

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

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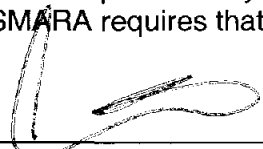
FROM: TLMA - Transportation Department

SUBMITTAL DATE:
June 16, 2011

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

RECOMMENDED MOTION: That the Board of Supervisors approve Resolution 2011-163, 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)

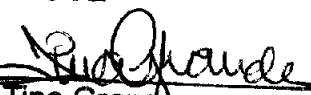
FINANCIAL DATA	Current F.Y. Total Cost:	\$ 0	In Current Year Budget:	N/A
	Current F.Y. Net County Cost:	\$ 0	Budget Adjustment:	N/A
	Annual Net County Cost:	\$ 0	For Fiscal Year:	2011/2012

SOURCE OF FUNDS: Road Funds (100%)	Positions To Be Deleted Per A-30	<input type="checkbox"/>
	Requires 4/5 Vote	<input type="checkbox"/>

There are no General Funds used in this project.

C.E.O. RECOMMENDATION:

APPROVE

BY: 
Tina Grande

County Executive Office Signature

FORM APPROVED COUNTY COUNSEL
BY: 
DAVID H.K. HUFF
DATE: 6/13/11
Departmental Concurrence

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

Prev. Agn. Ref. 3.65 of 6/8/10 | District: 1,3,4,5 | Agenda Number:

3.103

The Honorable Board of Supervisors

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

June 16, 2011

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 (PRC2773.1(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 \$994,000.00 to \$994,625.00. The actual reclamation cost for each mining site or borrow pit is shown on Attachment A. Resolution 2011-163 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, Resolution 2009-184 and Resolution 2010-157. There is no current fiscal year cost associated with the future reclamation. A future expense would be incurred at the point the 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

2
3 **RESOLUTION NO. 2011-163**
4 **AMENDING 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
24
25

FOR APPROVED COUNTY COUNSEL
BY: *[Signature]* 6/3/2011
DATE
DAVID H.K. HUFF

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 established by Resolution No. 97-261 was
10 increased by Resolution No. 2010-157 on June 8, 2010 to reflect adjustments to
11 account for new lands disturbed, inflation and for reclamation of lands accomplished in
12 accordance with the approved reclamation plan; and

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

16
17
18 **NOW THEREFORE, BE IT RESOLVED, FOUND, DETERMINED AND**
19 **ORDERED** by the Board of Supervisors of the County of Riverside, State of California,
20 in regular session assembled on _____, 2011, that:

- 21
22 1. Section 1 of Resolution No. 97-261 is hereby amended to read:
23 Road Fund revenue, located in an account known as Transportation
24 Department Fund 20000, Department ID 3130100000 in the amount of
25 \$994,625.00 is hereby pledged to reclaim each mine site identified in

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Attachment A, dated May 25, 2011, which is incorporated herein by this reference.

2. Attachment A to Resolution No 97-261 is hereby replaced by said Attachment A, dated May 25, 2011, which is attached and incorporated herein by this reference.

ATTACHMENT A

**County Mining Sites
Transportation Department
May 25, 2011**

Name	California Mine I.D Number	Reclamation Cost Estimates
Bradshaw Pit	91-33-0046	\$55,125.00
Brookside Materials Yard	91-33-0094	\$318,500.00
Bundy Canyon Pit	91-33-0049	\$108,250.00
East Benton Pit	91-33-0052	\$38,250.00
Juniper Flats Pit	91-33-0053	\$77,750.00
Little Lake Pit	91-33-0055	\$53,500.00
Markham Pit	91-33-0054	\$132,250.00
Midland Pit	91-33-0051	\$84,000.00
Mountain View Pit	91-33-0048	\$34,250.00
Terwilliger Pit	91-33-0047	\$37,500.00
Thermal Pit	91-33-0090	<u>\$55,250.00</u>
	TOTAL	\$994,625.00

ATTACHMENT A

Bradshaw Material Site Financial Assurance Calculations for Reclamation
California Mine I.D Number 91-33-0046
5/25/2011

