Table 8-7a. Evaluation of attainment of RME IMPGs for human direct contact exposure areas for combined SED/FP scenarios.

Exposure Area ID[1]	Area of Exposure Area (acre)[2]	Exposure Scenario	Floodplain Pre-Remediation EPC (mg/kg)[3]	Floodplain Post-Remediation EPC (mg/kg) / Projected Sediment Concentrations (mg/kg)							10^{-6} Cancer Risk (RME)								10^{-5} Cancer Risk (RME)								10^{-4} Cancer Risk (RME)								Non-cancer (RME)							
				SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	IMPG (mg/kg)[4,5]	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	IMPG (mg/kg)[4]	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	IMPG (mg/kg)[4]	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	IMPG (mg/kg)[4]	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9
Floodplain Human Direct Contact Areas																																								
1	15	Medium-use general recreation, adult / older child	32	32	23	21	21	1.6	6.3	32	2.1								21								215								40							
2	27	High-use general recreation, adult / older child	25	25	20	14	14	1.9	14	25	2.0								14								143								27							
2a	2.3	Low-use general recreation, older child	52	52	42	21	21	1.5	21	51	12								116								1165								80							
2b	2.0	High-use general recreation, older child	31	31	27	27	27	3.8	27	27	3.9								39								388								27							
3	0.38	High-use general recreation, adult	7.8	7.8	7.8	7.8	7.8	2.0	7.8	7.8	2.0								14								143								38							
4	3.2	High-use general recreation, adult / older child / young child (low use)	27	27	14	14	14	1.6	14	26	2.0								14								143								27							
5	2.5	High-use general recreation, adult / older child	58	58	25	14	14	2.0	14	27	2.0								14								143								27							
6	3.8	Low-use general recreation, adult	75	75	28	28	28	1.3	25	75	4.3								43								429								115							
7	5.9	High-use general recreation, adult / older child	25	25	25	14	14	2.0	14	25	2.0								14								143								27							
8	0.60	Recreational canoeist	40	40	28	12	12	2.0	12	28	2.0								12								121								28							
9	0.042	Low-use general recreation, older child	27	27	27	27	27	12	27	27	12								116								1165								80							
10	59	High-use general recreation, adult / young child (high use)	10	10	4.6	4.6	4.6	2.0	4.6	4.6	2.0								13								134								4.6							
10a	8.0	High-use general recreation, adult / young child (high use)	22	22	4.5	4.5	4.5	2.0	4.5	4.5	2.0								13								134								4.6							
11	2.5	High-use general recreation, adult	18	18	18	14	14	2.0	14	18	2.0								14								143								38							
12	4.8	High-use general recreation, adult / older child / young child (low use)	14	14	14	5.3	5.3	1.6	5.3	14	2.0								14								143								27							
13	5.9	High-use general recreation, adult	28	28	27	13	13	2.0	13	28	2.0								14								143								38							
14	4.1	High-use general recreation, adult	2.7	2.7	2.6	2.6	2.6	1.6	2.6	2.7	2.0								14								143								38							
15	0.87	High-use general recreation, adult	2.2	2.2	2.2	2.2	2.2	2.0	2.2	2.2	2.0								14								143								38							
16	2.5	High-use general recreation, adult	41	41	38	14	14	2.0	14	38	2.0								14								143								38							
17	8.5	High-use general recreation, adult	15	15	15	14	14	2.0	14	15	2.0								14								143								38							
18	17	Medium-use general recreation, adult	46	46	46	21	21	2.1	19	46	2.1								21								215								58							
19	36	High-use general recreation, adult	83	83	20	14	14	1.6	14	38	2.0								14								143								38							
20	9.1	High-use general recreation, adult	34	34	22	14	14	2.0	9.0	34	2.0								14								143								38							
21	2.9	High-use general recreation, adult / older child	5.7	5.7	5.1	5.7	5.7	2.0	5.0	5.7	2.0								14								143								27							
22	19	High-use general recreation, adult / older child	28	28	23	14	14	1.5	13	26	2.0								14								143								27							
22a	1.8	Dirt biking/ATVing	93	93	8.2	8.2	8.2	2.0	8.2	8.2	2.0								20								205								14							
23	0.28	Medium-use general recreation, older child	11	11	11	11	11	5.8	10	11	5.8								58								582								40							
24	10	High-use general recreation, adult	31	31	26	13	13	1.3	12	31	2.0								14								143								38							
25	0.51	High-use general recreation, older child	30	30	27	27	27	3.9	16	27	3.9								39								388								27							
26a	48	High-use general recreation, adult / older child	7.0	7.0	6.9	6.9	6.9	1.9	6.9	7.0	2.0								14								143								27							
26b	7.6	Agricultural use (based on direct contact by farmer)	1.3	1.3	1.3	1.3	1.3	0.68	1.3	1.3	2.0								12								118								43							
26_F	55	High-use general recreation, adult / older child	6.1	6.1	6.0	6.0	6.0	1.7	6.0	6.1	2.0								14								143								27							
27	6.3	High-use general recreation, adult / older child	2.5	2.5	2.5	2.5	2.5	2.0	2.5	2.5	2.0								14								143								27							
27a	0.38	Dirt biking/ATVing	4.3	4.3	4.3	4.3	4.3	2.0	4.3	4.3	2.0								20								205								14							
28	0.21	High-use general recreation, adult / older child / young child (low use)	21	21	21	13	13	2.0	13	21	2.0								14								143								27							
28a	0.071	Dirt biking/ATVing	21	21	4.3	4.3	4.3	2.0	4.3	4.3	2.0								20								205								14							
29	0.34	Low-use general recreation, adult / older child	21	21	21	21	21	4.3	21	21	4.3								43								429								80							
30	0.19	High-use general recreation, adult / older child	18	18	18	14	14	2.0	14	18	2.0								14								143								27							
31	5.0	High-use general recreation, adult / older child	18	18	17	14	14	2.0	14	17	2.0								14								143								27							
31a	0.61	High-use general recreation, adult / older child	42	42	25	3.9	3.9	2.0	3.9	25	2.0								14								143								27							
32	6.8	High-use general recreation, adult	50	50	38	14	14	2.0	14	38	2.0								14								143								38							
33	30	High-use general recreation, adult	21	21	19	14	14	2.0	14	21	2.0								14								143								38							
34	7.8	Medium-use general recreation, adult	27	27	27	21	21	2.1	18	27	2.1								21								215								58							
35	25	High-use general recreation, adult / older child	22	22	22	14	14	2.0	14	22	2.0								14								143								27							
35a	1.2	High-use general recreation, adult / older child	44	44	13	4.4	4.4	2.0	4.4	27	2.0								14								143								27							
36a	16	Low-use commercial (groundskeeper scenario)	25	25	24	24	24	8.0	24	25	8.9								89								885								126							
36b	2.2	Agricultural use (based on direct contact by farmer)	15	15	15	12	12	2.0	12	15	2.0								12								118								43							
37	20	High-use general recreation, adult / older child	18	18	16	13	13	1.7	12	18	2.0								14								143								27							

Table 8-7a. Evaluation of attainment of RME IMPGs for human direct contact exposure areas for combined SED/FP scenarios.

Exposure Area ID[1]	Area of Exposure Area (acre)[2]	Exposure Scenario	Floodplain Pre-Remediation EPC (mg/kg)[3]	Floodplain Post-Remediation EPC (mg/kg) / Projected Sediment Concentrations (mg/kg)							10^{-6} Cancer Risk (RME)								10^{-5} Cancer Risk (RME)								10^{-4} Cancer Risk (RME)								Non-cancer (RME)							
				SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	IMPG (mg/kg)[4,5]	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	IMPG (mg/kg)[4]	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	IMPG (mg/kg)[4]	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	IMPG (mg/kg)[4]	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9
37a	1.4	Bank fishing	61	61	26	26	26	2.6	26	42	2.6								26								256								42							
37b	2.3	High-use general recreation, adult / older child	27	27	4.3	6.7	6.7	2.0	4.3	24	2.0								14								143								27							
38	13	High-use general recreation, adult	23	23	22	14	14	1.6	14	22	2.0								14								143								38							
38a	1.4	Bank fishing	71	71	42	18	18	2.6	18	42	2.6								26								256								42							
39	3.5	Marathon canoeist	30	30	6.8	6.8	6.8	2.0	6.3	13	2.0								7.8								78								13							
40	98	High-use general recreation, adult / young child (low use)	19	19	13	13	13	1.5	4.9	19	2.0								14								143								27							
40a	4.6	Bank fishing	120	120	42	25	25	2.6	22	42	2.6								26								256								42							
40b	1.1	High-use general recreation, adult / young child (low use)	11	11	11	11	11	2.0	11	11	2.0								14								143								27							
41	20	Medium-use general recreation, adult	27	27	24	21	21	1.8	20	26	2.1								21								215								58							
41a	2.4	Bank fishing	53	53	39	26	26	2.6	25	42	2.6								26								256								42							
42	14	Medium-use general recreation, adult	32	32	32	21	21	2.1	21	32	2.1								21								215								58							
42a	0.94	Bank fishing	25	25	25	25	25	2.6	25	25	2.6								26								256								42							
43	1.5	Medium-use general recreation, adult	27	27	27	14	14	2.1	6.3	27	2.1								21								215								58							
43a	0.24	Bank fishing	69	69	32	25	25	2.6	6.7	32	2.6								26								256								42							
44	2.2	High-use general recreation, adult	27	27	27	14	14	2.0	14	27	2.0								14								143								38							
45	17	High-use general recreation, adult	40	40	38	14	14	2.0	11	38	2.0								14								143								38							
46	7.2	High-use general recreation, adult	9.2	9.2	9.1	9.1	9.1	2.0	8.7	9.2	2.0								14								143								38							
47	1.0	Recreational canoeist	18	18	12	12	12	2.0	12	18	2.0								12								121								28							
47_F	0.12	Recreational canoeist	8.0	8.0	8.0	8.0	8.0	2.0	8.0	8.0	2.0								12								121								28							
48	6.5	High-use general recreation, adult	3.4	3.4	3.4	3.4	3.4	2.0	3.4	3.4	2.0								14								143								38							
49	7.7	Low-use general recreation, adult	63	63	63	43	43	4.3	33	63	4.3								43								429								115							
50	69	Low-use general recreation, adult	7.4	7.4	7.4	7.4	7.4	4.3	5.9	7.4	4.3								43								429								115							
50a	11	Waterfowl hunting	21	21	17	17	17	7.5	15	21	9.0								90								904								140							
51	87	Low-use general recreation, adult	7.1	7.1	7.1	7.1	7.1	4.3	6.7	7.1	4.3								43								429								115							
51a	32	Waterfowl hunting	23	23	23	23	23	8.4	20	23	9.0								90								904								140							
52	0.9	Recreational canoeist	6.5	6.5	5.9	5.9	5.9	2.0	5.9	6.5	2.0								12								121								28							
53	0.7	Recreational canoeist	18	18	11	11	11	2.0	6.1	15	2.0								12								121								28							
54	13	High-use general recreation, adult	6.5	6.5	6.3	6.3	6.3	1.9	5.0	6.5	2.0								14								143								38							
55	18	High-use general recreation, adult / young child (low use)	11	11	11	11	11	2.0	11	11	2.0								14								143								27							
55a	5.0	Waterfowl hunting	42	42	42	42	42	8.6	42	42	9.0								90								904								140							
56	32	Medium-use general recreation, adult / older child	37	37	37	21	21	2.1	21	37	2.1								21								215								40							
56a	10	Waterfowl hunting	51	51	51	45	45	9.0	45	51	9.0								90								904								140							
57	13	High-use general recreation, adult / young child (low use)	5.8	5.8	5.7	5.7	5.7	2.0	5.6	5.8	2.0								14								143								27							
58	1.3	High-use general recreation, adult	65	65	12	12	12	2.0	3.6	37	2.0								14								143								38							
59	1.9	High-use general recreation, adult / young child (low use)	18	18	14	14	14	2.0	14	18	2.0								14								143								27							
59a	0.83	Bank fishing	23	23	18	18	18	2.6	18	23	2.6								26								256								42							
60	0.84	High-use general recreation, adult / young child (low use)	7.4	7.4	7.4	7.4	7.4	2.0	7.4	7.4	2.0								14								143								27							
60a	0.16	Recreational canoeist	13	13	12	12	12	0.95	12	13	2.0								12								121								28							
61	3.3	Utility worker	42	42	27	23	23	0.77	23	42	17								169								1694								242							
62	1.6	Utility worker	280	280	68	37	37	5.4	37	68	17								169								1694								242							
63	0.67	Utility worker	84	84	65	24	24	8.6	24	84	17								169								1694								242							
64	0.61	Utility worker	42	42	25	3.9	3.9	1.5	3.9	25	17								169								1694								242							
65	3.9	Utility worker	18	18	17	17	17	17	17	18	17								169								1694								242							
66	1.7	Utility worker	25	25	12	11	11	5.6	11	24	17								169								1694								242							
67	0.31	High-use general recreation, adult	11	11	11	11	11	2.0	11	11	2.0								14								143								38							
68	0.090	High-use general recreation, adult	9.1	9.1	9.1	9.1	9.1	2.0	9.1	9.1	2.0								14								143								38							
69	1.9	High-use general recreation, adult	9.9	9.9	9.9	9.9	9.9	2.0	9.9	9.9	2.0								14								143								38							
70	19	High-use general recreation, adult / young child (high use)	3.1	3.1	3.1	3.1	3.1	2.0	2.9	3.1	2.0								13								134								4.6							
70a	1.2	Bank fishing	5.8	5.8	5.8	5.8	5.8	2.6	5.8	5.8	2.6								26								256								42							

Table 8-7a. Evaluation of attainment of RME IMPGs for human direct contact exposure areas for combined SED/FP scenarios.

