

**SUBMITTAL TO THE BOARD OF SUPERVISORS  
COUNTY OF RIVERSIDE, STATE OF CALIFORNIA**

905



**FROM:** TLMA - Transportation Department

**SUBMITTAL DATE:**  
May 26, 2010

**SUBJECT:** Modification of Financial Assurance Mechanism Required by the Surface Mining and Reclamation Act (SMARA).

**RECOMMENDED MOTION:** That the Board of Supervisors approve Resolution 2010-157, which amends Resolution 97-261 that established a Pledge of Revenue to satisfy requirements of Section 2773.1 of the Public Resources Code for Financial Assurance to Reclaim Open Pit Mines.

**BACKGROUND:** The Board previously established a Pledge of Revenue as a Financial Assurance Mechanism to Reclaim Surface Mining Operations, as required by the Public Resources Code for County-operated mining sites or borrow pits used by the Transportation Department for road construction and maintenance. SMARA requires that the Financial

Juan C. Perez  
Director of Transportation

JCP:dkd

(Continued On Attached Page)

<b>FINANCIAL DATA</b>	Current F.Y. Total Cost:	\$ 0	In Current Year Budget:	N/A
	Current F.Y. Net County Cost:	\$ 0	Budget Adjustment:	N/A
	Annual Net County Cost:	\$ 0	For Fiscal Year:	2009/2010
<b>SOURCE OF FUNDS:</b> Road Funds (100%)				Positions To Be Deleted Per A-30 <input type="checkbox"/>
				Requires 4/5 Vote <input type="checkbox"/>

**C.E.O. RECOMMENDATION:**

APPROVE

BY:   
Tina Grande

**County Executive Office Signature**

**MINUTES OF THE BOARD OF SUPERVISORS**

On motion of Supervisor Buster, seconded by Supervisor Stone and duly carried, IT WAS ORDERED that the above matter is approved as recommended.

Ayes: Buster, Tavaglione, Stone and Ashley  
Nays: None  
Absent: Benoit  
Date: June 8, 2010  
xc: Transp.

Kecia Harper-Ihem  
Clerk of the Board

By:   
Deputy

Prev. Agn. Ref. 3.46 of 6/23/09

District: 1,3,4,5

Agenda Number:

**3.65**

FORM APPROVED COUNTY COUNSEL  
BY:   
DAVID H.K. HUFF  
DATE: 5/13/10  
Environmental Compliance

Dept's Recomm.:  Consent  Policy  Policy  
Per Exec. Ofc.:  Consent  Policy

The Honorable Board of Supervisors

RE: Modification of Financial Assurance Mechanism Required by the Surface Mining and Reclamation Act (SMARA).

May 26, 2010

Page 2 of 2

Assurances be adjusted annually. The adjustments account for new lands disturbed, inflation and for reclamation of lands accomplished in accordance with the approved reclamation plan (PRC 2773.1(a)(3).

The original Resolution 97-261 must be modified to adjust the reclamation costs of the individual County's sites, as contained in the Pledge of Revenue, from \$1,022,625.00 to \$994,000.00. The actual reclamation cost for each mining site or borrow pit is shown on Attachment A. Resolution 2010-157 supersedes any previously approved modification to Resolution 97-261 made by Resolution 98-323, Resolution 2003-178, Resolution 2006-118, Resolution 2007-388, Resolution 2008-196 and Resolution 2009-184. There is no current fiscal year cost associated with the future reclamation. A future expense would be incurred at the point that existing mining sites are closed. Currently, no estimated date is known or projected for the closure of any of the County's existing mining sites.

Project No. ZTR 9000

3 **RESOLUTION NO. 2010-157**

4 AMENDED RESOLUTION 97-261

5 ESTABLISHING A PLEDGE OF REVENUE  
6 FOR RECLAMATION OF COUNTY MINED LANDS

7  
8 **WHEREAS**, the Board of Supervisors on November 4, 1997 adopted Resolution  
9 No. 97-261, which established a pledge of revenue for reclaiming County mined lands;  
10 and

11 **WHEREAS**, the pledge of revenue established by Resolution No. 97-261, was  
12 increased by Resolution No. 98-323 on November 11, 1998 for the reclamation of two  
13 additional mining sites; and

14 **WHEREAS**, the pledge of revenue established by Resolution No. 97-261 was  
15 increased by Resolution No. 2003-178 on April 29, 2003 for the reclamation of two  
16 additional mining sites, and for the removal of two former mining sites; and

17 **WHEREAS**, the pledge of revenue established by Resolution No. 97-261 was  
18 increased by Resolution No. 2006-118 on August 15, 2006 for the reclamation of the  
19 expansion of one current mining site; and

20 **WHEREAS**, the pledge of revenue established by Resolution No. 97-261 was  
21 increased by Resolution No. 2007-388 on September 4, 2007 to reflect adjustments to  
22 account for new lands disturbed, inflation and for reclamation of lands accomplished in  
23 accordance with the approved reclamation plan; and

APPROVED COUNTY COUNSEL  
*David H.K. Huff*  
AVID H.K. HUFF  
DATE 5/13/10

1           **WHEREAS**, the pledge of revenue established by Resolution No. 97-261 was  
2 increased by Resolution No. 2008-196 on June 3, 2008 to reflect adjustments to  
3 account for new lands disturbed, inflation and for reclamation of lands accomplished in  
4 accordance with the approved reclamation plan; and

5           **WHEREAS**, the pledge of revenue established by Resolution No. 97-261 was  
6 increased by Resolution No. 2009-184 on June 23, 2009 to reflect adjustments to  
7 account for new lands disturbed, inflation and for reclamation of lands accomplished in  
8 accordance with the approved reclamation plan; and

9           **WHEREAS**, the pledge of revenue needs to be modified to reflect annual  
10 adjustments to account for new lands disturbed, inflation and for reclamation of lands  
11 accomplished in accordance with the approved reclamation plan.