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	195.02	65.13	260.15
Water Truck w/driver	67.19	51.58	118.78
CAT 120G Grader w/operator	121.66	65.46	187.12
5-axle Low Bed Truck & Trailer w/driver	84.59	51.58	136.18
Foreman		100.00	100.00
Laborer		47.36	47.36
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	260.15	9	2,341			
Motor Grader w/operator	1	ea	187.12	9	1,684			
Low Bed Truck w/driver	1	ea	131.06	8	1,049			
Water Truck w/driver	1	ea	118.78	9	1,069			
Task 1 Total				35	6,143	say		6,100

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 ---->>>>>> 48

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs	Total			
Foreman	1	ea	100.00	8	800			
Laborer	2	ea	47.36	20	1,895			
Water Truck w/driver	1	ea	118.78	20	2,376			
Seed mix application	435,600	sf	0.04	na	17,424			
Task 4 Total	0			48	22,494	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		
Report Preparation	4	years	120.00	24	11,520		
Task 5 Total					11,520	say	11,500

SUBTOTAL 40,100

Bond Amount

Subtotal 40,100

Supervision (5%) 2,005

Mobilization & Demobilization (lump sum) 5,000

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

Contingency (10%) 4,010

Lead Agency Administrative Cost (10%) 4,010

Total Bond Amount 55,125

ATTACHMENT A

Brookside Material Site Financial Assurance Calculations for Reclamation
California Mine I.D Number 91-33-0094
5/25/2011

This cost estimate is based on the following assumptions:

- 1) The maximum amount of disturbance (acres) = **29.81**
- 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	195.02	65.13	260.15
963 Loader w/operator	106.10	65.13	171.23
Water Truck w/driver	67.19	51.58	118.78
Low Bed Truck w/driver	84.59	46.47	131.06
3-axle End Dump Truck w/driver	67.19	51.58	118.78
Truck mounted crane w/operator	73.69	65.13	138.83
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	260.15	343	89,102		
Water Truck w/driver	1	ea	118.78	171	20,340		
Task 1 Total					109,442	say	109,400

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	100.00	40	4,000		
Laborer	2	ea	47.36	40	3,789		
966 Loader w/operator	1	ea	171.23	40	6,849		
Truck mounted crane w/operator	1	ea	138.83	40	5,553		
Low Bed Truck w/driver	0	ea	131.06	24	0		
3-axle End Dump Truck w/driver	1	ea	118.78	24	2,851		
Task 3 Total					23,042	say	23,000

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	100.00	24	2,400		
Laborer	2	ea	47.36	40	3,789		
Water Truck w/driver	1	ea	118.78	24	2,851		
Seed mix application	1,298,524	sf	0.04	na	51,941		
Task 4 Total					60,981	say	61,000

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 250,800

Bond Amount

Subtotal 250,800

Supervision (5%) 12,540

Mobilization & Demobilization (lump sum) 5,000

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

Contingency (10%) 25,080

Lead Agency Administrative Cost (10%) 25,080

Total Bond Amount 318,500

ATTACHMENT A

Bundy Canyon Material Site Financial Assurance Calculations for Reclamation
California Mine I.D Number 91-33-0049
5/25/2011

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	195.02	65.13	260.15
Water Truck w/operator	67.19	51.58	118.78
Motor Grader w/operator	121.66	65.46	187.12
Low Bed Truck w/driver	84.59	46.47	131.06
Foreman		100.00	100.00
Laborer		47.36	47.36
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

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs	Total			
D-8R Dozer w/operator	1	ea	260.15	18	4,683			
Motor Grader w/operator	1	ea	187.12	18	3,368			
Low Bed Truck w/driver	1	ea	131.06	4	524			
Water Truck w/operator	1	ea	118.78	18	2,138			
Task 1 Total				58	10,713	say	10,700	

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 ----->>>>>> 22

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs	Total			
Foreman	1	ea	100.00	4	400			
Laborer	2	ea	47.36	9	853			
Water Truck w/operator	1	ea	118.78	9	1,069			
Seed mix application	1,452,000	sf	0.04	na	58,080			
Task 4 Total	0			22	60,402	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.

