	1842	4.6	32
87a	0.88	Bank fishing	6.0	---	---	---	5.3	2.6	52	26	524	256	5237	42	180
88	1.1	Medium-use general recreation, older child	13	---	---	---	13	5.8	51	58	514	582	5143	40	176
89	4.3	High-use general recreation, adult	6.4	---	---	---	6.4	1.4	63	14	630	143	6305	38	234
90	8.9	High-use general recreation, adult / older child	6.8	---	---	---	6.8	1.4	51	14	514	143	5143	27	176
				Subtotal:	17,800	12									
Heavily Used Subareas															
Exposure Area ID ¹	Area of Exposure Area (acre) ²	IMPG Scenario	Pre-Remediation EPC (mg/kg) ³	Removal ⁴			Post-Remediation EPC (mg/kg) ³	IMPG ⁵ (mg/kg)							
				Depth (ft)	Volume (cy)	Area (acre)		Cancer Risk @ 10 ⁻⁶		Cancer Risk @ 10 ⁻⁵		Cancer Risk @ 10 ⁻⁴		Non-Cancer	
								RME	CTE	RME	CTE	RME	CTE	RME	CTE
4	0.71	High-use general recreation, young child (low use)	17	3	50	0.010	13	8.0	37	80	368	802	3684	27	63
12	1.5	High-use general recreation, young child (low use)	9.8	---	---	---	9.8	8.0	37	80	368	802	3684	27	63
26a	2.2	High-use general recreation, adult / older child	1.9	---	---	---	1.9	1.4	51	14	514	143	5143	27	176
39	0.15	Marathon canoeist	54	3	400	0.12	7.8	0.78	5.8	7.8	58	78	575	13	25
40	5.2	High-use general recreation, young child (low use)	19	3	300	0.18	18	8.0	37	80	368	802	3684	27	63
47	0.18	Recreational canoeist	6.0	---	---	---	0.84	1.2	13	12	129	121	1286	28	73
52	0.25	Recreational canoeist	7.0	3	400	0.22	1.7	1.2	13	12	129	121	1286	28	73
53	0.35	Recreational canoeist	408	3	100	0.030	8.9	1.2	13	12	129	121	1286	28	73
60a	0.16	Recreational canoeist	7.0	3	10	0.0	7.0	1.2	13	12	129	121	1286	28	73
				Subtotal:	1,200	0.56									
				Total:	19,000	13									

Notes:

¹ See Figures 5-1 and 5-2 for direct contact exposure areas in Reaches 5 through 8, and Heavily Used Subareas, respectively.

² Area only includes the portion of the exposure area within the 1 mg/kg PCB isopleth (Reaches 5/6) or the 100-year floodplain (Reaches 7/8).

³ EPC is calculated for top 1-ft floodplain soil, except in Heavily Used Subareas where it is calculated for top 3-ft floodplain soil.

⁴ As stated in Section 5.4.4, the total and subtotal volumes shown are consistent with those described in the text, but due to roundoff for the individual averaging areas, do not always agree with the sum of the individual averaging areas.

⁵ For scenarios containing more than one receptor (e.g. adult and older child), the lowest IMPG was utilized in the comparison to post-remediation EPCs. The lowest IMPG value for which the alternative was designed to achieve is shown in bold.

Key

= post-remediation EPC is lower than the IMPG

Table 6-14. Summary of IMPGs, pre- and post-remediation EPCs, and removal volumes and acreages for agricultural products consumption areas under FP 3.

Farm ID ¹	Area of farm (acre) ²	IMPG Scenario	Pre-Remediation EPC ³ (mg/kg)	Removal ⁴			Post-Remediation EPC ³ (mg/kg)	IMPG ⁵ (mg/kg)									
				Depth (ft)	Volume (cy)	Area (acres)		Cancer Risk @ 10 ⁻⁶		Cancer Risk @ 10 ⁻⁵		Cancer Risk @ 10 ⁻⁴		Non-Cancer (Child)		Non-Cancer (Adult)	
								RME	CTE	RME	CTE	RME	CTE	RME	CTE	RME	CTE
FA 1	8.0	Commercial Dairy	1.6	---	---	---	1.6	0.68	3.1	6.8	31	68	312	7.7	12.2	36.4	44.3
FA 2	3.3		13	---	---	---	13	2.59	11.9	25.9	119	259	1187	29.1	46.4	138.1	168.3
FA 3	4.1		0.20	---	---	---	0.20	0.29	1.3	2.9	13	29	132	3.2	5.2	15.4	18.7
FA 4	64		0.38	---	---	---	0.38	0.24	1.1	2.4	11	24	110	2.7	4.3	12.8	15.6
FA 5	12		0.25	---	---	---	0.25	0.24	1.1	2.4	11	24	110	2.7	4.3	12.8	15.6
FA 6	7.7		0.25	---	---	---	0.25	0.24	1.1	2.4	11	24	110	2.7	4.3	12.8	15.6
FA 7	24		0.25	---	---	---	0.25	0.24	1.1	2.4	11	24	110	2.7	4.3	12.8	15.6
FA 8	9.4		0.19	---	---	---	0.19	0.34	1.5	3.4	15	34	154	3.8	6.0	17.9	21.8
FA 9	26		0.89	---	---	---	0.89	0.31	1.4	3.1	14	31	143	3.5	5.6	16.6	20.3
FA 10	0.31		0.50	---	---	---	0.50	2.06	9.5	20.6	95	206	946	23.2	37.0	110.1	134.2
FA 11	0.14		0.25	---	---	---	0.25	6.10	27.9	61.0	279	610	2794	68.6	109.2	325.1	396.2
FA 12	8.0		0.25	---	---	---	0.25	0.38	1.8	3.8	18	38	176	4.3	6.9	20.5	25.0
FA 13	4.0		0.25	---	---	---	0.25	0.24	1.1	2.4	11	24	110	2.7	4.3	12.8	15.6
FA 14	2.6		0.30	---	---	---	0.30	0.55	2.5	5.5	25	55	253	6.2	9.9	29.4	35.9
Total:				0	0	0											

Notes:

¹ See Figure 5-4 for farm areas in Reaches 5 through 8.

² Farm area only includes the portion within the 1 mg/kg PCB isopleth (Reaches 5/6) or the 100-year floodplain (Reaches 7/8).

³ EPC is calculated for the top 1 ft of floodplain soil.

⁴ As stated in Section 5.4.4, the total and subtotal volumes shown are consistent with those described in the text, but due to roundoff for the individual averaging areas, do not always agree with the sum of the individual averaging areas.

⁵ IMPG values for agricultural products consumption include a multiplier to account for the areas outside the 1 mg/kg PCB isopleth/100-year floodplain (see Table 5-2). The lowest IMPG value for which the alternative was designed to achieve is shown in bold.

Key

= post-remediation EPC is lower than the IMPG

Table 6-15. Summary of IMPGs, pre- and post-remediation EPCs, and removal volumes and acreages for wood frog averaging areas (vernal pools) under FP 3.

Vernal Pool ID ¹	Area of Vernal Pool (acre)	Pre-Remediation EPC ² (mg/kg)	Removal ³			Post-Remediation EPC ⁴ (mg/kg)	IMPG ⁴ (mg/kg)	
			Depth (ft)	Volume (cy)	Area (acre)		Lower Bound	Upper Bound
5-VP-3	1.9	29	1	2000	1.2	5.6	3.27	5.6
5-VP-1	0.044	1.7	---	---	---	1.7	3.27	5.6
8-VP-5	0.043	26	1	60	0.040	5.6	3.27	5.6
8-VP-4	0.24	3.9	---	---	---	3.9	3.27	5.6
8-VP-3	0.02	7.7	1	40	0.020	0.021	3.27	5.6
8-VP-2	0.57	66	1	700	0.42	5.6	3.27	5.6
18-VP-2	0.61	7.2	1	70	0.040	5.5	3.27	5.6
18-VP-1	0.28	7.9	1	60	0.040	5.1	3.27	5.6
19-VP-7	0.068	0.80	---	---	---	0.80	3.27	5.6
19-VP-2	0.01	34	1	10	0.010	0.021	3.27	5.6
19-VP-1	0.18	23	1	200	0.13	5.5	3.27	5.6
19-VP-3	0.031	10	1	20	0.010	3.6	3.27	5.6
19-VP-4	0.094	5.6	1	4.	0.0	4.2	3.27	5.6
19-VP-8	0.057	91	1	90	0.050	0.021	3.27	5.6
19-VP-5	0.51	26	1	500	0.32	5.6	3.27	5.6
19-VP-6	1.2	22	1	600	0.40	5.6	3.27	5.6
23-VP-2	0.18	46	1	300	0.17	5.6	3.27	5.6
23-VP-1	0.30	62	1	400	0.25	5.5	3.27	5.6
23A-VP-1	0.45	26	1	600	0.38	5.5	3.27	5.6
23B-VP-1	0.068	26	1	50	0.030	5.6	3.27	5.6
23B-VP-2	0.091	0.34	---	---	---	0.34	3.27	5.6
27B-VP-2	0.28	11	1	200	0.13	5.6	3.27	5.6
27B-VP-3	0.062	16	1	60	0.040	5.2	3.27	5.6
27B-VP-1	0.072	12	1	50	0.030	5.6	3.27	5.6
27-VP-2	0.47	21	1	200	0.10	5.6	3.27	5.6
27A-VP-1	0.20	31	1	300	0.16	5.1	3.27	5.6
27-VP-1	1.3	23	1	400	0.24	5.6	3.27	5.6
26-VP-1	0.036	40	1	30	0.020	5.6	3.27	5.6
33-VP-1	0.022	10	1	30	0.020	0.021	3.27	5.6
33-VP-2	0.12	65	1	100	0.080	5.6	3.27	5.6
38-VP-1	0.43	34	1	500	0.31	5.6	3.27	5.6
38A-VP-1	0.020	5.0	---	---	---	5.0	3.27	5.6
38-VP-3	0.046	28	1	40	0.020	5.0	3.27	5.6
38-VP-2	0.17	28	1	200	0.13	5.6	3.27	5.6
40-VP-3	0.46	59	1	600	0.40	5.0	3.27	5.6
40-VP-2	0.36	17	1	200	0.15	5.6	3.27	5.6
40A-VP-1	0.11	68	1	200	0.090	5.6	3.27	5.6
40-VP-1	0.47	58	1	300	0.21	4.2	3.27	5.6
42-VP-1	0.22	63	1	300	0.19	5.1	3.27	5.6
42-VP-2	0.28	45	1	400	0.26	5.6	3.27	5.6
42-VP-3	0.050	41	1	60	0.040	1.9	3.27	5.6
42-VP-5	0.58	61	1	300	0.21	5.6	3.27	5.6
42-VP-4	1.0	33	1	900	0.55	5.6	3.27	5.6
42A-VP-1	1.5	31	1	1000	0.91	5.6	3.27	5.6
46-VP-2	7.1	20	1	1000	0.75	5.6	3.27	5.6
46-VP-1	0.52	51	1	60	0.040	4.2	3.27	5.6
46-VP-5	0.056	123	1	80	0.050	0.021	3.27	5.6
46-VP-3	1.4	67	1	900	0.57	5.6	3.27	5.6
46-VP-4	0.011	125	1	7.	0.0	0.021	3.27	5.6
49A-VP-1	0.019	16	1	30	0.020	0.021	3.27	5.6
49-VP-1	1.2	18	1	600	0.37	5.6	3.27	5.6
49B-VP-1	0.0044	26	1	7.	0.0	0.021	3.27	5.6
66A-VP-1	0.032	0.70	---	---	---	0.70	3.27	5.6
69-VP-1	0.0074	12	1	10	0.010	0.021	3.27	5.6
8-VP-6	0.086	47	1	100	0.080	0.70	3.27	5.6
12-VP-1	0.080	8.0	1	30	0.020	2.5	3.27	5.6
39-VP-1	2.0	32	1	2000	1.2	5.6	3.27	5.6
54-VP-1	0.20	21	1	300	0.17	3.0	3.27	5.6
55-VP-1	0.59	7.7	1	4.	0.0	4.1	3.27	5.6
55A-VP-1	2.0	79	1	2000	1.2	4.9	3.27	5.6
58A-VP-1	0.32	22	1	400	0.25	5.5	3.27	5.6
67A-VP-1	0.12	13	1	10	0.010	3.9	3.27	5.6
61A-VP-1	0.19	28	1	10	0.010	1.5	3.27	5.6
61A-VP-2	1.2	35	1	500	0.29	4.7	3.27	5.6
56A-VP-1	0.58	73	1	900	0.56	0.85	3.27	5.6
23-VP-3	1.3	22	1	1000	0.73	3.0	3.27	5.6
			Total	23,000	14			

Notes:

¹ See Figure 5-5 for locations of vernal pools.

² EPC is calculated for the top 1 ft of floodplain soil.

³ As stated in Section 5.4.4, the total and subtotal volumes shown are consistent with those described in the text, but due to roundoff for the individual averaging areas, do not always agree with the sum of the individual averaging areas.

⁴ The IMPG value for which the alternative was designed to achieve is shown in bold.

Key

= post-remediation EPC is lower than the IMPG

Table 6-16. Summary of IMPGs, pre- and post-remediation EPCs, and removal volumes and acreages for shrew averaging areas under FP 3.

Averaging Area ID ¹	Area of Averaging Area (acre)	Pre-Remediation EPC ² (mg/kg)	Removal ³			Post-Remediation EPC ² (mg/kg)	IMPG ⁴ (mg/kg)	
			Depth (ft)	Volume (cy)	Area (acre)		Lower Bound	Upper Bound
G1	88	22	---	---	---	13	21.1	34.3
G2	87	50	---	---	---	19	21.1	34.3
G3	86	18	---	---	---	17	21.1	34.3
G4	86	27	---	---	---	23	21.1	34.3
G5	88	28	---	---	---	27	21.1	34.3
G6	87	11	---	---	---	11	21.1	34.3
G7	73	17	---	---	---	17	21.1	34.3
Total:			0	0	0			

Notes:

¹ See Figure 5-6 for shrew averaging areas.

² EPC is calculated for the top 1 ft of floodplain soil.

³ As stated in Section 5.4.4, the total and subtotal volumes shown are consistent with those described in the text, but due to roundoff for the individual averaging areas, do not always agree with the sum of the individual averaging areas.

⁴ The IMPG value for which the alternative was designed to achieve is shown in bold.

Key


 = post-remediation EPC is lower than the IMPG

Table 6-17. Summary of IMPGs, pre- and post-remediation EPCs, and removal volumes and acreages for wood duck averaging areas under FP 3.

Averaging Area ID ¹	Reach	Averaging Area (acre)	Pre-Remediation EPC ² (mg/kg)	Removal ³			Post-Remediation EPC ² (mg/kg)	Floodplain IMPG ⁴ (mg/kg)		
				Depth (ft)	Volume (cy)	Area (acre)		Sediment Target Level		
								1 mg/kg	3 mg/kg	5 mg/kg
K1	5A	52	34	---	---	---	20	50	39	29
K2		63	8.1	---	---	---	6.1	50	39	29
K3		85	40	---	---	---	20	50	39	29
K4		60	17	---	---	---	15	50	39	29
K5		25	23	---	---	---	20	50	39	29
K6	5B	55	25	---	---	---	24	48	33	18
K7		47	29	---	---	---	22	48	33	18
K8		92	24	---	---	---	22	48	33	18
K9	5C/5D	69	25	---	---	---	24	53	49	46
K10		83	13	---	---	---	12	53	49	46
K11		61	14	---	---	---	14	53	49	46
K12	6	28	23	---	---	---	23	53	50	46
				Total:	0	0				

Notes:

¹ See Figure 5-7 for wood duck averaging areas.

² EPC is calculated for the top 1 ft of floodplain soil.

³ As stated in Section 5.4.4, the total and subtotal volumes shown are consistent with those described in the text, but due to roundoff for the individual averaging areas, do not always agree with the sum of the individual averaging areas.

⁴ The IMPG value for which the alternative was designed to achieve is shown in bold.

Key


 = post-remediation EPC is lower than the IMPG

Table 6-18. Summary of IMPGs, pre- and post-remediation EPCs, and removal volumes and acreages for mink averaging areas under FP 3.

Averaging Area ¹	Area of Averaging Area (acre)	Pre-Remediation EPC ² (mg/kg)	Removal ³			Post-Remediation EPC ² (mg/kg)	Floodplain IMPG ⁴ (mg/kg)					
			Depth (ft)	Volume (cy)	Area (acre)		Sediment Target Level					
							1 mg/kg		3 mg/kg		5 mg/kg	
							Lower Bound	Upper Bound	Lower Bound	Upper Bound	Lower Bound	Upper Bound
5A/5B	435	22	1	18000	11	16.6	3.4	16.6	n/a	5.1	n/a	n/a
5C/5D/6	291	18	---	---	---	17	6.9	19.6	3.0	16	n/a	11.8
Total:				18,000	11							

Notes:

¹ See Figure 5-8 for mink averaging areas.

² EPC is calculated for the top 1 ft of floodplain soil.

³ As stated in Section 5.4.4, the total and subtotal volumes shown are consistent with those described in the text, but due to roundoff for the individual averaging areas, do not always agree with the sum of the individual averaging areas.

⁴ (n/a) denotes IMPG values not attainable in given reach for the sediment target level. The IMPG value for which the alternative was designed to achieve is shown in bold.

Key


 = post-remediation EPC is lower than the IMPG

Table 6-19. Summary of IMPGs, pre- and post-remediation EPCs, and removal volumes and acreages for human direct contact exposure areas under FP 4.