12  
13           **NOW THEREFORE, BE IT RESOLVED, FOUND, DETERMINED AND**  
14 **ORDERED** by the Board of Supervisors of the County of Riverside, State of California,  
15 in regular session assembled on         June 8        , 2010, that:

16  
17           1. Section 1 of Resolution No. 97-261 is hereby amended to read:  
18           Road Fund revenue, located in an account known as Transportation  
19           Department Fund 20000, Department ID 3130100000 in the amount of  
20           \$994,000.00 is hereby pledged to reclaim each mine site identified in  
21           Attachment A, dated April 30, 2010, which is incorporated herein by this  
22           reference.

23  
24           2. Attachment A to Resolution No 97-261 is hereby replaced by said  
25           Attachment A, dated April 30, 2010, which is attached and incorporated herein

1

by this reference.

2

ROLL CALL:

Ayes: Buster, Tavaglione, Stone and Ashley  
Nays: None  
Absent: Benoit

The foregoing is certified to be a true copy of a resolution duly adopted by said Board of Supervisors on the date therein set forth.

KECIA HARPER-IHEM, Clerk of said Board

By: \_\_\_\_\_  
Deputy

**ATTACHMENT A**

**County Mining Sites  
Transportation Department  
April 30, 2010**

<b>Name</b>	<b>California Mine I.D Number</b>	<b>Reclamation Cost Estimates</b>
Bradshaw Pit	91-33-0046	\$55,500.00
Brookside Materials Yard	91-33-0094	\$328,000.00
Bundy Canyon Pit	91-33-0049	\$108,375.00
East Benton Pit	91-33-0052	\$39,250.00
Juniper Flats Pit	91-33-0053	\$78,125.00
Little Lake Pit	91-33-0055	\$33,375.00
Markham Pit	91-33-0054	\$137,875.00
Midland Pit	91-33-0051	\$84,875.00
Mountain View Pit	91-33-0048	\$34,875.00
Terwilliger Pit	91-33-0047	\$37,875.00
Thermal Pit	91-33-0090	\$55,875.00
	<b>TOTAL</b>	<b>\$994,000.00</b>

ATTACHMENT A

**Bradshaw Material Site Financial Assurance Calculations for Reclamation**  
**California Mine I.D Number 91-33-0046**  
**4/30/2010**

This cost estimate is based on the following assumptions:

- 1) The maximum amount of disturbance (acres) = 15
- 2) Slopes will be recontoured and graded to blend with the surrounding area.
- 3) The finished slopes and floor of the material site will be furrowed to retain rainfall and seeds to promote revegetation.
- 4) The finished slopes and floor of the site will be reseeded by pressure spraying with a seed mix of plants native to the area.
- 5) Labor & equipment rates were based on current general prevailing wage rates issued by California Department of Industrial Relations, and Caltrans Labor Surcharge and Equipment Rental Rates.
- 6) Production rates were obtained from the Caterpillar Performance Handbook (Edition 34)

**I. Unit costs for equipment, material and labor to be used for reclamation:**  
**(equipment hourly rate includes driver/operator)**

	Hourly Rate		
	Equipment	Labor	Total
D-8R Dozer w/operator	192.20	81.65	273.85
Water Truck w/driver	62.95	68.68	131.63
CAT 120G Grader w/operator	70.15	82.08	152.23
5-axle Low Bed Truck & Trailer w/driver	108.45	69.76	178.20
Foreman		89.87	89.87
Laborer		42.67	42.67
Seed Mix @ \$35/lb			35.00

**II. Reclamation Tasks**

**Task 1 Regrade & Finish Slopes**

Regrade and recontour area to a gradient no steeper than 2:1  
 Regrade and finish slopes to blend with surrounding area, including  
 furrowing of slopes and ripping pit floor: Estimated manhours---->>>>>> 35

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs	Total			
D-8R Dozer w/operator	1	ea	273.85	9	2,465			
Motor Grader w/operator	1	ea	152.23	9	1,370			
Low Bed Truck w/driver	1	ea	178.20	8	1,426			
Water Truck w/driver	1	ea	131.63	9	1,185			
Task 1 Total				35	6,445	say		6,400

**Task 2 Broadcast Seeding**

Distribute native plant mix over finished slopes and mine floor. Seed mix will be distributed at a rate of 30 pounds per acre by broadcasting with an automatic pressure sprayer.  
 Mix seed into soil by dragging a chain over the area. Estimated manhours ---->>>>>> 48

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs	Total			
Foreman	1	ea	89.87	8	719			
Laborer	2	ea	42.67	20	1,707			
Water Truck w/driver	1	ea	131.63	20	2,633			
Seed mix application	435,600	sf	0.04	na	17,424			
Task 4 Total	0			48	22,482	say		22,500

**Task 3 Monitoring**

Perform a field investigation of the site each spring to monitor revegetation. Monitoring will take place for up to four years following reclamation to verify the success standards are being met.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total		
Task 5 Total					11,520		

**SUBTOTAL 40,400**

**Bond Amount**

<b>Subtotal</b>	<b>40,400</b>
<b>Supervision (5%)</b>	<b>2,020</b>
<b>Mobilization &amp; Demobilization (lump sum)</b>	<b>5,000</b>
<b>Profit &amp; Overhead (included in Hrly rates for Labor &amp; Equipment)</b>	
<b>Contingency (10%)</b>	<b>4,040</b>
<b>Lead Agency Administrative Cost (10%)</b>	<b>4,040</b>
<b>Total Bond Amount</b>	<b>55,500</b>

ATTACHMENT A

**Brookside Material Site Financial Assurance Calculations for Reclamation**  
**California Mine I.D Number 91-33-0094**  
**4/30/2010**

