

FINANCIAL ASSURANCE COST ESTIMATE

FOR:

**LOS ANGELES COUNTY
CURTIS SAND AND GRAVEL**

CA MINE ID # 91-19-0030

Prepared by:

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March 2008

Reclamation Objective: Site predominately is restored to industrial area.

Please note: Equipment rates used in this Financial Assurance Estimate utilize Caltrans "Labor Surcharge Equipment Rental Rates". Labor Rates are reflective of California Prevailing Wages obtained from the California Division of Labor Statistics & Research.

I. PRIMARY RECLAMATION ACTIVITIES

Task: General Grading. (Quarry Surfaces, Roads and River Embankments)

Applicability: General grading of quarry surfaces, river bank areas and roads will be necessary to prepare the site.

Method: General grading and scarifying for approximately 40 acres to gently slope/grade the total land areas.

Calculation Basis and Other Miscellaneous Information: D8R Dozer with a 14' blade (2ft. Overlap); Avg. Speed: 2.5 mph; 50 minute hour; Production Rate: 3.0 Acres/Hr.

Miscellaneous Information:

A. Equipment List

Equipment	Quantity	\$/Hour	# of Hours	Cost (\$)
Caterpillar D8 Dozer	1	\$142	16	\$2,279
Water Truck	1	\$47	4	\$188

Total Equipment Cost for this Task: \$2,467

B. Labor List

Labor Category	Quantity	\$/Hour	# of Hours	Cost (\$)
Operating Engineer	1	\$45	16	\$720
Truck Driver	1	\$29	4	\$116
Supervisor	1	\$65	8	\$520

Total Labor Cost for this Task: \$1,356

C. Materials List

Item	Quantity	\$/Unit	Cost (\$)
N/A	0	0	\$0

Total Material Cost for this Task: \$0

D. Direct Cost for this Task

Equipment Cost + Labor Cost + Materials Cost: \$3,823

II. REVEGETATION

Description of Task: *Revegetate graded and river bank.*

Applicability: Revegetation is specified at riverbank and former processing areas.

Methods to be Used: Revegetation tasks are aimed at restoring riverbank vegetation and generally graded areas

Calculation Basis and Other Miscellaneous Information: 40 Acres of former quarry, operations areas and slopes at \$400/Acre (broadcast seed) includes labor and materials. Assumes follow up seeding will be required on 25% of site's original 40 acres.

A. Equipment List

Equipment	Quantity	\$/acre	# of Acres	Cost (\$)
Broadcast Seeding	1	\$400	40	\$16,000
Broadcast Seeding (Year 2 Follow-up)	1	\$400	10	\$4,000

Total Equipment Cost for this Task: \$20,000

D. Direct Cost for this Task

Equipment Cost + Labor Cost + Materials Cost: \$20,000

III. PLANT STRUCTURES AND EQUIPMENT REMOVAL

Description of Task: Remove any stationary equipment and facilities, concrete and asphaltic concrete on roads.

Applicability: Equipment and facilities associated with mining and processing, as well as concrete and asphalt, will be removed in selected areas, addressing those areas that would remain industrial.

Methods to be Used: Use backhoe and dumpster bins to remove and dispose materials.

Calculation Basis and Other Miscellaneous Information: Demolition/removal costs. Disposal costs are per dumpster including hauling and tipping fees. Concrete (10 cy dumpster).

A. Equipment List

Equipment	Quantity	\$/Hour	# of Hours	Cost (\$)
CAT 436 FEL w/Backhoe	1	\$36	24	\$859
				\$0

Total Equipment Cost for this Task: \$859

B. Labor List

Labor Category	Quantity	\$/Hour	# of Hours	Cost (\$)
Operating Engineer	1	\$45	24	\$1,080
Supervisor	1	\$65	8	\$520
Laborer	1	\$33	24	\$792

Total Labor Cost for this Task: \$2,392

C. Disposal

Structure/Equipment	Type of Material	Volume (quantity)	Unit Cost Basis	Disposal Cost (\$)	Cost (\$)
Foundation/Footings	Concrete	350	\$10	\$3,500	\$3,500
Road	Asphalt	0	\$10	\$0	\$0
General Site Cleanup	Misc.	100	\$35	\$3,500	\$3,500

Total Material Cost for this Task: \$7,000

D. Direct Cost for this Task

Equipment Cost + Labor Cost + Materials Cost: \$10,251

IV. MISCELLANEOUS COSTS

Electrical Power Closure, Fencing, and Well Closure.

Applicability: Restoring site requires removal of telephone poles. Note: Because site is restored to an industrial area, it is presumed power remains onsite and not removed.

Method: Public utilities contracted for power removal. Contractors to install fencing and close well.

Calculation Basis and Other Miscellaneous Information: SCE/SDG&E fees for closure estimated at usual rates of \$5,000. Fencing estimated at 1,000 ft. at \$10 per foot installation. Well closure based on historical/usual closure costs.

Item / Task	Quantity	\$/Unit	#	Cost (\$)
Power Removal	1	\$10,000	0	\$0
Fencing	1	10/ft	0	\$0
Close Well	1	\$5,000	0	\$0
Total Miscellaneous Costs				<u>\$0</u>

V. MONITORING

Applicability: Applicable graded and riverbank areas that are revegetated.

Method: Monitor for successful revegetation and maintenance. Prepare closure report.

Calculation Basis and Other Miscellaneous Information: Revegetation monitoring estimated at \$1,600 per visit, with one visit per year. Preparation of closure report estimated at \$1,600/year.

Monitoring Task	\$/Visit	#Visits/Year	# of Monitoring Years	Cost (\$)
Revegetation Monitoring/Maintenance Year 1	\$1,600	1	1	\$1,600
Revegetation Monitoring/Maintenance Year 2	\$1,600	1	1	\$1,600
Closure Report	\$1,600	1	2	\$3,200
Total Monitoring Costs:				\$6,400

VII. SUMMARY OF COST

Total of all Primary Reclamation Activities Costs	<u>\$3,823</u>
Total of all Revegetation Costs	<u>\$20,000</u>
Total of all Plant Structures and Equipment Removal Costs	<u>\$10,251</u>
Total of all Miscellaneous Costs	<u>\$0</u>
Total of all Monitoring Costs	<u>\$6,400</u>
	<i>Total of Direct Costs</i>
	<u>\$40,474</u>
Supervision (5% of Direct Costs)	<u>\$2,024</u>
Profit/Overhead (10%)	<u>\$4,047</u>
Contingencies (10%)	<u>\$4,047</u>
Mobilization (3%)	<u>\$1,214</u>
	<i>Total of Indirect Costs</i>
	<u>\$11,333</u>
	<i>Total of Direct and Indirect Costs</i>
	<u>\$51,807</u>
(Calculated at 5% of Direct Costs)	<i>Lead Agency Administrative Cost*</i>
	<u>\$2,024</u>
	Total Estimated Cost of Reclamation
	<u>\$53,831</u>

*Estimated at 5% of Direct Costs