Exposure Area ID ¹	Area of Exposure Area (acre) ²	IMPG Scenario	Pre-Remediation EPC (mg/kg) ³	Removal ⁴			Post-Remediation EPC (mg/kg) ³	IMPG ⁵ (mg/kg)							
				Depth (ft)	Volume (cy)	Area (acre)		Cancer Risk @ 10 ⁻⁶		Cancer Risk @ 10 ⁻⁵		Cancer Risk @ 10 ⁻⁴		Non-Cancer	
								RME	CTE	RME	CTE	RME	CTE	RME	CTE
1	15	Medium-use general recreation, adult / older child	36	1	3000	1.9	21	2.1	51	21	514	215	5143	40	176
2	27	High-use general recreation, adult / older child	31	1	9000	5.5	14	1.4	51	14	514	143	5143	27	176
2a	2.3	Low-use general recreation, older child	56	---	---	---	23	12	103	116	1029	1165	10286	80	353
2b	2.0	High-use general recreation, older child	29	1	10	0.010	27	3.9	51	39	514	388	5143	27	176
3	0.4	High-use general recreation, adult	5.6	---	---	---	5.6	1.4	63	14	630	143	6305	38	234
4	3.2	High-use general recreation, young child (low use)	29	1	40	0.020	11	8.0	37	80	368	802	3684	27	63
5	2.5	High-use general recreation, adult / older child	48	1	600	0.36	14	1.4	51	14	514	143	5143	27	176
6	3.8	Low-use general recreation, adult	59	1	500	0.33	43	4.3	126	43	1261	429	12610	115	468
7	5.9	High-use general recreation, adult / older child	21	1	900	0.55	14	1.4	51	14	514	143	5143	27	176
8	0.60	Recreational canoeist	40	1	200	0.10	11	1.2	13	12	129	121	1286	28	73
9	0.042	Low-use general recreation, older child	27	---	---	---	27	12	103	116	1029	1165	10286	80	353
10	59	High-use general recreation, young child (high use)	10	1	8000	4.8	4.5	1.3	18	13	184	134	1842	4.6	32
10a	8.0	High-use general recreation, young child (high use)	18	1	400	0.23	4.6	1.3	18	13	184	134	1842	4.6	32
11	2.5	High-use general recreation, adult	15	1	60	0.040	14	1.4	63	14	630	143	6305	38	234
12	4.8	High-use general recreation, young child (low use)	7.0	---	---	---	4.4	8.0	37	80	368	802	3684	27	63
13	5.9	High-use general recreation, adult	14	---	---	---	13	1.4	63	14	630	143	6305	38	234
14	4.1	High-use general recreation, adult	2.7	---	---	---	2.6	1.4	63	14	630	143	6305	38	234
15	0.87	High-use general recreation, adult	2.0	---	---	---	2.0	1.4	63	14	630	143	6305	38	234
16	2.5	High-use general recreation, adult	22	1	600	0.39	14	1.4	63	14	630	143	6305	38	234
17	8.5	High-use general recreation, adult	13	---	---	---	13	1.4	63	14	630	143	6305	38	234
18	17	Medium-use general recreation, adult	17	---	---	---	17	2.1	63	21	630	215	6305	58	234
19	36	High-use general recreation, adult	83	1	8000	5.0	14	1.4	63	14	630	143	6305	38	234
20	9.1	High-use general recreation, adult	31	1	3000	2.1	14	1.4	63	14	630	143	6305	38	234
21	2.9	High-use general recreation, adult / older child	4.9	---	---	---	4.9	1.4	51	14	514	143	5143	27	176
22	19	High-use general recreation, adult / older child	26	1	5000	3.1	14	1.4	51	14	514	143	5143	27	176
22a	1.8	Dirt biking/ATVing	88	1	900	0.56	14	2.0	29	20	290	205	2901	14	99
23	0.28	Medium-use general recreation, older child	12	---	---	---	12	5.8	51	58	514	582	5143	40	176
24	10	High-use general recreation, adult	31	1	4000	2.5	13	1.4	63	14	630	143	6305	38	234
25	0.51	High-use general recreation, older child	30	1	90	0.050	27	3.9	51	39	514	388	5143	27	176
26a	48	High-use general recreation, adult / older child	7.2	---	---	---	7.0	1.4	51	14	514	143	5143	27	176
26b	7.6	Agricultural use (based on direct contact by farmer)	1.7	---	---	---	1.7	1.2	42	12	419	118	4195	43	348
26_F	55	High-use general recreation, adult / older child	6.3	---	---	---	6.2	1.4	51	14	514	143	5143	27	176
27	6.3	High-use general recreation, adult / older child	2.4	---	---	---	2.4	1.4	51	14	514	143	5143	27	176
27a	0.38	Dirt biking/ATVing	4.3	---	---	---	4.3	2.0	29	20	290	205	2901	14	99
28	0.21	High-use general recreation, young child (low use)	21	---	---	---	21	8.0	37	80	368	802	3684	27	63
28a	0.071	Dirt biking/ATVing	21	1	30	0.020	13	2.0	29	20	290	205	2901	14	99
29	0.34	Low-use general recreation, adult / older child	21	---	---	---	21	4.3	103	43	1029	429	10286	80	353
30	0.19	High-use general recreation, adult / older child	13	---	---	---	13	1.4	51	14	514	143	5143	27	176
31	5.0	High-use general recreation, adult / older child	14	---	---	---	13	1.4	51	14	514	143	5143	27	176
31a	0.61	High-use general recreation, adult / older child	42	1	300	0.20	13	1.4	51	14	514	143	5143	27	176
32	6.8	High-use general recreation, adult	14	1	2000	0.99	14	1.4	63	14	630	143	6305	38	234
33	30	High-use general recreation, adult	20	1	3000	2.0	14	1.4	63	14	630	143	6305	38	234
34	7.8	Medium-use general recreation, adult	25	1	500	0.32	21	2.1	63	21	630	215	6305	58	234
35	25	High-use general recreation, adult / older child	22	1	5000	3.1	14	1.4	51	14	514	143	5143	27	176
35a	1.2	High-use general recreation, adult / older child	39	1	90	0.060	3.4	1.4	51	14	514	143	5143	27	176
36a	16	Low-use commercial (groundskeeper scenario)	23	---	---	---	23	8.9	166	89	1664	885	16642	126	571
36b	2.2	Agricultural use (based on direct contact by farmer)	15	1	40	0.020	12	1.2	42	12	419	118	4195	43	348
37	20	High-use general recreation, adult / older child	17	1	2000	1.0	13	1.4	51	14	514	143	5143	27	176
37a	1.4	Bank fishing	26	1	4.	0.0	20	2.6	52	26	524	256	5237	42	180
37b	2.3	High-use general recreation, adult / older child	25	1	100	0.070	6.0	1.4	51	14	514	143	5143	27	176

Table 6-19. Summary of IMPGs, pre- and post-remediation EPCs, and removal volumes and acreages for human direct contact exposure areas under FP 4.

Exposure Area ID ¹	Area of Exposure Area (acre) ²	IMPG Scenario	Pre-Remediation EPC (mg/kg) ³	Removal ⁴			Post-Remediation EPC (mg/kg) ³	IMPG ⁵ (mg/kg)							
				Depth (ft)	Volume (cy)	Area (acre)		Cancer Risk @ 10 ⁻⁶		Cancer Risk @ 10 ⁻⁵		Cancer Risk @ 10 ⁻⁴		Non-Cancer	
								RME	CTE	RME	CTE	RME	CTE	RME	CTE
38	13	High-use general recreation, adult	23	1	2000	1.4	14	1.4	63	14	630	143	6305	38	234
38a	1.4	Bank fishing	33	1	200	0.14	15	2.6	52	26	524	256	5237	42	180
39	3.5	Marathon canoeist	32	1	1000	0.91	7.2	0.78	5.8	7.8	58	78	575	13	25
40	98	High-use general recreation, young child (low use)	20	---	---	---	18	8.0	37	80	368	802	3684	27	63
40a	4.6	Bank fishing	40	1	500	0.30	25	2.6	52	26	524	256	5237	42	180
40b	1.1	High-use general recreation, young child (low use)	11	---	---	---	11	8.0	37	80	368	802	3684	27	63
41	20	Medium-use general recreation, adult	28	1	2000	1.5	21	2.1	63	21	630	215	6305	58	234
41a	2.4	Bank fishing	35	1	300	0.21	25	2.6	52	26	524	256	5237	42	180
42	14	Medium-use general recreation, adult	12	---	---	---	12	2.1	63	21	630	215	6305	58	234
42a	0.94	Bank fishing	14	---	---	---	14	2.6	52	26	524	256	5237	42	180
43	1.5	Medium-use general recreation, adult	27	1	30	0.020	21	2.1	63	21	630	215	6305	58	234
43a	0.24	Bank fishing	64	1	10	0.010	21	2.6	52	26	524	256	5237	42	180
44	2.2	High-use general recreation, adult	24	1	700	0.46	11	1.4	63	14	630	143	6305	38	234
45	17	High-use general recreation, adult	39	1	5000	3.3	14	1.4	63	14	630	143	6305	38	234
46	7.2	High-use general recreation, adult	8.2	---	---	---	8.1	1.4	63	14	630	143	6305	38	234
47	1.0	Recreational canoeist	18	1	80	0.050	12	1.2	13	12	129	121	1286	28	73
47_F	0.12	Recreational canoeist	8.1	---	---	---	8.1	1.2	13	12	129	121	1286	28	73
48	6.5	High-use general recreation, adult	3.4	---	---	---	3.4	1.4	63	14	630	143	6305	38	234
49	7.7	Low-use general recreation, adult	17	---	---	---	17	4.3	126	43	1261	429	12610	115	468
50	69	Low-use general recreation, adult	7.3	---	---	---	7.3	4.3	126	43	1261	429	12610	115	468
50a	11	Waterfowl hunting	15	---	---	---	15	9.0	75	90	752	904	7518	140	399
51	87	Low-use general recreation, adult	7.2	---	---	---	7.2	4.3	126	43	1261	429	12610	115	468
51a	32	Waterfowl hunting	13	---	---	---	13	9.0	75	90	752	904	7518	140	399
52	0.9	Recreational canoeist	10	---	---	---	9.6	1.2	13	12	129	121	1286	28	73
53	0.7	Recreational canoeist	34	1	200	0.10	9.3	1.2	13	12	129	121	1286	28	73
54	13	High-use general recreation, adult	7.1	---	---	---	7.0	1.4	63	14	630	143	6305	38	234
55	18	High-use general recreation, young child (low use)	11	---	---	---	11	8.0	37	80	368	802	3684	27	63
55a	5.0	Waterfowl hunting	47	---	---	---	47	9.0	75	90	752	904	7518	140	399
56	32	Medium-use general recreation, adult / older child	38	1	1000	0.77	21	2.1	51	21	514	215	5143	40	176
56a	10	Waterfowl hunting	49	---	---	---	36	9.0	75	90	752	904	7518	140	399
57	13	High-use general recreation, young child (low use)	5.8	---	---	---	5.8	8.0	37	80	368	802	3684	27	63
58	1.3	High-use general recreation, adult	65	1	200	0.10	14	1.4	63	14	630	143	6305	38	234
59	1.9	High-use general recreation, young child (low use)	18	---	---	---	18	8.0	37	80	368	802	3684	27	63
59a	0.83	Bank fishing	22	---	---	---	22	2.6	52	26	524	256	5237	42	180
60	0.84	High-use general recreation, young child (low use)	7.0	---	---	---	7.0	8.0	37	80	368	802	3684	27	63
60a	0.16	Recreational canoeist	13	1	7.	0.0	12	1.2	13	12	129	121	1286	28	73
61	3.3	Utility worker	42	---	---	---	20	17	209	169	2093	1694	20933	242	718
62	1.6	Utility worker	134	---	---	---	12	17	209	169	2093	1694	20933	242	718
63	0.67	Utility worker	23	---	---	---	10	17	209	169	2093	1694	20933	242	718
64	0.61	Utility worker	42	---	---	---	13	17	209	169	2093	1694	20933	242	718
65	3.9	Utility worker	17	---	---	---	16	17	209	169	2093	1694	20933	242	718
66	1.7	Utility worker	23	---	---	---	9.4	17	209	169	2093	1694	20933	242	718
67	0.31	High-use general recreation, adult	11	---	---	---	11	1.4	63	14	630	143	6305	38	234
68	0.090	High-use general recreation, adult	9.0	---	---	---	9.0	1.4	63	14	630	143	6305	38	234
69	1.9	High-use general recreation, adult	7.3	---	---	---	7.3	1.4	63	14	630	143	6305	38	234
70	19	High-use general recreation, young child (high use)	2.4	---	---	---	2.4	1.3	18	13	184	134	1842	4.6	32
70a	1.2	Bank fishing	3.8	---	---	---	3.8	2.6	52	26	524	256	5237	42	180
71	1.8	Bank fishing	4.6	---	---	---	4.6	2.6	52	26	524	256	5237	42	180
72	2.3	Bank fishing	10	---	---	---	10	2.6	52	26	524	256	5237	42	180
73	3.9	High-use general recreation, adult	0.50	---	---	---	0.50	1.4	63	14	630	143	6305	38	234

Table 6-19. Summary of IMPGs, pre- and post-remediation EPCs, and removal volumes and acreages for human direct contact exposure areas under FP 4.

Exposure Area ID ¹	Area of Exposure Area (acre) ²	IMPG Scenario	Pre-Remediation EPC (mg/kg) ³	Removal ⁴			Post-Remediation EPC (mg/kg) ³	IMPG ⁵ (mg/kg)							
				Depth (ft)	Volume (cy)	Area (acre)		Cancer Risk @ 10 ⁻⁶		Cancer Risk @ 10 ⁻⁵		Cancer Risk @ 10 ⁻⁴		Non-Cancer	
								RME	CTE	RME	CTE	RME	CTE	RME	CTE
74	5.3	High-use general recreation, adult	5.3	---	---	---	5.3	1.4	63	14	630	143	6305	38	234
75	3.4	High-use general recreation, adult	15	1	200	0.15	14	1.4	63	14	630	143	6305	38	234
76	1.1	High-use general recreation, adult	0.79	---	---	---	0.79	1.4	63	14	630	143	6305	38	234
77	4.2	High-use general recreation, adult	0.89	---	---	---	0.89	1.4	63	14	630	143	6305	38	234
78	6.2	High-use general recreation, older child	5.9	---	---	---	5.9	3.9	51	39	514	388	5143	27	176
79	17	High-use general recreation, adult	2.9	---	---	---	2.9	1.4	63	14	630	143	6305	38	234
80a	9.5	Low-use general recreation, adult	2.6	---	---	---	2.6	4.3	126	43	1261	429	12610	115	468
80b	20	Agricultural use (based on direct contact by farmer)	0.76	---	---	---	0.76	1.2	42	12	419	118	4195	43	348
81	33	Low-use general recreation, adult	2.3	---	---	---	2.3	4.3	126	43	1261	429	12610	115	468
82	15	Low-use general recreation, adult	3.6	---	---	---	3.6	4.3	126	43	1261	429	12610	115	468
83	22	High-use commercial (groundskeeper scenario)	1.9	---	---	---	1.9	1.8	17	18	166	177	1664	25	57
84	8.5	Low-use general recreation, adult	4.3	---	---	---	4.3	4.3	126	43	1261	429	12610	115	468
85a	0.25	Recreational canoeist	7.9	---	---	---	7.9	1.2	13	12	129	121	1286	28	73
85b	10	High-use general recreation, older child	1.7	---	---	---	1.7	3.9	51	39	514	388	5143	27	176
86	118	High-use commercial (groundskeeper scenario)	2.5	---	---	---	2.5	1.8	17	18	166	177	1664	25	57
87	10	High-use general recreation, young child (high use)	9.4	1	4000	2.5	4.6	1.3	18	13	184	134	1842	4.6	32
87a	0.88	Bank fishing	6.0	---	---	---	5.4	2.6	52	26	524	256	5237	42	180
88	1.1	Medium-use general recreation, older child	13	---	---	---	13	5.8	51	58	514	582	5143	40	176
89	4.3	High-use general recreation, adult	6.4	---	---	---	6.4	1.4	63	14	630	143	6305	38	234
90	8.9	High-use general recreation, adult / older child	6.8	---	---	---	6.8	1.4	51	14	514	143	5143	27	176
				Subtotal:	75,900	47									
Heavily Used Subareas															
Exposure Area ID ¹	Area of Exposure Area (acre) ²	IMPG Scenario	Pre-Remediation EPC (mg/kg) ³	Removal ⁴			Post-Remediation EPC (mg/kg) ³	IMPG ⁵ (mg/kg)							
				Depth (ft)	Volume (cy)	Area (acre)		Cancer Risk @ 10 ⁻⁶		Cancer Risk @ 10 ⁻⁵		Cancer Risk @ 10 ⁻⁴		Non-Cancer	
								RME	CTE	RME	CTE	RME	CTE	RME	CTE
4	0.71	High-use general recreation, young child (low use)	17	3	200	0.090	17	8.0	37	80	368	802	3684	27	63
12	1.5	High-use general recreation, young child (low use)	9.8	---	---	---	9.7	8.0	37	80	368	802	3684	27	63
26a	2.2	High-use general recreation, adult / older child	1.9	---	---	---	1.9	1.4	51	14	514	143	5143	27	176
39	0.15	Marathon canoeist	54	3	400	0.12	7.8	0.78	5.8	7.8	58	78	575	13	25
40	5.2	High-use general recreation, young child (low use)	19	3	300	0.18	18	8.0	37	80	368	802	3684	27	63
47	0.18	Recreational canoeist	6.0	---	---	---	0.72	1.2	13	12	129	121	1286	28	73
52	0.25	Recreational canoeist	7.0	3	400	0.22	1.7	1.2	13	12	129	121	1286	28	73
53	0.35	Recreational canoeist	408	3	100	0.030	9.0	1.2	13	12	129	121	1286	28	73
60a	0.16	Recreational canoeist	7.0	---	---	---	6.9	1.2	13	12	129	121	1286	28	73
				Subtotal:	1,400	0.64									
				Total:	77,000	48									

Notes:

¹ See Figures 5-1 and 5-2 for direct contact exposure areas in Reaches 5 through 8, and Heavily Used Subareas, respectively.

² Area only includes the portion of the exposure area within the 1 mg/kg PCB isopleth (Reaches 5/6) or the 100-year floodplain (Reaches 7/8).

³ EPC is calculated for top 1-ft floodplain soil, except in Heavily Used Subareas where it is calculated for top 3-ft floodplain soil.

⁴ As stated in Section 5.4.4, the total and subtotal volumes shown are consistent with those described in the text, but due to roundoff for the individual averaging areas, do not always agree with the sum of the individual averaging areas.

⁵ For scenarios containing more than one receptor (e.g. adult and older child), the lowest IMPG was utilized in the comparison to post-remediation EPCs. The lowest IMPG value for which the alternative was designed to achieve is shown in bold.

Key

= post-remediation EPC is lower than the IMPG

Table 6-20. Summary of IMPGs, pre- and post-remediation EPCs, and removal volumes and acreages for agricultural products consumption areas under FP 4.

