

Tables

Table 4-1
Summary Table for Figures in Section 4 and Appendix K

Figure Type	Report Section	Figure Number									
		RM 17.4 – RM 15.6	RM 15.6 – RM 14	RM 14 – RM 12.5	RM 12.5 – RM 11.2	RM 11.2 – RM 10.4	RM 10.4 – RM 9.2	RM 9.2 – RM 7.8	RM 7.8 – RM 5	RM 5 – RM 2.3	RM 2.3 – RM 0
Shoreline Types	Section 4	Figure 4.2.1-1	Figure 4.2.2-1	Figure 4.2.3-1	Figure 4.2.4-1	Figure 4.2.5-1	Figure 4.2.6-1	Figure 4.2.7-1	Figure 4.2.8-1	Figure 4.2.9-1	Figure 4.2.10-1
Model-Predicted Shear Stress	Section 4	Figure 4.2.1-2	Figure 4.2.2-2	Figure 4.2.3-2	Figure 4.2.4-4	Figure 4.2.5-4	Figure 4.2.6-6	Figure 4.2.7-6	Figure 4.2.8-2	Figure 4.2.9-2	Figure 4.2.10-2
Side Scan Sonar Sediment Types	Section 4	Figure 4.2.1-3	Figure 4.2.2-3	Figure 4.2.3-3	Figure 4.2.4-2	Figure 4.2.5-5	Figure 4.2.6-2	Figure 4.2.7-4	Figure 4.2.8-3	Figure 4.2.9-3	Figure 4.2.10-3
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Bathymetry Cross Sections	Section 4		Figure 4.2.2-5	Figure 4.2.3-5	Figure 4.2.4-8	Figure 4.2.5-4	Figure 4.2.6-7	Figure 4.2.7-3	Figure 4.2.8-7	Figure 4.2.9-8	Figure 4.2.10-7
2007-2012 Multi-beam Bathymetry Differential Comparison	Section 4		Figure 4.2.2-6	Figure 4.2.3-6	Figure 4.2.4-6	Figure 4.2.5-8	Figure 4.2.6-5	Figure 4.2.7-7	Figure 4.2.8-6	Figure 4.2.9-6	
Cs-137 Cores with Side Scan Sonar Sediment Type	Section 4		Figure 4.2.2-7	Figure 4.2.3-8	Figure 4.2.4-3	Figure 4.2.5-6	Figure 4.2.6-3	Figure 4.2.7-5	Figure 4.2.8-5	Figure 4.2.9-5	Figure 4.2.10-8
Bathymetry Temporals Over 2,3,7,8-TCDD Vertical Profiles	Section 4			Figure 4.2.3-14	Figure 4.2.4-14	Figure 4.2.5-19	Figure 4.2.6-14	Figure 4.2.7-15	Figure 4.2.8-15	Figure 4.2.9-15	Figure 4.2.10-14
Sediment Contaminant Concentration and Mass Versus 2,3,7,8-TCDD	Section 4		Figure 4.2.2-13	Figure 4.2.3-15	Figure 4.2.4-15	Figure 4.2.5-20	Figure 4.2.6-15	Figure 4.2.7-16	Figure 4.2.8-16	Figure 4.2.9-16	Figure 4.2.10-15
Surface and Subsurface Concentration over Sediment Type (Side-by-Side Maps)											
2,3,7,8-TCDD	Section 4		Figure 4.2.2-8 [a-b]	Figure 4.2.3-9 [a-b]	Figure 4.2.4-9 [a-b]	Figure 4.2.5-11a	Figure 4.2.6-8 [a-b]	Figure 4.2.7-11 [a-b]	Figure 4.2.8-9 [a-d]	Figure 4.2.9-9 [a-c]	Figure 4.2.10-9 [a-c]
Total PCB	Section 4		Figure 4.2.2-8 [c-d]	Figure 4.2.3-9 [c-d]	Figure 4.2.4-9 [c-d]	Figure 4.2.5-11b	Figure 4.2.6-8 [c-d]	Figure 4.2.7-11 [c-d]	Figure 4.2.8-9 [e-h]	Figure 4.2.9-9 [d-f]	Figure 4.2.10-9 [d-f]
Total DDx	Appendix K		Figure 6-1	Figure 6-2	Figure 6-3	Figure 6-4	Figure 6-5	Figure 6-6	Figure 6-7	Figure 6-8	Figure 6-9
Mercury	Appendix K		Figure 7-1	Figure 7-2	Figure 7-3	Figure 7-4	Figure 7-5	Figure 7-6	Figure 7-7	Figure 7-8	Figure 7-9
HMW PAH	Appendix K		Figure 8-1	Figure 8-2	Figure 8-3	Figure 8-4	Figure 8-5	Figure 8-6	Figure 8-7	Figure 8-8	Figure 8-9
LMW PAH	Appendix K		Figure 9-1	Figure 9-2	Figure 9-3	Figure 9-4	Figure 9-5	Figure 9-6	Figure 9-7	Figure 9-8	Figure 9-9
Surface and Subsurface Sediment Concentration over 2004 Bathymetry (Stacked Core Maps)											
2,3,7,8-TCDD	Section 4	Figure 4.2.1-5	Figure 4.2.2-9	Figure 4.2.3-10	Figure 4.2.4-10	Figure 4.2.5-10	Figure 4.2.6-9	Figure 4.2.7-10	Figure 4.2.8-10	Figure 4.2.9-10	Figure 4.2.10-10
Total PCB	Section 4	Figure 4.2.1-6	Figure 4.2.2-10	Figure 4.2.3-11	Figure 4.2.4-11	Figure 4.2.5-12	Figure 4.2.6-10	Figure 4.2.7-12	Figure 4.2.8-11	Figure 4.2.9-11	Figure 4.2.10-11
DDx	Section 4	Figure 4.2.1-7	Figure 4.2.2-11	Figure 4.2.3-12	Figure 4.2.4-12	Figure 4.2.5-13	Figure 4.2.6-11	Figure 4.2.7-13	Figure 4.2.8-12	Figure 4.2.9-12	Figure 4.2.10-12
Mercury	Section 4	Figure 4.2.1-8	Figure 4.2.2-12	Figure 4.2.3-13	Figure 4.2.4-13	Figure 4.2.5-14	Figure 4.2.6-12	Figure 4.2.7-14	Figure 4.2.8-13	Figure 4.2.9-13	Figure 4.2.10-13
HMW PAH	Section 4	Figure 4.2.1-9	Figure 4.2.2-14	Figure 4.2.3-16	Figure 4.2.4-16	Figure 4.2.5-21	Figure 4.2.6-16	Figure 4.2.7-17	Figure 4.2.8-17	Figure 4.2.9-17	Figure 4.2.10-16
LMW PAH	Section 4	Figure 4.2.1-10	Figure 4.2.2-15	Figure 4.2.3-17	Figure 4.2.4-17	Figure 4.2.5-22	Figure 4.2.6-17	Figure 4.2.7-18	Figure 4.2.8-18	Figure 4.2.9-18	Figure 4.2.10-17