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

SUBTOTAL 82,600

Bond Amount

Subtotal	82,600
Supervision (5%)	4,130
Mobilization & Demobilization (lump sum)	5,000
Profit & Overhead (included in Hrly rates for Labor & Equipment)	
Contingency (10%)	8,260
Lead Agency Administrative Cost (10%)	8,260
Total Bond Amount	<u>108,250</u>

ATTACHMENT A

East Benton Material Site Financial Assurance Calculations for Reclamation
California Mine I.D Number 91-33-0052
5/25/2011

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 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	195.02	65.13	260.15
Water Truck w/driver	67.19	51.58	118.78
Motor Grader w/operator	121.66	65.46	187.12
Low Bed Truck w/driver	84.59	46.47	131.06
Foreman		100.00	100.00
Laborer		47.36	47.36
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

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs				
D-8R Dozer w/operator	1	ea	260.15	9		2,341		
Motor Grader w/operator	1	ea	187.12	9		1,684		
Low Bed Truck w/driver	1	ea	131.06	4		524		
Water Truck w/driver	1	ea	118.78	9		1,069		
Task 1 Total				31		5,619	say	5,600

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	100.00	8		800		
Laborer	2	ea	47.36	8		758		
Water Truck w/driver	1	ea	118.78	8		950		
Seed mix application	174,240	sf	0.04	na		6,970		
Task 4 Total				24		9,478	say	9,500

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		
Report Preparation	4	years	120.00	24	11,520		
Task 5 Total					11,520	say	11,500

SUBTOTAL 26,600

Bond Amount

Subtotal 26,600

Supervision (5%) 1,330

Mobilization & Demobilization (lump sum) 5,000

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

Contingency (10%) 2,660

Lead Agency Administrative Cost (10%) 2,660

Total Bond Amount 38,250

ATTACHMENT A

**Juniper Material Site Financial Assurance Calculations for Reclamation
California Mine I.D Number 91-33-0053
5/25/2011**

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	195.02	65.13	260.15
Water Truck w/driver	67.19	51.58	118.78
Motor Grader w/operator	121.66	65.46	187.12
Low Bed Truck w/driver	84.59	46.47	131.06
Foreman		100.00	100.00
Laborer		47.36	47.36
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	260.15	20	5,203			
Motor Grader w/operator	1	ea	187.12	10	1,871			
Low Bed Truck w/driver	1	ea	131.06	8	1,049			
Water Truck w/driver	1	ea	118.78	10	1,188			
Task 1 Total				48	9,310	say	9,300	

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	100.00	8	800			
Laborer	2	ea	47.36	8	758			
Water Truck w/driver	1	ea	118.78	8	950			
Seed mix application	871,200	sf	0.04	na	34,848			
Task 4 Total	0			24	37,356	say	37,400	

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.

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

SUBTOTAL 58,200

Bond Amount

Subtotal 58,200

Supervision (5%) 2,910

Mobilization & Demobilization (lump sum) 5,000

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

Contingency (10%) 5,820

Lead Agency Administrative Cost (10%) 5,820

Total Bond Amount 77,750

ATTACHMENT A

Little Lake Material Site Financial Assurance Calculations for Reclamation
California Mine I.D Number 91-33-0055
5/25/2011

This cost estimate is based on the following assumptions:

- 1) The maximum amount of disturbance (acres) = 5
- 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	195.02	65.13	260.15
Water Truck w/driver	67.19	51.58	118.78
Motor Grader w/operator	121.66	65.46	187.12
Low Bed Truck w/driver	84.59	46.47	131.06
Foreman		100.00	100.00
Laborer		47.36	47.36
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—>>>>>> 79

