

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

302 A



FROM: TLMA - Transportation Department

SUBMITTAL DATE:
June 7, 2012

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

RECOMMENDED MOTION: That the Board of Supervisors approve Resolution 2012-142, 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 & Land Management

JCP:dkd

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:	2012/2013

SOURCE OF FUNDS: Road Funds (100%)	Positions To Be Deleted Per A-30	<input type="checkbox"/>
There are no General Funds used in this project.	Requires 4/5 Vote	<input type="checkbox"/>

C.E.O. RECOMMENDATION:

APPROVE

BY: Tina Grande

County Executive Office Signature

FORM APPROVED COUNTY COUNSEL
BY:
MICHHELLE CLACK
DATE: 6/12/12
Departmental Concurrence

Dep't Recomm.: Policy Consent
Per Exec. Ofc.: Policy Consent

Prev. Agn. Ref. 3.103 of 6/28/11 | **District:** 1/1, 3/3, 4/4 & 5/5 | **Agenda Number:**

3.35

The Honorable Board of Supervisors

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

June 7, 2012

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 \$994,625.00 to \$1,021,625.00. The actual reclamation cost for each mining site or borrow pit is shown on Attachment A. Resolution 2012-142 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, Resolution 2010-157 and Resolution 2011-163. 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

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RESOLUTION NO. 2012-142
AMENDING RESOLUTION NO. 97-261
ESTABLISHING A PLEDGE OF REVENUE
FOR RECLAMATION OF COUNTY MINED LANDS

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

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

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

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

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

FORM APPROVED COUNTY COUNSEL
BY:  DATE 9/13/12
MICHELLE CLACK

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 established by Resolution No. 97-261 was
14 increased by Resolution No. 2011-163 on June 28, 2011 to reflect adjustments to
15 account for new lands disturbed, inflation and for reclamation of lands accomplished in
16 accordance with the approved reclamation plan; and

17 **WHEREAS**, the pledge of revenue needs to be modified to reflect annual
18 adjustments to account for new lands disturbed, inflation and for reclamation of lands
19 accomplished in accordance with the approved reclamation plan.
20

21 **NOW THEREFORE, BE IT RESOLVED, FOUND, DETERMINED AND**
22 **ORDERED** by the Board of Supervisors of the County of Riverside, State of California,
23 in regular session assembled on _____, 2012, that:
24

- 25 1. Section 1 of Resolution No. 97-261 is hereby amended to read:

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Road Fund revenue, located in an account known as Transportation Department Fund 20000, Department ID 3130100000 in the amount of \$1,021,625.00 is hereby pledged to reclaim each mine site identified in Attachment A, dated May 24, 2012, which is incorporated herein by this reference.

2. Attachment A to Resolution No 97-261 is hereby replaced by said Attachment A, dated May 24, 2012, which is attached and incorporated herein by this reference.

ATTACHMENT A

**County Mining Sites
Transportation Department
May 24, 2012**

Name	California Mine I.D Number	Reclamation Cost Estimates
Bradshaw Pit	91-33-0046	\$56,125.00
Brookside Materials Yard	91-33-0094	\$334,875.00
Bundy Canyon Pit	91-33-0049	\$108,750.00
East Benton Pit	91-33-0052	\$38,625.00
Juniper Flats Pit	91-33-0053	\$78,375.00
Little Lake Pit	91-33-0055	\$54,250.00
Markham Pit	91-33-0054	\$136,250.00
Midland Pit	91-33-0051	\$85,500.00
Mountain View Pit	91-33-0048	\$34,500.00
Terwilliger Pit	91-33-0047	\$38,000.00
Thermal Pit	91-33-0090	<u>\$56,375.00</u>
	TOTAL	\$1,021,625.00

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	212.22	68.03	280.25
Water Truck w/driver	86.55	55.29	141.84
CAT 120G Grader w/operator	78.68	67.77	146.45
5-axle Low Bed Truck & Trailer w/driver	96.03	55.32	151.35
Foreman		100.00	100.00
Laborer		50.49	50.49
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

	Qty	Unit	Rate	No. Man		Total		
				Hrs				
Labor & Equipment								
D-8R Dozer w/operator	1	ea	280.25	9		2,522		
Motor Grader w/operator	1	ea	146.71	9		1,320		
Low Bed Truck w/driver	1	ea	142.66	8		1,141		
Water Truck w/driver	1	ea	141.84	9		1,277		
Task 1 Total				35		6,260	say	6,300

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 ----->>>>>>> 48

	Qty	Unit	Rate	No. Man		Total		
				Hrs				
Labor & Equipment								
Foreman	1	ea	100.00	8		800		
Laborer	2	ea	50.49	20		2,020		
Water Truck w/driver	1	ea	141.84	20		2,837		
Seed mix application	435,600	sf	0.04	na		17,424		
Task 4 Total	0			48		23,080	say	23,100

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.