Table 4-1
Summary Table for Figures in Section 4 and Appendix K

Figure Type	Report Section	Figure Number									
		RM 17.4 – RM 15.6	RM 15.6 – RM 14	RM 14 – RM 12.5	RM 12.5 – RM 11.2	RM 11.2 – RM 10.4	RM 10.4 – RM 9.2	RM 9.2 – RM 7.8	RM 7.8 – RM 5	RM 5 – RM 2.3	RM 2.3 – RM 0
Surface and Subsurface Sediment Concentration over Erosional-Depositional Patterns (3-D Maps)											
3D Maps: 2,3,7,8-TCDD	Section 4			Figure 4.2.3-7	Figure 4.2.4-7	Figure 4.2.5-18	Figure 4.2.6-13	Figure 4.2.7-9	Figure 4.2.8-8	Figure 4.2.9-7	Figure 4.2.10-6
3D Maps: Total PCB	Appendix K			Figure 1-1	Figure 1-2	Figure 1-3	Figure 1-4	Figure 1-5	Figure 1-6	Figure 1-7	Figure 1-8
3D Maps: DDx	Appendix K			Figure 2-1	Figure 2-2	Figure 2-3	Figure 2-4	Figure 2-5	Figure 2-6	Figure 2-7	Figure 2-8
3D Maps: Mercury	Appendix K			Figure 3-1	Figure 3-2	Figure 3-3	Figure 3-4	Figure 3-5	Figure 3-6	Figure 3-7	Figure 3-8
3D Maps: HMW PAH	Appendix K			Figure 4-1	Figure 4-2	Figure 4-3	Figure 4-4	Figure 4-5	Figure 4-6	Figure 4-7	Figure 4-8
3D Maps: LMW PAH	Appendix K			Figure 5-1	Figure 5-2	Figure 5-3	Figure 5-4	Figure 5-5	Figure 5-6	Figure 5-7	Figure 5-8