Exposure Area ID[1]	Area of Exposure Area (acre)[2]	Exposure Scenario	Floodplain Pre-Remediation EPC (mg/kg)[3]	Floodplain Post-Remediation EPC (mg/kg) / Projected Sediment Concentrations (mg/kg)							10^{-6} Cancer Risk (RME)								10^{-5} Cancer Risk (RME)								10^{-4} Cancer Risk (RME)								Non-cancer (RME)							
				SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	IMPG (mg/kg)[4,5]	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	IMPG (mg/kg)[4]	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	IMPG (mg/kg)[4]	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	IMPG (mg/kg)[4]	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9
71	1.8	Bank fishing	5.5	5.5	5.5	5.5	5.5	2.6	5.5	5.5	2.6								26								256								42							
72	2.3	Bank fishing	11	11	11	11	11	2.6	11	11	2.6								26								256								42							
73	3.9	High-use general recreation, adult	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	2.0								14								143								38							
74	5.3	High-use general recreation, adult	5.4	5.4	5.4	5.4	5.4	2.0	5.4	5.4	2.0								14								143								38							
75	3.4	High-use general recreation, adult	15	15	15	14	14	2.0	14	15	2.0								14								143								38							
76	1.1	High-use general recreation, adult	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	2.0								14								143								38							
77	4.2	High-use general recreation, adult	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.0								14								143								38							
78	6.2	High-use general recreation, older child	3.9	3.9	3.9	3.9	3.9	3.8	3.9	3.9	3.9								39								388								27							
79	17	High-use general recreation, adult	3.1	3.1	3.1	3.1	3.1	2.0	3.1	3.1	2.0								14								143								38							
80a	9.5	Low-use general recreation, adult	7.7	7.7	7.7	7.7	7.7	3.9	7.7	7.7	4.3								43								429								115							
80b	20	Agricultural use (based on direct contact by farmer)	0.77	0.77	0.77	0.77	0.77	0.12	0.77	0.77	2.0								12								118								43							
81	33	Low-use general recreation, adult	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.3								43								429								115							
82	15	Low-use general recreation, adult	7.7	7.7	7.7	7.7	7.7	4.3	7.7	7.7	4.3								43								429								115							
83	22	High-use commercial (groundskeeper scenario)	6.5	6.5	6.5	6.5	6.5	2.0	6.5	6.5	2.0								18								177								25							
84	8.5	Low-use general recreation, adult	4.7	4.7	4.7	4.7	4.7	4.3	4.7	4.7	4.3								43								429								115							
85a	0.25	Recreational canoeist	8.5	8.5	8.5	8.5	8.5	2.0	8.5	8.5	2.0								12								121								28							
85b	10	High-use general recreation, older child	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.9								39								388								27							
86	118	High-use commercial (groundskeeper scenario)	2.5	2.5	2.5	2.5	2.5	2.0	2.5	2.5	2.0								18								177								25							
87	10	High-use general recreation, adult / young child (high use)	15	15	4.6	4.6	4.6	2.0	4.6	4.6	2.0								13								134								4.6							
87a	0.88	Bank fishing	9.1	9.1	6.6	6.6	6.6	2.6	6.6	6.6	2.6								26								256								42							
88	1.1	Medium-use general recreation, older child	13	13	13	13	13	5.8	13	13	5.8								58								582								40							
89	4.3	High-use general recreation, adult	6.3	6.3	6.3	6.3	6.3	2.0	6.3	6.3	2.0								14								143								38							
90	8.9	High-use general recreation, adult / older child	6.1	6.1	6.1	6.1	6.1	2.0	6.1	6.1	2.0								14								143								27							
Floodplain Direct Contact (Heavily Used Subareas)																																									
4	0.71	High-use general recreation, adult / older child / young child (low use)	67	67	9.3	9.3	9.3	0.64	9.3	21	2.0								14								143								27							
12	1.5	High-use general recreation, adult / older child / young child (low use)	15	15	11	11	11	1.3	11	11	2.0								14								143								27							
26a	2.2	High-use general recreation, adult / older child	1.9	1.9	1.9	1.9	1.9	0.27	1.9	1.9	2.0								14								143								27							
37b	0.31	High-use general recreation, adult / older child	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	2.0								14								143								27							
39	0.15	Marathon canoeist	52	52	4.9	4.9	4.9	2.0	4.9	8.6	2.0								7.8								78								13							
40	5.2	High-use general recreation, adult / young child (low use)	90	90	3.5	3.5	3.5	1.4	3.5	27	2.0								14								143								27							
47	0.18	Recreational canoeist	6.4	6.4	0.62	0.62	0.62	0.62	0.61	6.4	2.0								12								121								28							
52	0.25	Recreational canoeist	6.6	6.6	4.4	4.4	4.4	2.0	4.4	6.6	2.0								12								121								28							
53	0.35	Recreational canoeist	408	408	5.3	5.3	5.3	0.80	5.2	8.3	2.0								12								121								28							
58	0.16	High-use general recreation, adult	22	22	0.59	0.59	0.59	0.59	0.59	22	2.0								14								143								38							
59	0.15	High-use general recreation, adult / young child (low use)	28	28	1.8	1.8	1.8	0.70	1.8	8.1	2.0								14								143								27							
60a	0.16	Recreational canoeist	7.4	7.4	7.2	7.2	7.2	0.84	7.2	7.4	2.0								12								121								28							

Table 8-7a. Evaluation of attainment of RME IMPGs for human direct contact exposure areas for combined SED/FP scenarios.

Exposure Area ID [1]	Area of Exposure Area (acre) [2]	Exposure Scenario	Floodplain Pre-Remediation EPC (mg/kg) [3]	Floodplain Post-Remediation EPC (mg/kg) / Projected Sediment Concentrations (mg/kg)							10^{-6} Cancer Risk (RME)								10^{-5} Cancer Risk (RME)								10^{-4} Cancer Risk (RME)								Non-cancer (RME)							
				SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	IMPG (mg/kg) [4,5]	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	IMPG (mg/kg) [4]	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	IMPG (mg/kg) [4]	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	IMPG (mg/kg) [4]	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9
Sediment Human Direct Contact																																								
SA 1	57	Sediment exposure, adult / older child	---	12	1.6	0.057	0.054	0.076	0.16	7.0	1.3	>250	96	9	9	13	5	>250	13	35	2	2	2	3	2	2	135	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0
SA 2	133	Sediment exposure, adult / older child	---	16	8.7	0.20	0.17	0.10	0.16	16	1.3	>250	>250	15	16	27	10	>250	13	86	11	14	14	23	8	83	135	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0
SA 3	11	Sediment exposure, adult / older child	---	23	1.7	0.21	0.24	0.17	0.15	11	1.3	>250	92	18	19	38	12	>250	13	120	10	17	17	29	10	37	135	0	0	0	0	0	0	0	31	22	9	15	16	21	7	5
SA 4	2.0	Sediment exposure, adult / older child	---	3.4	3.2	3.2	1.2	0.038	0.18	3.4	1.3	>250	>250	>250	19	40	12	>250	13	0	0	0	0	0	0	0	135	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0
SA 5	3.2	Sediment exposure, adult / older child	---	4.2	4.1	4.1	0.10	0.044	0.021	4.1	1.3	>250	>250	>250	19	41	12	>250	13	0	0	0	0	0	0	0	135	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0
SA 6	4.3	Sediment exposure, adult / older child	---	1.2	1.2	1.3	0.44	0.014	0.013	1.2	1.3	34	34	26	20	34	13	37	13	0	0	0	0	0	0	0	135	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0
SA 7	2.4	Sediment exposure, adult / older child	---	7.6	7.0	7.5	2.1	0.055	0.35	7.6	1.3	>250	>250	>250	>250	42	13	>250	13	0	0	0	0	0	0	0	135	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0
SA 8	8.0	Sediment exposure, adult / older child	---	3.0	2.9	0.29	0.095	0.072	0.17	3.0	1.3	>250	>250	18	21	48	14	>250	13	0	0	0	0	0	0	0	135	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0

Key:

= *post-remediation EPC is higher than IMPG*

= *post-remediation EPC is lower than IMPG*

<value> = time to achieve predicted by the model

<value> = time to achieve based on highly uncertain extrapolation of the model results as described in Section 3.2.1 of the CMS Report

Notes:

[1] *See Revised CMS Report Figures 4-1 and 4-2 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 plus older child and/or young child), the lowest IMPG was utilized in the comparison to the post-remediation EPC.*

[5] *IMPGs less than 2 mg/kg were set to 2 mg/kg, because that concentration is fully protective for direct contact with soil under an unrestricted use scenario.*

Table 8-7b. Evaluation of attainment of CTE IMPGs for human direct contact exposure areas for combined SED/FP scenarios.

Exposure Area ID [1]	Area of Exposure Area (acre) [2]	Exposure Scenario	Floodplain Pre-Remediation EPC (mg/kg) [3]	Floodplain Post-Remediation EPC (mg/kg) / Projected Sediment Concentrations (mg/kg)							10^{-6} Cancer Risk (CTE)								10^{-5} Cancer Risk (CTE)								10^{-4} Cancer Risk (CTE)								Non-cancer (CTE)							
				SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	IMPG (mg/kg) [4,5]	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	IMPG (mg/kg) [4]	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	IMPG (mg/kg) [4]	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	IMPG (mg/kg) [4]	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9
Floodplain Human Direct Contact Areas																																								
1	15	Medium-use general recreation, adult / older child	32	32	23	21	21	1.6	6.3	32	51								514								5143								176							
2	27	High-use general recreation, adult / older child	25	25	20	14	14	1.9	14	25	51								514								5143								176							
2a	2.3	Low-use general recreation, older child	52	52	42	21	21	1.5	21	51	103								1029								10286								353							
2b	2.0	High-use general recreation, older child	31	31	27	27	27	3.8	27	27	51								514								5143								176							
3	0.38	High-use general recreation, adult	7.8	7.8	7.8	7.8	7.8	2.0	7.8	7.8	63								630								6305								234							
4	3.2	High-use general recreation, adult / older child / young child (low use)	27	27	14	14	14	1.6	14	26	37								368								3684								63							
5	2.5	High-use general recreation, adult / older child	58	58	25	14	14	2.0	14	27	51								514								5143								176							
6	3.8	Low-use general recreation, adult	75	75	28	28	28	1.3	25	75	126								1261								12610								468							
7	5.9	High-use general recreation, adult / older child	25	25	25	14	14	2.0	14	25	51								514								5143								176							
8	0.60	Recreational canoeist	40	40	28	12	12	2.0	12	28	13								129								1286								73							
9	0.042	Low-use general recreation, older child	27	27	27	27	27	12	27	27	103								1029								10286								353							
10	59	High-use general recreation, adult / young child (high use)	10	10	4.6	4.6	4.6	2.0	4.6	4.6	18								184								1842								32							
10a	8.0	High-use general recreation, adult / young child (high use)	22	22	4.5	4.5	4.5	2.0	4.5	4.5	18								184								1842								32							
11	2.5	High-use general recreation, adult	18	18	18	14	14	2.0	14	18	63								630								6305								234							
12	4.8	High-use general recreation, adult / older child / young child (low use)	14	14	14	5.3	5.3	1.6	5.3	14	37								368								3684								63							
13	5.9	High-use general recreation, adult	28	28	27	13	13	2.0	13	28	63								630								6305								234							
14	4.1	High-use general recreation, adult	2.7	2.7	2.6	2.6	2.6	1.6	2.6	2.7	63								630								6305								234							
15	0.87	High-use general recreation, adult	2.2	2.2	2.2	2.2	2.2	2.0	2.2	2.2	63								630								6305								234							
16	2.5	High-use general recreation, adult	41	41	38	14	14	2.0	14	38	63								630								6305								234							
17	8.5	High-use general recreation, adult	15	15	15	14	14	2.0	14	15	63								630								6305								234							
18	17	Medium-use general recreation, adult	46	46	46	21	21	2.1	19	46	63								630								6305								234							
19	36	High-use general recreation, adult	83	83	20	14	14	1.6	14	38	63								630								6305								234							
20	9.1	High-use general recreation, adult	34	34	22	14	14	2.0	9.0	34	63								630								6305								234							
21	2.9	High-use general recreation, adult / older child	5.7	5.7	5.1	5.7	5.7	2.0	5.0	5.7	51								514								5143								176							
22	19	High-use general recreation, adult / older child	28	28	23	14	14	1.5	13	26	51								514								5143								176							
22a	1.8	Dirt biking/ATVing	93	93	8.2	8.2	8.2	2.0	8.2	8.2	29								290								2901								99							
23	0.28	Medium-use general recreation, older child	11	11	11	11	11	5.8	10	11	51								514								5143								176							
24	10	High-use general recreation, adult	31	31	26	13	13	1.3	12	31	63								630								6305								234							
25	0.51	High-use general recreation, older child	30	30	27	27	27	3.9	16	27	51								514								5143								176							
26a	48	High-use general recreation, adult / older child	7.0	7.0	6.9	6.9	6.9	1.9	6.9	7.0	51								514								5143								176							
26b	7.6	Agricultural use (based on direct contact by farmer)	1.3	1.3	1.3	1.3	1.3	0.68	1.3	1.3	42								419								4195								348							
26_F	55	High-use general recreation, adult / older child	6.1	6.1	6.0	6.0	6.0	1.7	6.0	6.1	51								514								5143								176							
27	6.3	High-use general recreation, adult / older child	2.5	2.5	2.5	2.5	2.5	2.0	2.5	2.5	51								514								5143								176							
27a	0.38	Dirt biking/ATVing	4.3	4.3	4.3	4.3	4.3	2.0	4.3	4.3	29								290								2901								99							
28	0.21	High-use general recreation, adult / older child / young child (low use)	21	21	21	13	13	2.0	13	21	37								368								3684								63							
28a	0.071	Dirt biking/ATVing	21	21	4.3	4.3	4.3	2.0	4.3	4.3	29								290								2901								99							
29	0.34	Low-use general recreation, adult / older child	21	21	21	21	21	4.3	21	21	103								1029								10286								353							
30	0.19	High-use general recreation, adult / older child	18	18	18	14	14	2.0	14	18	51								514								5143								176							
31	5.0	High-use general recreation, adult / older child	18	18	17	14	14	2.0	14	17	51								514								5143								176							
31a	0.61	High-use general recreation, adult / older child	42	42	25	3.9	3.9	2.0	3.9	25	51								514								5143								176							
32	6.8	High-use general recreation, adult	50	50	38	14	14	2.0	14	38	63								630								6305								234							
33	30	High-use general recreation, adult	21	21	19	14	14	2.0	14	21	63								630								6305								234							
34	7.8	Medium-use general recreation, adult	27	27	27	21	21	2.1	18	27	63								630								6305								234							
35	25	High-use general recreation, adult / older child	22	22	22	14	14	2.0	14	22	51								514								5143								176							
35a	1.2	High-use general recreation, adult / older child	44	44	13	4.4	4.4	2.0	4.4	27	51								514								5143								176							
36a	16	Low-use commercial (groundskeeper scenario)	25	25	24	24	24	8.0	24	25	166								1664								16642								571							
36b	2.2	Agricultural use (based on direct contact by farmer)	15	15	15	12	12	2.0	12	15	42								419								4195								348							
37	20	High-use general recreation, adult / older child	18	18	16	13	13	1.7	12	18	51								514								5143								176							

Table 8-7b. Evaluation of attainment of CTE IMPGs for human direct contact exposure areas for combined SED/FP scenarios.