This cost estimate is based on the following assumptions:

- 1) The maximum amount of disturbance 29.81 acres
- 2) Slopes will be recontoured and graded to blend with the surrounding area.
- 3) The finished slopes and floor of the material site will be furrowed to retain rainfall and seeds to promote revegetation.
- 4) The finished slopes and floor of the site will be reseeded by pressure spraying with a seed mix of plants native to the area.
- 5) Labor & equipment rates were based on current general prevailing wage rates issued by California Department of Industrial Relations, and Caltrans Labor Surcharge and Equipment Rental Rates.
- 6) Production rates were obtained from the Caterpillar Performance Handbook (Edition 34)

Unit costs for equipment, material and labor to be used for reclamation:  
 (equipment hourly rate includes driver/operator)

	Hourly Rate		
	Equipment	Labor	Total
D-8R Dozer w/operator	192.20	81.65	273.85
963 Loader w/operator	123.06	71.76	194.82
Water Truck w/driver	62.95	68.68	131.63
Low Bed Truck w/driver	62.95	69.76	132.71
3-axle End Dump Truck w/driver	62.95	69.76	132.71
Truck mounted crane w/operator	81.80	68.68	150.48
Foreman		89.87	89.87
Laborer		42.67	42.67
Seed Mix @ \$35/lb			35.00

**I. Reclamation Tasks**

**Task 1 Regrade & Finish Slopes**

Regrade and recontour area to a gradient no steeper than 3:1 (2000 cy/ac)  
 Estimated time to regrade and finish slopes to blend with surrounding area, including furrowing of slopes and ripping pit floor: 685 hours.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total	
D-8R Dozer w/operator	2	ea	273.85	343	93,795	
Water Truck w/driver	1	ea	131.63	171	22,541	
Task 1 Total					116,336	say 116,300

**Task 2 Construct Drainage Structures**

Construct interceptor drain, down drain, install rip rap, install chain link fence and gate.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total	
Interceptor Drain	2,875	LF	5.00	na	14,375	
Down Drain	130	LF	5.00	na	650	
Rip Rap Pad	2	ea	500.00	na	1,000	
Install Chain Link Fence & Gate	3,275	LF	10.00	na	32,750	
Task 2 Total					48,775	say 48,800

**Task 3 Remove Mining Equipment**

Remove non-mobile mining equipment, processing equipment, equipment boneyard, storage sheds, and other structures or equipment which was not at the site prior to mining.  
 5 working days are estimated to complete this task.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total	
Foreman	1	ea	89.87	40	3,595	
Laborer	2	ea	42.67	40	3,414	
966 Loader w/operator	1	ea	194.82	40	7,793	
Truck mounted crane w/operator	1	ea	150.48	40	6,019	
Low Bed Truck w/driver	0	ea	132.71	24	0	
End Dump Truck w/driver	1	ea	132.71	24	3,185	
Task 3 Total					24,005	say 24,000



ATTACHMENT A

**Brookside Material Site Financial Assurance Calculations for Reclamation**

**Task 4 Broadcast Seeding**

Distribute native plant mix over finished slopes and mine floor. Seed mix will be distributed at a rate of 57 pounds per acre (29.81 acres) by broadcasting with an automatic pressure sprayer. Mix seed into soil by dragging a chain over the area.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total		
Foreman	1	ea	89.87	24	2,157		
Laborer	2	ea	42.67	40	3,414		
Water Truck w/driver	1	ea	131.63	24	3,159		
Seed mix application	1,298,524	sf	0.04	na	51,941		
Task 4 Total					60,671	say	60,700

**Task 5 Monitoring**

**Profit & Overhead (included in Hrly rates for Labor & Equipment)**

Perform a field investigation of the site each spring to monitor revegetation. Monitoring will take place for three years following reclamation to verify the success standards are being met.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total		
Report Preparation	3	years	120.00	24	8,640		
Task 5 Total					8,640	say	8,600

**SUBTOTAL 258,400**

**Bond Amount**

**Subtotal 258,400**

**Supervision (5%) 12,920**

**Mobilization & Demobilization (lump sum) 5,000**

**Profit & Overhead (included in Hrly rates for Labor & Equipment)**

**Contingency (10%) 25,840**

**Lead Agency Administrative Cost (10%) 25,840**

**Total Bond Amount 328,000**

**ATTACHMENT A**

**Bundy Canyon Material Site Financial Assurance Calculations for Reclamation**  
**California Mine I.D Number 91-33-0049**  
**4/30/2010**

This cost estimate is based on the following assumptions:

- 1) The maximum amount of disturbance (acres) = 50
- 2) Slopes will be recontoured and graded to blend with the surrounding area.
- 3) The finished slopes and floor of the material site will be furrowed to retain rainfall and seeds to promote revegetation.
- 4) The finished slopes and floor of the site will be reseeded by pressure spraying with a seed mix of plants native to the area.
- 5) Labor & equipment rates were based on current general prevailing wage rates issued by California Department of Industrial Relations, and Caltrans Labor Surcharge and Equipment Rental Rates.
- 6) Production rates were obtained from the Caterpillar Performance Handbook (Edition 34)

**I. Unit costs for equipment, material and labor to be used for reclamation:**  
**(equipment hourly rate includes driver/operator)**

	Hourly Rate		
	Equipment	Labor	Total
D-8R Dozer w/operator	192.20	81.65	273.85
Water Truck w/operator	62.95	68.68	131.63
Motor Grader w/operator	70.15	82.08	152.23
Low Bed Truck w/driver	108.45	69.76	178.20
Foreman		89.87	89.87
Laborer		42.67	42.67
Seed Mix @ \$35/lb			35.00

