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

ITEM: 3.39
(ID # 12757)
MEETING DATE:
Tuesday, June 30, 2020

FROM : TLMA-TRANSPORTATION:

SUBJECT: TRANSPORTATION AND LAND MANAGEMENT AGENCY/TRANSPORTATION: Resolution No. 2020-159, Modification to Financial Assurance Mechanism Required by the Surface Mining and Reclamation Act. FY 2019/20. Districts 1, 3, 4 and 5. [$49,007 Total Cost - Local Funds 100%]

RECOMMENDED MOTION:

1. Adopt Resolution No. 2020-159, which amends Resolution No. 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 Surface Mining Operations.

ACTION:Policy

Patricia Romo, Director of Transportation 6/18/2020

MINUTES OF THE BOARD OF SUPERVISORS

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

Ayes:	Jeffries, Spiegel, Washington, Perez and Hewitt
Nays:	None
Absent:	None
Date:	June 30, 2020
xc:	Transportation

Kecia R. Harper
Clerk of the Board
By: _____
Deputy

FINANCIAL DATA	Current Fiscal Year:	Next Fiscal Year:	Total Cost:	Ongoing Cost
COST	$ 49,006.75	$ 0	$ 49,006.75	$ 0
NET COUNTY COST	$ 0	$ 0	$ 0	$ 0

SOURCE OF FUNDS: Gas Tax 100%. There are no general funds used for this project.

Budget Adjustment: No

For Fiscal Year: 19/20

C.E.O. RECOMMENDATION: Approve

BACKGROUND:

Summary

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. The Surface Mining and Reclamation Act of 1975 (SMARA) requires that the Financial Assurances be adjusted annually. The adjustments are to account for new lands disturbed, inflation, and for the reclamation of lands accomplished in accordance with an approved reclamation plan (Pub. Res. Code, § 2773.1(a)(3)).

The original Resolution 97-261 must be modified to adjust for the reclamation costs of the individual County sites, as contained in the Pledge of Revenue, from $1,596,661.00 to $1,370,554.04. The actual reclamation cost for each mining site or borrow pit is shown in Attachment A. Resolution 2020-159 supersedes any previously approved modification to Resolution No. 97-261 made by Resolution No. 98-323, Resolution No. 2003-178, Resolution No. 2006-118, Resolution 2007-388, Resolution No. 2008-196, Resolution No. 2009-184, Resolution No. 2010-157, Resolution No. 2011-163, Resolution No. 2012-142, Resolution No. 2013-070, Resolution No. 2014-110, Resolution No. 2015-114, Resolution No. 2016-108 and Resolution No. 2017-142. The current fiscal year cost associated with the reclamation of the Terwilliger Pit and Brookside Pit is $49,006.75. Both pits are anticipated to be closed in fiscal year 20/21.

Impact on Residents and Businesses

There are no impacts on Residents or Businesses.

Additional Fiscal Information

No general funds will be used on this project.

Contract History and Price Reasonableness

N/A

ATTACHMENTS:

Resolution No. 2020-159
Attachment A

Jason Farin, Principal Management Analyst	6/24/2020	Gregory P. Priamos, Director County Counsel	6/18/2020

Board of Supervisors **County of Riverside**

RESOLUTION NO. 2020-159

AMENDING RESOLUTION 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

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

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

FORM APPROVED COUNTY COUNSEL
BY: MELISSA R. CUSHMAN DATE 6/18/2020

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

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

WHEREAS, the pledge of revenue established by Resolution No. 97-261 was increased by Resolution No. 2012-142 on June 26, 2012, to reflect adjustments to account for new lands disturbed, inflation, and for reclamation of lands accomplished in accordance with an approved reclamation plan; and

WHEREAS, the pledge of revenue established by Resolution No. 97-261 was increased by Resolution No. 2013-070 on April 9, 2013, to reflect adjustments to account for new lands disturbed, inflation, and for reclamation of lands accomplished in accordance with an approved reclamation plan; and

WHEREAS, the pledge of revenue established by Resolution No. 97-261 was increased by Resolution No. 2014-110 on June 17, 2014, to reflect adjustments to account for new lands disturbed, inflation, and for reclamation of lands accomplished in accordance with an approved reclamation plan; and