Note:
This table only includes figure types that are produced for most of the reaches. Figures specifically produced for only one or two reaches are excluded from this table.
2,3,7,8-TCDD: 2,3,7,8-tetrachlorodibenzo-p-dioxin
Cs-137: cesium-137
DDx: the sum of dichlorodiphenyltrichloroethane (DDT) and its breakdown products dichlorodiphenyldichloroethylene (DDE) and dichlorodiphenyldichloroethane (DDD)
HMW: high molecular weight
LMW: low molecular weight
PAH: polycyclic aromatic hydrocarbon
PCB: polychlorinated biphenyl
RM: river mile

Table 4-2
Contaminants of Concern in Sediments for RM 17.4 to RM 15.6

Depth Interval (feet)	Unit	2,3,7,8-TCDD	Total PCB	Total DDx	Mercury	HMW PAH	LMW PAH
		ng/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Surface Sediments, 0–0.5	Frequency of Detection	7/9	9/9	9/9	9/9	5/5	9/9
	Minimum	0.026	0.010	0.0029	0.071	2.2	0.42
	Maximum	1.6	2.9	0.047	1.8	54	7.5
	Mean	0.67	0.43	0.020	0.52	24	5.2
	Median	0.52	0.11	0.017	0.40	20	6.1
0.5–1.5	Minimum	0.038	0.0063	0.00031	0.0022	0.025	0.022
	Maximum	0.039	0.38	0.055	0.47	55	13
	Mean	0.039	0.19	0.028	0.22	20	4.7
	Median	0.039	0.19	0.028	0.18	4.5	0.66
1.5–2.5	Minimum	-	-	-	-	-	-
	Maximum	-	-	-	-	-	-
	Mean	-	-	-	-	-	-
	Median	-	-	-	-	-	-
2.5–3.5	Minimum	-	-	-	-	-	-
	Maximum	-	-	-	-	-	-
	Mean	-	-	-	-	-	-
	Median	-	-	-	-	-	-
3.5–5.5	Minimum	-	-	-	-	-	-
	Maximum	-	-	-	-	-	-
	Mean	-	-	-	-	-	-
	Median	-	-	-	-	-	-
5.5–End	Minimum	-	-	-	-	-	-
	Maximum	-	-	-	-	-	-
	Mean	-	-	-	-	-	-
	Median	-	-	-	-	-	-

Notes:

Based on 2005 to 2013 data; segments in overlapping layers were assigned starting layer

HMW PAH: high-molecular-weight polycyclic aromatic hydrocarbon

LMW PAH: low-molecular-weight polycyclic aromatic hydrocarbon

mg/kg: milligrams per kilogram or parts per million (ppm)

ng/kg: nanograms per kilogram or parts per trillion (ppt)

