

Table 11
Remedy Cost Estimate for Sediment
Mercury Refining Site
Colonie, New York

Line Item	Quantity	Unit Cost	Units	Capital Cost	O&M/Future Costs	
					Annual*	PW
CAPITAL COSTS						
Construction Costs						
(1) Site Preparation						
(a) Workplan	300	\$35	HR	\$10,500		
(b) Health and Safety	80	\$35	HR	\$2,800		
(c) Mobilization/Demobilization	1	\$20,000	LS	\$20,000		
(d) Clearing and Grubbing	0.50	\$8,000	ACRE	\$4,000		
(e) Build Access to Stream	1	\$15,000	LS	\$15,000		
Subtotal 1				\$52,300		
(2) Excavation of Stream Soils						
(a) Excavate Stream Soils	111	\$60	CY	\$6,660		
(b) Waste Disposal Sampling	5	\$700	EA	\$3,500		
(c) Fly Ash	73	\$85	TON	\$6,205		
(d) Waste Transport and Disposal (RCRA Subtitle D Landfill)	218	\$125	TON	\$27,294		
(e) Stream By-pass System (pump, re-routing hose, hay berms)	1	\$5,000	LS	\$5,000		
(f) Bathymetric Survey	3	\$1,500	DAY	\$4,500		
Subtotal 2				\$53,159		
(3) Site and Wetland Restoration						
(a) Misc Site Restoration	1	\$10,000	LS	\$10,000		
(b) Wetland Restoration	1	\$20,000	LS	\$20,000		
Subtotal 3				\$30,000		
Construction Subtotal				\$135,459		
Contractor Health and Safety (10% of Construction Subtotal)				\$13,546		
Contractor Overhead & Profit (30% of Construction Subtotal)				\$40,638		
Construction Total				\$189,643		
Permitting and Legal (2% of Construction Total)				\$3,793		
Engineering				\$75,000		
Services During Construction (5% of Construction Total)				\$9,482		
Contingency (20% of Construction Total)				\$37,929		
(4) Pre-Design Investigation						
(a) Project Management (Included in Soil Remedy)						
(b) Workplan/Quality Assurance Project Plan/H&S Plan (Included in Soil Remedy)						
(c) Procurement of Subcontracts (Included in Soil Remedy)						
(d) Sampling	40	\$100	HR	\$4,000		
(e) Data Management	20	\$100	HR	\$2,000		
(f) Data Validation and Data Usability Report	40	\$100	HR	\$4,000		
(g) Data Evaluation and Report	40	\$100	HR	\$4,000		
(h) Bathymetric Survey	3	\$1,500	DAY	\$4,500		
(i) Mobilization/Demobilization/Misc Equipment	1	\$20,000	LS	\$20,000		
(j) Sample Analysis (Total Hg)	20	\$50	EA	\$1,000		
Subtotal 4				\$39,500		
Total Capital Costs				\$355,347		
OPERATIONS & MAINTENANCE COSTS						
(5) Long-term Sediment Monitoring of I-90 Pond (Annual for first five years and every five years from years 5 to 30)						
(a) Field Crew	80	\$100	HR		\$8,000	\$44,360
(b) Travel Expenses	5	\$750	DAY		\$3,750	\$20,794
(c) Equipment	1	\$20,000	LS		\$20,000	\$110,901

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Line Item	Quantity	Unit Cost	Units	Capital Cost	O&M/Future Costs	
					Annual*	PW
(d) Sample Analysis (Total Hg and PCBs)	28	\$250	EA		\$7,000	\$38,815
(e) Data Validation	28	\$100	HR		\$2,800	\$15,526
(f) Data management/analysis	40	\$100	HR		\$4,000	\$22,180
(g) Report	40	\$100	HR		\$4,000	\$22,180
						\$0
Operation & Maintenance Subtotal						\$274,756
Project Management and Support (30% of O&M Subtotal)						\$82,427
Total Operation & Maintenance						\$357,183
(6) Five Year Review	320	\$100	HR		\$32,000	\$69,120
TOTAL ESTIMATED COSTS				\$355,347		\$426,303
NET PRESENT WORTH OF COSTS				\$781,650		