Exposure Area ID[1]	Area of Exposure Area (acre)[2]	Exposure Scenario	Floodplain Pre-Remediation EPC (mg/kg)[3]	Floodplain Post-Remediation EPC (mg/kg) / Projected Sediment Concentrations (mg/kg)							10^{-6} Cancer Risk (CTE)								10^{-5} Cancer Risk (CTE)								10^{-4} Cancer Risk (CTE)								Non-cancer (CTE)							
				SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	IMPG (mg/kg)[4,5]	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	IMPG (mg/kg)[4]	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	IMPG (mg/kg)[4]	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	IMPG (mg/kg)[4]	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9
37a	1.4	Bank fishing	61	61	26	26	26	2.6	26	42	52								524								5237								180							
37b	2.3	High-use general recreation, adult / older child	27	27	4.3	6.7	6.7	2.0	4.3	24	51								514								5143								176							
38	13	High-use general recreation, adult	23	23	22	14	14	1.6	14	22	63								630								6305								234							
38a	1.4	Bank fishing	71	71	42	18	18	2.6	18	42	52								524								5237								180							
39	3.5	Marathon canoeist	30	30	6.8	6.8	6.8	2.0	6.3	13	5.8								58								575								25							
40	98	High-use general recreation, adult / young child (low use)	19	19	13	13	13	1.5	4.9	19	37								368								3684								63							
40a	4.6	Bank fishing	120	120	42	25	25	2.6	22	42	52								524								5237								180							
40b	1.1	High-use general recreation, adult / young child (low use)	11	11	11	11	11	2.0	11	11	37								368								3684								63							
41	20	Medium-use general recreation, adult	27	27	24	21	21	1.8	20	26	63								630								6305								234							
41a	2.4	Bank fishing	53	53	39	26	26	2.6	25	42	52								524								5237								180							
42	14	Medium-use general recreation, adult	32	32	32	21	21	2.1	21	32	63								630								6305								234							
42a	0.94	Bank fishing	25	25	25	25	25	2.6	25	25	52								524								5237								180							
43	1.5	Medium-use general recreation, adult	27	27	27	14	14	2.1	6.3	27	63								630								6305								234							
43a	0.24	Bank fishing	69	69	32	25	25	2.6	6.7	32	52								524								5237								180							
44	2.2	High-use general recreation, adult	27	27	27	14	14	2.0	14	27	63								630								6305								234							
45	17	High-use general recreation, adult	40	40	38	14	14	2.0	11	38	63								630								6305								234							
46	7.2	High-use general recreation, adult	9.2	9.2	9.1	9.1	9.1	2.0	8.7	9.2	63								630								6305								234							
47	1.0	Recreational canoeist	18	18	12	12	12	2.0	12	18	13								129								1286								73							
47_F	0.12	Recreational canoeist	8.0	8.0	8.0	8.0	8.0	2.0	8.0	8.0	13								129								1286								73							
48	6.5	High-use general recreation, adult	3.4	3.4	3.4	3.4	3.4	2.0	3.4	3.4	63								630								6305								234							
49	7.7	Low-use general recreation, adult	63	63	63	43	43	4.3	33	63	126								1261								12610								468							
50	69	Low-use general recreation, adult	7.4	7.4	7.4	7.4	7.4	4.3	5.9	7.4	126								1261								12610								468							
50a	11	Waterfowl hunting	21	21	17	17	17	7.5	15	21	75								752								7518								399							
51	87	Low-use general recreation, adult	7.1	7.1	7.1	7.1	7.1	4.3	6.7	7.1	126								1261								12610								468							
51a	32	Waterfowl hunting	23	23	23	23	23	8.4	20	23	75								752								7518								399							
52	0.9	Recreational canoeist	6.5	6.5	5.9	5.9	5.9	2.0	5.9	6.5	13								129								1286								73							
53	0.7	Recreational canoeist	18	18	11	11	11	2.0	6.1	15	13								129								1286								73							
54	13	High-use general recreation, adult	6.5	6.5	6.3	6.3	6.3	1.9	5.0	6.5	63								630								6305								234							
55	18	High-use general recreation, adult / young child (low use)	11	11	11	11	11	2.0	11	11	37								368								3684								63							
55a	5.0	Waterfowl hunting	42	42	42	42	42	8.6	42	42	75								752								7518								399							
56	32	Medium-use general recreation, adult / older child	37	37	37	21	21	2.1	21	37	51								514								5143								176							
56a	10	Waterfowl hunting	51	51	51	45	45	9.0	45	51	75								752								7518								399							
57	13	High-use general recreation, adult / young child (low use)	5.8	5.8	5.7	5.7	5.7	2.0	5.6	5.8	37								368								3684								63							
58	1.3	High-use general recreation, adult	65	65	12	12	12	2.0	3.6	37	63								630								6305								234							
59	1.9	High-use general recreation, adult / young child (low use)	18	18	14	14	14	2.0	14	18	37								368								3684								63							
59a	0.83	Bank fishing	23	23	18	18	18	2.6	18	23	52								524								5237								180							
60	0.84	High-use general recreation, adult / young child (low use)	7.4	7.4	7.4	7.4	7.4	2.0	7.4	7.4	37								368								3684								63							
60a	0.16	Recreational canoeist	13	13	12	12	12	0.95	12	13	13								129								1286								73							
61	3.3	Utility worker	42	42	27	23	23	0.77	23	42	209								2093								20933								718							
62	1.6	Utility worker	280	280	68	37	37	5.4	37	68	209								2093								20933								718							
63	0.67	Utility worker	84	84	65	24	24	8.6	24	84	209								2093								20933								718							
64	0.61	Utility worker	42	42	25	3.9	3.9	1.5	3.9	25	209								2093								20933								718							
65	3.9	Utility worker	18	18	17	17	17	17	17	18	209								2093								20933								718							
66	1.7	Utility worker	25	25	12	11	11	5.6	11	24	209								2093								20933								718							
67	0.31	High-use general recreation, adult	11	11	11	11	11	2.0	11	11	63								630								6305								234							
68	0.090	High-use general recreation, adult	9.1	9.1	9.1	9.1	9.1	2.0	9.1	9.1	63								630								6305								234							
69	1.9	High-use general recreation, adult	9.9	9.9	9.9	9.9	9.9	2.0	9.9	9.9	63								630								6305								234							
70	19	High-use general recreation, adult / young child (high use)	3.1	3.1	3.1	3.1	3.1	2.0	2.9	3.1	18								184								1842								32							
70a	1.2	Bank fishing	5.8	5.8	5.8	5.8	5.8	2.6	5.8	5.8	52								524								5237								180							

Table 8-7b. Evaluation of attainment of CTE IMPGs for human direct contact exposure areas for combined SED/FP scenarios.

Exposure Area ID[1]	Area of Exposure Area (acre)[2]	Exposure Scenario	Floodplain Pre-Remediation EPC (mg/kg)[3]	Floodplain Post-Remediation EPC (mg/kg) / Projected Sediment Concentrations (mg/kg)							10^{-6} Cancer Risk (CTE)								10^{-5} Cancer Risk (CTE)								10^{-4} Cancer Risk (CTE)								Non-cancer (CTE)							
				SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	IMPG (mg/kg)[4,5]	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	IMPG (mg/kg)[4]	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	IMPG (mg/kg)[4]	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	IMPG (mg/kg)[4]	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9
71	1.8	Bank fishing	5.5	5.5	5.5	5.5	5.5	2.6	5.5	5.5	52								524								5237								180							
72	2.3	Bank fishing	11	11	11	11	11	2.6	11	11	52								524								5237								180							
73	3.9	High-use general recreation, adult	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	63								630								6305								234							
74	5.3	High-use general recreation, adult	5.4	5.4	5.4	5.4	5.4	2.0	5.4	5.4	63								630								6305								234							
75	3.4	High-use general recreation, adult	15	15	15	14	14	2.0	14	15	63								630								6305								234							
76	1.1	High-use general recreation, adult	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	63								630								6305								234							
77	4.2	High-use general recreation, adult	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	63								630								6305								234							
78	6.2	High-use general recreation, older child	3.9	3.9	3.9	3.9	3.9	3.8	3.9	3.9	51								514								5143								176							
79	17	High-use general recreation, adult	3.1	3.1	3.1	3.1	3.1	2.0	3.1	3.1	63								630								6305								234							
80a	9.5	Low-use general recreation, adult	7.7	7.7	7.7	7.7	7.7	3.9	7.7	7.7	126								1261								12610								468							
80b	20	Agricultural use (based on direct contact by farmer)	0.77	0.77	0.77	0.77	0.77	0.12	0.77	0.77	42								419								4195								348							
81	33	Low-use general recreation, adult	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	126								1261								12610								468							
82	15	Low-use general recreation, adult	7.7	7.7	7.7	7.7	7.7	4.3	7.7	7.7	126								1261								12610								468							
83	22	High-use commercial (groundskeeper scenario)	6.5	6.5	6.5	6.5	6.5	2.0	6.5	6.5	17								166								1664								57							
84	8.5	Low-use general recreation, adult	4.7	4.7	4.7	4.7	4.7	4.3	4.7	4.7	126								1261								12610								468							
85a	0.25	Recreational canoeist	8.5	8.5	8.5	8.5	8.5	2.0	8.5	8.5	13								129								1286								73							
85b	10	High-use general recreation, older child	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	51								514								5143								176							
86	118	High-use commercial (groundskeeper scenario)	2.5	2.5	2.5	2.5	2.5	2.0	2.5	2.5	17								166								1664								57							
87	10	High-use general recreation, adult / young child (high use)	15	15	4.6	4.6	4.6	2.0	4.6	4.6	18								184								1842								32							
87a	0.88	Bank fishing	9.1	9.1	6.6	6.6	6.6	2.6	6.6	6.6	52								524								5237								180							
88	1.1	Medium-use general recreation, older child	13	13	13	13	13	5.8	13	13	51								514								5143								176							
89	4.3	High-use general recreation, adult	6.3	6.3	6.3	6.3	6.3	2.0	6.3	6.3	63								630								6305								234							
90	8.9	High-use general recreation, adult / older child	6.1	6.1	6.1	6.1	6.1	2.0	6.1	6.1	51								514								5143								176							
Floodplain Direct Contact (Heavily Used Subareas)																																									
4	0.71	High-use general recreation, adult / older child / young child (low use)	67	67	9.3	9.3	9.3	0.64	9.3	21	37								368								3684								63							
12	1.5	High-use general recreation, adult / older child / young child (low use)	15	15	11	11	11	1.3	11	11	37								368								3684								63							
26a	2.2	High-use general recreation, adult / older child	1.9	1.9	1.9	1.9	1.9	0.27	1.9	1.9	51								514								5143								176							
37b	0.31	High-use general recreation, adult / older child	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	51								514								5143								176							
39	0.15	Marathon canoeist	52	52	4.9	4.9	4.9	2.0	4.9	8.6	5.8								58.0								575								25							
40	5.2	High-use general recreation, adult / young child (low use)	90	90	3.5	3.5	3.5	1.4	3.5	27	37								368								3684								63							
47	0.18	Recreational canoeist	6.4	6.4	0.62	0.62	0.62	0.62	0.61	6.4	13								129								1286								73							
52	0.25	Recreational canoeist	6.6	6.6	4.4	4.4	4.4	2.0	4.4	6.6	13								129								1286								73							
53	0.35	Recreational canoeist	408	408	5.3	5.3	5.3	0.80	5.2	8.3	13								129								1286								73							
58	0.16	High-use general recreation, adult	22	22	0.59	0.59	0.59	0.59	0.59	22	63								630								6305								234							
59	0.15	High-use general recreation, adult / young child (low use)	28	28	1.8	1.8	1.8	0.70	1.8	8.1	37								368								3684								63							
60a	0.16	Recreational canoeist	7.4	7.4	7.2	7.2	7.2	0.84	7.2	7.4	13								129								1286								73							

Table 8-7b. Evaluation of attainment of CTE IMPGs for human direct contact exposure areas for combined SED/FP scenarios.