PCB: polychlorinated biphenyl

RM: River Mile

TCDD: Tetrachlorodibenzo-p-dioxin

Table 4-3
Contaminants of Concern in Sediments for RM 15.4 to RM 14

Depth Interval (feet)	Unit	2,3,7,8-TCDD	Total PCB	Total DDx	Mercury	HMW PAH	LMW PAH
		ng/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Surface Sediments, 0–0.5	Frequency of Detection	22/27	27/27	25/26	29/29	14/14	27/27
	Minimum	0.029	0.0076	0.0016	0.016	0.72	0.064
	Maximum	3,810	7.7	0.38	10	83	42
	Mean	172	0.52	0.041	0.94	22	6.3
	Median	0.68	0.14	0.012	0.27	14	3.1
0.5–1.5	Minimum	0.027	0.0000020	0.00013	0.0026	0.027	0.022
	Maximum	2,130	24	0.072	15	67	18
	Mean	196	2.4	0.025	1.6	14	3.4
	Median	0.20	0.064	0.0092	0.15	5.4	1.2
1.5–2.5	Minimum	0.037	0.0000025	0.00013	0.0018	0.025	0.022
	Maximum	94	3.0	0.22	13	79	22
	Mean	16	0.58	0.069	1.8	23	5.4
	Median	1.06	0.32	0.042	0.25	15	3.1
2.5–3.5	Minimum	0.027	0.0000083	0.00013	0.0024	0.025	0.022
	Maximum	19	3.4	0.19	3.1	46	11
	Mean	4.6	0.58	0.047	0.83	13	3.1
	Median	1.18	0.21	0.026	0.24	9.2	2.6
3.5–5.5	Minimum	0.021	0.0000016	0.00013	0.0078	0.032	0.022
	Maximum	40	2.8	0.19	18	77	20
	Mean	14	0.83	0.083	3.5	32	8.1
	Median	7.4	0.44	0.066	0.61	24	6.2
5.5–End	Minimum	0.049	0.00050	0.033	0.0025	0.027	0.022
	Maximum	217	3.8	2.9	4	156	60
	Mean	40	1.4	0.36	1.9	45	14
	Median	22	1.4	0.15	1.9	36	9.1

Notes:

Based on data collected in 2005 to 2013; segments in overlapping layers were assigned to the starting layer.

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PCB: polychlorinated biphenyl

RM: River Mile

TCDD: Tetrachlorodibenzo-p-dioxin

Table 4-4
Contaminants of Concern in Sediments for RM 14 to RM 12.5

Depth Interval (feet)	Unit	2,3,7,8-TCDD	Total PCB	Total DDx	Mercury	HMW PAH	LMW PAH
		ng/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Surface Sediments, 0–0.5	Frequency of Detection	34/34	34/34	31/31	38/38	24/24	35/35
	Minimum	0.98	0.039	0.0025	0.15	13	0.66
	Maximum	1,550	8.9	0.80	3	120	36
	Mean	177	1.1	0.11	0.85	46	7.8
	Median	49	0.42	0.034	0.70	34	4.9
0.5–1.5	Minimum	0.46	0.0080	0.00031	0.15	3.0	0.37
	Maximum	2,095	4.4	0.19	13	50	14
	Mean	197	0.93	0.046	1.9	26	5.3
	Median	58	0.66	0.020	1.3	25	5.8
1.5–2.5	Minimum	0.31	0.00092	0.00016	0.0120	0.12	0.055
	Maximum	19,247	14	0.30	10	142	31
	Mean	1,244	1.9	0.071	2.0	30	6.2
	Median	89	1.12	0.050	1.8	25	4.7
2.5–3.5	Minimum	1.1	0.00022	0.00013	0.0018	0.025	0.022
	Maximum	9,390	34	0.14	16	60	17
	Mean	1,439	5.1	0.053	5.4	31	7.8
	Median	43	0.93	0.046	2.9	36	6.9
3.5–5.5	Minimum	0.24	0.00027	0.00006	0.011	0.093	0.017
	Maximum	9,650	22	0.13	20	68	17
	Mean	1,379	3.7	0.059	6.3	26	5.6
	Median	184	0.91	0.055	1.6	22	5.0
5.5–End	Minimum	0.15	0.00022	0.000073	0.0047	0.0020	0.020
	Maximum	3,000	6.3	0.43	4.9	59	18
	Mean	728	3.1	0.16	2.4	21	5.7
	Median	341	3.5	0.12	2.4	17	3.8

Notes:

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PCB: polychlorinated biphenyl

