

FINANCIAL ASSURANCE COST ESTIMATE

FOR:

**LOS ANGELES COUNTY
PEBBLY BEACH**

CA MINE ID # 91-19-0010

Prepared by:

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March 2008

Reclamation Objective: Site prepared for open space and natural habitat.

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 Processing Area)

Applicability: General grading of quarry surfaces, processing areas and roads will be necessary to prepare the site for return to open space.

Method: General grading and scarifying for approximately 60 acres to slope/grade the land and approximately 2.0 acres of road areas. Total acres equal 62.

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	24	\$3,419
Water Truck	1	\$47	24	\$1,130

Total Equipment Cost for this Task: \$4,549

B. Labor List

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

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

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: \$6,941

Task: Adjust grade of quarry pit slopes (active mining areas) to meet final reclamation slope angle(s).

Applicability: Rip, push and general grading of quarry pit slopes.

Method: Adjust quarry pit slopes with D8 dozer (Active Quarry Area) to rough grade.

Calculation Basis and Other Miscellaneous Information: 1,000 ft. of quarry wall x 50 ft. avg. height and 100 ft depth. = 277,778 cu. yards. Caterpillar D8R Dozer: Production Rate: 750 cu. Yds/hr. or 370 hours. Grade slopes surrounding quarry pit. Also, grade top of highest slope elevation by grading from permitted boundary line and slope to edge of hard rock wall an estimated 17.2 acres of upper elevation area would be blasted to an average depth of approximately 10 feet to produce this material. The material will be dozed to the benches below and vegetated.

A. Equipment List

Equipment	Quantity	\$/Hour	# of Hours	Cost (\$)
Caterpillar D8 Dozer	1	\$142	370	\$52,707
Water Truck	1	\$47	123	\$5,797

Total Equipment Cost for this Task: \$52,707

B. Labor List

Labor Category	Quantity	\$/Hour	# of Hours	Cost (\$)
Operating Engineer	1	\$45	370	\$16,650
Truck Driver	1	\$29	123	\$3,577
Supervisor	1	\$65	123	\$8,017

Total Labor Cost for this Task: \$28,243

C. Materials List (Ave. Quoted Cost Per)

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: \$80,950

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. Office buildings, scale house and scale, roads and crane/lifting production equipment and areas require removal of these materials during reclamation.

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	35	80	\$2,800
CAT 436 Front End Loader	1	35	80	\$2,800

Total Equipment Cost for this Task: \$5,600

B. Labor List

Labor Category	Quantity	\$/Hour	# of Hours	Cost (\$)
Operating Engineer	2	\$45	80	\$7,200
Supervisor	1	\$65	40	\$2,600
Laborer	2	\$33	80	\$5,280

Total Labor Cost for this Task: \$15,080

C. Disposal

Structure/Equipment	Type of Material	Volume (quantity)	Unit Cost Basis	Disposal Cost (\$)	Cost (\$)
Foundation/Footings	Concrete	10	350	\$3,500	\$3,500
Road	Asphalt	1,500	10	\$15,000	\$15,000
General Site Cleanup	Misc.	300	50	\$15,000	\$15,000

Total Material Cost for this Task: \$33,500

D. Direct Cost for this Task

Equipment Cost + Labor Cost + Materials Cost: \$54,180

IV. MISCELLANEOUS COSTS

Electrical Power Closure, Fencing, and Well Closure.

Applicability: Restoring site to open space requires removal of telephone poles. Note: No well or fencing required onsite.

Method: Public utilities contracted for power removal.

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	\$5,000	1	\$5,000
Fencing	0	10/ft	0	\$0
Close Well	0	\$5,000	0	\$0
Total Miscellaneous Costs				\$5,000

V. MONITORING

Applicability: Applicable to slopes and general mining areas that are revegetated.

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

Calculation Basis and Other Miscellaneous Information: Revegetation monitoring estimated at \$3,000 per visit, with two visits 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>\$87,891</u>
Total of all Revegetation Costs	<u>\$60,000</u>
Total of all Plant Structures and Equipment Removal Costs	<u>\$54,180</u>
Total of all Miscellaneous Costs	<u>\$5,000</u>
Total of all Monitoring Costs	<u>\$6,400</u>
<i>Total of Direct Costs</i>	<u>\$213,471</u>
Supervision (5% of Direct Costs)	<u>\$10,674</u>
Profit/Overhead (10%)	<u>\$21,347</u>
Contingencies (10%)	<u>\$21,347</u>
Mobilization (3%)	<u>\$6,404</u>
<i>Total of Indirect Costs</i>	<u>\$59,772</u>
<i>Total of Direct and Indirect Costs</i>	<u>\$273,243</u>
(Calculated at 5% of Direct Costs)	<u>Lead Agency Administrative Cost*</u> <u>\$10,674</u>
Total Estimated Cost of Reclamation	<u>\$283,916</u>

*Estimated at 5% of Direct Costs