

FINANCIAL ASSURANCE COST ESTIMATE

FOR:

**LOS ANGELES COUNTY
DEL SUR RIDGE**

CA MINE ID # 91-19-0037

Prepared by:

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Reclamation Objective: Site leveled and prepared for open space.

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 to gently slope/grade the land and roads totaling, approximately 8.0 acres and 8 acres of berm construction. Total acres equal 8.

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: None.

A. Equipment List

Equipment	Quantity	\$/Hour	# of Hours	Cost (\$)
Caterpillar D8 Dozer	1	\$142	8	\$1,136
Water Truck	1	\$47	8	\$376

Total Equipment Cost for this Task: \$1,512

B. Labor List

Labor Category	Quantity	\$/Hour	# of Hours	Cost (\$)
Operating Engineer	1	\$45	8	\$360
Truck Driver	1	\$29	8	\$232
Supervisor	1	\$65	8	\$520

Total Labor Cost for this Task: \$1,112

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: \$2,624

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

Applicability: Rip and general grading of quarry pit slopes is necessary to meet final reclamation slope angles.

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

Calculation Basis and Other Miscellaneous Information: 100 ft. of quarry wall x 30 ft. avg. depth = 3,400 cu. yards. Caterpillar D8R Dozer: Production Rate: 750 cu. Yds/hr. or 10 hours. Grade slopes surrounding quarry pit.

A. Equipment List

Equipment	Quantity	\$/Hour	# of Hours	Cost (\$)
Caterpillar D8 Dozer	1	\$142	8	\$1,136
Water Truck	1	\$47	8	\$376

Total Equipment Cost for this Task: \$1,136

B. Labor List

Labor Category	Quantity	\$/Hour	# of Hours	Cost (\$)
Operating Engineer	1	\$45	8	\$360
Truck Driver	1	\$29	8	\$232
Supervisor	1	\$65	8	\$520

Total Labor Cost for this Task: \$1,112

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: \$2,248

Task: Distribute Topsoil and Compact with Sheepshead Roller.

Applicability: Distribute topsoil to prepare surfaces for seeding.

Method: General earthmoving with a front end loader over site's applicable areas.

Calculation Basis and Other Miscellaneous Information: Estimated hours of topsoil distribution at 16 hours, and compaction at 24 for front end loader and sheepshead.

A. Equipment List

Equipment	Quantity	\$/Hour	# of Hours	Cost (\$)
CAT 436 FEL w/Backhoe	1	\$36	16	\$576
Sheeps Head	1	\$30	24	\$720

Total Equipment Cost for this Task: \$576

B. Labor List

Labor Category	Quantity	\$/Hour	# of Hours	Cost (\$)
Operating Engineer	2	\$45	40	\$3,600
General Labor	1	\$33	24	\$792

Total Labor Cost for this Task: \$3,600

C. Materials List

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

Total Material Cost for this Task: \$0

D. Direct Cost for this Task

Equipment Cost + Labor Cost + Materials Cost: \$4,176

II. REVEGETATION

Description of Task: Revegetate mining and slope areas.

Applicability: Revegetation of slopes to control erosion. Revegetation is specified in mining and processing areas, as the site will be returned to open space and blended into surrounding topography and vegetated areas.

Methods to be Used: Revegetation tasks are aimed at controlling erosion on slopes and berms.

Calculation Basis and Other Miscellaneous Information: 40 Acres of former quarry, operations areas and slopes at \$1,600/Acre includes labor and materials. Assumes follow up seeding will be required on 25% of site's original 40 acres.

A. Equipment List

Equipment	Quantity	\$/Hour	# 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. **NOT APPLICABLE AT THIS SITE.**

Applicability: N/A

Methods to be Used: N/A

Calculation Basis and Other Miscellaneous Information: N/A

A. Equipment List

Equipment	Quantity	\$/Hour	# of Hours	Cost (\$)
CAT Backhoe	0	85	0	\$0
CAT 436 Front End Loader	0	35	0	\$0

Total Equipment Cost for this Task: \$0

B. Labor List

Labor Category	Quantity	\$/Hour	# of Hours	Cost (\$)
Operating Engineer	0	\$45	0	\$0
Supervisor	0	\$65	0	\$0
Laborer	0	\$33	0	\$0

Total Labor Cost for this Task: \$0

C. Disposal

Structure/Equipment	Type of Material	Volume (quantity)	Unit Cost Basis	Disposal Cost (\$)	Cost (\$)
Foundation/Footings	Concrete	-	350	\$0	\$0
Road	Asphalt	-	1500	\$0	\$0
General Site Cleanup	Misc.	-	2	\$0	\$0

Total Material Cost for this Task: \$0

D. Direct Cost for this Task

Equipment Cost + Labor Cost + Materials Cost: \$0

IV. MISCELLANEOUS COSTS

Electrical Power Closure, Fencing, or Well Closure.

Applicability: N/A

Method: N/A

Calculation Basis and Other Miscellaneous Information: N/A

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

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>\$9,048</u>
Total of all Revegetation Costs	<u>\$20,000</u>
Total of all Plant Structures and Equipment Removal Costs	<u>\$0</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>\$35,448</u>
Supervision (5% of Direct Costs)	<u>\$1,772</u>
Profit/Overhead (10%)	<u>\$3,545</u>
Contingencies (10%)	<u>\$3,545</u>
Mobilization (3%)	<u>\$1,063</u>
	<i>Total of Indirect Costs</i>
	<u>\$9,925</u>
	<i>Total of Direct and Indirect Costs</i>
	<u>\$45,373</u>
(Calculated at 5% of Direct Costs)	<i>Lead Agency Administrative Cost*</i>
	<u>\$1,772</u>
	Total Estimated Cost of Reclamation
	<u>\$47,146</u>

*Estimated at 5% of Direct Costs