**II. Reclamation Tasks**

**Task 1 Regrade & Finish Slopes**

Regrade and recontour area to a gradient no steeper than 2:1  
 Regrade and finish slopes to blend with surrounding area, including  
 furrowing of slopes and ripping pit floor: Estimated manhours----->>>>>>> 58

	Qty	Unit	Rate	No. Man		Total		
				Hrs	Total			
Labor & Equipment								
D-8R Dozer w/operator	1	ea	273.85	18	4,929			
Motor Grader w/operator	1	ea	152.23	18	2,740			
Low Bed Truck w/driver	1	ea	178.20	4	713			
Water Truck w/operator	1	ea	131.63	18	2,369			
Task 1 Total				58	10,752	say	10,800	

**Task 2 Broadcast Seeding**

Distribute native plant mix over finished slopes and mine floor. Seed mix will be distributed at a rate of 30 pounds per acre by broadcasting with an automatic pressure sprayer.  
 Mix seed into soil by dragging a chain over the area. Estimated manhours ----->>>>>>> 22

	Qty	Unit	Rate	No. Man		Total		
				Hrs	Total			
Labor & Equipment								
Foreman	1	ea	89.87	4	359			
Laborer	2	ea	42.67	9	768			
Water Truck w/operator	1	ea	131.63	9	1,185			
Seed mix application	1,452,000	sf	0.04	na	58,080			
Task 4 Total	0			22	60,392	say	60,400	

**Task 3 Monitoring**

Perform a field investigation of the site each spring to monitor revegetation. Monitoring will take place for up to four years following reclamation to verify the success standards are being met.

	Qty	Unit	Rate	No. Hrs	Total		
Labor & Equipment							
Report Preparation	4	years	120.00	24	11,520		
Task 5 Total					11,520	say	11,500

**SUBTOTAL 82,700**

**Bond Amount**

**Subtotal 82,700**

**Supervision (5%) 4,135**

**Mobilization & Demobilization (lump sum) 5,000**

**Profit & Overhead (included in Hrly rates for Labor & Equipment)**

**Contingency (10%) 8,270**

**Lead Agency Administrative Cost (10%) 8,270**

**Total Bond Amount 108,375**

ATTACHMENT A

**East Benton Material Site Financial Assurance Calculations for Reclamation**

**California Mine I.D Number 91-33-0052**

4/30/2010

This cost estimate is based on the following assumptions:

- 1) The maximum amount of disturbance (acres) = 4
- 2) Slopes will be recontoured and graded to blend with the surrounding area.
- 3) The finished slopes and floor of the material site will be furrowed to retain rainfall and seeds to promote revegetation.
- 4) The finished slopes and floor of the site will be reseeded by pressure spraying with a seed mix of plants native to the area.
- 5) Labor & equipment rates were based on current general prevailing wage rates issued by California Department of Industrial Relations, and Calltrans Labor Surcharge and Equipment Rental Rates.
- 6) Production rates were obtained from the Caterpillar Performance Handbook (Edition 34)

**I. Unit costs for equipment, material and labor to be used for reclamation:  
(equipment hourly rate includes driver/operator)**

	Hourly Rate		
	Equipment	Labor	Total
D-8R Dozer w/operator	192.20	81.65	273.85
Water Truck w/driver	62.95	68.68	131.63
Motor Grader w/operator	70.15	82.08	152.23
Low Bed Truck w/driver	108.45	69.76	178.20
Foreman		89.87	89.87
Laborer		89.87	89.87
Seed Mix @ \$35/lb		42.67	35.00

**II. Reclamation Tasks**

**Task 1 Regrade & Finish Slopes**

Regrade and recontour area to a gradient no steeper than 2:1  
 Regrade and finish slopes to blend with surrounding area, including  
 furrowing of slopes and ripping pit floor: Estimated manhours---->>>>>> 31

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs				
D-8R Dozer w/operator	1	ea	273.85	9		2,465		
Motor Grader w/operator	1	ea	152.23	9		1,370		
Low Bed Truck w/driver	1	ea	178.20	4		713		
Water Truck w/driver	1	ea	131.63	9		1,185		
Task 1 Total				31		5,732	say	5,700

**Task 2 Broadcast Seeding**

Distribute native plant mix over finished slopes and mine floor. Seed mix will be distributed at a rate of 30 pounds per acre by broadcasting with an automatic pressure sprayer.  
 Mix seed into soil by dragging a chain over the area. Estimated manhours ---->>>>>> 24

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs				
Foreman	1	ea	89.87	8		719		
Laborer	2	ea	89.87	8		1,438		
Water Truck w/driver	1	ea	131.63	8		1,053		
Seed mix application	174,240	sf	0.04	na		6,970		
Task 4 Total				24		10,180	say	10,200
	0							

**Task 3 Monitoring**

Perform a field investigation of the site each spring to monitor revegetation. Monitoring will take place for up to four years following reclamation to verify the success standards are being met.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total		
Task 5 Total					11,520		

**SUBTOTAL 27,400**

**Bond Amount**

**Subtotal 27,400**

**Supervision (5%) 1,370**

**Mobilization & Demobilization (lump sum) 5,000**

**Profit & Overhead (included in Hrly rates for Labor & Equipment)**

**Contingency (10%) 2,740**

**Lead Agency Administrative Cost (10%) 2,740**

**Total Bond Amount 39,250**

ATTACHMENT A

**Juniper Material Site Financial Assurance Calculations for Reclamation  
California Mine I.D Number 91-33-0053  
4/30/2010**

This cost estimate is based on the following assumptions:

- 1) The maximum amount of disturbance (acres) = 30
- 2) Slopes will be recontoured and graded to blend with the surrounding area.
- 3) The finished slopes and floor of the material site will be furrowed to retain rainfall and seeds to promote revegetation.
- 4) The finished slopes and floor of the site will be reseeded by pressure spraying with a seed mix of plants native to the area.
- 5) Labor & equipment rates were based on current general prevailing wage rates issued by California Department of Industrial Relations, and Caltrans Labor Surcharge and Equipment Rental Rates.
- 6) Production rates were obtained from the Caterpillar Performance Handbook (Edition 34)