Farm ID ¹	Area of farm (acre) ²	IMPG Scenario	Pre-Remediation EPC ³ (mg/kg)	Removal ⁴			Post-Remediation EPC ³ (mg/kg)	IMPG ⁵ (mg/kg)									
				Depth (ft)	Volume (cy)	Area (acres)		Cancer Risk @ 10 ⁻⁶		Cancer Risk @ 10 ⁻⁵		Cancer Risk @ 10 ⁻⁴		Non-Cancer (Child)		Non-Cancer (Adult)	
								RME	CTE	RME	CTE	RME	CTE	RME	CTE	RME	CTE
FA 1	8.0	Commercial Dairy	1.6	---	---	---	1.6	0.68	3.1	6.8	31	68	312	7.7	12.2	36.4	44.3
FA 2	3.3		13	---	---	---	12	2.59	11.9	25.9	119	259	1187	29.1	46.4	138.1	168.3
FA 3	4.1		0.20	---	---	---	0.20	0.29	1.3	2.9	13	29	132	3.2	5.2	15.4	18.7
FA 4	64		0.38	---	---	---	0.38	0.24	1.1	2.4	11	24	110	2.7	4.3	12.8	15.6
FA 5	12		0.25	---	---	---	0.25	0.24	1.1	2.4	11	24	110	2.7	4.3	12.8	15.6
FA 6	8		0.25	---	---	---	0.25	0.24	1.1	2.4	11	24	110	2.7	4.3	12.8	15.6
FA 7	24		0.25	---	---	---	0.25	0.24	1.1	2.4	11	24	110	2.7	4.3	12.8	15.6
FA 8	9.4		0.19	---	---	---	0.19	0.34	1.5	3.4	15	34	154	3.8	6.0	17.9	21.8
FA 9	26		0.89	---	---	---	0.89	0.31	1.4	3.1	14	31	143	3.5	5.6	16.6	20.3
FA 10	0.3		0.50	---	---	---	0.50	2.06	9.5	20.6	95	206	946	23.2	37.0	110.1	134.2
FA 11	0.14		0.25	---	---	---	0.25	6.10	27.9	61.0	279	610	2794	68.6	109.2	325.1	396.2
FA 12	8.0		0.25	---	---	---	0.25	0.38	1.8	3.8	18	38	176	4.3	6.9	20.5	25.0
FA 13	4.0		0.25	---	---	---	0.25	0.24	1.1	2.4	11	24	110	2.7	4.3	12.8	15.6
FA 14	2.6		0.30	---	---	---	0.30	0.55	2.5	5.5	25	55	253	6.2	9.9	29.4	35.9
Total:				0	0	0											

Notes:

¹ See Figure 5-4 for farm areas in Reaches 5 through 8.

² Farm area only includes the portion within the 1 mg/kg PCB isopleth (Reaches 5/6) or the 100-year floodplain (Reaches 7/8).

³ EPC is calculated for the top 1 ft of floodplain soil.

⁴ As stated in Section 5.4.4, the total and subtotal volumes shown are consistent with those described in the text, but due to roundoff for the individual averaging areas, do not always agree with the sum of the individual averaging areas.

⁵ IMPG values for agricultural products consumption include a multiplier to account for the areas outside the 1 mg/kg PCB isopleth/100-year floodplain (see Table 5-2). The lowest IMPG value for which the alternative was designed to achieve is shown in bold.

Key

= post-remediation EPC is lower than the IMPG

Table 6-21. Summary of IMPGs, pre- and post-remediation EPCs, and removal volumes and acreages for wood frog averaging areas (vernal pools) under FP 4.

Vernal Pool ID ¹	Area of Vernal Pool (acre)	Pre-Remediation EPC ² (mg/kg)	Removal ³			Post-Remediation EPC ² (mg/kg)	IMPG ⁴ (mg/kg)	
			Depth (ft)	Volume (cy)	Area (acre)		Lower Bound	Upper Bound
5-VP-3	1.9	29	1	2000	1.2	5.6	3.27	5.6
5-VP-1	0.044	1.7	---	---	---	1.7	3.27	5.6
8-VP-5	0.043	26	1	60	0.040	5.6	3.27	5.6
8-VP-4	0.24	3.9	---	---	---	3.9	3.27	5.6
8-VP-3	0.02	7.7	1	40	0.020	0.021	3.27	5.6
8-VP-2	0.57	66	1	700	0.42	5.6	3.27	5.6
18-VP-2	0.61	7.2	1	70	0.040	5.6	3.27	5.6
18-VP-1	0.28	7.9	1	60	0.040	5.0	3.27	5.6
19-VP-7	0.068	0.80	---	---	---	0.80	3.27	5.6
19-VP-2	0.0080	34	1	10	0.010	0.021	3.27	5.6
19-VP-1	0.18	23	1	200	0.13	5.5	3.27	5.6
19-VP-3	0.031	10	1	20	0.010	3.6	3.27	5.6
19-VP-4	0.094	5.6	1	4.	0.0	4.2	3.27	5.6
19-VP-8	0.057	91	---	---	---	0.021	3.27	5.6
19-VP-5	0.51	26	1	500	0.31	5.6	3.27	5.6
19-VP-6	1.2	22	1	500	0.29	5.6	3.27	5.6
23-VP-2	0.18	46	1	200	0.14	5.6	3.27	5.6
23-VP-1	0.30	62	1	200	0.11	5.6	3.27	5.6
23A-VP-1	0.45	26	1	600	0.38	5.5	3.27	5.6
23A-VP-1	0.068	26	1	600	0.38	5.6	3.27	5.6
23B-VP-2	0.091	0.34	---	---	---	0.34	3.27	5.6
27B-VP-2	0.28	11	1	200	0.15	5.5	3.27	5.6
27B-VP-3	0.062	16	1	60	0.040	5.2	3.27	5.6
27B-VP-1	0.072	12	1	60	0.040	5.3	3.27	5.6
27-VP-2	0.47	21	1	200	0.10	5.6	3.27	5.6
27A-VP-1	0.20	31	1	300	0.16	5.1	3.27	5.6
27-VP-1	1.3	23	1	400	0.24	5.5	3.27	5.6
26-VP-1	0.036		1	30	0.020	5.6	3.27	5.6
33-VP-1	0.022	10	1	30	0.020	0.021	3.27	5.6
33-VP-2	0.12	65	1	60	0.040	5.6	3.27	5.6
38-VP-1	0.43	34	1	500	0.28	5.6	3.27	5.6
38A-VP-1	0.020	5.0	---	---	---	5.0	3.27	5.6
38-VP-3	0.046	28	1	40	0.020	5.0	3.27	5.6
38-VP-2	0.17	28	1	200	0.13	5.6	3.27	5.6
40-VP-3	0.46	59	1	600	0.40	5.0	3.27	5.6
40-VP-2	0.36	17	1	200	0.15	5.6	3.27	5.6
40A-VP-1	0.11	68	1	200	0.090	5.6	3.27	5.6
40-VP-1	0.47	58	1	300	0.21	5.6	3.27	5.6
42-VP-1	0.22	63	1	300	0.19	5.1	3.27	5.6
42-VP-2	0.28	45	1	400	0.26	5.6	3.27	5.6
42-VP-3	0.050	41	1	60	0.040	1.9	3.27	5.6
42-VP-5	0.58	61	1	300	0.21	5.4	3.27	5.6
42-VP-4	1.0	33	1	900	0.55	5.6	3.27	5.6
42A-VP-1	1.5	31	1	1000	0.91	5.6	3.27	5.6
46-VP-2	7.1	20	1	1000	0.75	5.6	3.27	5.6
46-VP-1	0.52	51	1	60	0.040	4.2	3.27	5.6
46-VP-5	0.056	123	1	80	0.050	0.021	3.27	5.6
46-VP-3	1.4	67	1	900	0.57	5.6	3.27	5.6
46-VP-4	0.011	125	1	7.	0.0	0.021	3.27	5.6
49A-VP-1	0.019	16	1	30	0.020	0.021	3.27	5.6
49-VP-1	1.2	18	1	600	0.37	5.5	3.27	5.6
49B-VP-1	0.0044	26	1	7.	0.0	0.021	3.27	5.6
66A-VP-1	0.032	0.70	---	---	---	0.70	3.27	5.6
69-VP-1	0.0074	12	1	10	0.010	0.021	3.27	5.6
8-VP-6	0.086	47	1	100	0.080	0.70	3.27	5.6
12-VP-1	0.080	8.0	1	30	0.020	2.5	3.27	5.6
39-VP-1	2.0	32	1	2000	1.2	5.6	3.27	5.6
54-VP-1	0.20	21	1	300	0.17	3.0	3.27	5.6
55-VP-1	0.59	7.7	1	4.	0.0	4.0	3.27	5.6
55A-VP-1	2.0	79	1	2000	1.2	4.9	3.27	5.6
58A-VP-1	0.32	22	1	400	0.25	5.5	3.27	5.6
67A-VP-1	0.12	13	1	10	0.010	3.9	3.27	5.6
61A-VP-1	0.19	28	1	10	0.010	1.5	3.27	5.6
61A-VP-2	1.2	35	1	500	0.29	4.7	3.27	5.6
56A-VP-1	0.58	73	1	900	0.56	0.85	3.27	5.6
23-VP-3	1.3	22	1	1000	0.73	3.0	3.27	5.6
Total:				22,000	14			

Notes:

¹ See Figure 5-5 for locations of vernal pools.

² EPC is calculated for the top 1 ft of floodplain soil.

³ As stated in Section 5.4.4, the total and subtotal volumes shown are consistent with those described in the text, but due to roundoff for the individual averaging areas, do not always agree with the sum of the individual averaging areas.

⁴ The IMPG value for which the alternative was designed to achieve is shown in bold.

Key

= post-remediation EPC is lower than the IMPG

Table 6-22. Summary of IMPGs, pre- and post-remediation EPCs, and removal volumes and acreages for shrew averaging areas under FP 4.

Averaging Area ID ¹	Area of Averaging Area (acre)	Pre-Remediation EPC ² (mg/kg)	Removal ³			Post-Remediation EPC ² (mg/kg)	IMPG (mg/kg)	
			Depth (ft)	Volume (cy)	Area (acre)		Lower Bound	Upper Bound
G1	88	22	---	---	---	12	21.1	34.3
G2	87	50	---	---	---	15	21.1	34.3
G3	86	18	---	---	---	15	21.1	34.3
G4	86	27	---	---	---	21	21.1	34.3
G5	88	28	---	---	---	23	21.1	34.3
G6	87	11	---	---	---	11	21.1	34.3
G7	73	17	---	---	---	14	21.1	34.3
Total:			0	0	0			

Notes:

¹ See Figure 5-6 for shrew averaging areas.

² EPC is calculated for the top 1 ft of floodplain soil.

³ As stated in Section 5.4.4, the total and subtotal volumes shown are consistent with those described in the text, but due to roundoff for the individual averaging areas, do not always agree with the sum of the individual averaging areas.

Key


 = post-remediation EPC is lower than the IMPG

Table 6-23. Summary of IMPGs, pre- and post-remediation EPCs, and removal volumes and acreages for wood duck averaging areas under FP 4.

Averaging Area ID ¹	Reach	Averaging Area (acre)	Pre-Remediation EPC ² (mg/kg)	Removal ³			Post-Remediation EPC ² (mg/kg)	Floodplain IMPG ⁴ (mg/kg)		
				Depth (ft)	Volume (cy)	Area (acre)		Sediment Target Level		
								1 mg/kg	3 mg/kg	5 mg/kg
K1	5A	52	34	---	---	---	18	50	39	29
K2		63	8.1	---	---	---	5.8	50	39	29
K3		85	40	---	---	---	19	50	39	29
K4		60	17	---	---	---	13	50	39	29
K5		25	23	---	---	---	14	50	39	29
K6	5B	55	25	---	---	---	20	48	33	18
K7		47	29	---	---	---	22	48	33	18
K8		92	24	---	---	---	21	48	33	18
K9	5C/5D	69	25	---	---	---	19	53	49	46
K10		83	13	---	---	---	12	53	49	46
K11		61	14	---	---	---	14	53	49	46
K12	6	28	23	---	---	---	16	53	50	46
Total:					0	0				

Notes:

¹ See Figure 5-7 for wood duck averaging areas.

² EPC is calculated for the top 1 ft of floodplain soil.

³ As stated in Section 5.4.4, the total and subtotal volumes shown are consistent with those described in the text, but due to roundoff for the individual averaging areas, do not always agree with the sum of the individual averaging areas.

Key


 = post-remediation EPC is lower than the IMPG

Table 6-24. Summary of IMPGs, pre- and post-remediation EPCs, and removal volumes and acreages for mink averaging areas under FP 4.

Averaging Area ¹	Area of Averaging Area (acre)	Pre-Remediation EPC ² (mg/kg)	Removal ³			Post-Remediation EPC ² (mg/kg)	Floodplain IMPG ⁴ (mg/kg)					
			Depth (ft)	Volume (cy)	Area (acre)		Sediment Target Level					
							1 mg/kg		3 mg/kg		5 mg/kg	
							Lower Bound	Upper Bound	Lower Bound	Upper Bound	Lower Bound	Upper Bound
5A/5B	435	22	---	---	---	15	3.4	16.6	n/a	5.12	n/a	n/a
5C/5D/6	291	18	---	---	---	15	6.9	19.6	3.0	15.7	n/a	11.8
Total:			0	0	0							

Notes:

¹ See Figure 5-8 for mink averaging areas.

² EPC is calculated for the top 1 ft of floodplain soil.

³ As stated in Section 5.4.4, the total and subtotal volumes shown are consistent with those described in the text, but due to roundoff for the individual averaging areas, do not always agree with the sum of the individual averaging areas.

⁴ (n/a) denotes IMPG values not attainable in given reach for the sediment target level. The IMPG value for which the alternative was designed to achieve is shown in bold.

Key


 = post-remediation EPC is lower than the IMPG

Table 6-25. Summary of IMPGs and pre- and post-remediation EPCs for human direct contact exposure areas under FP 5.

Exposure Area ID ¹	Area of Exposure Area (acre) ²	IMPG Scenario	Pre-Remediation EPC (mg/kg) ³	Removal ⁴			Post-Remediation EPC (mg/kg) ³	IMPG ⁵ (mg/kg)							
				Depth (ft)	Volume (cy)	Area (acre)		Cancer Risk @ 10 ⁻⁶		Cancer Risk @ 10 ⁻⁵		Cancer Risk @ 10 ⁻⁴		Non-Cancer	
								RME	CTE	RME	CTE	RME	CTE	RME	CTE
1	15	Medium-use general recreation, adult / older child	36	---	---	---	14	2.1	51	21	514	215	5143	40	176
2	27	High-use general recreation, adult / older child	31	---	---	---	15	1.4	51	14	514	143	5143	27	176
2a	2.3	Low-use general recreation, older child	56	---	---	---	24	12	103	116	1029	1165	10286	80	353
2b	2.0	High-use general recreation, older child	29	---	---	---	25	3.9	51	39	514	388	5143	27	176
3	0.4	High-use general recreation, adult	5.6	---	---	---	5.6	1.4	63	14	630	143	6305	38	234
4	3.2	High-use general recreation, young child (low use)	29	---	---	---	11	8.0	37	80	368	802	3684	27	63
5	2.5	High-use general recreation, adult / older child	48	---	---	---	14	1.4	51	14	514	143	5143	27	176
6	3.8	Low-use general recreation, adult	59	---	---	---	25	4.3	126	43	1261	429	12610	115	468
7	5.9	High-use general recreation, adult / older child	21	---	---	---	17	1.4	51	14	514	143	5143	27	176
8	0.60	Recreational canoeist	40	---	---	---	20	1.2	13	12	129	121	1286	28	73
9	0.042	Low-use general recreation, older child	27	---	---	---	27	12	103	116	1029	1165	10286	80	353
10	59	High-use general recreation, young child (high use)	10	---	---	---	10	1.3	18	13	184	134	1842	4.6	32
10a	8.0	High-use general recreation, young child (high use)	18	---	---	---	18	1.3	18	13	184	134	1842	4.6	32
11	2.5	High-use general recreation, adult	15	---	---	---	15	1.4	63	14	630	143	6305	38	234
12	4.8	High-use general recreation, young child (low use)	7	---	---	---	5.9	8.0	37	80	368	802	3684	27	63
13	5.9	High-use general recreation, adult	14	---	---	---	14	1.4	63	14	630	143	6305	38	234
14	4.1	High-use general recreation, adult	2.7	---	---	---	2.7	1.4	63	14	630	143	6305	38	234
15	0.87	High-use general recreation, adult	2.0	---	---	---	2.0	1.4	63	14	630	143	6305	38	234
16	2.5	High-use general recreation, adult	22	---	---	---	22	1.4	63	14	630	143	6305	38	234
17	8.5	High-use general recreation, adult	13	---	---	---	13	1.4	63	14	630	143	6305	38	234
18	17	Medium-use general recreation, adult	17	---	---	---	14	2.1	63	21	630	215	6305	58	234
19	36	High-use general recreation, adult	83	---	---	---	16	1.4	63	14	630	143	6305	38	234
20	9.1	High-use general recreation, adult	31	---	---	---	17	1.4	63	14	630	143	6305	38	234
21	2.9	High-use general recreation, adult / older child	4.9	---	---	---	4.4	1.4	51	14	514	143	5143	27	176
22	19	High-use general recreation, adult / older child	26	---	---	---	16	1.4	51	14	514	143	5143	27	176
22a	1.8	Dirt biking/ATVing	88	---	---	---	15	2.0	29	20	290	205	2901	14	99
23	0.28	Medium-use general recreation, older child	12	---	---	---	10	5.8	51	58	514	582	5143	40	176
24	10	High-use general recreation, adult	31	---	---	---	17	1.4	63	14	630	143	6305	38	234
25	0.51	High-use general recreation, older child	30	---	---	---	16	3.9	51	39	514	388	5143	27	176
26a	48	High-use general recreation, adult / older child	7.2	---	---	---	7.2	1.4	51	14	514	143	5143	27	176
26b	7.6	Agricultural use (based on direct contact by farmer)	1.7	---	---	---	1.7	1.2	42	12	419	118	4195	43	348
26_F	55	High-use general recreation, adult / older child	6.3	---	---	---	6.3	1.4	51	14	514	143	5143	27	176
27	6.3	High-use general recreation, adult / older child	2.4	---	---	---	2.4	1.4	51	14	514	143	5143	27	176
27a	0.38	Dirt biking/ATVing	4.3	---	---	---	4.3	2.0	29	20	290	205	2901	14	99
28	0.21	High-use general recreation, young child (low use)	21	---	---	---	21	8.0	37	80	368	802	3684	27	63
28a	0.071	Dirt biking/ATVing	21	---	---	---	21	2.0	29	20	290	205	2901	14	99
29	0.34	Low-use general recreation, adult / older child	21	---	---	---	21	4.3	103	43	1029	429	10286	80	353
30	0.19	High-use general recreation, adult / older child	13	---	---	---	13	1.4	51	14	514	143	5143	27	176
31	5.0	High-use general recreation, adult / older child	14	---	---	---	14	1.4	51	14	514	143	5143	27	176
31a	0.61	High-use general recreation, adult / older child	42	---	---	---	42	1.4	51	14	514	143	5143	27	176
32	6.8	High-use general recreation, adult	14	---	---	---	14	1.4	63	14	630	143	6305	38	234
33	30	High-use general recreation, adult	20	---	---	---	16	1.4	63	14	630	143	6305	38	234
34	7.8	Medium-use general recreation, adult	25	---	---	---	19	2.1	63	21	630	215	6305	58	234
35	25	High-use general recreation, adult / older child	22	---	---	---	19	1.4	51	14	514	143	5143	27	176
35a	1.2	High-use general recreation, adult / older child	39	---	---	---	39	1.4	51	14	514	143	5143	27	176
36a	16	Low-use commercial (groundskeeper scenario)	23	---	---	---	23	8.9	166	89	1664	885	16642	126	571
36b	2.2	Agricultural use (based on direct contact by farmer)	15	---	---	---	15	1.2	42	12	419	118	4195	43	348
37	20	High-use general recreation, adult / older child	17	---	---	---	14	1.4	51	14	514	143	5143	27	176
37a	1.4	Bank fishing	26	---	---	---	21	2.6	52	26	524	256	5237	42	180
37b	2.3	High-use general recreation, adult / older child	25	---	---	---	4.1	1.4	51	14	514	143	5143	27	176

Table 6-25. Summary of IMPGs and pre- and post-remediation EPCs for human direct contact exposure areas under FP 5.