Exposure Area ID[1]	Area of Exposure Area (acre)[2]	Exposure Scenario	Floodplain Pre-Remediation EPC (mg/kg)[3]	Floodplain Post-Remediation EPC (mg/kg) / Projected Sediment Concentrations (mg/kg)							10^{-6} Cancer Risk (CTE)								10^{-5} Cancer Risk (CTE)								10^{-4} Cancer Risk (CTE)								Non-cancer (CTE)							
				SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	IMPG (mg/kg)[4,5]	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	IMPG (mg/kg)[4]	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	IMPG (mg/kg)[4]	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	IMPG (mg/kg)[4]	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9
Sediment Human Direct Contact (Older Child)																																								
SA 1	57	Sediment exposure, adult / older child	---	12	1.6	0.057	0.054	0.076	0.16	7.0	28	*0*	*0*	*0*	*0*	*0*	*0*	*0*	280	*0*	*0*	*0*	*0*	*0*	*0*	*0*	2800	*0*	*0*	*0*	*0*	*0*	*0*	*0*	125	*0*	*0*	*0*	*0*	*0*	*0*	*0*
SA 2	133	Sediment exposure, adult / older child	---	16	8.7	0.20	0.17	0.10	0.16	16	28	*0*	*0*	*0*	*0*	*0*	*0*	*0*	280	*0*	*0*	*0*	*0*	*0*	*0*	*0*	2800	*0*	*0*	*0*	*0*	*0*	*0*	*0*	125	*0*	*0*	*0*	*0*	*0*	*0*	*0*
SA 3	11	Sediment exposure, adult / older child	---	23	1.7	0.21	0.24	0.17	0.15	11	28	*30*	*9*	*15*	*16*	*27*	*8*	*5*	280	*0*	*0*	*0*	*0*	*0*	*0*	*0*	2800	*0*	*0*	*0*	*0*	*0*	*0*	*0*	125	*0*	*0*	*0*	*0*	*0*	*0*	*0*
SA 4	2.0	Sediment exposure, adult / older child	---	3.4	3.2	3.2	1.2	0.038	0.18	3.4	28	*0*	*0*	*0*	*0*	*0*	*0*	*0*	280	*0*	*0*	*0*	*0*	*0*	*0*	*0*	2800	*0*	*0*	*0*	*0*	*0*	*0*	*0*	125	*0*	*0*	*0*	*0*	*0*	*0*	*0*
SA 5	3.2	Sediment exposure, adult / older child	---	4.2	4.1	4.1	0.10	0.044	0.021	4.1	28	*0*	*0*	*0*	*0*	*0*	*0*	*0*	280	*0*	*0*	*0*	*0*	*0*	*0*	*0*	2800	*0*	*0*	*0*	*0*	*0*	*0*	*0*	125	*0*	*0*	*0*	*0*	*0*	*0*	*0*
SA 6	4.3	Sediment exposure, adult / older child	---	1.2	1.2	1.3	0.44	0.014	0.013	1.2	28	*0*	*0*	*0*	*0*	*0*	*0*	*0*	280	*0*	*0*	*0*	*0*	*0*	*0*	*0*	2800	*0*	*0*	*0*	*0*	*0*	*0*	*0*	125	*0*	*0*	*0*	*0*	*0*	*0*	*0*
SA 7	2.4	Sediment exposure, adult / older child	---	7.6	7.0	7.5	2.1	0.055	0.35	7.6	28	*0*	*0*	*0*	*0*	*0*	*0*	*0*	280	*0*	*0*	*0*	*0*	*0*	*0*	*0*	2800	*0*	*0*	*0*	*0*	*0*	*0*	*0*	125	*0*	*0*	*0*	*0*	*0*	*0*	*0*
SA 8	8.0	Sediment exposure, adult / older child	---	3.0	2.9	0.29	0.095	0.072	0.17	3.0	28	*0*	*0*	*0*	*0*	*0*	*0*	*0*	280	*0*	*0*	*0*	*0*	*0*	*0*	*0*	2800	*0*	*0*	*0*	*0*	*0*	*0*	*0*	125	*0*	*0*	*0*	*0*	*0*	*0*	*0*

Key:

= *post-remediation EPC is higher than IMPG*

= *post-remediation EPC is lower than IMPG*

<value> = time to achieve predicted by the model

<value> = time to achieve based on highly uncertain extrapolation of the model results as described in Section 3.2.1 of the CMS Report

Notes:

[1] *See Revised CMS Report Figures 4-1 and 4-2 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 plus older child and/or young child), the lowest IMPG was utilized in the comparison to the post-remediation EPC.*

[5] *IMPGs less than 2 mg/kg were set to 2 mg/kg, because that concentration is fully protective for direct contact with soil under an unrestricted use scenario.*

Table 8-9. Evaluation of IMPG attainment for human consumption of floodplain agricultural products for combined SED/FP scenarios.

Floodplain Farm ID[1]	Floodplain Pre-Remediation EPC (mg/kg)[2]	Floodplain Post-Remediation EPC (mg/kg)[2] SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	10^{-6} Cancer Risk IMPG (mg/kg)[3]	10^{-5} Cancer Risk IMPG (mg/kg)[3]	10^{-4} Cancer Risk IMPG (mg/kg)[3]	Non-Cancer: Child IMPG (mg/kg)[3]	Non-Cancer: Adult IMPG (mg/kg)[3]
Floodplain Agricultural Products Consumption - Commercial Dairy (RME)													
FA 1	0.78	0.78	0.78	0.78	0.78	0.65	0.78	0.78	0.68	6.8	68	7.7	36
FA 2	14	14	14	13	13	2.6	13	14	2.6	26	259	29	138
FA 3	0.34	0.34	0.34	0.34	0.34	0.22	0.34	0.34	0.29	2.9	29	3.2	15
FA 4	0.38	0.38	0.38	0.38	0.38	0.24	0.38	0.38	0.24	2.4	24	2.7	13
FA 5	0.25	0.25	0.25	0.25	0.25	0.020	0.25	0.25	0.24	2.4	24	2.7	13
FA 6	0.25	0.25	0.25	0.25	0.25	0.13	0.25	0.25	0.24	2.4	24	2.7	13
FA 7	0.25	0.25	0.25	0.25	0.25	0.13	0.25	0.25	0.24	2.4	24	2.7	13
FA 8	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.34	3.4	34	3.8	18
FA 9	0.91	0.91	0.91	0.91	0.91	0.31	0.91	0.91	0.31	3.1	31	3.5	17
FA 10	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	2.1	21	206	23	110
FA 11	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	6.1	61	610	69	325
FA 12	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.38	3.8	38	4.3	20
FA 13	0.25	0.25	0.25	0.25	0.25	0.020	0.25	0.25	0.24	2.4	24	2.7	13
FA 14	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.55	5.5	55	6.2	29
Floodplain Agricultural Products Consumption - Commercial Dairy (CTE)													
FA 1	0.78	0.78	0.78	0.78	0.78	0.65	0.78	0.78	3.1	31	312	12	44
FA 2	14	14	14	13	13	2.6	13	14	12	119	1187	46	168
FA 3	0.34	0.34	0.34	0.34	0.34	0.22	0.34	0.34	1.3	13	132	5.2	19
FA 4	0.38	0.38	0.38	0.38	0.38	0.24	0.38	0.38	1.1	11	110	4.3	16
FA 5	0.25	0.25	0.25	0.25	0.25	0.020	0.25	0.25	1.1	11	110	4.3	16
FA 6	0.25	0.25	0.25	0.25	0.25	0.13	0.25	0.25	1.1	11	110	4.3	16
FA 7	0.25	0.25	0.25	0.25	0.25	0.13	0.25	0.25	1.1	11	110	4.3	16
FA 8	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	1.5	15	154	6.0	22
FA 9	0.91	0.91	0.91	0.91	0.91	0.31	0.91	0.91	1.4	14	143	5.6	20
FA 10	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	9.5	95	946	37	134
FA 11	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	28	279	2794	109	396
FA 12	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	1.8	18	176	6.9	25
FA 13	0.25	0.25	0.25	0.25	0.25	0.020	0.25	0.25	1.1	11	110	4.3	16
FA 14	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	2.5	25	253	9.9	36

Key:

(white) = *post-remediation EPC is higher than IMPG*

(blue) = *post-remediation EPC is lower than IMPG*

Notes:

[1] *See Revised CMS Figure 4-4 for farm areas in Reaches 5 through 8.*

[2] *EPC is calculated for top 1 ft floodplain soil.*

[3] *IMPG values for agricultural products consumption include an adjustment to account for the areas outside the 1 mg/kg PCB isopleth/100-year floodplain (see Revised CMS Report Table 4-2).*

Table 8-11. Evaluation of IMPG attainment for human consumption of fish for combined SED/FP scenarios.

Average Fish (fillet) Concentrations (mg/kg)[1,2]

River Reach	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9
Human Consumption of Fish (Bass Fillets, Deterministic RME)							
5A	7.3	0.25	0.26	0.26	0.17	0.31	4.2
5B	9.3	3.0	0.23	0.22	0.15	0.27	6.6
5C	7.4	1.8	0.17	0.16	0.11	0.18	5.8
5D	9.5	6.3	0.36	0.35	0.29	0.41	11
6 (WP)	8.6	0.71	0.18	0.17	0.13	0.16	3.7
7A	6.4	1.3	0.42	0.40	0.34	0.42	4.2
7B	5.7	2.1	1.6	0.41	0.10	0.21	4.2
7C	6.3	1.8	1.0	0.20	0.12	0.20	4.4
7D	5.5	1.4	0.79	0.70	0.63	0.75	3.7
7E	4.1	1.0	0.57	0.34	0.18	0.22	2.8
7F	3.2	0.82	0.49	0.45	0.38	0.45	2.2
7G	3.5	1.3	1.0	0.40	0.15	0.22	2.6
7H	2.8	0.72	0.43	0.39	0.35	0.39	1.9
8 (RP)	3.6	1.6	0.34	0.22	0.17	0.24	2.7
BBD	0.16	0.04	0.01	0.009	0.006	0.009	0.1
LL	0.11	0.03	0.009	0.006	0.005	0.006	0.08
LZ	0.08	0.02	0.006	0.005	0.004	0.004	0.05
LH	0.08	0.02	0.006	0.004	0.003	0.004	0.05
Human Consumption of Fish (Bass Fillets, Probabilistic RME (5th percentile))							
5A	7.3	0.25	0.26	0.26	0.17	0.31	4.2
5B	9.3	3.0	0.23	0.22	0.15	0.27	6.6
5C	7.4	1.8	0.17	0.16	0.11	0.18	5.8
5D	9.5	6.3	0.36	0.35	0.29	0.41	11
6 (WP)	8.6	0.71	0.18	0.17	0.13	0.16	3.7
7A	6.4	1.3	0.42	0.40	0.34	0.42	4.2
7B	5.7	2.1	1.6	0.41	0.10	0.21	4.2
7C	6.3	1.8	1.0	0.20	0.12	0.20	4.4
7D	5.5	1.4	0.79	0.70	0.63	0.75	3.7
7E	4.1	1.0	0.57	0.34	0.18	0.22	2.8
7F	3.2	0.82	0.49	0.45	0.38	0.45	2.2
7G	3.5	1.3	1.0	0.40	0.15	0.22	2.6
7H	2.8	0.72	0.43	0.39	0.35	0.39	1.9
8 (RP)	3.6	1.6	0.34	0.22	0.17	0.24	2.7
BBD	0.16	0.04	0.01	0.009	0.006	0.009	0.1
LL	0.11	0.03	0.009	0.006	0.005	0.006	0.08
LZ	0.08	0.02	0.006	0.005	0.004	0.004	0.05
LH	0.08	0.02	0.006	0.004	0.003	0.004	0.05

10^{-6} Cancer Risk

River Reach	IMPG (mg/kg)	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9
Human Consumption of Fish (Bass Fillets, Deterministic RME)								
5A	0.0019	>250	237	249	230	>250	234	>250
5B		>250	>250	>250	235	>250	232	>250
5C		>250	>250	>250	242	>250	229	>250
5D		>250	>250	>250	>250	>250	IT	>250
6 (WP)		>250	>250	>250	>250	>250	231	>250
7A		>250	>250	>250	>250	>250	>250	>250
7B		>250	>250	>250	>250	>250	>250	>250
7C		>250	>250	>250	>250	>250	>250	>250
7D		>250	>250	>250	>250	>250	>250	>250
7E		>250	>250	>250	>250	>250	>250	>250
7F		>250	>250	>250	>250	>250	>250	>250
7G		>250	>250	>250	>250	>250	>250	>250
7H		>250	>250	>250	>250	>250	>250	>250
8 (RP)		>250	>250	>250	>250	>250	>250	>250
BBD		>250	244	126	91	116	101	>250
LL		>250	222	113	82	106	90	>250
LZ		>250	199	99	73	96	78	>250
LH		>250	197	97	72	94	77	>250
Human Consumption of Fish (Bass Fillets, Probabilistic RME (5th percentile))								
5A	0.0064	>250	191	200	186	242	190	>250
5B		>250	>250	207	188	242	188	>250
5C		>250	>250	213	190	241	181	>250
5D		>250	221	>250	>250	>250	IT	>250
6 (WP)		>250	>250	>250	229	>250	182	>250
7A		>250	>250	>250	>250	>250	>250	>250
7B		>250	>250	>250	>250	>250	>250	>250
7C		>250	>250	>250	242	>250	228	>250
7D		>250	>250	>250	>250	>250	>250	>250
7E		>250	>250	>250	>250	>250	>250	>250
7F		>250	>250	>250	>250	>250	>250	>250
7G		>250	>250	>250	>250	>250	>250	>250
7H		>250	>250	>250	>250	>250	>250	>250
8 (RP)		>250	>250	>250	>250	>250	>250	>250
BBD		>250	165	>250	59	79	60	>250
LL		>250	143	64	51	68	50	>250
LZ		>250	120	51	38	62	36	>250
LH		>250	117	50	37	62	35	>250

10^{-5} Cancer Risk

River Reach	IMPG (mg/kg)	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9
Human Consumption of Fish (Bass Fillets, Deterministic RME)								
5A	0.019	>250	149	156	146	188	151	>250
5B		>250	>250	159	145	186	148	>250
5C		>250	>250	159	143	179	139	>250
5D		>250	195	>250	>250	>250	IT	>250
6 (WP)		>250	>250	187	170	193	138	>250
7A		>250	>250	>250	>250	>250	>250	>250
7B		>250	>250	>250	>250	205	>250	>250
7C		>250	>250	>250	181	200	171	>250
7D		>250	>250	>250	>250	>250	>250	>250
7E		>250	>250	>250	213	>250	209	>250
7F		>250	>250	>250	>250	>250	>250	>250
7G		>250	>250	>250	>250	>250	>250	>250
7H		>250	>250	>250	>250	>250	>250	>250
8 (RP)		>250	>250	>250	>250	>250	>250	>250
BBD		230	94	40	36	60	34	246
LL		200	72	33	31	57	26	207
LZ		170	49	25	26	56	23	167
LH		167	46	25	26	56	22	162
Human Consumption of Fish (Bass Fillets, Probabilistic RME (5th percentile))								
5A	0.064	>250	103	108	102	127	108	>250
5B		>250	>250	106	98	123	103	>250
5C		>250	>250	98	91	110	91	>250
5D		>250	165	>250	>250	>250	IT	>250
6 (WP)		>250	>250	114	105	120	88	>250
7A		>250	>250	>250	205	>250	216	>250
7B		>250	>250	>250	>250	114	162	>250
7C		>250	>250	>250	114	121	108	>250
7D		>250	>250	>250	>250	>250	>250	>250
7E		>250	222	>250	144	171	131	>250
7F		>250	>250	>250	225	>250	251	>250
7G		>250	>250	>250	>250	172	155	>250
7H		>250	>250	>250	>250	>250	>250	>250
8 (RP)		>250	>250	>250	173	200	179	>250
BBD		125	22	21	22	34	16	107
LL		96	17	19	20	31	15	68
LZ		66	12	15	19	17	13	27
LH		62	12	11	19	17	13	26