WHEREAS, the pledge of revenue established by Resolution No. 97-261 was increased by Resolution No. 2015-114 on June 2, 2015, to reflect adjustments to account for new lands disturbed, inflation, and for reclamation of lands accomplished in accordance with an approved reclamation plan; and

WHEREAS, the pledge of revenue established by Resolution No. 97-261 was increased by Resolution No. 2016-108 on May 3, 2016, to reflect adjustments to account for new lands disturbed, inflation, and for reclamation of lands accomplished in accordance with an approved reclamation plan; and

WHEREAS, the pledge of revenue established by Resolution No. 97-261 was increased by Resolution No. 2017-142 on July 25, 2017, to reflect new lands disturbed, inflation, and for reclamation of lands accomplished in accordance with an approved reclamation plan; and

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

NOW THEREFORE, BE IT RESOLVED, FOUND, DETERMINED, AND ORDERED by the Board of Supervisors of the County of Riverside, State of California, in regular session on June 30, 2020, that:

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

   Road fund revenue, located in an account known as Transportation Department Fund 20000, Department ID 3130100000 in the amount of $1,370,554.04 is hereby pledged to reclaim each mine side identified in Attachment A, dated June 2, 2020, which is incorporated herein by this reference.

2. Attachment A to Resolution No. 97-261 is hereby replaced by said Attachment A, dated June 2, 2020, which is attached and incorporated herein by this reference.

ROLL CALL:

Ayes: Jeffries, Spiegel, Washington, Perez and Hewitt
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 R. Harper, Clerk of said Board

By Priscilla Rasso
Deputy

Attachment A

County Mining Sites
Transportation Department
June 2, 2020

Name:	California Mine I.D. Number:	Reclamation Cost Estimate
Bradshaw Pit	91-33-0046	$87,907.22
Brookside Materials Pit	91-33-0094	$26,221.09
Bundy Canyon Pit	91-33-0049	$215,953.95
East Benton Pit	91-33-0052	$116,279.01
Juniper Flats Pit	91-33-0053	$228,235.82
Little Lake Pit	91-33-0055	$5,748.38
Markham Pit	91-33-0054	$166,855.51
Midland Pit	91-33-0051	$203,450.21
Mountain View Pit	91-33-0048	$75,020.62
Terwilliger Pit	91-33-0047	$22,785.66
Thermal Pit	91-33-0090	$222,096.57
	TOTAL:	**$1,370,554.04**

FINANCIAL ASSURANCE COST ESTIMATE

FOR

Bradshaw Pit
(Mine Name)

CA Mine ID #: 91- 33-0046
Reclamation Plan # / Name: RP144/ Bradshaw Pit

Prepared by:
(name and affiliation)

Eric R. Lohr
Riverside County
Transportation Department

Date: 06/02/2020

This financial assurance cost estimate prepared and submitted pursuant to *(choose one)*:

☐ A new or amended reclamation plan approved on: _____ *(date)*

☒ An annual mine inspection performed on: 10/02/2019 *(date)*

☐ Other, please specify: _____

Most recent approved financial assurance cost estimate

Date: 07/25/2017

Amount: $ 87,907.00

Amount of existing financial assurance mechanism(s)

Date: 07/25/2019

Amount: $ 87,907.00

I. SUPPORTING DOCUMENTS

This estimate represents the cost of conducting and completing reclamation in accordance with the Surface Mining and Reclamation Act (SMARA) and the following supporting documents:

Reclamation Plan Approval Date and Number:

RP144, May 08, 1995

Permits and/or Environmental Documents Approved as, or Conditioned Upon, the Reclamation Plan:

N/A

Other Agency Financial Assurances Securing Reclamation of Disturbed Lands:

N/A

Wage Rates Used in Cost Estimate*: *(cost estimates are required to use current 'General prevailing wage determinations made by the director of industrial relations' where applicable (http://www.dir.ca.gov/OPRL/PWD/index.htm) with employer labor burden added, or greater)*

Equipment Rates Used in Cost Estimate*: *(Use current 'Labor Surcharge and Equipment Rental Rates (Cost of Equipment Ownership)' equipment rates published by Caltrans (http://www.dot.ca.gov/hq/construc/equipmnt.html) or other publicly available and verifiable local rates)*

Labor rates were based on the current general prevailing wage rates issued by Caltrans Labor Surcharge and Equipment for 2019.