RM: River Mile

TCDD: Tetrachlorodibenzo-p-dioxin

Table 4-5
Contaminants of Concern in Sediments for RM 12.5 to RM 11.2

Depth Interval (feet)	Unit	2,3,7,8-TCDD	Total PCB	Total DDx	Mercury	HMW PAH	LMW PAH
		ng/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Surface Sediments, 0–0.5	Frequency of Detection	42/42	38/38	38/38	39/39	28/28	37/37
	Minimum	0.45	0.041	0.0015	0.0818	2.038	0.383
	Maximum	51,100	23	0.62	14	53	13
	Mean	2,907	2.9	0.12	2.73	25	4.6
	Median	260	0.70	0.073	1.55	24	4.6
0.5–1.5	Minimum	0.19	0.00035	0.000041	0.0022	0.05	0.023
	Maximum	40,900	24	2.51	42	49	11
	Mean	5,417	2.8	0.31	5.8	19	3.8
	Median	592	1.24	0.099	2.7	17	3.4
1.5–2.5	Minimum	0.21	0.00010	0.000023	0.0018	0.09	0.094
	Maximum	22,900	32	3.4	15	109	50
	Mean	2,449	3.1	0.31	5.1	23	5.8
	Median	100	0.55	0.030	4.1	19	3.5
2.5–3.5	Minimum	0.93	0.0052	0.00051	0.0091	0.033	0.022
	Maximum	5,720	1.2	0.10	7.4	36	7.7
	Mean	1,128	0.45	0.022	2.6	11	2.3
	Median	95	0.29	0.0031	2.0	7.5	1.5
3.5–5.5	Minimum	0.058	0.000060	0.00010	0.0052	0.029	0.022
	Maximum	528	0.9	0.17	1.3	20	3.9
	Mean	59	0.12	0.026	0.33	5.6	1.1
	Median	0.6	0.0013	0.00049	0.13	2.5	0.69
5.5–End	Minimum	0.12	0.000024	0.000089	0.0028	0.025	0.022
	Maximum	0.26	0.00070	0.00017	0.087	0.093	0.088
	Mean	0.17	0.00036	0.00013	0.033	0.059	0.055
	Median	0.13	0.00036	0.00013	0.0078	0.059	0.055

Notes:

Based on data collected in 2005 to 2013; segments in overlapping layers were assigned to the starting layer.

HMW PAH: high-molecular-weight polycyclic aromatic hydrocarbon

LMW PAH: low-molecular-weight polycyclic aromatic hydrocarbon

mg/kg: milligrams per kilogram or parts per million (ppm)

ng/kg: nanograms per kilogram or parts per trillion (ppt)

PCB: polychlorinated biphenyl

RM: River Mile

TCDD: Tetrachlorodibenzo-p-dioxin

Table 4-6
Contaminants of Concern in Sediments for RM 11.2 to RM 10.4

Depth Interval (feet)	Unit	2,3,7,8-TCDD	Total PCB	Total DDx	Mercury	HMW PAH	LMW PAH
		ng/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Surface Sediments, 0–0.5	Frequency of Detection	98/98	95/95	88/90	99/99	84/84	94/95
	Minimum	0.42	0.0016	0.00014	0.022	0	0.094
	Maximum	29,000	34	1.3	22	307	90
	Mean	2,947	4.2	0.18	4.0	34	7.2
	Median	392	1.2	0.10	2.0	28	4.7
0.5–1.5	Minimum	0.06	0.000057	0.000065	0.013	0.09	0.088
	Maximum	57,176	35	17	20	87	28
	Mean	4,302	5.8	0.45	5.4	25	5.0
	Median	655	1.8	0.14	3.1	25	4.7
1.5–2.5	Minimum	0.0066	0.0000041	0.000064	0.0058	0.025	0.022
	Maximum	30,500	30	2.0	31	54	12
	Mean	4,612	6.2	0.25	6.2	24	4.9
	Median	594	2.1	0.13	3.6	25	5.1
2.5–3.5	Minimum	0.021	0.00000	0.000011	0.0019	0.025	0.021
	Maximum	29,800	29	2.0	19	75	19
	Mean	5,327	6.7	0.30	5.9	27	5.6
	Median	712	2.5	0.11	3.9	26	5.5
3.5–5.5	Minimum	0.064	0.000037	0.0000093	0.0020	0.025	0.021
	Maximum	27,100	26	2.2	19	117	36
	Mean	3,901	4.7	0.31	5.3	28	6.4
	Median	624	1.9	0.102	4.6	25	6.0
5.5–End	Minimum	0.047	0.0000020	0.000037	0.0010	0.025	0.021
	Maximum	40,800	28	3.8	83	502	269
	Mean	1,687	3.7	0.18	5.2	34	10
	Median	11	0.41	0.0015	2.8	17	4.2

Notes:

Based on data collected in 2005 to 2013; segments in overlapping layers were assigned to the starting layer.