10^{-4} Cancer Risk

River Reach	IMPG (mg/kg)	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9
Human Consumption of Fish (Bass Fillets, Deterministic RME)								
5A	0.19	>250	62	64	62	74	68	>250
5B		>250	>250	59	56	70	63	>250
5C		>250	207	44	44	48	51	>250
5D		>250	138	>250	>250	117	IT	>250
6 (WP)		>250	>250	50	48	51	44	>250
7A		>250	233	138	112	166	120	>250
7B		>250	>250	>250	>250	46	60	>250
7C		>250	>250	>250	53	52	52	>250
7D		>250	>250	>250	210	>250	>250	>250
7E		>250	154	173	83	64	61	>250
7F		>250	195	165	128	182	140	>250
7G		>250	>250	>250	154	52	63	>250
7H		>250	219	174	139	226	147	>250
8 (RP)		>250	>250	>250	65	63	72	>250
BBD		31	11	11	18	15	13	17
LL		26	9	8	9	11	11	9
LZ		6	6	4	6	7	9	6
LH		5	5	4	5	6	8	4
Human Consumption of Fish (Bass Fillets, Probabilistic RME (5th percentile))								
5A	0.64	240	15	15	15	17	19	186
5B		>250	213	16	16	20	15	>250
5C		>250	123	19	20	31	14	>250
5D		>250	108	21	21	31	15	239
6 (WP)		>250	79	22	23	41	16	189
7A		>250	117	24	24	43	120	235
7B		>250	232	>250	23	43	15	>250
7C		>250	197	166	23	44	16	>250
7D		>250	142	83	62	76	74	>250
7E		232	79	38	23	44	16	224
7F		205	75	25	26	45	21	>250
7G		243	156	142	23	45	16	>250
7H		188	66	23	23	46	16	>250
8 (RP)		233	190	22	24	53	18	>250
BBD		0	0	0	0	0	0	0
LL		0	0	0	0	0	0	0
LZ		0	0	0	0	0	0	0
LH		0	0	0	0	0	0	0

Non-Cancer: Child

River Reach	IMPG (mg/kg)	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9
Human Consumption of Fish (Bass Fillets, Deterministic RME)								
5A	0.026	>250	137	144	134	172	140	>250
5B		>250	>250	146	133	170	136	>250
5C		>250	>250	143	129	161	127	>250
5D		>250	187	>250	>250	>250	IT	>250
6 (WP)		>250	>250	168	153	174	125	>250
7A		>250	>250	>250	>250	>250	>250	>250
7B		>250	>250	>250	>250	181	245	>250
7C		>250	>250	>250	164	180	155	>250
7D		>250	>250	>250	>250	>250	>250	>250
7E		>250	>250	>250	195	>250	189	>250
7F		>250	>250	>250	>250	>250	>250	>250
7G		>250	>250	>250	>250	>250	232	>250
7H		>250	>250	>250	>250	>250	>250	>250
8 (RP)		>250	>250	>250	>250	>250	>250	>250
BBD		203	74	27	28	56	25	210
LL		173	52	24	25	55	21	171
LZ		143	34	22	23	54	18	131
LH		140	27	22	23	41	18	126
Human Consumption of Fish (Bass Fillets, Probabilistic RME (5th percentile))								
5A	0.059	>250	106	111	105	131	111	>250
5B		>250	>250	110	101	128	106	>250
5C		>250	>250	102	94	114	94	>250
5D		>250	167	>250	>250	>250	IT	>250
6 (WP)		>250	>250	119	109	125	91	>250
7A		>250	>250	>250	211	>250	223	>250
7B		>250	>250	>250	>250	120	169	>250
7C		>250	>250	>250	118	126	112	>250
7D		>250	>250	>250	>250	>250	>250	>250
7E		>250	227	>250	149	179	136	>250
7F		>250	>250	>250	232	>250	>250	>250
7G		>250	>250	>250	>250	182	162	>250
7H		>250	>250	>250	>250	>250	>250	>250
8 (RP)		>250	>250	>250	181	210	187	>250
BBD		132	26	21	22	39	17	116
LL		103	19	20	21	32	16	77
LZ		73	14	18	20	26	14	41
LH		69	13	18	19	22	14	37

Non-Cancer: Adult

River Reach	IMPG (mg/kg)	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9
Human Consumption of Fish (Bass Fillets, Deterministic RME)								
5A	0.062	>250	105	109	103	129	109	>250
5B		>250	>250	108	99	125	104	>250
5C		>250	>250	100	92	111	93	>250
5D		>250	165	>250	>250	>250	IT	>250
6 (WP)		>250	>250	116	106	122	89	>250
7A		>250	>250	>250	207	>250	219	>250
7B		>250	>250	>250	>250	116	164	>250
7C		>250	>250	>250	116	123	110	>250
7D		>250	>250	>250	>250	>250	>250	>250
7E		>250	224	>250	146	174	133	>250
7F		>250	>250	>250	228	>250	>250	>250
7G		>250	>250	>250	>250	176	158	>250
7H		>250	>250	>250	>250	>250	>250	>250
8 (RP)		>250	>250	>250	177	204	182	>250
BBD		128	22	21	22	34	16	111
LL		98	17	19	20	31	15	72
LZ		68	12	15	19	17	13	27
LH		65	12	11	19	17	13	26
Human Consumption of Fish (Bass Fillets, Probabilistic RME (5th percentile))								
5A	0.12	>250	80	82	79	96	85	>250
5B		>250	>250	79	74	91	80	>250
5C		>250	239	67	63	76	67	500
5D		>250	149	>250	>250	173	IT	>250
6 (WP)		>250	>250	75	71	82	62	>250
7A		>250	>250	188	151	234	161	>250
7B		>250	>250	>250	>250	70	103	>250
7C		>250	>250	>250	79	82	76	>250
7D		>250	>250	>250	>250	>250	>250	>250
7E		>250	183	223	109	110	91	>250
7F		>250	240	219	169	>250	187	>250
7G		>250	>250	>250	218	101	102	>250
7H		>250	>250	242	196	>250	210	>250
8 (RP)		>250	>250	>250	111	120	117	>250
BBD		71	11	11	18	15	13	17
LL		26	9	8	9	11	11	9
LZ		6	6	4	6	7	9	6
LH		5	5	4	5	6	8	4

Table 8-11. Evaluation of IMPG attainment for human consumption of fish for combined SED/FP scenarios.

Human Consumption of Fish (Bass Fillets, Deterministic CTE)

Average Fish (fillet) Concentrations (mg/kg)[1,2]

River Reach	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9
5A	7.3	0.25	0.26	0.26	0.17	0.31	4.2
5B	9.3	3.0	0.23	0.22	0.15	0.27	6.6
5C	7.4	1.8	0.17	0.16	0.11	0.18	5.8
5D	9.5	6.3	0.36	0.35	0.29	0.41	11
6 (WP)	8.6	0.71	0.18	0.17	0.13	0.16	3.7
7A	6.4	1.3	0.42	0.40	0.34	0.42	4.2
7B	5.7	2.1	1.6	0.41	0.10	0.21	4.2
7C	6.3	1.8	1.0	0.20	0.12	0.20	4.4
7D	5.5	1.4	0.79	0.70	0.63	0.75	3.7
7E	4.1	1.0	0.57	0.34	0.18	0.22	2.8
7F	3.2	0.82	0.49	0.45	0.38	0.45	2.2
7G	3.5	1.3	1.0	0.40	0.15	0.22	2.6
7H	2.8	0.72	0.43	0.39	0.35	0.39	1.9
8 (RP)	3.6	1.6	0.34	0.22	0.17	0.24	2.7
BBD	0.16	0.04	0.01	0.009	0.006	0.009	0.1
LL	0.11	0.03	0.009	0.006	0.005	0.006	0.08
LZ	0.08	0.02	0.006	0.005	0.004	0.004	0.05
LH	0.08	0.02	0.006	0.004	0.003	0.004	0.05

10^{-6} Cancer Risk

River Reach	IMPG (mg/kg)	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9
5A	0.049	>250	113	118	111	141	117	>250
5B		>250	>250	118	109	137	113	>250
5C		>250	>250	111	102	125	102	>250
5D		>250	171	>250	>250	>250	IT	>250
6 (WP)		>250	>250	130	119	136	99	>250
7A		>250	>250	>250	227	>250	240	>250
7B		>250	>250	>250	>250	134	186	>250
7C		>250	>250	>250	129	138	122	>250
7D		>250	>250	>250	>250	>250	>250	>250
7E		>250	239	>250	159	197	148	>250
7F		>250	>250	>250	249	>250	>250	>250
7G		>250	>250	>250	>250	203	178	>250
7H		>250	>250	>250	>250	>250	>250	>250
8 (RP)		>250	>250	>250	200	234	205	>250
BBD		148	37	22	23	54	19	138
LL		119	23	21	22	36	17	99
LZ		89	17	19	20	31	15	58
LH		85	17	19	20	31	15	54

10^{-5} Cancer Risk

River Reach	IMPG (mg/kg)	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9
5A	0.49	>250	22	22	22	23	35	205
5B		>250	241	18	18	21	22	>250
5C		>250	142	20	20	32	15	>250
5D		>250	115	21	21	31	16	>250
6 (WP)		>250	134	22	23	42	16	209
7A		>250	142	36	33	44	37	>250
7B		>250	>250	>250	23	43	16	>250
7C		>250	234	227	24	45	17	>250
7D		>250	174	124	94	127	114	>250
7E		>250	96	69	24	45	17	>250
7F		231	102	51	41	48	39	>250
7G		>250	196	193	24	46	17	>250
7H		214	99	34	26	47	22	>250
8 (RP)		>250	231	23	25	53	19	>250
BBD		0	0	0	0	0	0	0
LL		0	0	0	0	0	0	0
LZ		0	0	0	0	0	0	0
LH		0	0	0	0	0	0	0

10^{-4} Cancer Risk

River Reach	IMPG (mg/kg)	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9
5A	4.9	82	8	8	8	10	8	36
5B		123	12	10	10	14	9	81
5C		98	10	14	14	17	10	69
5D		136	58	17	17	27	12	108
6 (WP)		132	11	18	19	37	12	25
7A		78	9	10	10	12	11	26
7B		69	9	10	10	12	11	26
7C		78	10	10	10	13	12	36
7D		64	9	9	10	12	11	11
7E		34	9	7	9	11	11	9
7F		9	8	6	8	10	10	8
7G		10	8	6	8	11	10	8
7H		7	7	5	7	8	9	6
8 (RP)		10	8	6	8	11	11	8
BBD		0	0	0	0	0	0	0
LL		0	0	0	0	0	0	0
LZ		0	0	0	0	0	0	0
LH		0	0	0	0	0	0	0

Non-Cancer: Child

River Reach	IMPG (mg/kg)	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9
5A	0.19	>250	62	64	62	74	68	>250
5B		>250	>250	59	56	70	63	>250
5C		>250	207	44	44	48	51	>250
5D		>250	138	>250	>250	117	IT	>250
6 (WP)		>250	>250	50	48	51	44	>250
7A		>250	233	138	112	166	120	>250
7B		>250	>250	>250	>250	46	60	>250
7C		>250	>250	>250	53	52	52	>250
7D		>250	>250	>250	210	>250	>250	>250
7E		>250	154	173	83	64	61	>250
7F		>250	195	165	128	182	140	>250
7G		>250	>250	>250	154	52	63	>250
7H		>250	219	174	139	226	147	>250
8 (RP)		>250	>250	>250	65	63	72	>250
BBD		31	11	11	18	15	13	17
LL		26	9	8	9	11	11	9
LZ		6	6	4	6	7	9	6
LH		5	5	4	5	6	8	4

Non-Cancer: Adult

River Reach	IMPG (mg/kg)	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9
5A	0.43	>250	26	26	26	39	38	214
5B		>250	>250	21	20	23	34	>250
5C		>250	151	20	21	32	16	>250
5D		>250	118	22	22	32	24	>250
6 (WP)		>250	161	23	24	42	17	219
7A		>250	155	48	41	48	48	>250
7B		>250	>250	>250	23	43	16	>250
7C		>250	>250	>250	24	45	18	>250
7D		>250	189	144	110	153	134	>250
7E		>250	104	84	24	45	17	>250
7F		244	114	68	55	61	56	>250
7G		>250	216	218	24	47	18	>250
7H		226	116	51	37	48	35	>250
8 (RP)		>250	>250	24	25	54	19	>250
BBD		0	0	0	0	0	0	0
LL		0	0	0	0	0	0	0
LZ		0	0	0	0	0	0	0
LH		0	0	0	0	0	0	0

Human Consumption of Fish (Bass Fillets, Probabilistic CTE (50th percentile))

Average Fish (fillet) Concentrations (mg/kg)[1,2]

River Reach	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9
5A	7.3	0.25	0.26	0.26	0.17	0.31	4.2
5B	9.3	3.0	0.23	0.22	0.15	0.27	6.6
5C	7.4	1.8	0.17	0.16	0.11	0.18	5.8
5D	9.5	6.3	0.36	0.35	0.29	0.41	11
6 (WP)	8.6	0.71	0.18	0.17	0.13	0.16	3.7
7A	6.4	1.3	0.42	0.40	0.34	0.42	4.2
7B	5.7	2.1	1.6	0.41	0.10	0.21	4.2
7C	6.3	1.8	1.0	0.20	0.12	0.20	4.4
7D	5.5	1.4	0.79	0.70	0.63	0.75	3.7
7E	4.1	1.0	0.57	0.34	0.18	0.22	2.8
7F	3.2	0.82	0.49	0.45	0.38	0.45	2.2
7G	3.5	1.3	1.0	0.40	0.15	0.22	2.6
7H	2.8	0.72	0.43	0.39	0.35	0.39	1.9
8 (RP)	3.6	1.6	0.34	0.22	0.17	0.24	2.7
BBD	0.16	0.04	0.01	0.009	0.006	0.009	0.1
LL	0.11	0.03	0.009	0.006	0.005	0.006	0.08
LZ	0.08	0.02	0.006	0.005	0.004	0.004	0.05
LH	0.08	0.02	0.006	0.004	0.003	0.004	0.05

10^{-6} Cancer Risk

River Reach	IMPG (mg/kg)	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9
5A	0.057	>250	108	112	106	133	112	>250
5B		>250	>250	111	103	129	107	>250
5C		>250	>250	104	96	116	96	>250
5D		>250	167	>250	>250	>250	IT	>250
6 (WP)		>250	>250	121	111	127	93	198
7A		>250	>250	>250	214	>250	226	>250
7B		>250	>250	>250	>250	122	172	>250
7C		>250	>250	>250	120	128	114	>250
7D		>250	>250	>250	>250	>250	>250	>250
7E		>250	229	>250	151	182	138	>250
7F		>250	>250	>250	235	>250	>250	>250
7G		>250	>250	>250	>250	186	165	>250
7H		>250	>250	>250	>250	>250	>250	>250
8 (RP)		>250	>250	>250	185	215	190	>250
BBD		135	26	21	22	39	17	120
LL		106	19	20	21	32	16	81
LZ		75	14	18	20	26	14	41
LH		72	13	18	19	22	14	37

