

Table 7-3. Sediment Alternatives for the Marsh Upland Sediment Area
Fireworks Site

MUA SMU	Sample Identifier	Data Range (FT)	Measured Total Mercury Concentration (mg/Kg)	Average Total Mercury Concentration (mg/Kg)	Individual Area (SF)	Total Area (SF)	MUA Sediment Alternative 1	MUA Sediment Alternative 2	MUA Sediment Alternative 3	MUA Sediment Alternative 4	Concentration * Area	Removal Depth (Alternative 1) (feet)	Removal Depth (Alternative 2) (feet)	Removal Depth (Alternative 3) (feet)	Removal Depth (Alternative 4) (feet)	Removal Depth (Alternative 5) (feet)	Removal Volume (Alternative 1) (CY)	Removal Volume (Alternative 2) (CY)	Removal Volume (Alternative 3) (CY)	Removal Volume (Alternative 4) (CY)	Removal Volume (Alternative 5) (CY)	Affected Footprint (Alternative 1) (SF)	Affected Footprint (Alternative 2) (SF)	Affected Footprint (Alternative 3) (SF)	Affected Footprint (Alternative 4) (SF)	Affected Footprint (Alternative 5) (SF)										
							Concentration Post-alternative	Concentration Post-alternative	Concentration Post-alternative	Concentration Post-alternative																										
Marsh Upland Area																																				
MUA1	S12	0-3	0.46	0.46	2843.39	2843.39	0.46	0.46	0.46	0.46	1307.96	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00										
MUA2	S13	0-3	283.00	283.00	3686.14	3686.14	283.00	283.00	0.62	0.62	2285.41	0	0	3	0	4.0	0.0	0.0	0.0	409.6	0.0	546.1	0.00	0.00	3,686.14	0.00	3,686.14									
MUA3	S14	0-2	45.60	45.60	4313.56	4313.56	45.60	45.60	0.62	0.62	2674.41	0	0	0	0	3.0	0.0	0.0	0.0	0.0	0.0	479.3	0.00	0.00	0.00	0.00	4,313.56									
MUA4	S15	0-3	0.22	0.22	6031.94	6031.94	0.22	0.22	0.22	0.22	1321.00	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00									
MUA5	S16	0-2	0.37	0.37	5931.31	5931.31	0.37	0.37	0.37	0.37	2218.31	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00									
MUA6	S17	0-3	0.42	0.42	2321.43	2321.43	0.42	0.42	0.42	0.42	985.45	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00									
MUA7	S18	0-3	2.24	2.24	4944.08	4944.08	2.24	2.24	2.24	0.62	3065.33	0	0	0	0	4.0	0.0	0.0	0.0	0.0	0.0	732.5	0.00	0.00	0.00	0.00	4,944.08									
MUA8	S19	0-3	3.72	3.72	3301.81	3301.81	3.72	3.72	3.72	0.62	2047.12	0	0	0	0	4.0	0.0	0.0	0.0	0.0	0.0	489.2	0.00	0.00	0.00	0.00	3,301.81									
MUA9	S20	0-2.75	0.83	0.83	3566.31	3566.31	0.83	0.83	0.83	0.83	2963.60	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00									
MUA10	S21	0-2.7	0.71	0.71	6543.01	6543.01	0.71	0.71	0.71	0.71	4665.16	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00									
MUA11	S22	0-1.0	62.20	62.20	4098.46	4098.46	62.20	62.20	62.20	0.62	2541.04	0	0	0	0	3.0	0.0	0.0	0.0	0.0	0.0	455.4	0.00	0.00	0.00	0.00	4,098.46									
MUA12	S23	0-3	1.87	1.87	4101.77	4101.77	1.87	1.87	1.87	0.62	2543.10	0	0	0	0	3.0	0.0	0.0	0.0	0.0	0.0	455.8	0.00	0.00	0.00	0.00	4,101.77									
MUA13	S24	0-2	103.00	103.00	5191.21	5191.21	103.00	103.00	103.00	0.62	3218.55	0	0	0	0	3.0	0.0	0.0	0.0	0.0	0.0	576.8	0.00	0.00	0.00	0.00	5,191.21									
MUA14	S25	0-2.7	8.42	8.42	3987.15	3987.15	8.42	8.42	8.42	0.62	2472.03	0	0	0	0	3.0	0.0	0.0	0.0	0.0	0.0	443.0	0.00	0.00	0.00	0.00	3,987.15									
MUA15	S26	0-2.5	1.89	1.89	4827.05	4827.05	1.89	1.89	1.89	0.62	2992.77	0	0	0	0	3.0	0.0	0.0	0.0	0.0	0.0	536.3	0.00	0.00	0.00	0.00	4,827.05									
Total Area of the Marsh Upland Area Sediments (SF)						65,689																														
Total Area of the Marsh Upland Area Sediments (AC)						1.51																														
Marsh Upland Area Sediment Total Mercury SWA							32.22	32.22	16.38	0.57																Subtotals (CY)	0.0	0.0	409.6	0.0	4,714.3	0.00	0.00	3,686.14	0.00	38,451.23
Total Affected Area (SF)							0	0	3,686	38,451																0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Affected Area (AC)							0	0	0.08	0.88																0.0%	0.0%	5.6%	0.0%	58.5%						

NOTES:

- AC Acres
- CY Cubic Yards
- FT Feet
- MNR monitored natural recovery
- MUA Marsh Upland Area
- PRG Preliminary Remediation Goal
- SF Square Feet
- SMU Sediment Management Unit
- SWA Site-wide Alternative
- THg Total Mercury
- 1 MUA Sediment Alternative 1 includes no remedial activities. This alternative serves as a baseline for comparison of overall effectiveness of the other remedial alternatives.
- 2 MUA Sediment Alternative 2 includes MNR of SMUs MUA 2, MUA 3, MUA 11 and MUA 13; and Non-engineering Measures.
- 3 MUA Sediment Alternative 3 includes spot removal within MUA 2 to meet human health and ecological PRGs.
- 4 MUA Sediment Alternative 4 includes removal within SMUs highlighted in blue above to approach the background THg concentration.
- Removal location under Sediment Alternative 3
- Removal location under Sediment Alternative 4