**I. Unit costs for equipment, material and labor to be used for reclamation:  
(equipment hourly rate includes driver/operator)**

	Hourly Rate		
	Equipment	Labor	Total
D-8R Dozer w/operator	192.20	81.65	273.85
Water Truck w/driver	62.95	68.68	131.63
Motor Grader w/operator	70.15	82.08	152.23
Low Bed Truck w/driver	108.45	69.76	178.20
Foreman		89.87	89.87
Laborer		42.67	42.67
Seed Mix @ \$35/lb			35.00

**II. Reclamation Tasks**

**Task 1 Regrade & Finish Slopes**

Regrade and recontour area to a gradient no steeper than 2:1  
Regrade and finish slopes to blend with surrounding area, including  
furrowing of slopes and ripping pit floor: Estimated manhours----->>>>>>>> 48

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs	Total			
D-8R Dozer w/operator	1	ea	273.85	20	5,477			
Motor Grader w/operator	1	ea	152.23	10	1,522			
Low Bed Truck w/driver	1	ea	178.20	8	1,426			
Water Truck w/driver	1	ea	131.63	10	1,316			
Task 1 Total				48	9,741	say		9,700

**Task 2 Broadcast Seeding**

Distribute native plant mix over finished slopes and mine floor. Seed mix will be distributed at a rate of 30 pounds per acre by broadcasting with an automatic pressure sprayer.  
Mix seed into soil by dragging a chain over the area. Estimated manhours ----->>>>>>>> 24

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs	Total			
Foreman	1	ea	89.87	8	719			
Laborer	2	ea	42.67	8	683			
Water Truck w/driver	1	ea	131.63	8	1,053			
Seed mix application	871,200	sf	0.04	na	34,848			
Task 4 Total	0			24	37,303	say		37,300

**Task 3 Monitoring**

Perform a field investigation of the site each spring to monitor revegetation. Monitoring will take place for up to four years following reclamation to verify the success standards are being met.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total		
Report Preparation	4	years	120.00	24	11,520		
Task 5 Total					11,520	say	11,500

**SUBTOTAL 58,500**

**Bond Amount**

**Subtotal 58,500**

**Supervision (5%) 2,925**

**Mobilization & Demobilization (lump sum) 5,000**

**Profit & Overhead (included in Hrly rates for Labor & Equipment)**

**Contingency (10%) 5,850**

**Lead Agency Administrative Cost (10%) 5,850**

**Total Bond Amount 78,125**

ATTACHMENT A

**Little Lake Material Site Financial Assurance Calculations for Reclamation**  
**California Mine I.D Number 91-33-0055**  
4/30/2010

This cost estimate is based on the following assumptions:

- 1) The maximum amount of disturbance (acres) = 2
- 2) Slopes will be recontoured and graded to blend with the surrounding area.
- 3) The finished slopes and floor of the material site will be furrowed to retain rainfall and seeds to promote revegetation.
- 4) The finished slopes and floor of the site will be reseeded by pressure spraying with a seed mix of plants native to the area.
- 5) Labor & equipment rates were based on current general prevailing wage rates issued by California Department of Industrial Relations, and Caltrans Labor Surcharge and Equipment Rental Rates.
- 6) Production rates were obtained from the Caterpillar Performance Handbook (Edition 34)

**I. Unit costs for equipment, material and labor to be used for reclamation:**  
**(equipment hourly rate includes driver/operator)**

	Hourly Rate		
	Equipment	Labor	Total
D-8R Dozer w/operator	192.20	81.65	273.85
Water Truck w/driver	62.95	68.68	131.63
Motor Grader w/operator	70.15	82.08	152.23
Low Bed Truck w/driver	108.45	69.76	178.20
Foreman		89.87	89.87
Laborer		42.67	42.67
Seed Mix @ \$35/lb			35.00

**II. Reclamation Tasks**

**Task 1 Regrade & Finish Slopes**

Regrade and recontour area to a gradient no steeper than 2:1  
 Regrade and finish slopes to blend with surrounding area, including  
 furrowing of slopes and ripping pit floor: Estimated manhours---->>>>>>> 31

	Qty	Unit	Rate	No. Man		Total		
				Hrs	Total			
Labor & Equipment								
D-8R Dozer w/operator	1	ea	273.85	9		2,465		
Motor Grader w/operator	1	ea	152.23	9		1,370		
Low Bed Truck w/driver	1	ea	178.20	4		713		
Water Truck w/driver	1	ea	131.63	9		1,185		
Task 1 Total				31		5,732	say	5,700

**Task 2 Broadcast Seeding**

Distribute native plant mix over finished slopes and mine floor. Seed mix will be distributed at a rate of 30 pounds per acre by broadcasting with an automatic pressure sprayer.  
 Mix seed into soil by dragging a chain over the area. Estimated manhours ---->>>>>>> 20

	Qty	Unit	Rate	No. Man		Total		
				Hrs	Total			
Labor & Equipment								
Foreman	1	ea	89.87	4		359		
Laborer	2	ea	42.67	9		768		
Water Truck w/driver	1	ea	131.63	7		921		
Seed mix application	87,120	sf	0.04	na		3,485		
Task 4 Total	0			20		5,534	say	5,500

**Task 3 Monitoring**

Perform a field investigation of the site each spring to monitor revegetation. Monitoring will take place for up to four years following reclamation to verify the success standards are being met.