10^{-5} Cancer Risk

River Reach	IMPG (mg/kg)	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9
5A	0.57	249	18	18	18	18	23	194
5B		>250	225	17	17	21	18	>250
5C		>250	131	19	20	31	14	>250
5D		>250	111	21	21	31	15	341
6 (WP)		>250	103	22	23	41	16	52
7A		>250	128	25	25	43	25	246
7B		>250	250	>250	23	43	16	>250
7C		>250	213	192	24	44	17	>250
7D		>250	155	101	76	98	91	>250
7E		243	86	52	23	44	16	>250
7F		216	87	36	32	46	30	>250
7G		>250	173	164	24	46	17	>250
7H		199	80	24	24	46	17	>250
8 (RP)		246	208	23	24	53	18	>250
BBD		0	0	0	0	0	0	0
LL		0	0	0	0	0	0	0
LZ		0	0	0	0	0	0	0
LH		0	0	0	0	0	0	0

10^{-4} Cancer Risk

River Reach	IMPG (mg/kg)	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9
5A	5.7	71	7	7	7	9	7	26
5B		107	11	10	10	13	9	65
5C		81	10	11	11	14	9	54
5D		122	54	17	17	27	11	122
6 (WP)		113	11	17	19	37	11	10
7A		63	9	9	9	11	11	11
7B		52	9	9	9	11	11	11
7C		62	9	9	9	12	11	12
7D		38	9	8	9	11	11	9
7E		11	8	6	8	10	10	8
7F		7	7	5	7	8	9	7
7G		8	7	5	7	9	9	7
7H		4	5	3	5	7	8	3
8 (RP)		7	7	5	7	9	10	6
BBD		0	0	0	0	0	0	0
LL		0	0	0	0	0	0	0
LZ		0	0	0	0	0	0	0
LH		0	0	0	0	0	0	0

Non-Cancer: Child

River Reach	IMPG (mg/kg)	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9
5A	0.71	232	14	14	14	16	16	179
5B		>250	202	16	16	20	14	>250
5C		>250	116	19	19	31	14	>250
5D		>250	105	20	21	31	15	320
6 (WP)		>250	53	22	23	41	15	180
7A		>250	107	24	24	42	17	225
7B		>250	217	238	22	42	15	>250
7C		>250	182	141	23	44	16	>250
7D		>250	129	68	51	60	58	>250
7E		222	73	27	23	44	15	212
7F		195	65	24	24	44	17	236
7G		231	140	122	23	45	16	>250
7H		178	52	22	23	45	16	>250
8 (RP)		222	174	22	24	52	18	>250
BBD		0	0	0	0	0	0	0
LL		0	0	0	0	0	0	0
LZ		0	0	0	0	0	0	0
LH		0	0	0	0	0	0	0

Non-Cancer: Adult

River Reach	IMPG (mg/kg)	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9
5A	1.5	174	11	11	11	13	10	125
5B		>250	124	14	14	18	11	203
5C		226	65	18	18	28	12	193
5D		249	87	19	19	29	13	249
6 (WP)		>250	14	20	21	40	14	122
7A		192	26	21	22	39	14	152
7B		201	103	63	21	41	14	193
7C		202	76	23	22	42	14	177
7D		206	38	22	22	42	15	180
7E		149	23	21	21	40	14	124
7F		122	19	20	21	33	14	113
7G		145	34	21	21	42	14	158
7H		106	15	19	20	32	13	99
8 (RP)		141	58	20	22	50	16	182
BBD		0	0	0	0	0	0	0
LL		0	0	0	0	0	0	0
LZ		0	0	0	0	0	0	0
LH		0	0	0	0	0	0	0

Key:

(white box) = *post-remediation EPC is higher than IMPG*

(blue box) = *post-remediation EPC is lower than IMPG*

<value> = time to achieve predicted by the model

<value> = time to achieve based on highly uncertain extrapolation of the model results as described in Section 3.2.1 of the Revised CMS Report

Notes:

[1] *Model endpoint concentrations after projection (autumn average); whole body concentrations divided by a factor of 5.0 to convert to fillet basis*

[2] *Results for CT impoundments are highly uncertain as they were estimated from the CT 1-D Analysis.*

CTE = central tendency exposure

RME = reasonable maximum exposure

BBD: Bulls Bridge Dam Impoundment; LL: Lake Lillinonah; LZ: Lake Zoar; LH: Lake Housatonic

I:\GENcms\DOCUMENTS\reports\Revised_CMS_Report\Tables\IMPG_attainment\Combined alternatives\Combined_Alt_Blue_Table_Template_NEW_20100924.xls
10/6/2010 - 7:56 AM

Table 8-12. Evaluation of attainment of IMPGs for benthic invertebrates for combined SED/FP alternatives.

Reach	Exposure Area[1]	Average 0-6" Sediment PCB Concentration (mg/kg)[2]							IMPG Attainment							
		SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	Lower Bound IMPG (mg/kg)	Upper Bound IMPG (mg/kg)	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9
5A	R5A_01	1.9	0.33	0.33	0.33	0.11	0.31	3.3	3	10	46 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	IT / 2
	R5A_02	3.7	0.18	0.17	0.17	0.084	0.20	0.92	3	10	63 / 20	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
	R5A_03	6.4	0.12	0.13	0.14	0.23	0.21	4.8	3	10	67 / 40	2 / 2	2 / 2	2 / 2	2 / 2	1 / 1	59 / 36
	R5A_04	29	0.071	0.071	0.070	0.37	0.29	27	3	10	>250 / >250	2 / 2	2 / 2	2 / 2	3 / 3	1 / 1	>250 / >250
	R5A_05	13	0.032	0.033	0.032	0.067	0.26	1.1	3	10	199 / 78	2 / 2	2 / 2	2 / 2	3 / 3	1 / 1	1 / 1
	R5A_06	7.7	0.043	0.044	0.045	0.28	0.13	2.3	3	10	IT / 12	3 / 2	3 / 2	3 / 2	4 / 3	2 / 1	2 / 1
	R5A_07	15	0.062	0.075	0.063	0.070	0.22	0.77	3	10	244 / 98	3 / 3	3 / 3	3 / 3	6 / 5	2 / 2	2 / 2
	R5A_08	17	0.028	0.024	0.023	0.021	0.18	14	3	10	>250 / 133	4 / 4	4 / 4	4 / 4	6 / 6	2 / 2	245 / 98
	R5A_09	9.9	0.022	0.021	0.021	0.027	0.11	9.9	3	10	>250 / 39	4 / 4	4 / 4	4 / 4	7 / 7	3 / 2	>250 / 51
	R5A_10	16	0.020	0.020	0.020	0.022	0.19	17	3	10	>250 / >250	6 / 5	6 / 5	6 / 5	9 / 8	3 / 3	IT / IT
	R5A_11	18	0.023	0.026	0.022	0.026	0.15	0.95	3	10	>250 / >250	7 / 7	7 / 7	7 / 7	11 / 10	4 / 4	4 / 3
5B	R5B_01	9.6	9.1	0.043	0.035	0.030	0.083	9.8	3	10	>250 / 28	>250 / 21	9 / 8	9 / 8	13 / 12	5 / 4	>250 / 45
	R5B_02	8.5	5.3	0.055	0.042	0.038	0.073	6.9	3	10	IT / 0	125 / 0	10 / 0	10 / 0	14 / 0	5 / 0	IT / 0
	R5B_03	4.7	3.2	0.058	0.060	0.050	0.077	4.4	3	10	204 / 0	61 / 0	10 / 0	10 / 0	15 / 0	5 / 0	244 / 0
	R5B_04	5.7	4.4	0.089	0.090	0.11	0.13	5.3	3	10	248 / 0	112 / 0	11 / 0	11 / 0	15 / 0	6 / 0	245 / 0
	R5B_05	5.6	3.9	0.075	0.072	0.057	0.10	5.2	3	10	115 / 0	80 / 0	12 / 0	12 / 0	16 / 0	6 / 0	105 / 0
5C	R5C_01	7.2	5.8	0.083	0.081	0.077	0.085	7.1	3	10	>250 / 0	118 / 0	13 / 0	13 / 0	19 / 0	7 / 2	>250 / 1
	R5C_02	8.0	6.4	0.12	0.12	0.090	0.13	7.8	3	10	>250 / 8	148 / 6	13 / 6	13 / 6	20 / 7	7 / 7	>250 / 10
	R5C_03	4.9	3.2	0.098	0.10	0.086	0.11	4.4	3	10	120 / 0	58 / 0	14 / 0	13 / 0	21 / 0	8 / 0	103 / 0
	R5C_04	6.1	4.4	0.11	0.12	0.088	0.13	5.7	3	10	132 / 8	79 / 6	14 / 6	14 / 6	22 / 7	8 / 8	123 / 9
	R5C_05	37	1.8	0.13	0.19	0.14	0.18	37	3	10	>250 / >250	8 / 8	14 / 14	14 / 14	24 / 23	8 / 8	>250 / >250
	R5C_06	29	1.5	0.17	0.25	0.15	0.19	27	3	10	>250 / 194	9 / 9	15 / 15	16 / 16	28 / 27	10 / 10	>250 / 171
6	Woods Pond	16	1.5	0.24	0.21	0.16	0.13	3.7	3	10	210 / 97	10 / 10	18 / 17	18 / 18	37 / 33	11 / 11	73 / 5
	7A	0.43	0.41	0.41	0.41	0.41	0.41	0.42	3	10	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
	7B	4.2	3.9	4.0	0.92	0.044	0.17	4.1	3	10	>250 / 0	174 / 0	190 / 0	19 / 0	39 / 0	12 / 0	>250 / 0
	7C	4.1	4.0	4.0	0.092	0.048	0.027	4.1	3	10	>250 / 0	>250 / 0	>250 / 0	19 / 0	40 / 0	12 / 0	>250 / 0
	7D	1.4	0.92	0.94	0.90	0.87	0.95	1.2	3	10	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
	7E	1.2	1.2	1.3	0.44	0.014	0.013	1.2	3	10	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
	7F	0.74	0.61	0.61	0.59	0.55	0.60	0.69	3	10	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
	7G	5.1	4.7	5.0	1.4	0.044	0.233	5.1	3	10	194 / 0	190 / 0	200 / 0	20 / 0	42 / 0	13 / 0	192 / 0
	7H	0.40	0.39	0.40	0.40	0.39	0.39	0.40	3	10	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
8	Rising Pond	2.9	2.7	0.35	0.13	0.070	0.20	2.8	3	10	21 / 0	25 / 0	17 / 0	20 / 0	26 / 0	14 / 0	26 / 0

Notes

[1] *Exposure areas in Reach 5 represent EPA spatial bins (1/4 to 1/2-mile segments as defined in EPA's Model Validation Report)*

[2] *Model endpoint concentrations after projection*

IMPG = interim media protection goal

IT = Increasing trend in model extrapolation; no time-to-achieve estimated.

Key:

= *post-remediation EPC is higher than Upper Bound IMPG*

= *post-remediation EPC is between Lower and Upper Bound IMPGs*

= *post-remediation EPC is below Lower Bound IMPG*

<value>/<value> = *Time to achieve the lower bound and upper bound IMPG, respectively (years)*

<value> = time to achieve predicted by the model

<value> = time to achieve based on highly uncertain extrapolation of the model results as described in Section 3.2.1 of the Revised CMS Report

Table 8-14. Evaluation of attainment of amphibian IMPGs for combined SED/FP alternatives.

