

Table A20-1c *Estimated Cost of Soil Excavation and Disposal*
FS Group A20-1 - Remedial Alternative A20-1C (Residential Use)
Sites 10D and 11D
Perimeter Groundwater Operable Unit RI/FS
Aerojet Superfund Site
Sacramento County, California

DESCRIPTION	QUANTITY		ESTIMATED COST	
	NUMBER	UNIT	UNIT COST (\$)	TOTAL COST (\$)
DIRECT CAPITAL COST				
Reporting				
Remedial Design/Remedial Action(RD/RA) Workplan	1	LS	\$20,000	\$20,000
Remedial Action Summary (Construction Completion Report)	1	LS	\$20,000	\$20,000
		SUBTOTAL - REPORTING		\$40,000
Excavation and Disposal				
Surveying (pre- and post-excavation)	2	DAY	\$1,500	\$3,000
Equipment mobilization/demobilization	1	LS	\$6,000	\$6,000
Excavate and stockpile soil for Class II Landfill - Site 10D	1,170	TON	\$6	\$7,000
Excavate and stockpile soil for Class II Landfill - Site 11D ¹	45	TON	\$6	\$300
Soil transportation and disposal (Class II Landfill) - Site 10D	1,170	TON	\$40	\$46,800
Soil transportation and disposal (Class II Landfill) - Site 11D ¹	45	TON	\$40	\$1,800
Excavate and stockpile soil for Class I Landfill	0	TON	\$36	\$0
Soil transportation and disposal (Class I Landfill)	0	TON	\$91	\$0
Backfill excavations with clean fill and compact fill	0	TON	\$10	\$0
Water truck	4	DAY	\$500	\$2,000
Regulatory Oversight	1	LS	\$10,000	\$5,000
		SUBTOTAL - EXCAVATION AND DISPOSAL		\$71,900
Confirmation and Stockpile Sample Analyses				
Stockpile sampling - Title 22 metals (1 sample/100 CY)	10	EA	\$130	\$1,300
Excavation floor confirmatory sampling ²	6	EA	\$130	\$800
Excavation sidewall sampling ³	18	EA	\$130	\$2,300
		SUBTOTAL - SAMPLING		\$4,400
		SUBTOTAL - DIRECT CAPITAL COST		\$116,300
INDIRECT CAPITAL COST				
Engineering Design, Procurement, Administrative, and Legal Costs (% of Direct Capital Costs)	1	%	10	\$11,600
Construction Management (% of Direct Capital Costs)	1	%	10	\$11,600
Project Management (% of Direct Capital Costs)	1	%	6	\$7,000
Contractor's General Requirements (assume monthly rental of job trailer, storage box, and portable toilet; and administration support)	1	Week	\$1,000	\$1,000
		SUBTOTAL - INDIRECT CAPITAL COST		\$31,200
		SUBTOTAL - CAPITAL COST (DIRECT AND INDIRECT)		\$148,000
		General Contingency (20% of total direct and indirect)		\$30,000
		TOTAL ESTIMATED CAPITAL COST		\$178,000

Notes and Key:

1 = Costs associated with the excavation and disposal of soil containing PCBs at Source Area 11D are included Volume III (Feasibility Study) of the Boundary Operable Unit RI/FS (ERM, November 2008).

2 = Excavation Floor Confirmation Samples assumes 1 sample per 1,000 square feet or 1 sample from excavation less than 1,000 square feet.

3 = Excavation Sidewall Samples - Assumes 1 sample every 25 liner foot or 1 sample from each sidewall for excavation.

% = Percent

EA = Each

LS = Lump Sum

Ton = 2,000 pounds