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

SUBTOTAL 40,900

Bond Amount

Subtotal 40,900

Supervision (5%) 2,045

Mobilization & Demobilization (lump sum) 5,000

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

Contingency (10%) 4,090

Lead Agency Administrative Cost (10%) 4,090

Total Bond Amount 56,125

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	212.22	68.03	280.25
963 Loader w/operator	114.49	67.77	182.26
Water Truck w/driver	86.55	55.29	141.84
Low Bed Truck w/driver	86.55	56.12	142.66
3-axle End Dump Truck w/driver	76.39	55.04	131.44
Truck mounted crane w/operator	80.42	66.31	146.73
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	280.25	343	95,985		
Water Truck w/driver	1	ea	141.84	171	24,290		
Task 1 Total					120,275	say	120,300

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	100.00	40	4,000		
Laborer	2	ea	50.49	40	4,039		
966 Loader w/operator	1	ea	182.26	40	7,290		
Truck mounted crane w/operator	1	ea	146.73	40	5,869		
Low Bed Truck w/driver	0	ea	142.66	24	0		
3-axle End Dump Truck w/driver	1	ea	131.44	24	3,154		
Task 3 Total					24,353	say	24,400

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	50.49	40	4,039		
Water Truck w/driver	1	ea	141.84	24	3,404		
Seed mix application	1,298,524	sf	0.04	na	51,941		
Task 4 Total					61,784	say	61,800

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 **263,900**

Bond Amount

Subtotal **263,900**

Supervision (5%) **13,195**

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

Profit & Overhead (included in Hrly rates for Labor & Equipment) **26,390**

Contingency (10%) **26,390**

Lead Agency Administrative Cost (10%) **26,390**

Total Bond Amount **334,875**

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	212.22	68.03	280.25
Water Truck w/operator	86.55	55.29	141.84
Motor Grader w/operator	78.68	68.03	146.71
Low Bed Truck w/driver	86.55	56.12	142.66
Foreman		100.00	100.00
Laborer		50.49	50.49
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				
D-8R Dozer w/operator	1	ea	280.25	18		5,044		
Motor Grader w/operator	1	ea	146.71	18		2,641		
Low Bed Truck w/driver	1	ea	142.66	4		571		
Water Truck w/operator	1	ea	141.84	18		2,553		
Task 1 Total				58		10,809	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

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs				
Foreman	1	ea	100.00	4		400		
Laborer	2	ea	50.49	9		909		
Water Truck w/operator	1	ea	141.84	9		1,277		
Seed mix application	1,452,000	sf	0.04	na		58,080		
Task 4 Total	0			22		60,665	say	60,700

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 83,000

Bond Amount

Subtotal	83,000
Supervision (5%)	4,150
Mobilization & Demobilization (lump sum)	5,000
Profit & Overhead (included in Hrlly rates for Labor & Equipment)	
Contingency (10%)	8,300
Lead Agency Administrative Cost (10%)	8,300
Total Bond Amount	<u>108,750</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	212.22	68.03	280.25
Water Truck w/driver	86.55	55.29	141.84
Motor Grader w/operator	78.68	68.03	146.71
Low Bed Truck w/driver	86.55	56.12	142.66
Foreman		100.00	100.00
Laborer		50.49	50.49
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	280.25	9	2,522			
Motor Grader w/operator	1	ea	146.71	9	1,320			
Low Bed Truck w/driver	1	ea	142.66	4	571			
Water Truck w/driver	1	ea	141.84	9	1,277			
Task 1 Total				31	5,690	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