Exposure Area ID ¹	Area of Exposure Area (acre) ²	IMPG Scenario	Pre-Remediation EPC (mg/kg) ³	Removal ⁴			Post-Remediation EPC (mg/kg) ³	IMPG ⁵ (mg/kg)							
				Depth (ft)	Volume (cy)	Area (acre)		Cancer Risk @ 10 ⁻⁶		Cancer Risk @ 10 ⁻⁵		Cancer Risk @ 10 ⁻⁴		Non-Cancer	
								RME	CTE	RME	CTE	RME	CTE	RME	CTE
38	13	High-use general recreation, adult	23	---	---	---	18	1.4	63	14	630	143	6305	38	234
38a	1.4	Bank fishing	33	---	---	---	26	2.6	52	26	524	256	5237	42	180
39	3.5	Marathon canoeist	32	---	---	---	9.1	0.78	5.8	7.8	58	78	575	13	25
40	98	High-use general recreation, young child (low use)	20	---	---	---	5.0	8.0	37	80	368	802	3684	27	63
40a	4.6	Bank fishing	40	---	---	---	16	2.6	52	26	524	256	5237	42	180
40b	1.1	High-use general recreation, young child (low use)	11	---	---	---	11	8.0	37	80	368	802	3684	27	63
41	20	Medium-use general recreation, adult	28	---	---	---	22	2.1	63	21	630	215	6305	58	234
41a	2.4	Bank fishing	35	---	---	---	27	2.6	52	26	524	256	5237	42	180
42	14	Medium-use general recreation, adult	12	---	---	---	12	2.1	63	21	630	215	6305	58	234
42a	0.94	Bank fishing	14	---	---	---	14	2.6	52	26	524	256	5237	42	180
43	1.5	Medium-use general recreation, adult	27	---	---	---	6.3	2.1	63	21	630	215	6305	58	234
43a	0.24	Bank fishing	64	---	---	---	6.7	2.6	52	26	524	256	5237	42	180
44	2.2	High-use general recreation, adult	24	---	---	---	20	1.4	63	14	630	143	6305	38	234
45	17	High-use general recreation, adult	39	---	---	---	11	1.4	63	14	630	143	6305	38	234
46	7.2	High-use general recreation, adult	8.2	---	---	---	7.7	1.4	63	14	630	143	6305	38	234
47	1.0	Recreational canoeist	18	---	---	---	18	1.2	13	12	129	121	1286	28	73
47_F	0.12	Recreational canoeist	8.1	---	---	---	8.1	1.2	13	12	129	121	1286	28	73
48	6.5	High-use general recreation, adult	3.4	---	---	---	3.4	1.4	63	14	630	143	6305	38	234
49	7.7	Low-use general recreation, adult	17	---	---	---	14	4.3	126	43	1261	429	12610	115	468
50	69	Low-use general recreation, adult	7.3	---	---	---	6.1	4.3	126	43	1261	429	12610	115	468
50a	11	Waterfowl hunting	15	---	---	---	11	9.0	75	90	752	904	7518	140	399
51	87	Low-use general recreation, adult	7.2	---	---	---	7.0	4.3	126	43	1261	429	12610	115	468
51a	32	Waterfowl hunting	13	---	---	---	10	9.0	75	90	752	904	7518	140	399
52	0.9	Recreational canoeist	10	---	---	---	9.6	1.2	13	12	129	121	1286	28	73
53	0.7	Recreational canoeist	34	---	---	---	34	1.2	13	12	129	121	1286	28	73
54	13	High-use general recreation, adult	7.1	---	---	---	6.7	1.4	63	14	630	143	6305	38	234
55	18	High-use general recreation, young child (low use)	11	---	---	---	11	8.0	37	80	368	802	3684	27	63
55a	5.0	Waterfowl hunting	47	---	---	---	27	9.0	75	90	752	904	7518	140	399
56	32	Medium-use general recreation, adult / older child	38	---	---	---	25	2.1	51	21	514	215	5143	40	176
56a	10	Waterfowl hunting	49	---	---	---	18	9.0	75	90	752	904	7518	140	399
57	13	High-use general recreation, young child (low use)	5.8	---	---	---	5.7	8.0	37	80	368	802	3684	27	63
58	1.3	High-use general recreation, adult	65	---	---	---	3.6	1.4	63	14	630	143	6305	38	234
59	1.9	High-use general recreation, young child (low use)	18	---	---	---	17	8.0	37	80	368	802	3684	27	63
59a	0.83	Bank fishing	22	---	---	---	21	2.6	52	26	524	256	5237	42	180
60	0.84	High-use general recreation, young child (low use)	7.0	---	---	---	7.0	8.0	37	80	368	802	3684	27	63
60a	0.16	Recreational canoeist	13	---	---	---	13	1.2	13	12	129	121	1286	28	73
61	3.3	Utility worker	42	---	---	---	21	17	209	169	2093	1694	20933	242	718
62	1.6	Utility worker	134	---	---	---	13	17	209	169	2093	1694	20933	242	718
63	0.67	Utility worker	23	---	---	---	19	17	209	169	2093	1694	20933	242	718
64	0.61	Utility worker	42	---	---	---	42	17	209	169	2093	1694	20933	242	718
65	3.9	Utility worker	17	---	---	---	17	17	209	169	2093	1694	20933	242	718
66	1.7	Utility worker	23	---	---	---	9.2	17	209	169	2093	1694	20933	242	718
67	0.31	High-use general recreation, adult	11	---	---	---	11	1.4	63	14	630	143	6305	38	234
68	0.090	High-use general recreation, adult	9	---	---	---	9.0	1.4	63	14	630	143	6305	38	234
69	1.9	High-use general recreation, adult	7.3	---	---	---	7.3	1.4	63	14	630	143	6305	38	234
70	19	High-use general recreation, young child (high use)	2.4	---	---	---	2.4	1.3	18	13	184	134	1842	4.6	32
70a	1.2	Bank fishing	3.8	---	---	---	3.8	2.6	52	26	524	256	5237	42	180
71	1.8	Bank fishing	4.6	---	---	---	4.6	2.6	52	26	524	256	5237	42	180
72	2.3	Bank fishing	10	---	---	---	10	2.6	52	26	524	256	5237	42	180
73	3.9	High-use general recreation, adult	0.50	---	---	---	0.50	1.4	63	14	630	143	6305	38	234

Table 6-25. Summary of IMPGs and pre- and post-remediation EPCs for human direct contact exposure areas under FP 5.

Exposure Area ID ¹	Area of Exposure Area (acre) ²	IMPG Scenario	Pre-Remediation EPC (mg/kg) ³	Removal ⁴			Post-Remediation EPC (mg/kg) ³	IMPG ⁵ (mg/kg)							
				Depth (ft)	Volume (cy)	Area (acre)		Cancer Risk @ 10 ⁻⁶		Cancer Risk @ 10 ⁻⁵		Cancer Risk @ 10 ⁻⁴		Non-Cancer	
								RME	CTE	RME	CTE	RME	CTE	RME	CTE
74	5.3	High-use general recreation, adult	5.3	---	---	---	5.3	1.4	63	14	630	143	6305	38	234
75	3.4	High-use general recreation, adult	15	---	---	---	15	1.4	63	14	630	143	6305	38	234
76	1.1	High-use general recreation, adult	0.79	---	---	---	0.79	1.4	63	14	630	143	6305	38	234
77	4.2	High-use general recreation, adult	0.89	---	---	---	0.89	1.4	63	14	630	143	6305	38	234
78	6.2	High-use general recreation, older child	5.9	---	---	---	5.9	3.9	51	39	514	388	5143	27	176
79	17	High-use general recreation, adult	2.9	---	---	---	2.9	1.4	63	14	630	143	6305	38	234
80a	9.5	Low-use general recreation, adult	2.6	---	---	---	2.6	4.3	126	43	1261	429	12610	115	468
80b	20	Agricultural use (based on direct contact by farmer)	0.76	---	---	---	0.76	1.2	42	12	419	118	4195	43	348
81	33	Low-use general recreation, adult	2.3	---	---	---	2.3	4.3	126	43	1261	429	12610	115	468
82	15	Low-use general recreation, adult	3.6	---	---	---	3.6	4.3	126	43	1261	429	12610	115	468
83	22	High-use commercial (groundskeeper scenario)	1.9	---	---	---	1.9	1.8	17	18	166	177	1664	25	57
84	8.5	Low-use general recreation, adult	4.3	---	---	---	4.3	4.3	126	43	1261	429	12610	115	468
85a	0.25	Recreational canoeist	7.9	---	---	---	7.9	1.2	13	12	129	121	1286	28	73
85b	10	High-use general recreation, older child	1.7	---	---	---	1.7	3.9	51	39	514	388	5143	27	176
86	118	High-use commercial (groundskeeper scenario)	2.5	---	---	---	2.5	1.8	17	18	166	177	1664	25	57
87	10	High-use general recreation, young child (high use)	9.4	---	---	---	9.4	1.3	18	13	184	134	1842	4.6	32
87a	0.88	Bank fishing	6.0	---	---	---	6.0	2.6	52	26	524	256	5237	42	180
88	1.1	Medium-use general recreation, older child	13	---	---	---	13	5.8	51	58	514	582	5143	40	176
89	4.3	High-use general recreation, adult	6.4	---	---	---	6.4	1.4	63	14	630	143	6305	38	234
90	8.9	High-use general recreation, adult / older child	6.8	---	---	---	6.8	1.4	51	14	514	143	5143	27	176
Heavily Used Subareas															
Exposure Area ID ¹	Area of Exposure Area (acre) ²	IMPG Scenario	Pre-Remediation EPC (mg/kg) ³	Removal ⁴			Post-Remediation EPC (mg/kg) ³	IMPG ⁵ (mg/kg)							
				Depth (ft)	Volume (cy)	Area (acre)		Cancer Risk @ 10 ⁻⁶		Cancer Risk @ 10 ⁻⁵		Cancer Risk @ 10 ⁻⁴		Non-Cancer	
								RME	CTE	RME	CTE	RME	CTE	RME	CTE
4	0.71	High-use general recreation, young child (low use)	17	---	---	---	9.4	8.0	37	80	368	802	3684	27	63
12	1.5	High-use general recreation, young child (low use)	9.8	---	---	---	9.8	8.0	37	80	368	802	3684	27	63
26a	2.2	High-use general recreation, adult / older child	1.9	---	---	---	1.9	1.4	51	14	514	143	5143	27	176
39	0.15	Marathon canoeist	54	---	---	---	15	0.78	5.8	7.8	58	78	575	13	25
40	5.2	High-use general recreation, young child (low use)	19	---	---	---	18	8.0	37	80	368	802	3684	27	63
47	0.18	Recreational canoeist	6.0	---	---	---	6.0	1.2	13	12	129	121	1286	28	73
52	0.25	Recreational canoeist	7.0	---	---	---	7.0	1.2	13	12	129	121	1286	28	73
53	0.35	Recreational canoeist	408	---	---	---	18	1.2	13	12	129	121	1286	28	73
60a	0.16	Recreational canoeist	7.0	---	---	---	7.0	1.2	13	12	129	121	1286	28	73

Notes:

- ¹ See Figures 5-1 and 5-2 for direct contact exposure areas in Reaches 5 through 8, and Heavily Used Subareas, respectively.
- ² Area only includes the portion of the exposure area within the 1 mg/kg PCB isopleth (Reaches 5/6) or the 100-year floodplain (Reaches 7/8).
- ³ EPC is calculated for top 1-ft floodplain soil, except in Heavily Used Subareas where it is calculated for top 3-ft floodplain soil.
- ⁴ Removal volumes for threshold-based alternatives are not shown by exposure/averaging areas.
- ⁵ For scenarios containing more than one receptor (e.g. adult and older child), the lowest IMPG was utilized in the comparison to post-remediation EPCs.

Key

= post-remediation EPC is lower than the IMPG

Table 6-26. Summary of IMPGs and pre- and post-remediation EPCs for agricultural products consumption under FP 5.

Farm ID ¹	Area of farm (acre) ²	IMPG Scenario	Pre-Remediation EPC ³ (mg/kg)	Removal			Post-Remediation EPC ³ (mg/kg)	IMPG ⁴ (mg/kg)									
				Depth (ft)	Volume (cy)	Area (acres)		Cancer Risk @ 10 ⁻⁶		Cancer Risk @ 10 ⁻⁵		Cancer Risk @ 10 ⁻⁴		Non-Cancer (Child)		Non-Cancer (Adult)	
								RME	CTE	RME	CTE	RME	CTE	RME	CTE	RME	CTE
FA 1	8.0	Commercial Dairy	1.6	---	---	---	1.6	0.68	3.1	6.8	31	68	312	7.7	12.2	36.4	44.3
FA 2	3.3		13	---	---	---	13	2.59	11.9	25.9	119	259	1187	29.1	46.4	138.1	168.3
FA 3	4.1		0.20	---	---	---	0.20	0.29	1.3	2.9	13	29	132	3.2	5.2	15.4	18.7
FA 4	64		0.38	---	---	---	0.38	0.24	1.1	2.4	11	24	110	2.7	4.3	12.8	15.6
FA 5	12		0.25	---	---	---	0.25	0.24	1.1	2.4	11	24	110	2.7	4.3	12.8	15.6
FA 6	8		0.25	---	---	---	0.25	0.24	1.1	2.4	11	24	110	2.7	4.3	12.8	15.6
FA 7	24		0.25	---	---	---	0.25	0.24	1.1	2.4	11	24	110	2.7	4.3	12.8	15.6
FA 8	9.4		0.19	---	---	---	0.19	0.34	1.5	3.4	15	34	154	3.8	6.0	17.9	21.8
FA 9	26		0.89	---	---	---	0.89	0.31	1.4	3.1	14	31	143	3.5	5.6	16.6	20.3
FA 10	0.3		0.50	---	---	---	0.50	2.06	9.5	20.6	95	206	946	23.2	37.0	110.1	134.2
FA 11	0.14		0.25	---	---	---	0.25	6.10	27.9	61.0	279	610	2794	68.6	109.2	325.1	396.2
FA 12	8.0		0.25	---	---	---	0.25	0.38	1.8	3.8	18	38	176	4.3	6.9	20.5	25.0
FA 13	4.0		0.25	---	---	---	0.25	0.24	1.1	2.4	11	24	110	2.7	4.3	12.8	15.6
FA 14	2.6		0.30	---	---	---	0.30	0.55	2.5	5.5	25	55	253	6.2	9.9	29.4	35.9

Notes:

¹ See Figure 5-4 for farm areas in Reaches 5 through 8.

² Farm area only includes the portion within the 1 mg/kg PCB isopleth (Reaches 5/6) or the 100-year floodplain (Reaches 7/8).

³ EPC is calculated for the top 1 ft of floodplain soil.

⁴ IMPG values for agricultural products consumption include a multiplier to account for the areas outside the 1 mg/kg PCB isopleth/100-year floodplain (see Table 5-2).

Key

= post-remediation EPC is lower than the IMPG

Table 6-27. Summary of IMPGs and pre- and post-remediation EPCs for wood frog averaging areas (vernal pools) under FP 5.