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs	Total			
D-8R Dozer w/operator	1	ea	260.15	25	6,504			
Motor Grader w/operator	1	ea	187.12	25	4,678			
Low Bed Truck w/driver	1	ea	131.06	4	524			
Water Truck w/driver	1	ea	118.78	25	2,969			
Task 1 Total				79	14,675	say		14,700

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 ---->>>>> 37

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs	Total			
Foreman	1	ea	100.00	4	400			
Laborer	2	ea	47.36	18	1,705			
Water Truck w/driver	1	ea	118.78	15	1,782			
Seed mix application	217,800	sf	0.04	na	8,712			
Task 4 Total	0			37	12,599	say		12,600

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 38,800

Bond Amount

Subtotal 38,800

Supervision (5%) 1,940

Mobilization & Demobilization (lump sum) 5,000

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

Contingency (10%) 3,880

Lead Agency Administrative Cost (10%) 3,880

Total Bond Amount 53,500

ATTACHMENT A

**Markham Material Site Financial Assurance Calculations for Reclamation
California Mine I.D Number 91-33-0054
5/25/2011**

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	195.02	65.13	260.15
Water Truck w/driver	67.19	51.58	118.78
Motor Grader w/operator	121.66	65.46	187.12
Low Bed Truck w/driver	84.59	46.47	131.06
Foreman		100.00	100.00
Laborer		47.36	47.36
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---->>>>>> 233

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs	Total			
D-8R Dozer w/operator	2	ea	260.15	120	31,218			
Motor Grader w/operator	1	ea	187.12	40	7,485			
Low Bed Truck w/driver	1	ea	131.06	8	1,049			
Water Truck w/driver	1	ea	118.78	65	7,720			
Task 1 Total				233	47,472	say		47,500

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	100.00	24	2,400			
Laborer	2	ea	47.36	36	3,410			
Water Truck w/driver	1	ea	118.78	24	2,851			
Seed mix application	514,000	sf	0.04	na	20,560			
Task 4 Total				84	29,221	say		29,200

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		
Task 5 Total					11,520	say	11,500

SUBTOTAL 101,800

Bond Amount

Subtotal 101,800

Supervision (5%) 5,090

Mobilization & Demobilization (lump sum) 5,000

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

Contingency (10%) 10,180

Lead Agency Administrative Cost (10%) 10,180

Total Bond Amount 132,250

ATTACHMENT A

Midland Material Site Financial Assurance Calculations for Reclamation
California Mine I.D Number 91-33-0051
5/25/2011

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	195.02	65.13	260.15
Water Truck w/driver	67.19	51.58	118.78
Motor Grader w/operator	121.66	65.46	187.12
Low Bed Truck w/driver	84.59	46.47	131.06
Foreman		100.00	100.00
Laborer		47.36	47.36
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

	Qty	Unit	Rate	No. Man		Total	
				Hrs	Total		
Labor & Equipment							
D-8R Dozer w/operator	1	ea	260.15	27	7,024		
Motor Grader w/operator	1	ea	187.12	9	1,684		
Low Bed Truck w/driver	1	ea	131.06	8	1,049		
Water Truck w/driver	1	ea	118.78	27	3,207		
Task 1 Total				71	12,964	say	13,000

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 ----->>>>>> 24

	Qty	Unit	Rate	No. Man		Total	
				Hrs	Total		
Labor & Equipment							
Foreman	1	ea	100.00	8	800		
Laborer	2	ea	47.36	8	758		
Water Truck w/driver	1	ea	118.78	8	950		
Seed mix application	906,048	sf	0.04	na	36,242		
Task 4 Total				24	38,750	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.