	Qty	Unit	Rate	No. Man		Total		
				Hrs	Total			
Labor & Equipment								
Foreman	1	ea	100.00	8	800			
Laborer	2	ea	50.49	8	808			
Water Truck w/driver	1	ea	141.84	8	1,135			
Seed mix application	174,240	sf	0.04	na	6,970			
Task 4 Total				24	9,712	say	9,700	

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 26,900

Bond Amount

Subtotal 26,900

Supervision (5%) 1,345

Mobilization & Demobilization (lump sum) 5,000

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

Contingency (10%) 2,690

Lead Agency Administrative Cost (10%) 2,690

Total Bond Amount 38,625

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	212.22	68.03	280.25
Water Truck w/driver	86.55	55.29	141.84
Motor Grader w/operator	78.68	68.03	146.71
Low Bed Truck w/driver	86.55	56.12	142.66
Foreman		100.00	100.00
Laborer		50.49	50.49
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				
D-8R Dozer w/operator	1	ea	280.25	20		5,605		
Motor Grader w/operator	1	ea	146.71	10		1,467		
Low Bed Truck w/driver	1	ea	142.66	8		1,141		
Water Truck w/driver	1	ea	141.84	10		1,418		
Task 1 Total				48		9,632	say	9,600

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	50.49	8		808		
Water Truck w/driver	1	ea	141.84	8		1,135		
Seed mix application	871,200	sf	0.04	na		34,848		
Task 4 Total	0			24		37,591	say	37,600

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 58,700

Bond Amount

Subtotal 58,700

Supervision (5%) 2,935

Mobilization & Demobilization (lump sum) 5,000

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

Contingency (10%) 5,870

Lead Agency Administrative Cost (10%) 5,870

Total Bond Amount 78,375

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	212.22	68.03	280.25
Water Truck w/driver	86.55	55.29	141.84
Motor Grader w/operator	78.68	68.03	146.71
Low Bed Truck w/driver	86.55	56.12	142.66
Foreman		100.00	100.00
Laborer		50.49	50.49
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	280.25	25	7,006			
Motor Grader w/operator	1	ea	146.71	25	3,668			
Low Bed Truck w/driver	1	ea	142.66	4	571			
Water Truck w/driver	1	ea	141.84	25	3,546			
Task 1 Total				79	14,791	say	14,800	

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 ---->>>>>> 37

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs	Total			
Foreman	1	ea	100.00	4	400			
Laborer	2	ea	50.49	18	1,818			
Water Truck w/driver	1	ea	141.84	15	2,128			
Seed mix application	217,800	sf	0.04	na	8,712			
Task 4 Total	0			37	13,057	say	13,100	

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 39,400

Bond Amount

Subtotal	39,400
Supervision (5%)	1,970
Mobilization & Demobilization (lump sum)	5,000
Profit & Overhead (included in Hrly rates for Labor & Equipment)	
Contingency (10%)	3,940
Lead Agency Administrative Cost (10%)	3,940
Total Bond Amount	<u>54,250</u>

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	212.22	68.03	280.25
Water Truck w/driver	86.55	55.29	141.84
Motor Grader w/operator	78.68	68.03	146.71
Low Bed Truck w/driver	86.55	56.12	142.66
Foreman		100.00	100.00
Laborer		50.49	50.49
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	280.25	120	33,630			
Motor Grader w/operator	1	ea	146.71	40	5,868			
Low Bed Truck w/driver	1	ea	142.66	8	1,141			
Water Truck w/driver	1	ea	141.84	65	9,220			
Task 1 Total				233	49,859		say	49,900

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	100.00	24	2,400			
Laborer	2	ea	50.49	36	3,635			
Water Truck w/driver	1	ea	141.84	24	3,404			
Seed mix application	514,008	sf	0.04	na	20,560			
Task 4 Total				84	30,000		say	30,000
	0							

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 105,000

Bond Amount

Subtotal 105,000

Supervision (5%) 5,250

Mobilization & Demobilization (lump sum) 5,000

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

Contingency (10%) 10,500

Lead Agency Administrative Cost (10%) 10,500

Total Bond Amount 136,250

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	212.22	68.03	280.25
Water Truck w/driver	86.55	55.29	141.84
Motor Grader w/operator	78.68	68.03	146.71
Low Bed Truck w/driver	86.55	56.12	142.66
Foreman		100.00	100.00
Laborer		50.49	50.49
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	280.25	27	7,567			
Motor Grader w/operator	1	ea	146.71	9	1,320			
Low Bed Truck w/driver	1	ea	142.66	8	1,141			
Water Truck w/driver	1	ea	141.84	27	3,830			
Task 1 Total				71	13,858	say	13,900	

