

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

109  
A



**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

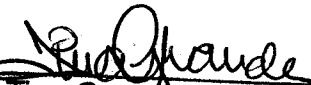
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(Continued On Attached Page)

<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:	2011/2012

<b>SOURCE OF FUNDS:</b> Road Funds (100%)  There are no General Funds used in this project.	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


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

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

**MINUTES OF THE BOARD OF SUPERVISORS**

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

Ayes: Buster, Tavaglione, Stone, Benoit and Ashley  
 Nays: None  
 Absent: None  
 Date: June 28, 2011  
 xc: Transp.

Kecia Harper-Ihem  
 Clerk of the Board  
 By:   
 Deputy

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

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FORM APPROVED COUNTY COUNSEL  
 BY DAVID H.K. HUFF DATE 6/3/2011

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         June 28        , 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.

**ROLL CALL:**

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

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  
May 25, 2011**

<b>Name</b>	<b>California Mine I.D Number</b>	<b>Reclamation Cost Estimates</b>
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	\$55,250.00
	<b>TOTAL</b>	<b>\$994,625.00</b>

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		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		
Task 5 Total					11,520		

**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) = ██████████
- 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		Total
	Equipment	Labor	
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	
<b>Task 1 Total</b>					<b>109,442</b>	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	
<b>Task 2 Total</b>					<b>48,775</b>	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	
<b>Task 3 Total</b>					<b>23,042</b>	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	298.22	sf	0.04	na	51,941		
<b>Task 4 Total</b>					<b>60,981</b>	say	<b>61,000</b>

**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		
<b>Task 5 Total</b>					<b>8,640</b>	say	<b>8,600</b>

**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) = ██████████
- 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		
<b>Task 1 Total</b>				<b>58</b>	<b>10,713</b>		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	<span style="background-color: black; color: black;">██████████</span>	sf	0.04	na	58,080		
<b>Task 4 Total</b>	<b>0</b>			<b>22</b>	<b>60,402</b>		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	
Report Preparation	4	years	120.00	24	11,520	
<b>Task 5 Total</b>					<b>11,520</b>	say <u>11,500</u>

**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 108,250**

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) = [REDACTED]
- 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	1	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**

<b>Subtotal</b>	<b>26,600</b>
<b>Supervision (5%)</b>	<b>1,330</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>2,660</b>
<b>Lead Agency Administrative Cost (10%)</b>	<b>2,660</b>
<b>Total Bond Amount</b>	<b><u>38,250</u></b>

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) = 0
- 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

	Qty	Unit	No. Man		Total		
			Rate	Hrs			
Labor & Equipment							
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

	Qty	Unit	No. Man		Total		
			Rate	Hrs			
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		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.

	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 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) = [REDACTED]
- 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

	Qty	Unit	Rate	No. Man		Total	
				Hrs	Total		
Labor & Equipment							
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

	Qty	Unit	Rate	No. Man		Total	
				Hrs	Total		
Labor & Equipment							
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	300	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.

	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 38,800**

**Bond Amount**

**Subtotal 38,800**

**Supervision (5%) 1,940**

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

**Profit & Overhead (included in Hrly 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) = [REDACTED]
- 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			
<b>Task 1 Total</b>				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			
<b>Task 2 Total</b>					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		sf	0.04	na	20,560			
<b>Task 4 Total</b>	0			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		
Report Preparation	4	years	120.00	24	11,520		
<b>Task 5 Total</b>					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) = [REDACTED]
- 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

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	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		
<b>Task 1 Total</b>				<b>71</b>	<b>12,964</b>		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

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	[REDACTED]	sf	0.04	na	36,242		
<b>Task 4 Total</b>				<b>24</b>	<b>38,750</b>		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	
<b>Task 5 Total</b>					<b>11,520</b>	say 11,500

**SUBTOTAL 63,200**

**Bond Amount**

<b>Subtotal</b>	<b>63,200</b>
<b>Supervision (5%)</b>	<b>3,160</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>6,320</b>
<b>Lead Agency Administrative Cost (10%)</b>	<b>6,320</b>
<b>Total Bond Amount</b>	<b><u>84,000</u></b>

**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) = [REDACTED]
- 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		
<b>Task 1 Total</b>				<b>31</b>	<b>5,619</b>		<b>say 5,600</b>

**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		sf	0.04	na	5,227		
<b>Task 4 Total</b>				<b>10</b>	<b>6,281</b>		<b>say 6,300</b>

**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	
<b>Task 5 Total</b>					<b>11,520</b>	<b>say 11,500</b>

**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 34,250**



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) = ██████████
- 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		
<b>Task 1 Total</b>				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		sf	0.04	na	8,712		
<b>Task 4 Total</b>	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	
<b>Task 5 Total</b>					11,520	say <u>11,500</u>

**SUBTOTAL 26,000**

**Bond Amount**

**Subtotal 26,000**

**Supervision (5%) 1,300**

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

**Profit & Overhead (included in Hrlly 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		
<b>Task 1 Total</b>				<b>80</b>	<b>14,648</b>	<b>say</b>	<b>14,600</b>

**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		sf	0.04	na	11,616		
<b>Task 4 Total</b>	<b>0</b>			<b>24</b>	<b>14,124</b>	<b>say</b>	<b>14,100</b>

**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	
<b>Task 5 Total</b>					<b>11,520</b>	<b>say 11,500</b>

**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**