Equipment Production Rates used in Cost Estimate: *(Use of current Caterpillar Performance Handbook or equivalent published production rates is required)*

Equipment production rates were obtained from the Caterpillar Performance Handbook (Edition 42).

** Many mine sites are remote projects that require hours of travel (to and from) and sometimes require additional time to prepare for even the simplest of tasks. In accordance with Labor Code Sections 1773.1 and 1773.9, contractors are required to make travel and/or subsistence (per diem) payments to each worker to execute the work. These arrangements can be quite variable and site specific.*

Attachments:

N/A

II. DESCRIPTION OF CURRENT SITE CONDITIONS:

(i.e., disturbed acres, slope conditions, excavation depths, topsoil and overburden stockpiles, equipment and facilities, reclamation in progress, erosion control status, required corrective actions, etc.)

The existing amount of disturbance from the mining operations is 15 acres. All existing slopes are stable at a 2:1 inclines and no greater than 25 feet in vertical height. All drainage is confined to the mined area. No drainage courses are diverted or blocked. There is one material stockpile on the site.

III. DESCRIPTION OF ANTICIPATED SITE CONDITIONS (12 months from date of estimate):

(i.e., increase of disturbed acres, increase of depth, increases in amount of equipment and/or facilities, required corrective actions, etc.)

No increase of disturbed area or depth of mining site is anticipated over the next 12 months. Mining equipment being used is mobile, and will be transported from the site when seasonal mining activity has ceased.

IV. DESCRIPTION/JUSTIFICATION OF COST INCREASE/DECREASE:

A cost decrease in the FACE would only occur in the event that unit cost for either labor, equipment, or re-vegetation are realized.

(add additional pages as needed)

V. PLANT STRUCTURES AND EQUIPMENT REMOVAL: *(use multiple sheets as needed)*

Provide documentation showing that rates, prices, and wages are available locally to all persons, including the lead agency and/or the Department.

Current Site Condition:

The site is mined periodically throughout the year to meet the demands of County projects and maintenance of roadways, using a mobile screen plant and stacker with a front end loader. There are periods throughout the year that the site remains vacant and no mining activity takes place.

Reclamation Plan Performance Standard (*end use*):

The proposed subsequent use for this property is to leave it in open space, and establish a condition similar to the surrounding open desert areas.

Describe Tasks:

The site will consist of a single pit with 4:1 side slopes. The intent is to leave the site in a safe state. The slopes will be excavated to the alluvial materials with maximum of 4:1 slopes. Slopes will be stable. All refuse will be removed from the site. The existing drainage patterns will be perpetuated. Erosion control will used through the installation of drought tolerant, native landscaping on all slopes and flat areas, and construction of drainage control structures where water drains off-site.

Equipment on Site Wholly Owned by Operator? ☒YES ☐NO

(If no, please provide the name(s) and contact information for any lien holder)

N/A

V. PLANT STRUCTURES AND EQUIPMENT REMOVAL *(cont.)*

Methods to be used:

A. Equipment – List equipment required to complete identified task *(for large reclamation project sites or separate mine areas)*.

Equipment	$/Unit	# of Units	Cost ($)
Note: There are no plant structures or equipment requiring			0.00
removal ofthe mining operation. The equipment is mobile.			0.00
			0.00
			0.00
			0.00

Total Equipment Cost for This Task = $ 0.00

B. Labor – List all labor categories to complete identified task.

Labor Category	$/Unit (incl labor burden)	# of Units	Cost ($)
			0.00
			0.00
			0.00
			0.00
			0.00

Total Labor Cost for This Task = $ 0.00

C. Demolition – List all structures and equipment to be dismantled or demolished and removed from site.

Structure/Equipment to be Removed	Type of Material	Volume/ Quantity	Unit Cost Basis	Disposal Cost	Cost ($)
					0.00
					0.00
					0.00
					0.00
					0.00

Total Materials Cost for This Task = $ 0.00

D. Total Direct Cost of Structure and Equipment Removal (Sum of A+B+C).

Equipment Costs + Labor Cost + Demolition Cost = $ 0.00

E. Net Salvage Value* (Supported by properly prepared third party estimate, bid, or cost calculation.)

Net Salvage Value = $

F. Total Cost of Structure and Equipment Removal (Subtract Line D from Line E).

Total Cost of Structure and Equipment Removal = $ 0.00

***NOTE**: Salvage value may only be used to offset the direct cost of removing the single item for which salvage value is being claimed. Salvage value shall not be used to offset any other demolition, general cleanup, or reclamation costs.