Vernal Pool ID ¹	Area of Vernal Pool (acre)	Pre-Remediation EPC ² (mg/kg)	Removal			Post-Remediation EPC ² (mg/kg)	IMPG (mg/kg)	
			Depth (ft)	Volume (cy)	Area (acre)		Lower Bound	Upper Bound
5-VP-3	1.9	29	---	---	---	27	3.27	5.6
5-VP-1	0.044	1.7	---	---	---	1.7	3.27	5.6
8-VP-5	0.043	26	---	---	---	26	3.27	5.6
8-VP-4	0.24	3.9	---	---	---	3.9	3.27	5.6
8-VP-3	0.02	7.7	---	---	---	7.7	3.27	5.6
8-VP-2	0.57	66	---	---	---	29	3.27	5.6
18-VP-2	0.61	7.2	---	---	---	7.2	3.27	5.6
18-VP-1	0.28	7.9	---	---	---	7.9	3.27	5.6
19-VP-7	0.068	0.80	---	---	---	0.80	3.27	5.6
19-VP-2	0.0080	34	---	---	---	34	3.27	5.6
19-VP-1	0.18	23	---	---	---	23	3.27	5.6
19-VP-3	0.031	10	---	---	---	10	3.27	5.6
19-VP-4	0.094	5.6	---	---	---	5.6	3.27	5.6
19-VP-8	0.057	91	---	---	---	0.021	3.27	5.6
19-VP-5	0.51	26	---	---	---	26	3.27	5.6
19-VP-6	1.2	22	---	---	---	21	3.27	5.6
23-VP-2	0.18	46	---	---	---	37	3.27	5.6
23-VP-1	0.30	62	---	---	---	25	3.27	5.6
23A-VP-1	0.45	26	---	---	---	26	3.27	5.6
23B-VP-1	0.068	26	---	---	---	26	3.27	5.6
23B-VP-2	0.091	0.34	---	---	---	0.34	3.27	5.6
27B-VP-2	0.28	11	---	---	---	11	3.27	5.6
27B-VP-3	0.062	16	---	---	---	16	3.27	5.6
27B-VP-1	0.072	12	---	---	---	12	3.27	5.6
27-VP-2	0.47	21	---	---	---	21	3.27	5.6
27A-VP-1	0.20	31	---	---	---	31	3.27	5.6
27-VP-1	1.3	23	---	---	---	23	3.27	5.6
26-VP-1	0.036	40	---	---	---	40	3.27	5.6
33-VP-1	0.022	10	---	---	---	10	3.27	5.6
33-VP-2	0.12	65	---	---	---	46	3.27	5.6
38-VP-1	0.43	34	---	---	---	26	3.27	5.6
38A-VP-1	0.020	5.0	---	---	---	5.0	3.27	5.6
38-VP-3	0.046	28	---	---	---	28	3.27	5.6
38-VP-2	0.17	28	---	---	---	28	3.27	5.6
40-VP-3	0.46	59	---	---	---	34	3.27	5.6
40-VP-2	0.36	17	---	---	---	17	3.27	5.6
40A-VP-1	0.11	68	---	---	---	48	3.27	5.6
40-VP-1	0.47	58	---	---	---	4.2	3.27	5.6
42-VP-1	0.22	63	---	---	---	5.1	3.27	5.6
42-VP-2	0.28	45	---	---	---	45	3.27	5.6
42-VP-3	0.050	41	---	---	---	41	3.27	5.6
42-VP-5	0.58	61	---	---	---	18	3.27	5.6
42-VP-4	1.0	33	---	---	---	25	3.27	5.6
42A-VP-1	1.5	31	---	---	---	20	3.27	5.6
46-VP-2	7.1	20	---	---	---	2.6	3.27	5.6
46-VP-1	0.52	51	---	---	---	0.47	3.27	5.6
46-VP-5	0.056	123	---	---	---	5.4	3.27	5.6
46-VP-3	1.4	67	---	---	---	0.87	3.27	5.6
46-VP-4	0.011	125	---	---	---	0.021	3.27	5.6
49A-VP-1	0.019	16	---	---	---	16	3.27	5.6
49-VP-1	1.2	18	---	---	---	18	3.27	5.6
49B-VP-1	0.0044	26	---	---	---	26	3.27	5.6
66A-VP-1	0.032	0.70	---	---	---	0.70	3.27	5.6
69-VP-1	0.0074	12	---	---	---	12	3.27	5.6
8-VP-6	0.086	47	---	---	---	47	3.27	5.6
12-VP-1	0.080	8.0	---	---	---	8.0	3.27	5.6
39-VP-1	2.0	32	---	---	---	32	3.27	5.6
54-VP-1	0.20	21	---	---	---	21	3.27	5.6
55-VP-1	0.59	7.7	---	---	---	7.7	3.27	5.6
55A-VP-1	2.0	79	---	---	---	38	3.27	5.6
58A-VP-1	0.32	22	---	---	---	22	3.27	5.6
67A-VP-1	0.12	13	---	---	---	13	3.27	5.6
61A-VP-1	0.19	28	---	---	---	28	3.27	5.6
61A-VP-2	1.2	35	---	---	---	35	3.27	5.6
56A-VP-1	0.58	73	---	---	---	38	3.27	5.6
23-VP-3	1.3	22	---	---	---	22	3.27	5.6

Notes:

¹ See Figure 5-5 for locations of vernal pools.

² EPC is calculated for the top 1 ft of floodplain soil.

Key

= post-remediation EPC is lower than the IMPG

Table 6-28. Summary of IMPGs and pre- and post-remediation EPCs for shrew averaging areas under FP 5.

Averaging Area ID ¹	Area of Averaging Area (acre)	Pre-Remediation EPC ² (mg/kg)	Removal			Post-Remediation EPC ² (mg/kg)	IMPG (mg/kg)	
			Depth (ft)	Volume (cy)	Area (acre)		Lower Bound	Upper Bound
G1	88	22	---	---	---	11	21.1	34.3
G2	87	50	---	---	---	14	21.1	34.3
G3	86	18	---	---	---	16	21.1	34.3
G4	86	27	---	---	---	21	21.1	34.3
G5	88	28	---	---	---	10	21.1	34.3
G6	87	11	---	---	---	9.3	21.1	34.3
G7	73	17	---	---	---	12	21.1	34.3

Notes:

¹ See Figure 5-6 for shrew averaging areas.

² EPC is calculated for the top 1 ft of floodplain soil.

Key


 = post-remediation EPC is lower than the IMPG

Table 6-29. Summary of IMPGs and pre- and post-remediation EPCs for wood duck averaging areas under FP 5.

Averaging Area ID ¹	Reach	Averaging Area (acre)	Pre-Remediation EPC ² (mg/kg)	Removal			Post-Remediation EPC ² (mg/kg)	Floodplain IMPG (mg/kg)		
				Depth (ft)	Volume (cy)	Area (acre)		Sediment Target Level		
								1 mg/kg	3 mg/kg	5 mg/kg
K1	5A	52	34	---	---	---	15	50	39	29
K2		63	8.1	---	---	---	8.1	50	39	29
K3		85	40	---	---	---	14	50	39	29
K4		60	17	---	---	---	14	50	39	29
K5		25	23	---	---	---	19	50	39	29
K6	5B	55	25	---	---	---	22	48	33	18
K7		47	29	---	---	---	18	48	33	18
K8		92	24	---	---	---	12	48	33	18
K9	5C/5D	69	25	---	---	---	12	53	49	46
K10		83	13	---	---	---	10	53	49	46
K11		61	14	---	---	---	12	53	49	46
K12	6	28	23	---	---	---	12	53	50	46

Notes:

¹ See Figure 5-7 for wood duck averaging areas.

² EPC is calculated for the top 1 ft of floodplain soil.

Key


 = post-remediation EPC is lower than the IMPG

Table 6-30. Summary of IMPGs and pre- and post-remediation EPCs for mink averaging areas under FP 5.

Averaging Area ¹	Area of Averaging Area (acre)	Pre-Remediation EPC ² (mg/kg)	Removal			Post-Remediation EPC ² (mg/kg)	Floodplain IMPG ³ (mg/kg)					
			Depth (ft)	Volume (cy)	Area (acre)		Sediment Target Level					
							1 mg/kg		3 mg/kg		5 mg/kg	
							Lower Bound	Upper Bound	Lower Bound	Upper Bound	Lower Bound	Upper Bound
5A/5B	435	22	---	---	---	14	3.4	16.6	n/a	5.12	n/a	n/a
5C/5D/6	291	18	---	---	---	9.4	6.9	19.6	3.0	15.7	n/a	11.8

Notes:

¹ See Figure 5-8 for mink averaging areas.

² EPC is calculated for the top 1 ft of floodplain soil.

³ (n/a) denotes IMPG values not attainable in given reach for the sediment target level.

Key

= post-remediation EPC is lower than the IMPG

Table 6-31. Summary of IMPGs and pre- and post-remediation EPCs for human direct contact exposure areas under FP 6.

Exposure Area ID ¹	Area of Exposure Area (acre) ²	IMPG Scenario	Pre-Remediation EPC (mg/kg) ³	Removal ⁴			Post-Remediation EPC (mg/kg) ³	IMPG ⁵ (mg/kg)							
				Depth (ft)	Volume (cy)	Area (acre)		Cancer Risk @ 10 ⁻⁶		Cancer Risk @ 10 ⁻⁵		Cancer Risk @ 10 ⁻⁴		Non-Cancer	
								RME	CTE	RME	CTE	RME	CTE	RME	CTE
1	15	Medium-use general recreation, adult / older child	36	---	---	---	5.0	2.1	51	21	514	215	5143	40	176
2	27	High-use general recreation, adult / older child	31	---	---	---	3.7	1.4	51	14	514	143	5143	27	176
2a	2.3	Low-use general recreation, older child	56	---	---	---	24	12	103	116	1029	1165	10286	80	353
2b	2.0	High-use general recreation, older child	29	---	---	---	4.2	3.9	51	39	514	388	5143	27	176
3	0.4	High-use general recreation, adult	5.6	---	---	---	5.6	1.4	63	14	630	143	6305	38	234
4	3.2	High-use general recreation, young child (low use)	29	---	---	---	6.2	8.0	37	80	368	802	3684	27	63
5	2.5	High-use general recreation, adult / older child	48	---	---	---	6.8	1.4	51	14	514	143	5143	27	176
6	3.8	Low-use general recreation, adult	59	---	---	---	7.4	4.3	126	43	1261	429	12610	115	468
7	5.9	High-use general recreation, adult / older child	21	---	---	---	6.9	1.4	51	14	514	143	5143	27	176
8	0.60	Recreational canoeist	40	---	---	---	20	1.2	13	12	129	121	1286	28	73
9	0.042	Low-use general recreation, older child	27	---	---	---	16	12	103	116	1029	1165	10286	80	353
10	59	High-use general recreation, young child (high use)	10	---	---	---	5.2	1.3	18	13	184	134	1842	4.6	32
10a	8.0	High-use general recreation, young child (high use)	18	---	---	---	12	1.3	18	13	184	134	1842	4.6	32
11	2.5	High-use general recreation, adult	15	---	---	---	12	1.4	63	14	630	143	6305	38	234
12	4.8	High-use general recreation, young child (low use)	7.0	---	---	---	4.2	8.0	37	80	368	802	3684	27	63
13	5.9	High-use general recreation, adult	14	---	---	---	5.8	1.4	63	14	630	143	6305	38	234
14	4.1	High-use general recreation, adult	2.7	---	---	---	2.7	1.4	63	14	630	143	6305	38	234
15	0.87	High-use general recreation, adult	2.0	---	---	---	2.0	1.4	63	14	630	143	6305	38	234
16	2.5	High-use general recreation, adult	22	---	---	---	8.7	1.4	63	14	630	143	6305	38	234
17	8.5	High-use general recreation, adult	13	---	---	---	7.8	1.4	63	14	630	143	6305	38	234
18	17	Medium-use general recreation, adult	17	---	---	---	14	2.1	63	21	630	215	6305	58	234
19	36	High-use general recreation, adult	83	---	---	---	5.0	1.4	63	14	630	143	6305	38	234
20	9.1	High-use general recreation, adult	31	---	---	---	7.1	1.4	63	14	630	143	6305	38	234
21	2.9	High-use general recreation, adult / older child	4.9	---	---	---	4.4	1.4	51	14	514	143	5143	27	176
22	19	High-use general recreation, adult / older child	26	---	---	---	7.0	1.4	51	14	514	143	5143	27	176
22a	1.8	Dirt biking/ATVing	88	---	---	---	12	2.0	29	20	290	205	2901	14	99
23	0.28	Medium-use general recreation, older child	12	---	---	---	10	5.8	51	58	514	582	5143	40	176
24	10	High-use general recreation, adult	31	---	---	---	7.9	1.4	63	14	630	143	6305	38	234
25	0.51	High-use general recreation, older child	30	---	---	---	8.2	3.9	51	39	514	388	5143	27	176
26a	48	High-use general recreation, adult / older child	7.2	---	---	---	5.1	1.4	51	14	514	143	5143	27	176
26b	7.6	Agricultural use (based on direct contact by farmer)	1.7	---	---	---	1.7	1.2	42	12	419	118	4195	43	348
26_F	55	High-use general recreation, adult / older child	6.3	---	---	---	4.5	1.4	51	14	514	143	5143	27	176
27	6.3	High-use general recreation, adult / older child	2.4	---	---	---	2.4	1.4	51	14	514	143	5143	27	176
27a	0.38	Dirt biking/ATVing	4.3	---	---	---	4.3	2.0	29	20	290	205	2901	14	99
28	0.21	High-use general recreation, young child (low use)	21	---	---	---	21	8.0	37	80	368	802	3684	27	63
28a	0.071	Dirt biking/ATVing	21	---	---	---	21	2.0	29	20	290	205	2901	14	99
29	0.34	Low-use general recreation, adult / older child	21	---	---	---	21	4.3	103	43	1029	429	10286	80	353
30	0.19	High-use general recreation, adult / older child	13	---	---	---	13	1.4	51	14	514	143	5143	27	176
31	5.0	High-use general recreation, adult / older child	14	---	---	---	8.0	1.4	51	14	514	143	5143	27	176
31a	0.61	High-use general recreation, adult / older child	42	---	---	---	14	1.4	51	14	514	143	5143	27	176
32	6.8	High-use general recreation, adult	14	---	---	---	6.6	1.4	63	14	630	143	6305	38	234
33	30	High-use general recreation, adult	20	---	---	---	7.4	1.4	63	14	630	143	6305	38	234
34	7.8	Medium-use general recreation, adult	25	---	---	---	12	2.1	63	21	630	215	6305	58	234
35	25	High-use general recreation, adult / older child	22	---	---	---	5.2	1.4	51	14	514	143	5143	27	176
35a	1.2	High-use general recreation, adult / older child	39	---	---	---	2.4	1.4	51	14	514	143	5143	27	176
36a	16	Low-use commercial (groundskeeper scenario)	23	---	---	---	5.9	8.9	166	89	1664	885	16642	126	571
36b	2.2	Agricultural use (based on direct contact by farmer)	15	---	---	---	3.7	1.2	42	12	419	118	4195	43	348
37	20	High-use general recreation, adult / older child	17	---	---	---	6.1	1.4	51	14	514	143	5143	27	176
37a	1.4	Bank fishing	26	---	---	---	12	2.6	52	26	524	256	5237	42	180
37b	2.3	High-use general recreation, adult / older child	25	---	---	---	2.6	1.4	51	14	514	143	5143	27	176

Table 6-31. Summary of IMPGs and pre- and post-remediation EPCs for human direct contact exposure areas under FP 6.

Exposure Area ID ¹	Area of Exposure Area (acre) ²	IMPG Scenario	Pre-Remediation EPC (mg/kg) ³	Removal ⁴			Post-Remediation EPC (mg/kg) ³	IMPG ⁵ (mg/kg)							
				Depth (ft)	Volume (cy)	Area (acre)		Cancer Risk @ 10 ⁻⁶		Cancer Risk @ 10 ⁻⁵		Cancer Risk @ 10 ⁻⁴		Non-Cancer	
								RME	CTE	RME	CTE	RME	CTE	RME	CTE
38	13	High-use general recreation, adult	23	---	---	---	6.5	1.4	63	14	630	143	6305	38	234
38a	1.4	Bank fishing	33	---	---	---	11	2.6	52	26	524	256	5237	42	180
39	3.5	Marathon canoeist	32	---	---	---	5.5	0.78	5.8	7.8	58	78	575	13	25
40	98	High-use general recreation, young child (low use)	20	---	---	---	2.5	8.0	37	80	368	802	3684	27	63
40a	4.6	Bank fishing	40	---	---	---	7.5	2.6	52	26	524	256	5237	42	180
40b	1.1	High-use general recreation, young child (low use)	11	---	---	---	11	8.0	37	80	368	802	3684	27	63
41	20	Medium-use general recreation, adult	28	---	---	---	5.4	2.1	63	21	630	215	6305	58	234
41a	2.4	Bank fishing	35	---	---	---	9.0	2.6	52	26	524	256	5237	42	180
42	14	Medium-use general recreation, adult	12	---	---	---	8.1	2.1	63	21	630	215	6305	58	234
42a	0.94	Bank fishing	14	---	---	---	10	2.6	52	26	524	256	5237	42	180
43	1.5	Medium-use general recreation, adult	27	---	---	---	0.20	2.1	63	21	630	215	6305	58	234
43a	0.24	Bank fishing	64	---	---	---	0.11	2.6	52	26	524	256	5237	42	180
44	2.2	High-use general recreation, adult	24	---	---	---	7.1	1.4	63	14	630	143	6305	38	234
45	17	High-use general recreation, adult	39	---	---	---	7.3	1.4	63	14	630	143	6305	38	234
46	7.2	High-use general recreation, adult	8.2	---	---	---	4.2	1.4	63	14	630	143	6305	38	234
47	1.0	Recreational canoeist	18	---	---	---	18	1.2	13	12	129	121	1286	28	73
47_F	0.12	Recreational canoeist	8.1	---	---	---	8.1	1.2	13	12	129	121	1286	28	73
48	6.5	High-use general recreation, adult	3.4	---	---	---	2.3	1.4	63	14	630	143	6305	38	234
49	7.7	Low-use general recreation, adult	17	---	---	---	6.7	4.3	126	43	1261	429	12610	115	468
50	69	Low-use general recreation, adult	7.3	---	---	---	3.3	4.3	126	43	1261	429	12610	115	468
50a	11	Waterfowl hunting	15	---	---	---	5.2	9.0	75	90	752	904	7518	140	399
51	87	Low-use general recreation, adult	7.2	---	---	---	4.7	4.3	126	43	1261	429	12610	115	468
51a	32	Waterfowl hunting	13	---	---	---	4.6	9.0	75	90	752	904	7518	140	399
52	0.9	Recreational canoeist	10	---	---	---	3.4	1.2	13	12	129	121	1286	28	73
53	0.7	Recreational canoeist	34	---	---	---	1.3	1.2	13	12	129	121	1286	28	73
54	13	High-use general recreation, adult	7.1	---	---	---	6.7	1.4	63	14	630	143	6305	38	234
55	18	High-use general recreation, young child (low use)	11	---	---	---	6.7	8.0	37	80	368	802	3684	27	63
55a	5.0	Waterfowl hunting	47	---	---	---	13	9.0	75	90	752	904	7518	140	399
56	32	Medium-use general recreation, adult / older child	38	---	---	---	4.3	2.1	51	21	514	215	5143	40	176
56a	10	Waterfowl hunting	49	---	---	---	5.5	9.0	75	90	752	904	7518	140	399
57	13	High-use general recreation, young child (low use)	5.8	---	---	---	4.6	8.0	37	80	368	802	3684	27	63
58	1.3	High-use general recreation, adult	65	---	---	---	3.6	1.4	63	14	630	143	6305	38	234
59	1.9	High-use general recreation, young child (low use)	18	---	---	---	14	8.0	37	80	368	802	3684	27	63
59a	0.83	Bank fishing	22	---	---	---	14	2.6	52	26	524	256	5237	42	180
60	0.84	High-use general recreation, young child (low use)	7.0	---	---	---	7.0	8.0	37	80	368	802	3684	27	63
60a	0.16	Recreational canoeist	13	---	---	---	13	1.2	13	12	129	121	1286	28	73
61	3.3	Utility worker	42	---	---	---	11	17	209	169	2093	1694	20933	242	718
62	1.6	Utility worker	134	---	---	---	7.7	17	209	169	2093	1694	20933	242	718
63	0.67	Utility worker	23	---	---	---	8.7	17	209	169	2093	1694	20933	242	718
64	0.61	Utility worker	42	---	---	---	14	17	209	169	2093	1694	20933	242	718
65	3.9	Utility worker	17	---	---	---	8.9	17	209	169	2093	1694	20933	242	718
66	1.7	Utility worker	23	---	---	---	6.0	17	209	169	2093	1694	20933	242	718
67	0.31	High-use general recreation, adult	11	---	---	---	11	1.4	63	14	630	143	6305	38	234
68	0.090	High-use general recreation, adult	9.0	---	---	---	9.0	1.4	63	14	630	143	6305	38	234
69	1.9	High-use general recreation, adult	7.3	---	---	---	7.3	1.4	63	14	630	143	6305	38	234
70	19	High-use general recreation, young child (high use)	2.4	---	---	---	2.4	1.3	18	13	184	134	1842	4.6	32
70a	1.2	Bank fishing	3.8	---	---	---	3.8	2.6	52	26	524	256	5237	42	180
71	1.8	Bank fishing	4.6	---	---	---	4.6	2.6	52	26	524	256	5237	42	180
72	2.3	Bank fishing	10	---	---	---	10	2.6	52	26	524	256	5237	42	180
73	3.9	High-use general recreation, adult	0.50	---	---	---	0.50	1.4	63	14	630	143	6305	38	234

Table 6-31. Summary of IMPGs and pre- and post-remediation EPCs for human direct contact exposure areas under FP 6.