	Qty	Unit	Rate	No. Hrs	Total		
Labor & Equipment							
Report Preparation	4	years	120.00	24	11,520		
Task 5 Total					11,520	say	11,500

**SUBTOTAL 22,700**

**Bond Amount**

**Subtotal 22,700**

**Supervision (5%) 1,135**

**Mobilization & Demobilization (lump sum) 5,000**

**Profit & Overhead (included in Hrly rates for Labor & Equipment)**

**Contingency (10%) 2,270**

**Lead Agency Administrative Cost (10%) 2,270**

**Total Bond Amount 33,375**

ATTACHMENT A

**Markham Material Site Financial Assurance Calculations for Reclamation**  
**California Mine I.D Number 91-33-0054**  
**4/30/2010**

This cost estimate is based on the following assumptions:

- 1) The maximum amount of disturbance (acres) = 11.8
- 2) Slopes will be recontoured and graded to blend with the surrounding area.
- 3) The finished slopes and floor of the material site will be furrowed to retain rainfall and seeds to promote revegetation.
- 4) The finished slopes and floor of the site will be reseeded by pressure spraying with a seed mix of plants native to the area.
- 5) Labor & equipment rates were based on current general prevailing wage rates issued by California Department of Industrial Relations, and Caltrans Labor Surcharge and Equipment Rental Rates.
- 6) Production rates were obtained from the Caterpillar Performance Handbook (Edition 34)

**I. Unit costs for equipment, material and labor to be used for reclamation:**  
**(equipment hourly rate includes driver/operator)**

	Hourly Rate		
	Equipment	Labor	Total
D-8R Dozer w/operator	192.20	81.65	273.85
Water Truck w/driver	62.95	68.68	131.63
Motor Grader w/operator	70.15	82.08	152.23
Low Bed Truck w/driver	108.45	69.76	178.20
Foreman		89.87	89.87
Laborer		89.87	89.87
Seed Mix @ \$35/lb		42.67	35.00

**II. Reclamation Tasks**

**Task 1 Regrade & Finish Slopes**

Regrade and recontour area to a gradient no steeper than 2:1  
 Regrade and finish slopes to blend with surrounding area, including  
 furrowing of slopes and ripping pit floor: Estimated manhours---->>>>>>> 233

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs	Total			
D-8R Dozer w/operator	2	ea	273.85	120	32,862			
Motor Grader w/operator	1	ea	152.23	40	6,089			
Low Bed Truck w/driver	1	ea	178.20	8	1,426			
Water Truck w/driver	1	ea	131.63	65	8,556			
Task 1 Total				233	48,933	say		48,900

**Task 2 Construct Drainage Structures**

Construct interceptor drain, down drain & install rip rap.

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs	Total			
Interceptor Drain	1,150	LF	10.00	na	11,500			
Down Drain	60	LF	10.00	na	600			
Rip Rap Pad	3	ea	500.00	na	1,500			
Task 2 Total					13,600	say		13,600

**Task 3 Broadcast Seeding**

Distribute native plant mix over finished slopes and mine floor. Seed mix will be distributed at a rate of 30 pounds per acre (6.8 acres total) by broadcasting with an automatic pressure sprayer.  
 Mix seed into soil by dragging a chain over the area. Estimated manhours ---->>>>>>> 84

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs	Total			
Foreman	1	ea	89.87	24	2,157			
Laborer	2	ea	89.87	36	6,471			
Water Truck w/driver	1	ea	131.63	24	3,159			
Seed mix application	514,008	sf	0.04	na	20,560			
Task 4 Total				84	32,347	say		32,300

**Task 4 Monitoring**

Perform a field investigation of the site each spring to monitor revegetation. Monitoring will take place for up to four years following reclamation to verify the success standards are being met.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total		
Report Preparation	4	years	120.00	24	11,520	say	11,500
Task 5 Total					11,520		

**SUBTOTAL 106,300**

**Bond Amount**

**Subtotal 106,300**

**Supervision (5%) 5,315**

**Mobilization & Demobilization (lump sum) 5,000**

**Profit & Overhead (included in Hrly rates for Labor & Equipment)**

**Contingency (10%) 10,630**

**Lead Agency Administrative Cost (10%) 10,630**

**Total Bond Amount 137,875**

ATTACHMENT A

**Midland Material Site Financial Assurance Calculations for Reclamation**  
**California Mine I.D Number 91-33-0051**  
**4/30/2010**

This cost estimate is based on the following assumptions:

- 1) The maximum amount of disturbance (acres) = 52
- 2) Slopes will be recontoured and graded to blend with the surrounding area.
- 3) The finished slopes and floor of the material site will be furrowed to retain rainfall and seeds to promote revegetation.
- 4) The finished slopes and floor of the site will be reseeded by pressure spraying with a seed mix of plants native to the area.
- 5) Labor & equipment rates were based on current general prevailing wage rates issued by California Department of Industrial Relations, and Caltrans Labor Surcharge and Equipment Rental Rates.
- 6) Production rates were obtained from the Caterpillar Performance Handbook (Edition 34)

**I. Unit costs for equipment, material and labor to be used for reclamation:**  
**(equipment hourly rate includes driver/operator)**

	Hourly Rate		
	Equipment	Labor	Total
D-8R Dozer w/operator	192.20	81.65	273.85
Water Truck w/driver	62.95	68.68	131.63
Motor Grader w/operator	70.15	82.08	152.23
Low Bed Truck w/driver	108.45	69.76	178.20
Foreman		89.87	89.87
Laborer		42.67	42.67
Seed Mix @ \$35/lb			35.00

**II. Reclamation Tasks**

**Task 1 Regrade & Finish Slopes**

Regrade and recontour area to a gradient no steeper than 2:1  
 Regrade and finish slopes to blend with surrounding area, including  
 furrowing of slopes and ripping pit floor: Estimated manhours---->>>>>>> 71