VI. PRIMARY RECLAMATION ACTIVITY: Finish grading and hydroseeding

(Describe reclamation activity being estimated)

Use multiple sheets as necessary to estimate the cost of each activity required. Provide documentation showing that rates, prices, and wages are available locally to the lead agency and/or the Department if necessary.

Current Site Conditions:

There are no plant structures or equipment requiring removal, all mining equipment is mobile.

Reclamation Plan Performance Standard (end use):

The proposed subsequent use for this property is to leave it in open space, and establish a condition similar to the surrounding open desert areas.

Describe Tasks, Methods, Equipment, etc.:

Decompaction, cut, fill, haul, slope reduction, compaction, grading, topsoil placement, drainage work, soil amendment, special requirements, etc. Separate sheets may be used for each task if necessary.

Task description: Regrade the re-contour area to a gradient no steeper than 4:1. Regrade and finish slopes to blend with the surrounding areas, including furrowing of slopes and ripping the pit floor. Methods to be used; A Cat d-8 dozer with ripper attachment will transverse the compacted areas to promote plant growth. A dozer and grader will grade available soil over the 15 acres. Production rate is estimated at 1 acre/hour.

Provide Quantities:

Overburden and topsoil, cut and fill, import or export (cubic yards), area (acres), haul distances (feet), equipment production rates (cubic yards/hour, or as applicable), etc.

Grading of the site will be done so as to balance the existing cut and fill, with no required import or export of materials.

VI. PRIMARY RECLAMATION ACTIVITY: Finish grading and hydroseeding (con't.)

(Describe reclamation activity being estimated)

Acres:	15	Overburden (cy):	
Haul distance (ft):		Topsoil (cy):	
Production rate (cy/hr):			

Methods to be used:

A. Equipment – List equipment required to complete identified task *(for large reclamation jobs separate mine areas)*.

Equipment	$/Unit	# of Units	Cost ($)
D-8L Dozer	193.39	20	3,867.80
Water Truck (60,000#)	70.62	20	1,412.40
Motor Grader	88.42	20	1,768.40
Lowbed Truck	79.48	8	635.84
Tilt Trailer	6.78	8	54.24
			0.00

Total Equipment Cost for this Task = $ 7,738.68

B. Labor – List all labor categories to complete identified task.

Labor Category	$/Unit	# of Units	Cost ($)
Operator II	126.15	160	20,184.00
Truck & Trailer Driver	31.58	4	126.32
			0.00
			0.00
			0.00
			0.00

Total Labor Cost for this Task = $ 20,310.32

C. Materials – List all materials required to complete identified task.

Item	Quantity	$/Unit (incl sales tax)	Cost ($)
N/A			0.00
			0.00
			0.00
			0.00
			0.00

Total Materials Cost for this Task = $ 0.00

D. Total Direct Cost for this Task

Equipment Costs + Labor Cost + Materials Cost = $ 28,049.00

VII. REVEGETATION *(use multiple sheets as needed)*

Provide documentation showing that rates, prices, and wages are available locally to all persons, including the lead agency and/or the Department.

Current Site Condition:

The site is currently a vacant, undeveloped, and sparsely vegetated property. The existing amount of disturbance from the mining operations is 15 acres. All existing slopes are stable at a 4:1 inclines and no greater than 25 feet in vertical height. All drainage is confined to the mined area. No drainage courses are diverted or blocked. There is one material stockpile on the site.

Reclamation Plan Performance Standard (end use):

The site will be used as open space.

Describe Tasks:

Distribute native plant mix over finished slopes, mine floor and disturbed areas. Seed mix will be distributed at a rate of 30 pounds per acre (15 net acres total) by broadcasting with an automatic pressure sprayer.