Exposure Area ID ¹	Area of Exposure Area (acre) ²	IMPG Scenario	Pre-Remediation EPC (mg/kg) ³	Removal ⁴			Post-Remediation EPC (mg/kg) ³	IMPG ⁵ (mg/kg)							
				Depth (ft)	Volume (cy)	Area (acre)		Cancer Risk @ 10 ⁻⁶		Cancer Risk @ 10 ⁻⁵		Cancer Risk @ 10 ⁻⁴		Non-Cancer	
								RME	CTE	RME	CTE	RME	CTE	RME	CTE
74	5.3	High-use general recreation, adult	5.3	---	---	---	5.3	1.4	63	14	630	143	6305	38	234
75	3.4	High-use general recreation, adult	15	---	---	---	15	1.4	63	14	630	143	6305	38	234
76	1.1	High-use general recreation, adult	0.79	---	---	---	0.79	1.4	63	14	630	143	6305	38	234
77	4.2	High-use general recreation, adult	0.89	---	---	---	0.89	1.4	63	14	630	143	6305	38	234
78	6.2	High-use general recreation, older child	5.9	---	---	---	5.9	3.9	51	39	514	388	5143	27	176
79	17	High-use general recreation, adult	2.9	---	---	---	2.9	1.4	63	14	630	143	6305	38	234
80a	9.5	Low-use general recreation, adult	2.6	---	---	---	2.6	4.3	126	43	1261	429	12610	115	468
80b	20	Agricultural use (based on direct contact by farmer)	0.76	---	---	---	0.76	1.2	42	12	419	118	4195	43	348
81	33	Low-use general recreation, adult	2.3	---	---	---	2.3	4.3	126	43	1261	429	12610	115	468
82	15	Low-use general recreation, adult	3.6	---	---	---	3.6	4.3	126	43	1261	429	12610	115	468
83	22	High-use commercial (groundskeeper scenario)	1.9	---	---	---	1.9	1.8	17	18	166	177	1664	25	57
84	8.5	Low-use general recreation, adult	4.3	---	---	---	4.3	4.3	126	43	1261	429	12610	115	468
85a	0.25	Recreational canoeist	7.9	---	---	---	7.9	1.2	13	12	129	121	1286	28	73
85b	10	High-use general recreation, older child	1.7	---	---	---	1.7	3.9	51	39	514	388	5143	27	176
86	118	High-use commercial (groundskeeper scenario)	2.5	---	---	---	2.5	1.8	17	18	166	177	1664	25	57
87	10	High-use general recreation, young child (high use)	9.4	---	---	---	9.4	1.3	18	13	184	134	1842	4.6	32
87a	0.88	Bank fishing	6.0	---	---	---	6.0	2.6	52	26	524	256	5237	42	180
88	1.1	Medium-use general recreation, older child	13	---	---	---	12	5.8	51	58	514	582	5143	40	176
89	4.3	High-use general recreation, adult	6.4	---	---	---	6.4	1.4	63	14	630	143	6305	38	234
90	8.9	High-use general recreation, adult / older child	6.8	---	---	---	6.8	1.4	51	14	514	143	5143	27	176
Heavily Used Subareas															
Exposure Area ID ¹	Area of Exposure Area (acre) ²	IMPG Scenario	Pre-Remediation EPC (mg/kg) ³	Removal ⁴			Post-Remediation EPC (mg/kg) ³	IMPG ⁵ (mg/kg)							
				Depth (ft)	Volume (cy)	Area (acre)		Cancer Risk @ 10 ⁻⁶		Cancer Risk @ 10 ⁻⁵		Cancer Risk @ 10 ⁻⁴		Non-Cancer	
								RME	CTE	RME	CTE	RME	CTE	RME	CTE
4	0.71	High-use general recreation, young child (low use)	17	---	---	---	4.6	8.0	37	80	368	802	3684	27	63
12	1.5	High-use general recreation, young child (low use)	9.8	---	---	---	2.4	8.0	37	80	368	802	3684	27	63
26a	2.2	High-use general recreation, adult / older child	1.9	---	---	---	1.9	1.4	51	14	514	143	5143	27	176
39	0.15	Marathon canoeist	54	---	---	---	16	0.78	5.8	7.8	58	78	575	13	25
40	5.2	High-use general recreation, young child (low use)	19	---	---	---	17	8.0	37	80	368	802	3684	27	63
47	0.18	Recreational canoeist	6.0	---	---	---	6.0	1.2	13	12	129	121	1286	28	73
52	0.25	Recreational canoeist	7.0	---	---	---	7.0	1.2	13	12	129	121	1286	28	73
53	0.35	Recreational canoeist	408	---	---	---	6.8	1.2	13	12	129	121	1286	28	73
60a	0.16	Recreational canoeist	7.0	---	---	---	7.0	1.2	13	12	129	121	1286	28	73

Notes:

- ¹ See Figures 5-1 and 5-2 for direct contact exposure areas in Reaches 5 through 8, and Heavily Used Subareas, respectively.
- ² Area only includes the portion of the exposure area within the 1 mg/kg PCB isopleth (Reaches 5/6) or the 100-year floodplain (Reaches 7/8).
- ³ EPC is calculated for top 1-ft floodplain soil, except in Heavily Used Subareas where it is calculated for top 3-ft floodplain soil.
- ⁴ Removal volumes for threshold-based alternatives are not shown by exposure/averaging areas.
- ⁵ For scenarios containing more than one receptor (e.g. adult and older child), the lowest IMPG was utilized in the comparison to post-remediation EPCs.

Key

= post-remediation EPC is lower than the IMPG

Table 6-32. Summary of IMPGs and pre- and post-remediation EPCs for agricultural products consumption areas under FP 6.

Farm ID ¹	Area of farm (acre) ²	IMPG Scenario	Pre-Remediation EPC ³ (mg/kg)	Removal ⁴			Post-Remediation EPC ³ (mg/kg)	IMPG ⁴ (mg/kg)									
				Depth (ft)	Volume (cy)	Area (acres)		Cancer Risk @ 10 ⁻⁶		Cancer Risk @ 10 ⁻⁵		Cancer Risk @ 10 ⁻⁴		Non-Cancer (Child)		Non-Cancer (Adult)	
								RME	CTE	RME	CTE	RME	CTE	RME	CTE	RME	CTE
FA 1	8.0	Commercial Dairy	1.6	---	---	---	1.6	0.68	3.1	6.8	31	68	312	7.7	12.2	36.4	44.3
FA 2	3.3		13	---	---	---	8.3	2.59	11.9	25.9	119	259	1187	29.1	46.4	138.1	168.3
FA 3	4.1		0.20	---	---	---	0.20	0.29	1.3	2.9	13	29	132	3.2	5.2	15.4	18.7
FA 4	64		0.38	---	---	---	0.38	0.24	1.1	2.4	11	24	110	2.7	4.3	12.8	15.6
FA 5	12		0.25	---	---	---	0.25	0.24	1.1	2.4	11	24	110	2.7	4.3	12.8	15.6
FA 6	7.7		0.25	---	---	---	0.25	0.24	1.1	2.4	11	24	110	2.7	4.3	12.8	15.6
FA 7	24		0.25	---	---	---	0.25	0.24	1.1	2.4	11	24	110	2.7	4.3	12.8	15.6
FA 8	9.4		0.19	---	---	---	0.19	0.34	1.5	3.4	15	34	154	3.8	6.0	17.9	21.8
FA 9	26		0.89	---	---	---	0.89	0.31	1.4	3.1	14	31	143	3.5	5.6	16.6	20.3
FA 10	0.31		0.50	---	---	---	0.50	2.06	9.5	20.6	95	206	946	23.2	37.0	110.1	134.2
FA 11	0.14		0.25	---	---	---	0.25	6.10	27.9	61.0	279	610	2794	68.6	109.2	325.1	396.2
FA 12	8.0		0.25	---	---	---	0.25	0.38	1.8	3.8	18	38	176	4.3	6.9	20.5	25.0
FA 13	4.0		0.25	---	---	---	0.25	0.24	1.1	2.4	11	24	110	2.7	4.3	12.8	15.6
FA 14	2.6		0.30	---	---	---	0.30	0.55	2.5	5.5	25	55	253	6.2	9.9	29.4	35.9

Notes:

¹ See Figure 5-4 for farm areas in Reaches 5 through 8.

² Farm area only includes the portion within the 1 mg/kg PCB isopleth (Reaches 5/6) or the 100-year floodplain (Reaches 7/8).

³ EPC is calculated for the top 1 ft of floodplain soil.

⁴ IMPG values for agricultural products consumption include a multiplier to account for the areas outside the 1 mg/kg PCB isopleth/100-year floodplain (see Table 5-2).

Key


 = post-remediation EPC is lower than the IMPG

Table 6-33. Summary of IMPGs and pre- and post-remediation EPCs for wood frog averaging areas (vernal pools) under FP 6.

Vernal Pool ID ¹	Area of Vernal Pool (acre)	Pre-Remediation EPC ² (mg/kg)	Removal ³			Post-Remediation EPC ² (mg/kg)	IMPG (mg/kg)	
			Depth (ft)	Volume (cy)	Area (acre)		Lower Bound	Upper Bound
5-VP-3	1.9	29	---	---	---	5.8	3.27	5.6
5-VP-1	0.044	1.7	---	---	---	1.7	3.27	5.6
8-VP-5	0.043	26	---	---	---	21	3.27	5.6
8-VP-4	0.24	3.9	---	---	---	3.9	3.27	5.6
8-VP-3	0.02	7.7	---	---	---	7.7	3.27	5.6
8-VP-2	0.57	66	---	---	---	3.9	3.27	5.6
18-VP-2	0.61	7.2	---	---	---	7.2	3.27	5.6
18-VP-1	0.28	7.9	---	---	---	7.9	3.27	5.6
19-VP-7	0.068	0.80	---	---	---	0.80	3.27	5.6
19-VP-2	0.0080	34	---	---	---	0.021	3.27	5.6
19-VP-1	0.18	23	---	---	---	23	3.27	5.6
19-VP-3	0.031	10	---	---	---	10	3.27	5.6
19-VP-4	0.094	5.6	---	---	---	5.6	3.27	5.6
19-VP-8	0.057	91	---	---	---	0.021	3.27	5.6
19-VP-5	0.51	26	---	---	---	10	3.27	5.6
19-VP-6	1.2	22	---	---	---	7.3	3.27	5.6
23-VP-2	0.18	46	---	---	---	16	3.27	5.6
23-VP-1	0.30	62	---	---	---	8.3	3.27	5.6
23A-VP-1	0.45	26	---	---	---	22	3.27	5.6
23B-VP-1	0.068	26	---	---	---	0.15	3.27	5.6
23B-VP-2	0.091	0.34	---	---	---	0.34	3.27	5.6
27B-VP-2	0.28	11	---	---	---	11	3.27	5.6
27B-VP-3	0.062	16	---	---	---	16	3.27	5.6
27B-VP-1	0.072	12	---	---	---	12	3.27	5.6
27-VP-2	0.47	21	---	---	---	21	3.27	5.6
27A-VP-1	0.20	31	---	---	---	11	3.27	5.6
27-VP-1	1.3	23	---	---	---	23	3.27	5.6
26-VP-1	0.036	40	---	---	---	15	3.27	5.6
33-VP-1	0.022	10	---	---	---	10	3.27	5.6
33-VP-2	0.12	65	---	---	---	0.78	3.27	5.6
38-VP-1	0.43	34	---	---	---	11	3.27	5.6
38A-VP-1	0.020	5.0	---	---	---	5.0	3.27	5.6
38-VP-3	0.046	28	---	---	---	5.0	3.27	5.6
38-VP-2	0.17	28	---	---	---	12	3.27	5.6
40-VP-3	0.46	59	---	---	---	15	3.27	5.6
40-VP-2	0.36	17	---	---	---	17	3.27	5.6
40A-VP-1	0.11	68	---	---	---	17	3.27	5.6
40-VP-1	0.47	58	---	---	---	4.2	3.27	5.6
42-VP-1	0.22	63	---	---	---	0.021	3.27	5.6
42-VP-2	0.28	45	---	---	---	3.6	3.27	5.6
42-VP-3	0.050	41	---	---	---	1.9	3.27	5.6
42-VP-5	0.58	61	---	---	---	24	3.27	5.6
42-VP-4	1.0	33	---	---	---	5.4	3.27	5.6
42A-VP-1	1.5	31	---	---	---	10	3.27	5.6
46-VP-2	7.1	20	---	---	---	2.6	3.27	5.6
46-VP-1	0.52	51	---	---	---	0.47	3.27	5.6
46-VP-5	0.056	123	---	---	---	0.021	3.27	5.6
46-VP-3	1.4	67	---	---	---	0.87	3.27	5.6
46-VP-4	0.011	125	---	---	---	0.021	3.27	5.6
49A-VP-1	0.019	16	---	---	---	16	3.27	5.6
49-VP-1	1.2	18	---	---	---	11	3.27	5.6
49B-VP-1	0.0044	26	---	---	---	0.021	3.27	5.6
66A-VP-1	0.032	0.70	---	---	---	0.72	3.27	5.6
69-VP-1	0.0074	12	---	---	---	12	3.27	5.6
8-VP-6	0.086	47	---	---	---	0.021	3.27	5.6
12-VP-1	0.080	8.0	---	---	---	8.0	3.27	5.6
39-VP-1	2.0	32	---	---	---	7.7	3.27	5.6
54-VP-1	0.20	21	---	---	---	21	3.27	5.6
55-VP-1	0.59	7.7	---	---	---	2.2	3.27	5.6
55A-VP-1	2.0	79	---	---	---	23	3.27	5.6
58A-VP-1	0.32	22	---	---	---	22	3.27	5.6
67A-VP-1	0.12	13	---	---	---	13	3.27	5.6
61A-VP-1	0.19	28	---	---	---	18	3.27	5.6
61A-VP-2	1.2	35	---	---	---	13	3.27	5.6
56A-VP-1	0.58	73	---	---	---	20	3.27	5.6
23-VP-3	1.3	22	---	---	---	22	3.27	5.6

Notes:

¹ See Figure 5-5 for locations of vernal pools.

² EPC is calculated for the top 1 ft of floodplain soil.

Key

= post-remediation EPC is lower than the IMPG

Table 6-34. Summary of IMPGs and pre- and post-remediation EPCs for shrew averaging areas under FP 6.

Averaging Area ID ¹	Area of Averaging Area (acre)	Pre-Remediation EPC ² (mg/kg)	Removal			Post-Remediation EPC ² (mg/kg)	IMPG (mg/kg)	
			Depth (ft)	Volume (cy)	Area (acre)		Lower Bound	Upper Bound
G1	88	22	---	---	---	4.0	21.1	34.3
G2	87	50	---	---	---	5.5	21.1	34.3
G3	86	18	---	---	---	6.9	21.1	34.3
G4	86	27	---	---	---	6.2	21.1	34.3
G5	88	28	---	---	---	6.4	21.1	34.3
G6	87	11	---	---	---	4.5	21.1	34.3
G7	73	17	---	---	---	6.5	21.1	34.3

Notes:

¹ See Figure 5-6 for shrew averaging areas.

² EPC is calculated for the top 1 ft of floodplain soil.

Key


 = post-remediation EPC is lower than the IMPG

Table 6-35. Summary of IMPGs and pre- and post-remediation EPCs for wood duck averaging areas under FP 6.

Averaging Area ID ¹	Reach	Averaging Area (acre)	Pre-Remediation EPC ² (mg/kg)	Removal			Post-Remediation EPC ² (mg/kg)	Floodplain IMPG (mg/kg)		
				Depth (ft)	Volume (cy)	Area (acre)		Sediment Target Level		
								1 mg/kg	3 mg/kg	5 mg/kg
K1	5A	52	34	---	---	---	4.3	50	39	29
K2		63	8.1	---	---	---	4.8	50	39	29
K3		85	40	---	---	---	5.4	50	39	29
K4		60	17	---	---	---	6.4	50	39	29
K5		25	23	---	---	---	8.1	50	39	29
K6	5B	55	25	---	---	---	7.0	48	33	18
K7		47	29	---	---	---	6.5	48	33	18
K8		92	24	---	---	---	5.1	48	33	18
K9	5C/5D	69	25	---	---	---	7.7	53	49	46
K10		83	13	---	---	---	5.2	53	49	46
K11		61	14	---	---	---	6.6	53	49	46
K12	6	28	23	---	---	---	4.9	53	50	46

Notes:

¹ See Figure 5-7 for wood duck averaging areas.