Exposure Area ID[1]	Area (acre)	Floodplain Pre-Remediation EPC (mg/kg)[2]	Floodplain Post-Remediation EPC (mg/kg)[2] / Projected Sediment Concentrations (mg/kg)							IMPG Attainment							
			SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	Lower Bound IMPG (mg/kg)	Upper Bound IMPG (mg/kg)	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9
Floodplain Vernal Pools																		
5-VP-3	1.9	73	73	5.6	5.6	5.6	3.1	3.3	73	3.27	5.6							
5-VP-1	0.044	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.27	5.6							
8-VP-5	0.043	23	23	5.6	5.6	5.6	0.45	0.45	23	3.27	5.6							
8-VP-4	0.24	3.9	3.9	3.9	3.9	3.9	3.3	3.3	3.9	3.27	5.6							
8-VP-3	0.024	7.7	7.7	0.021	0.021	0.021	0.021	0.021	7.7	3.27	5.6							
8-VP-2	0.57	69	69	5.6	5.6	5.6	3.1	3.2	69	3.27	5.6							
18-VP-2	0.61	7.2	7.2	5.6	5.6	5.6	3.3	3.0	7.2	3.27	5.6							
18-VP-1	0.28	8.1	8.1	5.6	5.6	5.6	3.3	3.3	8.1	3.27	5.6							
19-VP-7	0.068	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	3.27	5.6							
19-VP-2	0.0080	34	34	0.021	0.021	0.021	0.021	0.021	34	3.27	5.6							
19-VP-1	0.18	32	32	5.6	5.6	5.6	3.3	2.4	32	3.27	5.6							
19-VP-3	0.031	10	10	5.6	5.6	5.6	3.3	2.8	10	3.27	5.6							
19-VP-4	0.094	6.0	6.0	5.6	5.6	5.6	0.021	0.021	6.0	3.27	5.6							
19-VP-8	0.057	91	91	0.021	0.021	0.021	0.021	0.021	91	3.27	5.6							
19-VP-5	0.51	45	45	5.6	5.6	5.6	3.3	3.3	45	3.27	5.6							
19-VP-6	1.2	24	24	5.6	5.6	5.6	3.3	3.3	24	3.27	5.6							
23-VP-2	0.18	47	47	5.6	3.7	3.7	3.3	0.76	47	3.27	5.6							
23-VP-1	0.30	75	75	5.6	5.3	5.3	0.021	2.2	75	3.27	5.6							
23A-VP-1	0.45	10	10	5.6	5.6	5.6	3.3	3.3	10	3.27	5.6							
23B-VP-1	0.068	7.2	7.2	5.6	5.6	5.6	3.3	3.3	7.2	3.27	5.6							
23B-VP-2	0.091	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	3.27	5.6							
27B-VP-2	0.28	11	11	5.6	5.6	5.6	3.3	3.3	11	3.27	5.6							
27B-VP-3	0.062	16	16	0.021	0.021	0.021	0.021	0.021	16	3.27	5.6							
27B-VP-1	0.072	12	12	5.6	5.6	5.6	3.3	3.3	12	3.27	5.6							
27-VP-2	0.47	21	21	5.6	5.6	5.6	3.3	3.3	21	3.27	5.6							
27A-VP-1	0.20	31	31	5.6	5.6	5.6	3.3	3.3	31	3.27	5.6							
27-VP-1	1.3	23	23	5.6	5.6	5.6	3.3	3.3	23	3.27	5.6							
26-VP-1	0.036	40	40	5.6	5.6	5.6	3.3	1.4	40	3.27	5.6							
33-VP-1	0.022	9.5	9.5	0.021	0.021	0.021	0.021	0.021	9.5	3.27	5.6							
33-VP-2	0.12	70	70	5.6	4.8	4.8	0.021	0.021	70	3.27	5.6							
38-VP-1	0.43	36	36	5.6	5.6	5.6	3.3	3.3	36	3.27	5.6							
38A-VP-1	0.020	5.0	5.0	5.0	5.0	5.0	0.021	0.021	5.0	3.27	5.6							
38-VP-3	0.046	28	28	5.6	5.6	5.6	0.021	0.021	28	3.27	5.6							
38-VP-2	0.17	46	46	5.6	5.1	5.1	3.1	3.1	46	3.27	5.6							
40-VP-3	0.46	67	67	5.6	5.6	5.6	2.7	2.7	67	3.27	5.6							
40-VP-2	0.36	18	18	5.6	5.6	5.6	3.3	3.3	18	3.27	5.6							
40A-VP-1	0.11	68	68	5.6	5.6	5.6	3.3	3.3	68	3.27	5.6							
40-VP-1	0.47	57	57	5.6	5.6	5.6	3.3	3.3	57	3.27	5.6							
42-VP-1	0.22	64	64	5.6	5.6	5.6	2.8	2.8	64	3.27	5.6							
42-VP-2	0.28	46	46	5.6	5.6	5.6	3.3	3.3	46	3.27	5.6							
42-VP-3	0.050	41	41	5.6	5.6	5.6	0.021	0.021	41	3.27	5.6							
42-VP-5	0.58	73	73	5.6	5.6	5.6	3.3	3.3	73	3.27	5.6							
42-VP-4	1.0	34	34	5.6	5.6	5.6	3.3	3.3	34	3.27	5.6							
42A-VP-1	1.5	35	35	5.6	5.6	5.6	3.3	3.3	35	3.27	5.6							
46-VP-2	7.1	140	140	5.6	5.6	5.6	3.0	3.3	140	3.27	5.6							
46-VP-1	0.52	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	3.27	5.6							
46-VP-5	0.056	125	125	0.021	0.021	0.021	0.021	0.021	125	3.27	5.6							
46-VP-3	1.4	153	153	3.2	3.2	3.2	3.3	3.2	153	3.27	5.6							
46-VP-4	0.011	125	125	0.021	0.021	0.021	0.021	0.021	125	3.27	5.6							
49A-VP-1	0.019	16	16	0.021	0.021	0.021	0.021	0.021	16	3.27	5.6							
49-VP-1	1.2	18	18	5.6	5.6	5.6	3.3	3.3	18	3.27	5.6							
49B-VP-1	0.0044	26	26	0.021	0.021	0.021	0.021	0.021	26	3.27	5.6							
66A-VP-1	0.032	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	3.27	5.6							
69-VP-1	0.0074	12	12	0.021	0.021	0.021	0.021	0.021	12	3.27	5.6							
8-VP-6	0.086	47	47	5.6	5.6	5.6	0.021	0.021	47	3.27	5.6							
12-VP-1	0.080	14	14	0.021	0.021	0.021	0.021	0.021	14	3.27	5.6							
39-VP-1	2.0	39	39	5.6	5.6	5.6	2.3	2.3	39	3.27	5.6							
54-VP-1	0.20	21	21	5.6	5.6	5.6	3.0	3.0	21	3.27	5.6							
55-VP-1	0.59	7.6	7.6	5.6	5.6	5.6	3.3	3.3	7.6	3.27	5.6							
55A-VP-1	2.0	40	40	5.6	5.6	5.6	3.2	3.2	40	3.27	5.6							
58A-VP-1	0.32	25	25	5.6	5.6	5.6	3.3	3.3	25	3.27	5.6							
67A-VP-1	0.12	51	51	5.6	5.6	5.6	3.3	3.3	51	3.27	5.6							
61A-VP-1	0.19	18	18	5.3	5.3	5.3	3.2	3.2	18	3.27	5.6							
61A-VP-2	1.2	19	19	5.5	5.5	5.5	3.3	3.3	19	3.27	5.6							
56A-VP-1	0.58	73	73	5.6	5.6	5.6	3.3	2.7	73	3.27	5.6							
23-VP-3	1.3	22	22	5.6	5.6	5.6	3.0	3.0	22	3.27	5.6							
Sediment - Small Backwaters (< 2 acres)																		
BWS_01	1.9	---	5.7	4.2	4.1	0.18	0.20	0.21	5.6	3.27	5.6	*113 / 54*	*72 / 32*	*70 / 32*	*2 / 2*	*3 / 3*	*1 / 1*	*114 / 52*
BWS_02	1.8	---	5.9	5.0	0.14	0.14	0.16	0.21	5.6	3.27	5.6	*109 / 57*	*99 / 38*	*3 / 3*	*3 / 3*	*4 / 4*	*2 / 2*	*124 / 52*
BWS_03	1.9	---	3.0	1.8	0.20	0.20	0.18	0.24	2.4	3.27	5.6	*48 / 31*	*38 / 28*	*3 / 3*	*3 / 3*	*5 / 5*	*2 / 2*	*41 / 30*
BWS_04	0.30	---	23	22	0.087	0.12	0.19	0.22	22	3.27	5.6	*>250 / >250*	*>250 / >250*	*3 / 3*	*3 / 3*	*5 / 5*	*2 / 2*	*>250 / >250*
BWS_06	0.56	---	2.2	0.26	0.24	0.18	0.13	0.19	1.3	3.27	5.6	*30 / 12*	*17 / 10*	*17 / 10*	*10 / 10*	*14 / 11*	*5 / 5*	*20 / 11*
BWS_07	0.12	---	5.4	5.4	5.4	0.030	0.11	0.11	5.4	3.27	5.6	*>250 / 4*	*>250 / 4*	*>250 / 4*	*10 / 4*	*14 / 14*	*5 / 5*	*>250 / 13*
BWS_08	0.35	---	37	37	0.060	0.061	0.29	0.26	37	3.27	5.6	*>250 / >250*	*>250 / >250*	*12 / 12*	*12 / 12*	*18 / 18*	*7 / 7*	*>250 / >250*
BWS_09	0.28	---	19	19	0.098	0.098	0.21	0.23	20	3.27	5.6	*>250 / >250*	*>250 / >250*	*13 / 13*	*13 / 13*	*18 / 18*	*7 / 7*	*>250 / >250*
BWS_10	1.5	---	16	15	0.078	0.080	0.27	0.38	16	3.27	5.6	*>250 / >250*	*>250 / >250*	*13 / 13*	*13 / 13*	*19 / 19*	*7 / 7*	*>250 / >250*
BWS_11	0.11	---	2.1	0.14	0.12	0.13	0.093	0.13	1.3	3.27	5.6	*10 / 5*	*7 / 5*	*7 / 5*	*7 / 5*	*8 / 5*	*7 / 5*	*8 / 5*
BWS_12	1.7	---	6.1	4.7	4.2	0.11	0.10	0.14	6.0	3.27	5.6	*109 / 61*	*76 / 42*	*67 / 38*	*13 / 13*	*20 / 20*	*7 / 7*	*107 / 59*
BWS_13	0.37	---	10	9.2	8.9	0.11	0.10	0.10	10	3.27	5.6	*>250 / >250*	*>250 / >250*	*>250 / >250*	*13 / 13*	*20 / 20*	*7 / 7*	*>250 / >250*
BWS_14	0.57	---	8.8	8.1	7.8	0.049	0.20	0.14	9.0	3.27	5.6	*>250 / 213*	*>250 / 143*	*>250 / 130*	*13 / 13*	*20 / 20*	*7 / 7*	*>250 / >250*
BWS_15	0.90	---	8.9	6.7	5.6	0.10	0.12	0.16	9.2	3.27	5.6	*167 / 107*	*116 / 69*	*86 / 52*	*13 / 13*	*21 / 21*	*7 / 7*	*201 / 124*
BWS_16	1.0	---	3.2	1.2	0.77	0.094	0.12	0.14	2.8	3.27	5.6	*52 / 23*	*30 / 17*	*27 / 17*	*14 / 14*	*21 / 18*	*8 / 8*	*46 / 22*
BWS_17	0.58	---	2.4	0.44	0.27	0.11	0.088	0.13	1.6	3.27	5.6	*32 / 6*	*14 / 5*	*15 / 5*	*14 / 5*	*16 / 6*	*8 / 6*	*19 / 6*
BWS_18	0.84	---	2.3	0.29	0.24	0.10	0.074	0.11	1.4	3.27	5.6	*32 / 12*	*19 / 11*	*20 / 10*	*14 / 10*	*19 / 11*	*8 / 8*	*22 / 11*
BWS_19	0.99	---	20	20	0.074	0.072	0.11	0.15	21	3.27	5.6	*>250 / >250*	*>250 / >250*	*14 / 14*	*14 / 14*	*23 / 23*	*8 / 8*	*>250 / >250*
BWS_20	1.3	---	5.8	4.4	4.1	0.11	0.12	0.14	6.4	3.27	5.6	*95 / 55*	*74 / 36*	*67 / 36*	*15 / 15*	*24 / 24*	*8 / 8*	*130 / 68*

Table 8-14. Evaluation of attainment of amphibian IMPGs for combined SED/FP alternatives.

Exposure Area ID[1]	Area (acre)	Floodplain Pre-Remediation EPC (mg/kg)[2]	Floodplain Post-Remediation EPC (mg/kg)[2] / Projected Sediment Concentrations (mg/kg)							IMPG Attainment							
			SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	Lower Bound IMPG (mg/kg)	Upper Bound IMPG (mg/kg)	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9
Sediment - Large Backwaters (> 2 acres)																		
BWL_01	2.1	---	11	11	0.11	1.5	0.15	0.18	11	3.27	5.6	*180 / 124*	*166 / 115*	*8 / 8*	*8 / 8*	*12 / 12*	*4 / 4*	*177 / 123*
BWL_02	5.5	---	5.7	4.2	3.9	0.11	0.14	0.17	5.2	3.27	5.6	*97 / 54*	*66 / 35*	*60 / 32*	*12 / 12*	*17 / 17*	*6 / 6*	*87 / 48*
BWL_03	2.4	---	3.6	2.2	1.8	0.096	0.10	0.14	3.3	3.27	5.6	*58 / 25*	*37 / 16*	*33 / 16*	*13 / 13*	*19 / 18*	*7 / 7*	*53 / 22*
BWL_04	2.1	---	4.4	2.4	1.9	0.12	0.14	0.15	3.8	3.27	5.6	*81 / 32*	*38 / 26*	*34 / 26*	*14 / 14*	*21 / 21*	*8 / 8*	*66 / 31*
BWL_05	12	---	14	12	0.22	0.25	0.11	0.19	14	3.27	5.6	*200 / 146*	*147 / 108*	*14 / 14*	*14 / 14*	*23 / 23*	*8 / 8*	*202 / 147*
BWL_07	22	---	20	19	0.17	0.18	0.11	0.22	20	3.27	5.6	*>250 / >250*	*>250 / 225*	*15 / 15*	*15 / 15*	*25 / 25*	*9 / 9*	*>250 / >250*
BWL_08	4.1	---	13	11	1.3	0.19	0.10	0.18	14	3.27	5.6	*>250 / 183*	*207 / 140*	*15 / 15*	*15 / 15*	*26 / 26*	*9 / 9*	*>250 / >250*
BWL_09	7.0	---	15	14	0.16	0.24	0.10	0.18	15	3.27	5.6	*>250 / 228*	*239 / 170*	*15 / 15*	*16 / 15*	*26 / 26*	*10 / 9*	*>250 / 227*
BWL_10	6.4	---	13	12	0.13	0.18	0.16	0.21	13	3.27	5.6	*>250 / 223*	*>250 / 189*	*15 / 15*	*16 / 16*	*27 / 27*	*10 / 10*	*>250 / 226*
BWL_11	4.6	---	2.3	2.3	0.024	0.024	0.022	0.023	2.3	3.27	5.6	*0 / 0*	*0 / 0*	*0 / 0*	*0 / 0*	*0 / 0*	*0 / 0*	*0 / 0*

Key:

= *post-remediation EPC is higher than Upper Bound IMPG*

= *post-remediation EPC is between Lower and Upper Bound IMPGs*

= *post-remediation EPC is below Lower Bound IMPG*

<*value*> = Time to achieve the IMPG (years), as predicted by the model

<*value*> = Time to achieve the IMPG (years), based on highly uncertain extrapolation of the model results as described in Section 3.2.1 of the Revised CMS Report

Notes:

[1] *See Revised CMS Report Figure 4-5 for locations of vernal pools.*

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

Table 8-16. Evaluation of attainment of IMPGs for fish protection for combined SED/FP alternatives.