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	50.49	8	808			
Water Truck w/driver	1	ea	141.84	8	1,135			
Seed mix application	906,048	sf	0.04	na	36,242			
Task 4 Total				24	38,984	say	39,000	

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	say	11,500
Task 5 Total					11,520		

SUBTOTAL 64,400

Bond Amount

Subtotal	64,400
Supervision (5%)	3,220
Mobilization & Demobilization (lump sum)	5,000
Profit & Overhead (included in Hrlly rates for Labor & Equipment)	
Contingency (10%)	6,440
Lead Agency Administrative Cost (10%)	6,440
Total Bond Amount	<u>85,500</u>

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		Total
	Equipment	Labor	
D-8R Dozer w/operator	212.22	68.03	280.25
Water Truck w/driver	86.55	55.29	141.84
Motor Grader w/operator	78.68	68.03	146.71
Low Bed Truck w/driver	86.55	56.12	142.66
Foreman		100.00	100.00
Laborer		50.49	50.49
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	280.25	9	2,522			
Motor Grader w/operator	1	ea	146.71	9	1,320			
Low Bed Truck w/driver	1	ea	142.66	4	571			
Water Truck w/driver	1	ea	141.84	9	1,277			
Task 1 Total				31	5,690		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	100.00	2	200			
Laborer	2	ea	50.49	4	404			
Water Truck w/driver	1	ea	141.84	4	567			
Seed mix application	130,680	sf	0.04	na	5,227			
Task 4 Total				10	6,398		say	6,400

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

SUBTOTAL 23,600

Bond Amount

Subtotal 23,600

Supervision (5%) 1,180

Mobilization & Demobilization (lump sum) 5,000

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

Contingency (10%) 2,360

Lead Agency Administrative Cost (10%) 2,360

Total Bond Amount 34,500

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	212.22	68.03	280.25
Water Truck w/driver	86.55	55.29	141.84
Motor Grader w/operator	78.68	68.03	146.71
Low Bed Truck w/driver	86.55	56.12	142.66
Foreman		100.00	100.00
Laborer		50.49	50.49
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	280.25	9	2,522		
Motor Grader w/operator	1	ea	146.71	4	587		
Low Bed Truck w/driver	1	ea	142.66	4	571		
Water Truck w/driver	1	ea	141.84	9	1,277		
Task 1 Total				26	4,956		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	Total		
Foreman	1	ea	100.00	2	200		
Laborer	2	ea	50.49	4	404		
Water Truck w/driver	1	ea	141.84	4	567		
Seed mix application	217,800	sf	0.04	na	8,712		
Task 4 Total	0			10	9,883		say 9,900

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 26,400

Bond Amount

Subtotal 26,400

Supervision (5%) 1,320

Mobilization & Demobilization (lump sum) 5,000

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

Contingency (10%) 2,640

Lead Agency Administrative Cost (10%) 2,640

Total Bond Amount 38,000

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	212.22	68.03	280.25
Water Truck w/driver	86.55	55.29	141.84
Motor Grader w/operator	78.68	68.03	146.71
Low Bed Truck w/driver	86.55	56.12	142.66
Foreman		100.00	100.00
Laborer		50.49	50.49
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				
D-8R Dozer w/operator	1	ea	280.25	27		7,567		
Motor Grader w/operator	1	ea	146.71	18		2,641		
Low Bed Truck w/driver	1	ea	142.66	8		1,141		
Water Truck w/driver	1	ea	141.84	27		3,830		
Task 1 Total				80		15,178	say	15,200

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	50.49	8		808		
Water Truck w/driver	1	ea	141.84	8		1,135		
Seed mix application	290,400	sf	0.04	na		11,616		
Task 4 Total	0			24		14,359	say	14,400

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

SUBTOTAL 41,100

Bond Amount

Subtotal 41,100

Supervision (5%) 2,055

Mobilization & Demobilization (lump sum) 5,000

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

Contingency (10%) 4,110

Lead Agency Administrative Cost (10%) 4,110

Total Bond Amount 56,375