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LMW PAH: low-molecular-weight polycyclic aromatic hydrocarbon

mg/kg: milligrams per kilogram or parts per million (ppm)

ng/kg: nanograms per kilogram or parts per trillion (ppt)

PCB: polychlorinated biphenyl

RM: River Mile

TCDD: Tetrachlorodibenzo-p-dioxin

Table 4-7
Contaminants of Concern in Sediments for RM 10.4 to RM 9.2

Depth Interval (feet)	Unit	2,3,7,8-TCDD	Total PCB	Total DDx	Mercury	HMW PAH	LMW PAH
		ng/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Surface Sediments, 0–0.5	Frequency of Detection	52/52	53/53	45/45	53/54	50/50	54/54
	Minimum	11,800	0.0061	0.0034	0.018	0.65	0.15
	Maximum	14,500	24	1.4	22	153	34
	Mean	1,399	2.5	0.19	3.1	34	6.1
	Median	321	1.1	0.09	1.9	28	4.6
0.5–1.5	Minimum	0.07	0.00213	0.00015	0.020	0.098	0.0857
	Maximum	32,900	23	2	23	71	15
	Mean	3,914	4.6	0.24	4.5	29	5.3
	Median	416	1.4	0.100	2.6	28	4.4
1.5–2.5	Minimum	0.12	0.00025	0.000083	0.016	0.02	0.00
	Maximum	18,900	34	3.0	30	78	18
	Mean	3,841	4.7	0.34	6.3	25	5.0
	Median	380	1.8	0.10	3.3	28	4.5
2.5–3.5	Minimum	0.14	0.000	0.0000	0.24	2.9	0.49
	Maximum	2,547	1.8	0.26	11	45	10
	Mean	479	0.9	0.07	3.1	19	3.6
	Median	52	0.9	0.01	1.1	12	2.6
3.5–5.5	Minimum	0.042	0.00038	0.000039	0.044	0.28	0.068
	Maximum	645	5.2	0.23	20	162	32
	Mean	95	0.81	0.028	4.7	35	8.2
	Median	1.3	0.0063	0.0010	0.46	13	2.4
5.5–End	Minimum	0.022	0.00012	0.00010	0.0017	0.025	0.022
	Maximum	24,700	22	0.79	12	149	35
	Mean	2,010	2.2	0.092	3.7	30	6.7
	Median	1.5	0.19	0.0015	1.1	22	3.7

Notes:

Based on data collected in 2005 to 2013; segments in overlapping layers were assigned to the starting layer.

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ng/kg: nanograms per kilogram or parts per trillion (ppt)

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TCDD: Tetrachlorodibenzo-p-dioxin

Table 4-8
Contaminants of Concern in Sediments for RM 9.2 to RM 7.8

Depth Interval (feet)	Unit	2,3,7,8-TCDD	Total PCB	Total DDx	Mercury	HMW PAH	LMW PAH
		ng/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Surface Sediments, 0–0.5	Frequency of Detection	41/41	41/41	40/40	42/42	28/29	41/42
	Minimum	4.92	0.0060	0.00172	0.021	0.17	0.084
	Maximum	16,200	25	0.60	9	56	17
	Mean	1,412	2.0	0.13	1.8	22	3.6
	Median	247	0.84	0.084	1.3	21	3.3
0.5–1.5	Minimum	0.012	0.00023	0.00013	0.0020	0.026	0.022
	Maximum	8,737	17	0.85	14	83	18
	Mean	1,249	2.1	0.20	3.4	21	4.2
	Median	95	0.27	0.040	1.4	20	3.1
1.5–2.5	Minimum	0.012	0.000071	0.000051	0.0016	0.025	0.022
	Maximum	6,360	13	0.74	14	43	8.5
	Mean	649	2.1	0.14	3.4	15	3.1
	Median	10	0.18	0.018	1.9	7.8	2.0
2.5–3.5	Minimum	0.053	0.0000060	0.0000020	0.00075	0.025	0.022
	Maximum	2,585	7.2	0.92	11	35	14
	Mean	720	2.1	0.22	3.8	16	4.7
	Median	57	0.47	0.07	0.53	10	1.9
3.5–5.5	Minimum	0.13	0.0000095	0.00021	0.0054	0.025	0.021
	Maximum	8,397	25	0.80	20	50	16
	Mean	2,788	6.9	0.31	7.3	26	8.3
	Median	1,378	1.2	0.22	4.5	28	8.4
5.5–End	Minimum	0.19	0.0000016	0.00014	0.00029	0.025	0.022
	Maximum	34,155	25	1.1	27	52	15
	Mean	6,794	6.5	0.37	6.5	19	5.5
	Median	853	0.83	0.18	1.8	4.6	1.0

Notes:

Based on data collected in 2005 to 2013; segments in overlapping layers were assigned to the starting layer.