² EPC is calculated for the top 1 ft of floodplain soil.

Key


 = post-remediation EPC is lower than the IMPG

Table 6-36. Summary of IMPGs and pre- and post-remediation EPCs for mink averaging areas under FP 6.

Averaging Area ¹	Area of Averaging Area (acre)	Pre-Remediation EPC ² (mg/kg)	Removal			Post-Remediation EPC ² (mg/kg)	Floodplain IMPG ³ (mg/kg)					
			Depth (ft)	Volume (cy)	Area (acre)		Sediment Target Level					
							1 mg/kg		3 mg/kg		5 mg/kg	
							Lower Bound	Upper Bound	Lower Bound	Upper Bound	Lower Bound	Upper Bound
5A/5B	435	22	---	---	---	5.3	3.4	16.6	n/a	5.12	n/a	n/a
5C/5D/6	291	18	---	---	---	5.1	6.9	19.6	3.0	15.7	n/a	11.8

Notes:

¹ See Figure 5-8 for mink averaging areas.

² EPC is calculated for the top 1 ft of floodplain soil.

³ (n/a) denotes IMPG values not attainable in given reach for the sediment target level.

Key


 = post-remediation EPC is lower than the IMPG

Table 6-37. Summary of IMPGs, pre- and post-remediation EPCs, and removal volumes and acreages for human direct contact exposure areas under FP 7.

Exposure Area ID ¹	Area of Exposure Area (acre) ²	IMPG Scenario	Pre-Remediation EPC (mg/kg) ³	Removal ⁴			Post-Remediation EPC (mg/kg) ³	IMPG ⁵ (mg/kg)								
				Depth (ft)	Volume (cy)	Area (acre)		Cancer Risk @ 10 ⁻⁶			Cancer Risk @ 10 ⁻⁵		Cancer Risk @ 10 ⁻⁴		Non-Cancer	
								RME	RME* ⁶	CTE	RME	CTE	RME	CTE	RME	CTE
1	15	Medium-use general recreation, adult / older child	36	1	9000	5.6	1.4	2.1	2.1	51	21	514	215	5143	40	176
2	27	High-use general recreation, adult / older child	31	1	20000	12	2.0	1.4	2.0	51	14	514	143	5143	27	176
2a	2.3	Low-use general recreation, older child	56	1	2000	1.5	0.47	12	12	103	116	1029	1165	10286	80	353
2b	2.0	High-use general recreation, older child	29	1	300	0.21	3.8	3.9	3.9	51	39	514	388	5143	27	176
3	0.4	High-use general recreation, adult	5.6	1	300	0.18	2.0	1.4	2.0	63	14	630	143	6305	38	234
4	3.2	High-use general recreation, young child (low use)	29	1	400	0.24	1.8	8.0	8.0	37	80	368	802	3684	27	63
5	2.5	High-use general recreation, adult / older child	48	1	2000	1.5	1.6	1.4	2.0	51	14	514	143	5143	27	176
6	3.8	Low-use general recreation, adult	59	1	5000	3.1	1.3	4.3	4.3	126	43	1261	429	12610	115	468
7	5.9	High-use general recreation, adult / older child	21	1	5000	2.8	1.9	1.4	2.0	51	14	514	143	5143	27	176
8	0.60	Recreational canoeist	40	1	200	0.14	1.0	1.2	2.0	13	12	129	121	1286	28	73
9	0.042	Low-use general recreation, older child	27	1	20	0.010	12	12	12	103	116	1029	1165	10286	80	353
10	59	High-use general recreation, young child (high use)	10	1	14000	8.5	2.0	1.3	2.0	18	13	184	134	1842	4.6	32
10a	8.0	High-use general recreation, young child (high use)	18	1	400	0.24	2.0	1.3	2.0	18	13	184	134	1842	4.6	32
11	2.5	High-use general recreation, adult	15	1	2000	1.5	1.9	1.4	2.0	63	14	630	143	6305	38	234
12	4.8	High-use general recreation, young child (low use)	7.0	---	---	---	---	8.0	8.0	37	80	368	802	3684	27	63
13	5.9	High-use general recreation, adult	14	1	3000	1.6	2.0	1.4	2.0	63	14	630	143	6305	38	234
14	4.1	High-use general recreation, adult	2.7	1	1000	0.91	1.6	1.4	2.0	63	14	630	143	6305	38	234
15	0.87	High-use general recreation, adult	2.0	---	---	---	2.0	1.4	2.0	63	14	630	143	6305	38	234
16	2.5	High-use general recreation, adult	22	1	2000	1.5	2.0	1.4	2.0	63	14	630	143	6305	38	234
17	8.5	High-use general recreation, adult	13	1	5000	3.2	2.0	1.4	2.0	63	14	630	143	6305	38	234
18	17	Medium-use general recreation, adult	17	1	6000	3.5	1.6	2.1	2.1	63	21	630	215	6305	58	234
19	36	High-use general recreation, adult	83	1	27000	17	1.7	1.4	2.0	63	14	630	143	6305	38	234
20	9.1	High-use general recreation, adult	31	1	10000	6.4	2.0	1.4	2.0	63	14	630	143	6305	38	234
21	2.9	High-use general recreation, adult / older child	4.9	1	1000	0.67	2.0	1.4	2.0	51	14	514	143	5143	27	176
22	19	High-use general recreation, adult / older child	26	1	18000	11	1.6	1.4	2.0	51	14	514	143	5143	27	176
22a	1.8	Dirt biking/ATVing	88	1	3000	1.7	2.0	2.0	2.0	29	20	290	205	2901	14	99
23	0.28	Medium-use general recreation, older child	12	1	100	0.070	5.4	5.8	5.8	51	58	514	582	5143	40	176
24	10	High-use general recreation, adult	31	1	11000	6.7	1.1	1.4	2.0	63	14	630	143	6305	38	234
25	0.51	High-use general recreation, older child	30	1	500	0.31	3.9	3.9	3.9	51	39	514	388	5143	27	176
26a	48	High-use general recreation, adult / older child	7.2	1	14000	8.5	1.8	1.4	2.0	51	14	514	143	5143	27	176
26b	7.6	Agricultural use (based on direct contact by farmer)	1.7	---	---	---	0.73	1.2	2.0	42	12	419	118	4195	43	348
26_F	55	High-use general recreation, adult / older child	6.3	---	---	---	1.6	1.4	2.0	51	14	514	143	5143	27	176
27	6.3	High-use general recreation, adult / older child	2.4	1	500	0.28	2.0	1.4	2.0	51	14	514	143	5143	27	176
27a	0.38	Dirt biking/ATVing	4.3	1	100	0.080	2.0	2.0	2.0	29	20	290	205	2901	14	99
28	0.21	High-use general recreation, young child (low use)	21	1	100	0.060	8.0	8.0	8.0	37	80	368	802	3684	27	63
28a	0.071	Dirt biking/ATVing	21	1	80	0.050	1.8	2.0	2.0	29	20	290	205	2901	14	99
29	0.34	Low-use general recreation, adult / older child	21	1	200	0.10	2.6	4.3	4.3	103	43	1029	429	10286	80	353
30	0.19	High-use general recreation, adult / older child	13	1	100	0.090	2.0	1.4	2.0	51	14	514	143	5143	27	176
31	5.0	High-use general recreation, adult / older child	14	1	3000	2.0	1.3	1.4	2.0	51	14	514	143	5143	27	176
31a	0.61	High-use general recreation, adult / older child	42	1	300	0.20	2.0	1.4	2.0	51	14	514	143	5143	27	176
32	6.8	High-use general recreation, adult	14	1	2000	1.5	2.0	1.4	2.0	63	14	630	143	6305	38	234
33	30	High-use general recreation, adult	20	1	28000	17	2.0	1.4	2.0	63	14	630	143	6305	38	234
34	7.8	Medium-use general recreation, adult	25	1	9000	5.5	2.0	2.1	2.1	63	21	630	215	6305	58	234
35	25	High-use general recreation, adult / older child	22	1	22000	13	2.0	1.4	2.0	51	14	514	143	5143	27	176
35a	1.2	High-use general recreation, adult / older child	39	1	400	0.22	2.0	1.4	2.0	51	14	514	143	5143	27	176
36a	16	Low-use commercial (groundskeeper scenario)	23	1	6000	3.8	6.4	8.9	8.9	166	89	1664	885	16642	126	571
36b	2.2	Agricultural use (based on direct contact by farmer)	15	1	2000	0.98	2.0	1.2	2.0	42	12	419	118	4195	43	348
37	20	High-use general recreation, adult / older child	17	1	14000	8.7	1.8	1.4	2.0	51	14	514	143	5143	27	176
37a	1.4	Bank fishing	26	1	2000	0.94	1.8	2.6	2.6	52	26	524	256	5237	42	180
37b	2.3	High-use general recreation, adult / older child	25	1	1000	0.66	1.9	1.4	2.0	51	14	514	143	5143	27	176
38	13	High-use general recreation, adult	23	1	10000	5.9	1.2	1.4	2.0	63	14	630	143	6305	38	234

Table 6-37. Summary of IMPGs, pre- and post-remediation EPCs, and removal volumes and acreages for human direct contact exposure areas under FP 7.

Exposure Area ID ¹	Area of Exposure Area (acre) ²	IMPG Scenario	Pre-Remediation EPC (mg/kg) ³	Removal ⁴			Post-Remediation EPC (mg/kg) ³	IMPG ⁵ (mg/kg)								
				Depth (ft)	Volume (cy)	Area (acre)		Cancer Risk @ 10 ⁻⁶			Cancer Risk @ 10 ⁻⁵		Cancer Risk @ 10 ⁻⁴		Non-Cancer	
								RME	RME* ⁶	CTE	RME	CTE	RME	CTE	RME	CTE
38a	1.4	Bank fishing	33	1	2000	1.2	1.5	2.6	2.6	52	26	524	256	5237	42	180
39	3.5	Marathon canoeist	32	1	3000	2.0	1.5	0.78	2.0	5.8	7.8	58	78	575	13	25
40	98	High-use general recreation, young child (low use)	20	1	9000	5.5	4.0	8.0	8.0	37	80	368	802	3684	27	63
40a	4.6	Bank fishing	40	1	5000	3.0	2.5	2.6	2.6	52	26	524	256	5237	42	180
40b	1.1	High-use general recreation, young child (low use)	11	1	90	0.050	8.0	8.0	8.0	37	80	368	802	3684	27	63
41	20	Medium-use general recreation, adult	28	1	17000	11	2.1	2.1	2.1	63	21	630	215	6305	58	234
41a	2.4	Bank fishing	35	1	3000	1.9	2.6	2.6	2.6	52	26	524	256	5237	42	180
42	14	Medium-use general recreation, adult	12	1	9000	5.3	2.1	2.1	2.1	63	21	630	215	6305	58	234
42a	0.94	Bank fishing	14	1	900	0.55	2.6	2.6	2.6	52	26	524	256	5237	42	180
43	1.5	Medium-use general recreation, adult	27	1	1000	0.77	1.5	2.1	2.1	63	21	630	215	6305	58	234
43a	0.24	Bank fishing	64	1	200	0.13	0.11	2.6	2.6	52	26	524	256	5237	42	180
44	2.2	High-use general recreation, adult	24	1	2000	1.4	2.0	1.4	2.0	63	14	630	143	6305	38	234
45	17	High-use general recreation, adult	39	1	15000	9.3	2.0	1.4	2.0	63	14	630	143	6305	38	234
46	7.2	High-use general recreation, adult	8.2	1	2000	1.4	2.0	1.4	2.0	63	14	630	143	6305	38	234
47	1.0	Recreational canoeist	18	1	4	0.0	2.0	1.2	2.0	13	12	129	121	1286	28	73
47_F	0.12	Recreational canoeist	8.1	1	500	0.31	1.3	1.2	2.0	13	12	129	121	1286	28	73
48	6.5	High-use general recreation, adult	3.4	1	1000	0.78	2.0	1.4	2.0	63	14	630	143	6305	38	234
49	7.7	Low-use general recreation, adult	17	1	3000	2.2	4.3	4.3	4.3	126	43	1261	429	12610	115	468
50	69	Low-use general recreation, adult	7.3	1	4000	2.5	4.3	4.3	4.3	126	43	1261	429	12610	115	468
50a	11	Waterfowl hunting	15	1	3000	2.0	6.1	9.0	9.0	75	90	752	904	7518	140	399
51	87	Low-use general recreation, adult	7.2	1	5000	3.4	4.3	4.3	4.3	126	43	1261	429	12610	115	468
51a	32	Waterfowl hunting	13	1	11000	6.6	4.6	9.0	9.0	75	90	752	904	7518	140	399
52	0.9	Recreational canoeist	10	1	400	0.25	2.0	1.2	2.0	13	12	129	121	1286	28	73
53	0.7	Recreational canoeist	34	1	200	0.11	1.6	1.2	2.0	13	12	129	121	1286	28	73
54	13	High-use general recreation, adult	7.1	1	6000	3.5	1.9	1.4	2.0	63	14	630	143	6305	38	234
55	18	High-use general recreation, young child (low use)	11	1	400	0.23	7.6	8.0	8.0	37	80	368	802	3684	27	63
55a	5.0	Waterfowl hunting	47	1	4000	2.4	9.0	9.0	9.0	75	90	752	904	7518	140	399
56	32	Medium-use general recreation, adult / older child	38	1	7000	4.2	2.0	2.1	2.1	51	21	514	215	5143	40	176
56a	10	Waterfowl hunting	49	1	6000	3.6	1.6	9.0	9.0	75	90	752	904	7518	140	399
57	13	High-use general recreation, young child (low use)	5.8	---	---	---	5.6	8.0	8.0	37	80	368	802	3684	27	63
58	1.3	High-use general recreation, adult	65	1	600	0.34	2.0	1.4	2.0	63	14	630	143	6305	38	234
59	1.9	High-use general recreation, young child (low use)	18	1	300	0.21	8.0	8.0	8.0	37	80	368	802	3684	27	63
59a	0.83	Bank fishing	22	1	700	0.43	2.6	2.6	2.6	52	26	524	256	5237	42	180
60	0.84	High-use general recreation, young child (low use)	7.0	---	---	---	7.0	8.0	8.0	37	80	368	802	3684	27	63
60a	0.16	Recreational canoeist	13	1	200	0.11	2.0	1.2	2.0	13	12	129	121	1286	28	73
61	3.3	Utility worker	42	1	2000	1.0	1.8	17	17	209	169	2093	1694	20933	242	718
62	1.6	Utility worker	134	1	500	0.34	6.6	17	17	209	169	2093	1694	20933	242	718
63	0.67	Utility worker	23	1	60	0.040	3.3	17	17	209	169	2093	1694	20933	242	718
64	0.61	Utility worker	42	1	300	0.19	2.7	17	17	209	169	2093	1694	20933	242	718
65	3.9	Utility worker	17	---	---	---	17	17	17	209	169	2093	1694	20933	242	718
66	1.7	Utility worker	23	1	80	0.050	5.8	17	17	209	169	2093	1694	20933	242	718
67	0.31	High-use general recreation, adult	11	1	300	0.16	2.0	1.4	2.0	63	14	630	143	6305	38	234
68	0.090	High-use general recreation, adult	9.0	1	100	0.070	1.1	1.4	2.0	63	14	630	143	6305	38	234
69	1.9	High-use general recreation, adult	7.3	1	1000	0.78	2.0	1.4	2.0	63	14	630	143	6305	38	234
70	19	High-use general recreation, young child (high use)	2.4	1	2000	0.97	2.0	1.3	2.0	18	13	184	134	1842	4.6	32
70a	1.2	Bank fishing	3.8	1	400	0.22	2.6	2.6	2.6	52	26	524	256	5237	42	180
71	1.8	Bank fishing	4.6	1	900	0.59	2.6	2.6	2.6	52	26	524	256	5237	42	180
72	2.3	Bank fishing	10	1	300	0.20	2.6	2.6	2.6	52	26	524	256	5237	42	180
73	3.9	High-use general recreation, adult	0.50	---	---	---	0.50	1.4	2.0	63	14	630	143	6305	38	234
74	5.3	High-use general recreation, adult	5.3	1	400	0.25	2.0	1.4	2.0	63	14	630	143	6305	38	234
75	3.4	High-use general recreation, adult	15	1	1000	0.72	2.0	1.4	2.0	63	14	630	143	6305	38	234

Table 6-37. Summary of IMPGs, pre- and post-remediation EPCs, and removal volumes and acreages for human direct contact exposure areas under FP 7.