	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 63,200

Bond Amount

Subtotal 63,200

Supervision (5%) 3,160

Mobilization & Demobilization (lump sum) 5,000

Profit & Overhead (included In Hrly rates for Labor & Equipment)

Contingency (10%) 6,320

Lead Agency Administrative Cost (10%) 6,320

Total Bond Amount 84,000

ATTACHMENT A

**Mountain View Road Material Site Financial Assurance Calculations for Reclamation
California Mine I.D Number 91-33-0048
5/25/2011**

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	195.02	65.13	260.15
Water Truck w/driver	67.19	51.58	118.78
Motor Grader w/operator	121.66	65.46	187.12
Low Bed Truck w/driver	84.59	46.47	131.06
Foreman		100.00	100.00
Laborer		47.36	47.36
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

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs	Total			
D-8R Dozer w/operator	1	ea	260.15	9	2,341			
Motor Grader w/operator	1	ea	187.12	9	1,684			
Low Bed Truck w/driver	1	ea	131.06	4	524			
Water Truck w/driver	1	ea	118.78	9	1,069			
Task 1 Total				31	5,619	say	5,600	

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	100.00	2	200			
Laborer	2	ea	47.36	4	379			
Water Truck w/driver	1	ea	118.78	4	475			
Seed mix application	130,680	sf	0.04	na	5,227			
Task 4 Total				10	6,281	say	6,300	

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		
Task 5 Total					11,520	say	11,500

SUBTOTAL 23,400

Bond Amount

Subtotal	23,400
Supervision (5%)	1,170
Mobilization & Demobilization (lump sum)	5,000
Profit & Overhead (included in Hrly rates for Labor & Equipment)	
Contingency (10%)	2,340
Lead Agency Administrative Cost (10%)	2,340
Total Bond Amount	<u>34,250</u>

ATTACHMENT A

**Terwilliger Road Material Site Financial Assurance Calculations for Reclamation
California Mine I.D Number 91-33-0047
5/25/2011**

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	195.02	65.13	260.15
Water Truck w/driver	67.19	51.58	118.78
Motor Grader w/operator	121.66	65.46	187.12
Low Bed Truck w/driver	84.59	46.47	131.06
Foreman		100.00	100.00
Laborer		47.36	47.36
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	Total			
D-8R Dozer w/operator	1	ea	260.15	9	2,341			
Motor Grader w/operator	1	ea	187.12	4	748			
Low Bed Truck w/driver	1	ea	131.06	4	524			
Water Truck w/driver	1	ea	118.78	9	1,069			
Task 1 Total				26	4,683	say		4,700

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	100.00	2	200			
Laborer	2	ea	47.36	4	379			
Water Truck w/driver	1	ea	118.78	4	475			
Seed mix application	217,800	sf	0.04	na	8,712			
Task 4 Total	0			10	9,766	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		
Report Preparation	4	years	120.00	24	11,520		
Task 5 Total					11,520	say	11,500

SUBTOTAL 26,000

Bond Amount

Subtotal 26,000

Supervision (5%) 1,300

Mobilization & Demobilization (lump sum) 5,000

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

Contingency (10%) 2,600

Lead Agency Administrative Cost (10%) 2,600

Total Bond Amount 37,500

ATTACHMENT A

New Thermal Canyon Material Site Financial Assurance Calculations for Reclamation
California Mine I.D Number 91-33-0090
5/25/2011

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	195.02	65.13	260.15
Water Truck w/driver	67.19	51.58	118.78
Motor Grader w/operator	121.66	65.46	187.12
Low Bed Truck w/driver	84.59	46.47	131.06
Foreman		100.00	100.00
Laborer		47.36	47.36
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	260.15	27	7,024		
Motor Grader w/operator	1	ea	187.12	18	3,368		
Low Bed Truck w/driver	1	ea	131.06	8	1,049		
Water Truck w/driver	1	ea	118.78	27	3,207		
Task 1 Total				80	14,648	say	14,600

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	100.00	8	800		
Laborer	2	ea	47.36	8	758		
Water Truck w/driver	1	ea	118.78	8	950		
Seed mix application	290,400	sf	0.04	na	11,616		
Task 4 Total	0			24	14,124	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 11,500

SUBTOTAL 40,200

Bond Amount

Subtotal 40,200

Supervision (5%) 2,010

Mobilization & Demobilization (lump sum) 5,000

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

Contingency (10%) 4,020

Lead Agency Administrative Cost (10%) 4,020

Total Bond Amount 55,250