Ecological Receptor	Reach	Projected Fish Concentrations (mg/kg)[1]							IMPG Attainment							
		SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	IMPG (mg/kg)	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9
Fish protection	Warmwater fish tissue (whole body)															
	5A	28	0.98	1.0	0.99	0.68	1.2	16	55	*5*	*3*	*3*	*3*	*3*	*4*	*3*
	5B	36	12	0.89	0.86	0.58	1.1	25		*8*	*5*	*5*	*5*	*6*	*6*	*4*
	5C	29	7.0	0.65	0.63	0.43	0.71	22		*0*	*0*	*0*	*0*	*0*	*6*	*0*
	5D	36	24	1.4	1.4	1.1	1.6	41		*36*	*11*	*14*	*15*	*24*	*9*	*36*
	6 (WP)	34	2.8	0.70	0.68	0.50	0.64	14		*7*	*5*	*5*	*5*	*5*	*7*	*4*
	7A	25	4.8	1.6	1.5	1.3	1.6	16		*0*	*0*	*0*	*0*	*0*	*6*	*0*
	7B	22	8.2	6.1	1.6	0.40	0.82	16		*0*	*0*	*0*	*0*	*0*	*0*	*0*
	7C	24	6.7	4.0	0.77	0.47	0.75	17		*0*	*0*	*0*	*0*	*0*	*0*	*0*
	7D	21	5.2	3.0	2.7	2.5	2.9	14		*0*	*0*	*0*	*0*	*0*	*0*	*0*
	7E	16	3.9	2.2	1.3	0.71	0.84	11		*0*	*0*	*0*	*0*	*0*	*0*	*0*
	7F	13	3.1	1.9	1.7	1.5	1.7	8.5		*0*	*0*	*0*	*0*	*0*	*0*	*0*
	7G	14	4.8	3.9	1.5	0.60	0.84	9.9		*0*	*0*	*0*	*0*	*0*	*0*	*0*
	7H	11	2.8	1.6	1.5	1.3	1.5	7.4		*0*	*0*	*0*	*0*	*0*	*0*	*0*
	8 (RP)	14	6.0	1.3	0.84	0.67	0.91	10		*0*	*0*	*0*	*0*	*0*	*0*	*0*
	Coldwater fish tissue (whole body) - Trout Below PSA															
	7A	49	9.6	3.2	3.0	2.6	3.2	32	14	*173*	*18*	*20*	*21*	*34*	*13*	*137*
	7B	44	16	12	3.2	0.81	1.6	32		*179*	*77*	*30*	*20*	*40*	*13*	*174*
	7C	49	13	7.9	1.5	0.95	1.5	33		*181*	*51*	*21*	*21*	*41*	*14*	*159*
	7D	42	10	6.0	5.4	4.9	5.7	29		*183*	*22*	*20*	*21*	*41*	*14*	*159*
	7E	32	7.7	4.4	2.6	1.4	1.7	22		*130*	*18*	*20*	*20*	*33*	*13*	*104*
	7F	25	6.3	3.7	3.4	3.0	3.5	17		*104*	*14*	*19*	*20*	*31*	*13*	*83*
	7G	27	9.7	7.8	3.0	1.2	1.7	20		*123*	*21*	*19*	*20*	*33*	*13*	*122*
	7H	22	5.5	3.3	3.0	2.7	2.9	15		*89*	*12*	*11*	*19*	*30*	*12*	*61*

Notes

[1] *Model endpoint concentrations after projection (autumn average)*

IMPG = interim media protection goal

IT = Increasing trend in model extrapolation; no time-to-achieve estimated.

Key

= model prediction exceeds the IMPG

= model prediction is lower than the IMPG

<value> = Time to achieve the IMPG (years), as predicted by the model

<value> = Time to achieve the IMPG (years), based on highly uncertain extrapolation of the model results as described in Section 3.2.1 of the Revised CMS Repo

Table 8-18. Evaluation of IMPG attainment for insectivorous birds (wood duck) for combined SED/FP alternatives.

Reach	Averaging Area	Model-Predicted Sediment Endpoint PCB Concentrations (mg/kg)							Calculated Target Floodplain Soil Levels (mg/kg)[1]							Post-Remediation Floodplain EPC (mg/kg)							IMPG Attainment						
		SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9
5A	K1	4.3	0.20	0.20	0.21	0.089	0.24	2.8	33	54	54	54	55	54	40	29	21	17	17	3.4	13	28	■	■	■	■	■	■	■
	K2	11	1.8	0.80	0.093	0.36	0.22	7.1	*n/a*	46	51	55	53	54	18	9.8	7.9	6.7	6.7	4.6	6.7	7.9	■	■	■	■	■	■	■
	K3	13	1.7	0.058	0.058	0.063	0.17	7.9	*n/a*	46	55	55	55	54	14	53	19	18	18	2.7	11	26		■	■	■	■	■	
	K4	15	0.020	0.020	0.020	0.024	0.17	15	*n/a*	55	55	55	55	54	*n/a*	16	15	12	12	4.6	11	16		■	■	■	■	■	
	K5	19	0.023	0.024	0.023	0.028	0.16	0.74	*n/a*	55	55	55	55	54	51	22	18	14	14	6.0	14	21		■	■	■	■	■	■
5B	K6	9.7	7.4	0.053	0.31	0.051	0.11	8.3	*n/a*	0.3	55	53	55	54	*n/a*	25	24	19	19	5.7	18	25			■	■	■	■	
	K7	6.3	4.2	0.16	0.065	0.062	0.092	5.5	8.4	24	54	55	55	54	15	30	22	22	22	4.5	15	28		■	■	■	■	■	
	K8	7.3	5.8	1.2	0.085	0.095	0.12	7.0	1.0	12	46	54	54	54	3.3	24	18	18	18	4.7	11	23			■	■	■	■	
5C/D	K9	7.0	5.4	1.4	0.10	0.11	0.14	6.7	42	45	52	55	55	55	42	25	23	17	17	8.3	12	25	■	■	■	■	■	■	■
	K10	18	7.2	0.17	0.19	0.11	0.17	18	21	41	55	55	55	55	22	13	12	12	12	7.4	9.5	13	■	■	■	■	■	■	■
	K11	20	12	0.40	0.20	0.11	0.18	20	17	32	54	55	55	55	18	14	14	13	13	6.1	11	14	■	■	■	■	■	■	■
6	K12	19	1.8	0.21	0.22	0.16	0.16	8.5	20	52	55	55	55	55	40	23	23	15	15	11	12	23		■	■	■	■	■	■

Key

■ = IMPG is attained

Notes:

(n/a) denotes IMPG values not attainable given the predicted sediment level.

[1] *Target floodplain soil levels calculated in accordance with method described in Appendix D to the Revised CMS Report.*

Table 8-20. Evaluation of attainment of IMPGs for consumption of fish by piscivorous birds and threatened and endangered species for combined SED/FP alternatives.

Ecological Receptor	Reach	Projected Fish Concentrations (mg/kg)[1]							IMPG Attainment							
		SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	IMPG (mg/kg)	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9
Piscivorous birds (represented by osprey)	Fish tissue (whole body)															
	5A	21	0.55	0.56	0.55	0.38	0.71	11	3.2	*211*	*10*	*10*	*10*	*12*	*9*	*173*
	5B	22	11	0.44	0.42	0.30	0.54	17	3.2	*>250*	*202*	*12*	*12*	*17*	*10*	*>250*
	5C	23	7.0	0.41	0.41	0.28	0.44	20	3.2	*>250*	*114*	*17*	*17*	*28*	*11*	*>250*
	5D	21	15	0.79	0.77	0.62	0.83	24	3.2	*244*	*96*	*18*	*18*	*28*	*12*	*199*
	6 (WP)	22	1.9	0.45	0.43	0.32	0.40	9.1	3.2	*>250*	*13*	*19*	*20*	*39*	*13*	*146*
	7A	11	2.4	1.1	1.1	0.97	1.1	7.2	3.2	*173*	*18*	*20*	*20*	*34*	*13*	*150*
	7B	16	8.4	7.5	1.7	0.26	0.63	13	3.2	*>250*	*>250*	*>250*	*20*	*40*	*13*	*>250*
	7C	12	4.4	3.2	0.36	0.23	0.33	8.6	3.2	*203*	*130*	*41*	*20*	*41*	*13*	*210*
	7D	11	3.4	2.5	2.3	2.2	2.4	7.7	3.2	*244*	*64*	*22*	*21*	*42*	*15*	*248*
	7E	7.4	2.2	1.5	0.79	0.32	0.36	5.1	3.2	*133*	*22*	*19*	*19*	*36*	*12*	*112*
	7F	6.1	1.9	1.3	1.2	1.1	1.2	4.2	3.2	*119*	*17*	*18*	*20*	*31*	*12*	*103*
	7G	7.3	3.5	3.1	1.1	0.28	0.42	5.7	3.2	*171*	*68*	*22*	*20*	*42*	*13*	*189*
	7H	5.0	1.5	1.1	1.0	0.95	1.0	3.5	3.2	*94*	*12*	*11*	*19*	*29*	*12*	*78*
	8 (RP)	7.8	4.4	0.78	0.43	0.34	0.49	6.3	3.2	*156*	*115*	*19*	*21*	*49*	*15*	*243*
Threatened and endangered species (represented by bald eagle)	Fish tissue (whole body)															
	5A	25	0.45	0.46	0.45	0.31	0.65	13	30.41	*31*	*3*	*3*	*4*	*5*	*3*	*3*
	5B	23	13	0.40	0.38	0.28	0.49	19	30.41	*9*	*5*	*5*	*5*	*6*	*5*	*4*
	5C	24	7.7	0.37	0.38	0.26	0.40	21	30.41	*24*	*7*	*7*	*7*	*8*	*7*	*7*
	5D	19	15	0.67	0.62	0.49	0.66	21	30.41	*25*	*10*	*14*	*14*	*21*	*8*	*35*
	6 (WP)	18	1.6	0.34	0.32	0.24	0.28	6.8	30.41	*7*	*5*	*5*	*5*	*5*	*7*	*4*
	7A	9.2	2.3	1.2	1.1	1.1	1.2	6.2	30.41	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	7B	16	9.5	8.8	1.9	0.24	0.63	13	30.41	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	7C	11	4.7	3.7	0.32	0.20	0.28	8.2	30.41	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	7D	10	3.6	2.9	2.7	2.5	2.9	7.4	30.41	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	7E	6.5	2.2	1.7	0.81	0.27	0.31	4.6	30.41	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	7F	5.5	1.9	1.4	1.4	1.2	1.4	3.9	30.41	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	7G	7.0	3.8	3.6	1.1	0.24	0.39	5.7	30.41	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	7H	4.4	1.5	1.1	1.1	1.0	1.1	3.2	30.41	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	8 (RP)	7.7	4.9	0.79	0.41	0.32	0.47	6.4	30.41	*0*	*0*	*0*	*0*	*0*	*0*	*0*

Notes

[1] *Model endpoint concentrations after projection (autumn average)*

IMPG = interim media protection goal

IT = Increasing trend in model extrapolation; no time-to-achieve estimated.

Key

= model prediction exceeds the IMPG

= model prediction is lower than the IMPG

<value> = Time to achieve the IMPG (years), as predicted by the model

<value> = Time to achieve the IMPG (years), based on highly uncertain extrapolation of the model results as described in Section 3.2.1 of the Revised CMS Report

Table 8-22. Evaluation of IMPG attainment for piscivorous mammals (mink) for combined SED/FP alternatives.

Model-Predicted Sediment Endpoint PCB Concentrations (mg/kg)

Averaging Area	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9
Reaches 5A/5B	11	2.9	0.40	0.11	0.087	0.16	6.9
Reaches 5C/5D/6	17	6.2	0.42	0.19	0.13	0.16	13

Calculated Target Floodplain Soil Levels (mg/kg)[1]

Averaging Area	Lower Bound SED 2 / FP 1	Lower Bound SED 3 / FP 3	Lower Bound SED 5 / FP 4	Lower Bound SED 6 / FP 4	Lower Bound SED 8 / FP 7	Lower Bound SED 9 / FP 8	Lower Bound SED 10 / FP 9	Upper Bound SED 2 / FP 1	Upper Bound SED 3 / FP 3	Upper Bound SED 5 / FP 4	Upper Bound SED 6 / FP 4	Upper Bound SED 8 / FP 7	Upper Bound SED 9 / FP 8	Upper Bound SED 10 / FP 9
Reaches 5A/5B	*n/a*	*n/a*	6.9	8.6	8.7	8.3	*n/a*	*n/a*	5.7	20	22	22	21	*n/a*
Reaches 5C/5D/6	*n/a*	*n/a*	8.0	8.4	8.6	8.5	*n/a*	*n/a*	9.4	21	21	21	21	*n/a*

Post-Remediation Floodplain EPC (mg/kg)[1]

Averaging Area	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9
Reaches 5A/5B	22	17	14	14	3.4	12	20
Reaches 5C/5D/6	17	15	14	14	6.7	9.8	17

IMPG Attainment (■ = shaded cell)

Averaging Area	Lower Bound SED 2 / FP 1	Lower Bound SED 3 / FP 3	Lower Bound SED 5 / FP 4	Lower Bound SED 6 / FP 4	Lower Bound SED 8 / FP 7	Lower Bound SED 9 / FP 8	Lower Bound SED 10 / FP 9	Upper Bound SED 2 / FP 1	Upper Bound SED 3 / FP 3	Upper Bound SED 5 / FP 4	Upper Bound SED 6 / FP 4	Upper Bound SED 8 / FP 7	Upper Bound SED 9 / FP 8	Upper Bound SED 10 / FP 9
Reaches 5A/5B					■					■	■	■	■	
Reaches 5C/5D/6					■					■	■	■	■	

Key

■ = IMPG is attained

Notes:

(n/a) denotes IMPG values not attainable given the predicted sediment level.

[1] *Target floodplain soil levels calculated in accordance with method described in Appendix E to the Revised CMS Report.*

Table 8-24. Evaluation of attainment of IMPGs for omnivorous/carnivorous mammals for combined SED/FP alternatives.

Averaging Area ID[1]	Pre-Remediation EPC (mg/kg)[2]	Floodplain Post-Remediation EPC (mg/kg)[2]							IMPG Attainment								
		SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9	Lower Bound IMPG (mg/kg)	Upper Bound IMPG (mg/kg)	SED 2 / FP 1	SED 3 / FP 3	SED 5 / FP 4	SED 6 / FP 4	SED 8 / FP 7	SED 9 / FP 8	SED 10 / FP 9
G1	20	20	14	12	12	3.3	9.9	19	21.1	34.3							
G2	51	51	18	14	14	2.7	11	23	21.1	34.3							
G3	19	19	17	14	14	3.5	13	18	21.1	34.3							
G4	27	27	24	21	21	5	18	27	21.1	34.3							
G5	28	28	23	19	19	6.3	10	28	21.1	34.3							
G6	12	12	12	12	12	7.1	9.3	12	21.1	34.3							
G7	18	18	17	14	14	8.3	12	17	21.1	34.3							

Key:

= *post-remediation EPC is higher than Upper Bound IMPG*

= *post-remediation EPC is between Lower and Upper Bound IMPGs*

= *post-remediation EPC is below Lower Bound IMPG*

Notes:

[1] *See Revised CMS Report Figure 4-6 for averaging areas for omnivorous/carnivorous mammals (based on short-tailed shrews).*

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