Exposure Area ID ¹	Area of Exposure Area (acre) ²	IMPG Scenario	Pre-Remediation EPC (mg/kg) ³	Removal ⁴			Post-Remediation EPC (mg/kg) ³	IMPG ⁵ (mg/kg)								
				Depth (ft)	Volume (cy)	Area (acre)		Cancer Risk @ 10 ⁻⁶			Cancer Risk @ 10 ⁻⁵		Cancer Risk @ 10 ⁻⁴		Non-Cancer	
								RME	RME ^{*6}	CTE	RME	CTE	RME	CTE	RME	CTE
76	1.1	High-use general recreation, adult	0.79	---	---	---	0.79	1.4	2.0	63	14	630	143	6305	38	234
77	4.2	High-use general recreation, adult	0.89	---	---	---	0.89	1.4	2.0	63	14	630	143	6305	38	234
78	6.2	High-use general recreation, older child	5.9	1	200	0.13	3.9	3.9	3.9	51	39	514	388	5143	27	176
79	17	High-use general recreation, adult	2.9	1	3000	1.9	2.0	1.4	2.0	63	14	630	143	6305	38	234
80a	9.5	Low-use general recreation, adult	2.6	---	---	---	2.6	4.3	4.3	126	43	1261	429	12610	115	468
80b	20	Agricultural use (based on direct contact by farmer)	0.76	---	---	---	0.11	1.2	2.0	42	12	419	118	4195	43	348
81	33	Low-use general recreation, adult	2.3	---	---	---	2.3	4.3	4.3	126	43	1261	429	12610	115	468
82	15	Low-use general recreation, adult	3.6	---	---	---	3.6	4.3	4.3	126	43	1261	429	12610	115	468
83	22	High-use commercial (groundskeeper scenario)	1.9	---	---	---	1.9	1.8	2.0	17	18	166	177	1664	25	57
84	8.5	Low-use general recreation, adult	4.3	1	30	0.020	4.2	4.3	4.3	126	43	1261	429	12610	115	468
85a	0.25	Recreational canoeist	7.9	1	300	0.16	2.0	1.2	2.0	13	12	129	121	1286	28	73
85b	10	High-use general recreation, older child	1.7	---	---	---	1.7	3.9	3.9	51	39	514	388	5143	27	176
86	118	High-use commercial (groundskeeper scenario)	2.5	1	18000	11	2.0	1.8	2.0	17	18	166	177	1664	25	57
87	10	High-use general recreation, young child (high use)	9.4	1	16000	9.8	2.0	1.3	2.0	18	13	184	134	1842	4.6	32
87a	0.88	Bank fishing	6.0	1	800	0.51	2.6	2.6	2.6	52	26	524	256	5237	42	180
88	1.1	Medium-use general recreation, older child	13	1	800	0.49	5.8	5.8	5.8	51	58	514	582	5143	40	176
89	4.3	High-use general recreation, adult	6.4	1	4000	2.6	2.0	1.4	2.0	63	14	630	143	6305	38	234
90	8.9	High-use general recreation, adult / older child	6.8	1	10000	6.0	2.0	1.4	2.0	51	14	514	143	5143	27	176
				Subtotal:	446,100	277										
Heavily Used Subareas																
Exposure Area ID ¹	Area of Exposure Area (acre) ²	IMPG Scenario	Pre-Remediation EPC (mg/kg) ³	Removal ⁴			Post-Remediation EPC (mg/kg) ³	IMPG ⁵ (mg/kg)								
				Depth (ft)	Volume (cy)	Area (acre)		Cancer Risk @ 10 ⁻⁶			Cancer Risk @ 10 ⁻⁵		Cancer Risk @ 10 ⁻⁴		Non-Cancer	
								RME	RME ^{*6}	CTE	RME	CTE	RME	CTE	RME	CTE
4	0.71	High-use general recreation, young child (low use)	17	3	400	0.12	4.8	8.0	8.0	37	80	368	802	3684	27	63
12	1.5	High-use general recreation, young child (low use)	9.8	3	800	0.20	6.0	8.0	8.0	37	80	368	802	3684	27	63
26a	2.2	High-use general recreation, adult / older child	1.9	3	400	0.14	0.83	1.4	2.0	51	14	514	143	5143	27	176
39	0.15	Marathon canoeist	54	3	600	0.13	2.0	0.78	2.0	5.8	7.8	58	78	575	13	25
40	5.2	High-use general recreation, young child (low use)	19	3	4000	0.85	0.25	8.0	8.0	37	80	368	802	3684	27	63
47	0.18	Recreational canoeist	6.0	---	---	---	0.71	1.2	2.0	13	12	129	121	1286	28	73
52	0.25	Recreational canoeist	7.0	3	1000	0.22	2.0	1.2	2.0	13	12	129	121	1286	28	73
53	0.35	Recreational canoeist	408	3	1000	0.30	0.74	1.2	2.0	13	12	129	121	1286	28	73
60a	0.16	Recreational canoeist	7.0	3	200	0.070	1.09	1.2	2.0	13	12	129	121	1286	28	73
				Subtotal:	8,700	2										
				Total:	454,800	279										

Notes:

¹ See Figures 5-1 and 5-2 for direct contact exposure areas in Reaches 5 through 8, and Heavily Used Subareas, respectively.

² Area only includes the portion of the exposure area within the 1 mg/kg PCB isopleth (Reaches 5/6) or the 100-year floodplain (Reaches 7/8).

³ EPC is calculated for top 1-ft floodplain soil, except in Heavily Used Subareas where it is calculated for top 3-ft floodplain soil.

⁴ As stated in Section 5.4.4, the total and subtotal volumes shown are consistent with those described in the text, but due to roundoff for the individual averaging areas, do not always agree with the sum of the individual averaging areas.

⁵ For scenarios containing more than one receptor (e.g. adult and older child), the lowest IMPG was utilized in the comparison to post-remediation EPCs. The lowest IMPG value for which the alternative was designed to achieve is shown in bold.

⁶ Same as 10⁻⁶ RME IMPGs, with no values less than 2 mg/kg, for which this alternative was designed to achieve.

Key

= post-remediation EPC is lower than the IMPG

Table 6-38. Summary of IMPGs, pre- and post-remediation EPCs, and removal volumes and acreages for agricultural products consumption areas under FP 7.

Farm ID ¹	Area of farm (acre) ²	IMPG Scenario	Pre-Remediation EPC ³ (mg/kg)	Removal ⁴			Post-Remediation EPC ³ (mg/kg)	IMPG ⁵ (mg/kg)									
				Depth (ft)	Volume (cy)	Area (acres)		Cancer Risk @ 10 ⁻⁶		Cancer Risk @ 10 ⁻⁵		Cancer Risk @ 10 ⁻⁴		Non-Cancer (Child)		Non-Cancer (Adult)	
								RME	CTE	RME	CTE	RME	CTE	RME	CTE	RME	CTE
FA 1	8.0	Commercial Dairy	1.6	1	1000	0.81	0.68	0.68	3.1	6.8	31	68	312	7.7	12.2	36.4	44.3
FA 2	3.3		13	1	1000	0.75	0.55	0.55	2.5	5.5	25	55	253	6.2	9.9	29.4	35.9
FA 3	4.1		0.20	---	---	---	0.20	0.29	1.3	2.9	13	29	132	3.2	5.2	15.4	18.7
FA 4	64		0.38	---	29000	18	0.23	0.24	1.1	2.4	11	24	110	2.7	4.3	12.8	15.6
FA 5	12		0.25	1	6000	3.5	0.24	0.24	1.1	2.4	11	24	110	2.7	4.3	12.8	15.6
FA 6	8		0.25	1	9000	5.7	0.13	0.24	1.1	2.4	11	24	110	2.7	4.3	12.8	15.6
FA 7	24		0.25	1	4000	2.3	0.22	0.24	1.1	2.4	11	24	110	2.7	4.3	12.8	15.6
FA 8	9.4		0.19	---	---	---	0.19	0.34	1.5	3.4	15	34	154	3.8	6.0	17.9	21.8
FA 9	26		0.89	1	8000	5.0	0.31	0.31	1.4	3.1	14	31	143	3.5	5.6	16.6	20.3
FA 10	0.3		0.50	---	---	---	0.50	2.06	9.5	21	95	206	946	23.2	37.0	110.1	134.2
FA 11	0.14		0.25	---	---	---	0.25	6.10	27.9	61	279	610	2794	68.6	109.2	325.1	396.2
FA 12	8.0		0.25	---	---	---	0.25	0.38	1.8	3.8	18	38	176	4.3	6.9	20.5	25.0
FA 13	4.0		0.25	---	7000	4.0	0.021	0.24	1.1	2.4	11	24	110	2.7	4.3	12.8	15.6
FA 14	2.6		0.30	---	---	---	0.30	0.55	2.5	5.5	25	55	253	6.2	9.9	29.4	35.9
				Total:	65,000	40											

Notes:

¹ See Figure 5-4 for farm areas in Reaches 5 through 8.

² Farm area only includes the portion within the 1 mg/kg PCB isopleth (Reaches 5/6) or the 100-year floodplain (Reaches 7/8).

³ EPC is calculated for the top 1 ft of floodplain soil.

⁴ As stated in Section 5.4.4, the total and subtotal volumes shown are consistent with those described in the text, but due to roundoff for the individual averaging areas, do not always agree with the sum of the individual averaging areas.

⁵ IMPG values for agricultural products consumption include a multiplier to account for the areas outside the 1 mg/kg PCB isopleth/100-year floodplain (see Table 5-2). The lowest IMPG value for which the alternative was designed to achieve is shown in bold.

Key

= post-remediation EPC is lower than the IMPG

Table 6-39. Summary of IMPGs, pre- and post-remediation EPCs, and removal volumes and acreages for wood frog averaging areas (vernal pools) under FP 7.

Vernal Pool ID ¹	Area of Vernal Pool (acre)	Pre-Remediation EPC ² (mg/kg)	Removal ³			Post-Remediation EPC ² (mg/kg)	IMPG ⁴ (mg/kg)	
			Depth (ft)	Volume (cy)	Area (acre)		Lower Bound	Upper Bound
5-VP-3	1.9	29	1	2000	1.2	3.27	3.27	5.6
5-VP-1	0.044	1.7	---	---	---	1.7	3.27	5.6
8-VP-5	0.043	26	1	60	0.040	0.45	3.27	5.6
8-VP-4	0.24	3.9	1	20	0.010	3.27	3.27	5.6
8-VP-3	0.02	7.7	1	40	0.020	0.021	3.27	5.6
8-VP-2	0.57	66	1	30	0.020	3.1	3.27	5.6
18-VP-2	0.61	7.2	1	60	0.040	3.27	3.27	5.6
18-VP-1	0.28	7.9	1	90	0.060	3.27	3.27	5.6
19-VP-7	0.068	0.80	---	---	---	0.80	3.27	5.6
19-VP-2	0.0080	34	---	---	---	0.021	3.27	5.6
19-VP-1	0.18	23	1	200	0.14	1.8	3.27	5.6
19-VP-3	0.031	10	1	50	0.030	2.8	3.27	5.6
19-VP-4	0.094	5.6	1	50	0.030	3.27	3.27	5.6
19-VP-8	0.057	91	---	---	---	0.021	3.27	5.6
19-VP-5	0.51	26	1	600	0.35	3.27	3.27	5.6
19-VP-6	1.2	22	1	700	0.42	3.27	3.27	5.6
23-VP-2	0.18	46	1	200	0.10	3.27	3.27	5.6
23-VP-1	0.30	62	---	---	---	0.021	3.27	5.6
23A-VP-1	0.45	26	1	600	0.39	2.4	3.27	5.6
23B-VP-1	0.068	26	1	50	0.030	0.15	3.27	5.6
23B-VP-2	0.091	0.34	---	---	---	0.34	3.27	5.6
27B-VP-2	0.28	11	1	200	0.10	3.27	3.27	5.6
27B-VP-3	0.062	16	---	---	---	0.021	3.27	5.6
27B-VP-1	0.072	12	1	60	0.040	3.27	3.27	5.6
27-VP-2	0.47	21	1	300	0.16	3.27	3.27	5.6
27A-VP-1	0.20	31	1	300	0.16	3.27	3.27	5.6
27-VP-1	1.3	23	1	900	0.57	3.27	3.27	5.6
26-VP-1	0.036	40	1	40	0.030	1.4	3.27	5.6
33-VP-1	0.022	10	---	---	---	0.021	3.27	5.6
33-VP-2	0.12	65	---	---	---	0.78	3.27	5.6
38-VP-1	0.43	34	1	200	0.11	3.27	3.27	5.6
38A-VP-1	0.020	5.0	1	30	0.020	0.021	3.27	5.6
38-VP-3	0.046	28	1	40	0.020	0.021	3.27	5.6
38-VP-2	0.17	28	1	200	0.10	3.27	3.27	5.6
40-VP-3	0.46	59	1	100	0.070	3.1	3.27	5.6
40-VP-2	0.36	17	1	400	0.23	3.27	3.27	5.6
40A-VP-1	0.11	68	1	200	0.10	3.27	3.27	5.6
40-VP-1	0.47	58	1	70	0.040	3.27	3.27	5.6
42-VP-1	0.22	63	1	10	0.010	1.4	3.27	5.6
42-VP-2	0.28	45	1	400	0.27	2.6	3.27	5.6
42-VP-3	0.050	41	1	70	0.040	0.021	3.27	5.6
42-VP-5	0.58	61	1	500	0.29	3.27	3.27	5.6
42-VP-4	1.0	33	1	1000	0.67	3.27	3.27	5.6
42A-VP-1	1.5	31	1	2000	1.1	3.27	3.27	5.6
46-VP-2	7.1	20	1	1000	0.66	2.6	3.27	5.6
46-VP-1	0.52	51	1	60	0.040	3.27	3.27	5.6
46-VP-5	0.056	123	1	20	0.050	0.021	3.27	5.6
46-VP-3	1.4	67	1	700	0.46	0.87	3.27	5.6
46-VP-4	0.011	125	---	---	---	0.021	3.27	5.6
49A-VP-1	0.019	16	1	7.	0.0	0.021	3.27	5.6
49-VP-1	1.2	18	1	900	0.57	3.27	3.27	5.6
49B-VP-1	0.0044	26	---	---	---	0.021	3.27	5.6
66A-VP-1	0.032	0.70	---	---	---	0.70	3.27	5.6
69-VP-1	0.0074	12	1	10	0.010	0.021	3.27	5.6
8-VP-6	0.086	47	---	---	---	0.021	3.27	5.6
12-VP-1	0.080	8.0	1	30	0.020	2.5	3.27	5.6
39-VP-1	2.0	32	1	2000	1.5	2.3	3.27	5.6
54-VP-1	0.20	21	1	300	0.17	3.0	3.27	5.6
55-VP-1	0.59	7.7	1	4.	0.0	3.27	3.27	5.6
55A-VP-1	2.0	79	1	2000	1.0	3.2	3.27	5.6
58A-VP-1	0.32	22	1	400	0.22	3.27	3.27	5.6
67A-VP-1	0.12	13	1	200	0.12	0.021	3.27	5.6
61A-VP-1	0.19	28	1	10	0.010	1.5	3.27	5.6
61A-VP-2	1.2	35	1	1000	0.61	3.0	3.27	5.6
56A-VP-1	0.58	73	1	800	0.48	0.85	3.27	5.6
23-VP-3	1.3	22	1	1000	0.73	3.0	3.27	5.6
Total:				22,000	14			

Notes:

¹ See Figure 5-5 for locations of vernal pools.

² EPC is calculated for the top 1 ft of floodplain soil.

³ As stated in Section 5.4.4, the total and subtotal volumes shown are consistent with those described in the text, but due to roundoff for the individual averaging areas, do not always agree with the sum of the individual averaging areas.

⁴ The IMPG value for which the alternative was designed to achieve is shown in bold.

Key

= post-remediation EPC is lower than the IMPG

Table 6-40. Summary of IMPGs, pre- and post-remediation EPCs, and removal volumes and acreages for shrew averaging areas under FP 7.

Averaging Area ID ¹	Area of Averaging Area (acre)	Pre-Remediation EPC ² (mg/kg)	Removal ³			Post-Remediation EPC ² (mg/kg)	IMPG ⁴ (mg/kg)	
			Depth (ft)	Volume (cy)	Area (acre)		Lower Bound	Upper Bound
G1	88	22	---	---	---	2.4	21.1	34.3
G2	87	50	---	---	---	2.6	21.1	34.3
G3	86	18	---	---	---	3.3	21.1	34.3
G4	86	27	---	---	---	4.9	21.1	34.3
G5	88	28	---	---	---	7.8	21.1	34.3
G6	87	11	---	---	---	7.1	21.1	34.3
G7	73	17	---	---	---	7.9	21.1	34.3
Total:			0	0	0			

Notes:

¹ See Figure 5-6 for shrew averaging areas.

² EPC is calculated for the top 1 ft of floodplain soil.

³ As stated in Section 5.4.4, the total and subtotal volumes shown are consistent with those described in the text, but due to roundoff for the individual averaging areas, do not always agree with the sum of the individual averaging areas.

⁴ The IMPG value for which the alternative was designed to achieve is shown in bold.

Key


 = post-remediation EPC is lower than the IMPG

Table 6-41. Summary of IMPGs, pre- and post-remediation EPCs, and removal volumes and acreages for wood duck averaging areas under FP 7.

Averaging Area ID ¹	Reach	Averaging Area (acre)	Pre-Remediation EPC ² (mg/kg)	Removal ³			Post-Remediation EPC ² (mg/kg)	Floodplain IMPG ⁴ (mg/kg)		
				Depth (ft)	Volume (cy)	Area (acre)		Sediment Target Level		
								1 mg/kg	3 mg/kg	5 mg/kg
K1	5A	52	34	---	---	---	2.5	50	39	29
K2		63	8.1	---	---	---	3.0	50	39	29
K3		85	40	---	---	---	2.3	50	39	29
K4		60	17	---	---	---	4.8	50	39	29
K5		25	23	---	---	---	4.3	50	39	29
K6	5B	55	25	---	---	---	5.6	48	33	18
K7		47	29	---	---	---	4.8	48	33	18
K8		92	24	---	---	---	4.8	48	33	18
K9	5C/5D	69	25	---	---	---	9.7	53	49	46
K10		83	13	---	---	---	7.5	53	49	46
K11		61	14	---	---	---	7.2	53	49	46
K12	6	28	23	---	---	---	8.8	53	50	46
				Total:	0	0				

Notes:

¹ See Figure 5-7 for wood duck averaging areas.

² EPC is calculated for the top 1 ft of floodplain soil.

³ As stated in Section 5.4.4, the total and subtotal volumes shown are consistent with those described in the text, but due to roundoff for the individual averaging areas, do not always agree with the sum of the individual averaging areas.

⁴ The IMPG value for which the alternative was designed to achieve is shown in bold.

Key


 = post-remediation EPC is lower than the IMPG

Table 6-42. Summary of IMPGs, pre- and post-remediation EPCs, and removal volumes and acreages for mink averaging areas under FP 7.

Averaging Area ¹	Area of Averaging Area (acre)	Pre-Remediation EPC ² (mg/kg)	Removal ³			Post-Remediation EPC ² (mg/kg)	Floodplain IMPG ⁴ (mg/kg)					
			Depth (ft)	Volume (cy)	Area (acre)		Sediment Target Level					
							1 mg/kg		3 mg/kg		5 mg/kg	
							Lower Bound	Upper Bound	Lower Bound	Upper Bound	Lower Bound	Upper Bound
5A/5B	435	22	1	21000	13	3.4	3.4	16.6	n/a	5.12	n/a	n/a
5C/5D/6	291	18	1	7000	4.1	6.9	6.9	19.6	3.0	15.7	n/a	11.8
Total:				28,000	17							

Notes:

¹ See Figure 5-8 for mink averaging areas.

² EPC is calculated for the top 1 ft of floodplain soil.

³ As stated in Section 5.4.4, the total and subtotal volumes shown are consistent with those described in the text, but due to roundoff for the individual averaging areas, do not always agree with the sum of the individual averaging areas.

⁴ (n/a) denotes IMPG values not attainable in given reach for the sediment target level. The IMPG value for which the alternative was designed to achieve is shown in bold.

Key

= post-remediation EPC is lower than the IMPG