

Soil Remedy Costs by EPA

(\$1.95MM Capital; \$0.8MM O&M; Total \$2.77MM)

Table 12-1

Cost Estimate Summary for the Selected Remedy for Soil

Description	Cost
CAPITAL COSTS	
DPE and vapor monitoring well installation ^a	\$286,557
GAC treatment system installation	\$27,788
Piping installation	\$42,940
Institutional controls	\$8,290
Soil excavation	\$308,237
Soil transportation and disposal to Class I landfill	\$872,760
Subtotal (Construction)	\$1,546,572
Subtotal (Discounted) ^b	\$1,414,730
Bid contingencies (5% of discounted)	\$71,000
Scope contingencies (20% of discounted)	\$283,000
Engineering Design (5% of total)	\$88,000
Bonding and insurance of construction workers (3% of total)	\$53,000
Field and laboratory testing during construction (1% of total)	\$18,000
Reporting during construction (1% of total)	\$18,000
TOTAL CAPITAL COST (Discounted) ^b	\$1,945,730 Capital
OPERATIONS AND MAINTENANCE COSTS	
Extraction wells	\$91,646
Treatment system	\$34,282
Discharge piping	\$53,024
SVE treatment system and well monitoring	\$702,488
Institutional controls	\$49,580
Subtotal O&M	\$931,020
Subtotal O&M (Discounted) ^b	\$823,929 O&M
TOTAL PRESENT VALUE	\$2,769,659 Total NPV

Notes: Undiscounted costs are based on 2001 dollars and were estimated using RACER™, with an accuracy of -30% to +50%. Costs were based on a 20-year overall duration for remedial action (including 2 years of dual phase extraction, 3 years of compliance monitoring, and 20 years of institutional controls).

a Assumed start date for cost estimating purposes is January 2003. Actual start date may be later.

b A 7% discount rate was assumed.

Reference: Record of Decision, Sept. 2002