HMW PAH: high-molecular-weight polycyclic aromatic hydrocarbon

LMW PAH: low-molecular-weight polycyclic aromatic hydrocarbon

mg/kg: milligrams per kilogram or parts per million (ppm)

ng/kg: nanograms per kilogram or parts per trillion (ppt)

PCB: polychlorinated biphenyl

RM: River Mile

TCDD: Tetrachlorodibenzo-p-dioxin

Table 4-9
Contaminants of Concern in Sediments for RM 7.8 to RM 5

Depth Interval (feet)	Unit	2,3,7,8-TCDD	Total PCB	Total DDx	Mercury	HMW PAH	LMW PAH
		ng/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Surface Sediments, 0–0.5	Frequency of Detection	71/71	71/71	65/65	74/74	51/51	73/73
	Minimum	3.1	0.0095	0.00056	0.039	1.534	0.245
	Maximum	34,100	29	2.8	24	180	65
	Mean	2,735	2.5	0.24	3.3	35	7.1
	Median	320	1.1	0.095	2.2	31	4.7
0.5–1.5	Minimum	0.13	0.000020	0.000047	0.0034	0.028	0.022
	Maximum	50,383	33	6.2	26	105	42
	Mean	3,830	3.9	0.44	4.3	34	8.1
	Median	461	2.0	0.13	2.9	31	5.0
1.5–2.5	Minimum	0.095	0.000020	0.000030	0.0052	0.085	0.085
	Maximum	36,042	42	2.6	27	76	23
	Mean	3,218	3.5	0.47	5.7	31	7.2
	Median	572	2.2	0.15	3.8	31	7.3
2.5–3.5	Minimum	0.089	0.000021	0.000028	0.0074	0.013	0.0057
	Maximum	48,873	14	2.9	18	96	45
	Mean	3,432	3.1	0.50	7.0	30	7.7
	Median	842	1.7	0.24	6.1	26	5.6
3.5–5.5	Minimum	0.10	0.000028	0.000019	0.035	0.11	0.058
	Maximum	28,305	7.7	3.3	14	375	381
	Mean	2,759	2.3	0.63	4.9	51	31
	Median	251	0.59	0.24	4.1	41	9
5.5–End	Minimum	1.2	0.017	0.0012	0.0035	0.025	0.021
	Maximum	87,368	16	6.8	11	88	39
	Mean	8,326	3.0	1.0	5.4	47	17
	Median	72	0.88	0.41	5.2	54	17

Notes:

Based on data collected in 2005 to 2013; segments in overlapping layers were assigned to the starting layer.

HMW PAH: high-molecular-weight polycyclic aromatic hydrocarbon

LMW PAH: low-molecular-weight polycyclic aromatic hydrocarbon

mg/kg: milligrams per kilogram or parts per million (ppm)

ng/kg: nanograms per kilogram or parts per trillion (ppt)