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs	Total			
D-8R Dozer w/operator	1	ea	273.85	27	7,394			
Motor Grader w/operator	1	ea	152.23	9	1,370			
Low Bed Truck w/driver	1	ea	178.20	8	1,426			
Water Truck w/driver	1	ea	131.63	27	3,554			
Task 1 Total				71	13,744	say	13,700	

**Task 2 Broadcast Seeding**

Distribute native plant mix over finished slopes and mine floor. Seed mix will be distributed at a rate of 30 pounds per acre by broadcasting with an automatic pressure sprayer.  
 Mix seed into soil by dragging a chain over the area. Estimated manhours ---->>>>>>> 24

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs	Total			
Foreman	1	ea	89.87	8	719			
Laborer	2	ea	42.67	8	683			
Water Truck w/driver	1	ea	131.63	8	1,053			
Seed mix application	906,048	sf	0.04	na	36,242			
Task 4 Total				24	38,697	say	38,700	

**Task 3 Monitoring**

Perform a field investigation of the site each spring to monitor revegetation. Monitoring will take place for up to four years following reclamation to verify the success standards are being met.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total		
Task 5 Total					11,520		

**SUBTOTAL 63,900**

**Bond Amount**

**Subtotal 63,900**

**Supervision (5%) 3,195**

**Mobilization & Demobilization (lump sum) 5,000**

**Profit & Overhead (included in Hrlly rates for Labor & Equipment)**

**Contingency (10%) 6,390**

**Lead Agency Administrative Cost (10%) 6,390**

**Total Bond Amount 84,875**

ATTACHMENT A

**Mountain View Road Material Site Financial Assurance Calculations for Reclamation**  
**California Mine I.D Number 91-33-0048**  
**4/30/2010**

This cost estimate is based on the following assumptions:

- 1) The maximum amount of disturbance (acres) = 3
- 2) Slopes will be recontoured and graded to blend with the surrounding area.
- 3) The finished slopes and floor of the material site will be furrowed to retain rainfall and seeds to promote revegetation.
- 4) The finished slopes and floor of the site will be reseeded by pressure spraying with a seed mix of plants native to the area.
- 5) Labor & equipment rates were based on current general prevailing wage rates issued by California Department of Industrial Relations, and Caltrans Labor Surcharge and Equipment Rental Rates.
- 6) Production rates were obtained from the Caterpillar Performance Handbook (Edition 34)

**I. Unit costs for equipment, material and labor to be used for reclamation:**  
**(equipment hourly rate includes driver/operator)**

	Hourly Rate		
	Equipment	Labor	Total
D-8R Dozer w/operator	192.20	81.65	273.85
Water Truck w/driver	62.95	68.68	131.63
Motor Grader w/operator	70.15	82.08	152.23
Low Bed Truck w/driver	108.45	69.76	178.20
Foreman		89.87	89.87
Laborer		89.87	89.87
Seed Mix @ \$35/lb		42.67	35.00

**II. Reclamation Tasks**

**Task 1 Regrade & Finish Slopes**

Regrade and recontour area to a gradient no steeper than 2:1  
 Regrade and finish slopes to blend with surrounding area, including  
 furrowing of slopes and ripping pit floor: Estimated manhours---->>>>>> 31

Labor & Equipment	Qty	Unit	Rate	No. Man		Total	
				Hrs	Total		
D-8R Dozer w/operator	1	ea	273.85	9	2,465		
Motor Grader w/operator	1	ea	152.23	9	1,370		
Low Bed Truck w/driver	1	ea	178.20	4	713		
Water Truck w/driver	1	ea	131.63	9	1,185		
Task 1 Total				31	5,732	say	5,700

**Task 2 Broadcast Seeding**

Distribute native plant mix over finished slopes and mine floor. Seed mix will be distributed at a rate of 30 pounds per acre by broadcasting with an automatic pressure sprayer.  
 Mix seed into soil by dragging a chain over the area. Estimated manhours ---->>>>>> 10

Labor & Equipment	Qty	Unit	Rate	No. Man		Total	
				Hrs	Total		
Foreman	1	ea	89.87	2	180		
Laborer	2	ea	89.87	4	719		
Water truck	1	ea	131.63	4	527		
Seed mix application	130,680	sf	0.04	na	5,227		
Task 4 Total				10	6,652	say	6,700

**Task 3 Monitoring**

Perform a field investigation of the site each spring to monitor revegetation. Monitoring will take place for up to four years following reclamation to verify the success standards are being met.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total	
Report Preparation	4	years	120.00	24	11,520	
Task 5 Total					11,520	say 11,500

**SUBTOTAL 23,900**

**Bond Amount**

**Subtotal 23,900**

**Supervision (5%) 1,195**

**Mobilization & Demobilization (lump sum) 5,000**

**Profit & Overhead (included in Hrly rates for Labor & Equipment)**

**Contingency (10%) 2,390**

**Lead Agency Administrative Cost (10%) 2,390**

**Total Bond Amount 34,875**



ATTACHMENT A

**Terwilliger Road Material Site Financial Assurance Calculations for Reclamation  
California Mine I.D Number 91-33-0047  
4/30/2010**

This cost estimate is based on the following assumptions:

- 1) The maximum amount of disturbance (acres) = 10
- 2) Slopes will be recontoured and graded to blend with the surrounding area.
- 3) The finished slopes and floor of the material site will be furrowed to retain rainfall and seeds to promote revegetation.
- 4) The finished slopes and floor of the site will be reseeded by pressure spraying with a seed mix of plants native to the area.
- 5) Labor & equipment rates were based on current general prevailing wage rates issued by California Department of Industrial Relations, and Caltrans Labor Surcharge and Equipment Rental Rates.
- 6) Production rates were obtained from the Caterpillar Performance Handbook (Edition 34)