PCB: polychlorinated biphenyl

RM: River Mile

TCDD: Tetrachlorodibenzo-p-dioxin

Table 4-10
Contaminants of Concern in Sediments for RM 5 to RM 2.3

Depth Interval (feet)	Unit	2,3,7,8-TCDD	Total PCB	Total DDx	Mercury	HMW PAH	LMW PAH
		ng/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Surface Sediments, 0–0.5	Frequency of Detection	99/99	85/85	93/93	100/100	73/73	99/100
	Minimum	0.77	0.0055	0.00032	0.12	1.5	0.32
	Maximum	21,900	21.3	39	16	310	756
	Mean	1,153	2.28	0.74	3.2	38	16
	Median	299	1.05	0.13	2.2	24	3.7
0.5–1.5	Minimum	0.29	0.0023953	0.00069	0.033	0.23	0.14
	Maximum	23,300	22	3.9	14	1,867	4,792
	Mean	1,929	3.5	0.52	5.3	78	103
	Median	631	2.0	0.19	4.6	32	5.7
1.5–2.5	Minimum	0.38	0.0012	0.000081	0.028	0.13	0.10
	Maximum	263,000	25	26	17	1,460	3,968
	Mean	8,049	6.3	1.1	7.6	108	140
	Median	1,735	4.0	0.33	7.6	28	5.3
2.5–3.5	Minimum	0.021	0.00068	0.00082	0.030	0.091	0.37
	Maximum	111,710	17	29	18	110	81
	Mean	12,066	8.6	4.4	9.2	44	15
	Median	8,130	8.8	0.94	9.6	36	10
3.5–5.5	Minimum	0.014	0.00056	0.00072	0.034	0.032	0.035
	Maximum	2,050,000	22	64,610	27	253	461
	Mean	181,299	8.6	2,016	9.3	47	23
	Median	9,022	8.1	1.0	8.5	32	8.6
5.5–End	Minimum	0.014	0.0005593	0.00072	0.0338	0.032	0.035
	Maximum	2,050,000	22	64,610	27	253	461
	Mean	181,299	8.6	2,016	9.3	47	23
	Median	9,022	8.07	1	8.5	32	9

Notes:

Based on data collected in 2005 to 2013; segments in overlapping layers were assigned to the starting layer.

HMW PAH: high-molecular-weight polycyclic aromatic hydrocarbon

LMW PAH: low-molecular-weight polycyclic aromatic hydrocarbon

mg/kg: milligrams per kilogram or parts per million (ppm)

ng/kg: nanograms per kilogram or parts per trillion (ppt)

PCB: polychlorinated biphenyl

RM: River Mile

TCDD: Tetrachlorodibenzo-p-dioxin

Table 4-11
Contaminants of Concern in Sediments for RM 2.3 to RM 0

Depth Interval (feet)	Unit	2,3,7,8-TCDD	Total PCB	Total DDx	Mercury	HMW PAH	LMW PAH
		ng/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Surface Sediments, 0–0.5	Frequency of Detection	57/57	57/57	53/53	73/73	41/41	57/57
	Minimum	20	0.061	0.0066	0.32	3.3	0.41
	Maximum	2,370	7.0	1.40	5	202	56
	Mean	322	1.1	0.13	1.8	37	6.1
	Median	205	0.91	0.085	1.8	25	3.5
0.5–1.5	Minimum	17	0.044	0.0079	0.28	0.53	0.057
	Maximum	4,350	13	0.68	12	57	12
	Mean	582	1.9	0.15	3.3	23	3.7
	Median	336	1.1	0.11	2.4	23	3.1
1.5–2.5	Minimum	0.11	0.00034	0.00035	0.017	0.025	0.022
	Maximum	8,170	11.5	0.75	16	507	418
	Mean	850	2.4	0.16	4.0	38	17
	Median	271	1.2	0.13	2.9	23	3.9
2.5–3.5	Minimum	0.097	0.0000062	0.000027	0.017	0.025	0.022
	Maximum	3,302	12.0	0.36	14	64	16
	Mean	498	2.9	0.12	4.3	20	3.6
	Median	344	1.1	0.058	3.0	19	2.8
3.5–5.5	Minimum	0.093	0.00022	0.00024	0.017	0.025	0.022
	Maximum	237,762	35.7	1.53	18	45	17
	Mean	13,171	4.6	0.26	5.2	22	5.5
	Median	325	1.4	0.092	3.2	21	3.6
5.5–End	Minimum	0.021	0.0000011	0.0000058	0.0026	0.0024	0.0038
	Maximum	55,100	132.9	5.56	23	141	155
	Mean	1,551	4.2	0.33	5.4	29	15
	Median	165	1.3	0.07	4.5	21	5.2

Notes:

Based on data collected in 2005 to 2013; segments in overlapping layers were assigned to the starting layer.

HMW PAH: high-molecular-weight polycyclic aromatic hydrocarbon

LMW PAH: low-molecular-weight polycyclic aromatic hydrocarbon

mg/kg: milligrams per kilogram or parts per million (ppm)

ng/kg: nanograms per kilogram or parts per trillion (ppt)

PCB: polychlorinated biphenyl

RM: River Mile

TCDD: Tetrachlorodibenzo-p-dioxin