**I. Unit costs for equipment, material and labor to be used for reclamation:  
(equipment hourly rate includes driver/operator)**

	Hourly Rate		
	Equipment	Labor	Total
D-8R Dozer w/operator	192.20	81.65	273.85
Water Truck w/driver	62.95	68.68	131.63
Motor Grader w/operator	70.15	82.08	152.23
Low Bed Truck w/driver	108.45	69.76	178.20
Foreman		89.87	89.87
Laborer		42.67	42.67
Seed Mix @ \$35/lb			35.00

**II. Reclamation Tasks**

**Task 1 Regrade & Finish Slopes**

Regrade and recontour area to a gradient no steeper than 2:1  
 Regrade and finish slopes to blend with surrounding area, including  
 furrowing of slopes and ripping pit floor: Estimated manhours----->>>>>>> 26

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs				
D-8R Dozer w/operator	1	ea	273.85	9		2,465		
Motor Grader w/operator	1	ea	152.23	4		609		
Low Bed Truck w/driver	1	ea	178.20	4		713		
Water Truck w/driver	1	ea	131.63	9		1,185		
Task 1 Total				26		4,971	say	5,000

**Task 2 Broadcast Seeding**

Distribute native plant mix over finished slopes and mine floor. Seed mix will be distributed at a rate of 30 pounds per acre by broadcasting with an automatic pressure sprayer.  
 Mix seed into soil by dragging a chain over the area. Estimated manhours ----->>>>>>> 10

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs				
Foreman	1	ea	89.87	2		180		
Laborer	2	ea	42.67	4		341		
Water Truck w/driver	1	ea	131.63	4		527		
Seed mix application	217,800	sf	0.04	na		8,712		
Task 4 Total	0			10		9,760	say	9,800

**Task 3 Monitoring**

Perform a field investigation of the site each spring to monitor revegetation. Monitoring will take place for up to four years following reclamation to verify the success standards are being met.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total		
Task 5 Total					11,520	say	11,500

**SUBTOTAL 26,300**

**Bond Amount**

**Subtotal 26,300**

**Supervision (5%) 1,315**

**Mobilization & Demobilization (lump sum) 5,000**

**Profit & Overhead (included in Hrly rates for Labor & Equipment)**

**Contingency (10%) 2,630**

**Lead Agency Administrative Cost (10%) 2,630**

**Total Bond Amount 37,875**

ATTACHMENT A

**New Thermal Canyon Material Site Financial Assurance Calculations for Reclamation**  
**California Mine I.D Number 91-33-0090**  
**4/30/2010**

This cost estimate is based on the following assumptions:

- 1) The maximum amount of disturbance (acres) = 10
- 2) Slopes will be recontoured and graded to blend with the surrounding area.
- 3) The finished slopes and floor of the material site will be furrowed to retain rainfall and seeds to promote revegetation.
- 4) The finished slopes and floor of the site will be reseeded by pressure spraying with a seed mix of plants native to the area.
- 5) Labor & equipment rates were based on current general prevailing wage rates issued by California Department of Industrial Relations, and Caltrans Labor Surcharge and Equipment Rental Rates.
- 6) Production rates were obtained from the Caterpillar Performance Handbook (Edition 34)

**I. Unit costs for equipment, material and labor to be used for reclamation:**  
**(equipment hourly rate includes driver/operator)**

	Hourly Rate		
	Equipment	Labor	Total
D-8R Dozer w/operator	192.20	81.65	273.85
Water Truck w/driver	62.95	68.68	131.63
Motor Grader w/operator	70.15	82.08	152.23
Low Bed Truck w/driver	108.45	69.76	178.20
Foreman		89.87	89.87
Laborer		42.67	42.67
Seed Mix @ \$35/lb			35.00

**II. Reclamation Tasks**

**Task 1 Regrade & Finish Slopes**

Regrade and recontour area to a gradient no steeper than 2:1  
 Regrade and finish slopes to blend with surrounding area, including  
 furrowing of slopes and ripping pit floor: Estimated manhours---->>>>>> 80

Labor & Equipment	Qty	Unit	Rate	No. Man		Total	
				Hrs	Total		
D-8R Dozer w/operator	1	ea	273.85	27	7,394		
Motor Grader w/operator	1	ea	152.23	18	2,740		
Low Bed Truck w/driver	1	ea	178.20	8	1,426		
Water Truck w/driver	1	ea	131.63	27	3,554		
Task 1 Total				80	15,114	say	15,100

**Task 2 Broadcast Seeding**

Distribute native plant mix over finished slopes and mine floor. Seed mix will be distributed at a rate of 30 pounds per acre by broadcasting with an automatic pressure sprayer.  
 Mix seed into soil by dragging a chain over the area. Estimated manhours---->>>>>> 24

Labor & Equipment	Qty	Unit	Rate	No. Man		Total	
				Hrs	Total		
Foreman	1	ea	89.87	8	719		
Laborer	2	ea	42.67	8	683		
Water Truck w/driver	1	ea	131.63	8	1,053		
Seed mix application	290,400	sf	0.04	na	11,616		
Task 4 Total	0			24	14,071	say	14,100

**Task 3 Monitoring**

Perform a field investigation of the site each spring to monitor revegetation. Monitoring will take place for up to four years following reclamation to verify the success standards are being met.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total	
Report Preparation	4	years	120.00	24	11,520	
Task 5 Total					11,520	say <u>11,500</u>

**SUBTOTAL 40,700**

**Bond Amount**

**Subtotal 40,700**

**Supervision (5%) 2,035**

**Mobilization & Demobilization (lump sum) 5,000**

**Profit & Overhead (included in Hrly rates for Labor & Equipment)**

**Contingency (10%) 4,070**

**Lead Agency Administrative Cost (10%) 4,070**

**Total Bond Amount 55,875**