VII. REVEGETATION (Cont.)

Methods to be used:

A. Equipment – List equipment required to complete identified task. For large reclamation jobs, separate mine areas.

Equipment	$/Unit	# of Units	Cost ($)
Water Truck	70.62	8	564.96
Hydroseeder w/ seed mix	29,403.00	1	29,403.00
			0.00
			0.00
			0.00
			0.00

Total Equipment Cost for this Task = $ 29,967.96

B. Labor– List all labor categories to complete identified task.

Labor Category	$/Unit (incl labor burden)	# of Units	Cost ($)
Foreman	160.39	8	1,283.12
Laborer	102.61	24	2,462.64
			0.00
			0.00
			0.00

Total Labor Cost for this Task = $ 3,745.76

C. Materials – List all materials required to complete identified task.

Item/Plant Species	Unit of Measure	Quantity	$/Unit (incl sales tax)	Cost ($)
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00

Total Materials Cost for this Task = $ 0.00

D. Total Direct Cost for this Task

Equipment Costs + Labor Cost + Materials Cost = $ 33,713.72

VIII. MISCELLANEOUS COSTS *(use multiple sheets as needed)*

Provide documentation showing that rates, prices, and wages are available locally to all persons, including the lead agency and/or the Department.

Examples of this type of cost may include temporary storage of equipment and materials off site, special one-time permits (i.e.: transportation permits for extra wide overweight loads, etc.), decommissioning a process mill (i.e.: decontamination of equipment), disposal of warehouse inventories, well abandonment, remediation of fueling and waste oil storage sites, septic system removal, costs to prepare closure and monitoring reports, site security, preserving potable water and maintaining utilities, etc.

Item / Task	Quantity	$/Unit	Cost ($)
Report Preparation	8	160.39	1,283.12
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00

Total Miscellaneous Costs = $ 1,283.12

IX. MONITORING COSTS

Monitoring Task	$/Visit	# Visits/Year	# of Monitoring Years	Cost ($)
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00

Total Monitoring Costs = $ 0.00

X. SUMMARY OF COSTS

This section shall be used to summarize all the cost sheets in one place.

(V)	Total of all Plant Structures and Equipment Removal Costs	$ 0.00
(VI)	Total of all Primary Reclamation Activities Costs	$ 28,049.00
(VII)	Total of all Revegetation Costs	$ 33,713.72
(VIII)	Total of all Miscellaneous Costs	$ 1,283.12
(IX)	Total of all Monitoring Costs	$ 0.00
	Total of Direct Costs =	$ 63,045.84

XI. SUPERVISION / PROFIT AND OVERHEAD / CONTINGENCIES / MOBILIZATION

(A)	Supervision	(5.0 %)	$ 3,152.29
(B)	Profit/Overhead	(12.0 %)	$ 7,565.50
(C)	Contingencies	(10.0 %)	$ 6,304.58
(D)	Mobilization	(%)	$ 0.00
		Total of Indirect Costs =	$ 17,022.38
		Total of Direct and Indirect Costs =	$ 80,068.22
		Lead Agency and/or Department of Conservation Administrative Costs =	$ 7,839.00
		TOTAL ESTIMATED COST OF RECLAMATION =	$ 87,907.22

FINANCIAL ASSURANCE COST ESTIMATE

FOR

Brookside Pit
(Mine Name)

CA Mine ID #: 91- 33-0094
Reclamation Plan # / Name: RP162 / Brookside Pit

Prepared by:
(name and affiliation)

Eric R. Lohr
Riverside County
Transportation Department

Date: 10/31/2019

This financial assurance cost estimate prepared and submitted pursuant to *(choose one)*:

☐ A new or amended reclamation plan approved on: _____ *(date)*

☒ An annual mine inspection performed on: 09/12/2019 *(date)*

☐ Other, please specify: _____

Most recent approved financial assurance cost estimate

Date: 07/25/2017

Amount: $ 26,221.09

Amount of existing financial assurance mechanism(s)

Date: 07/25/2019

Amount: $ 26,221.09

I. SUPPORTING DOCUMENTS

This estimate represents the cost of conducting and completing reclamation in accordance with the Surface Mining and Reclamation Act (SMARA) and the following supporting documents:

Reclamation Plan Approval Date and Number:

RP 162, September 03, 2002

Permits and/or Environmental Documents Approved as, or Conditioned Upon, the Reclamation Plan:

N/A

Other Agency Financial Assurances Securing Reclamation of Disturbed Lands:

N/A

Wage Rates Used in Cost Estimate*: *(cost estimates are required to use current 'General prevailing wage determinations made by the director of industrial relations' where applicable (http://www.dir.ca.gov/OPRL/PWD/index.htm) with employer labor burden added, or greater)*

Labor rates were based on current general prevailing wage rates issued by California Department of Industrial Relations for 2018 & 2019.

Equipment Rates Used in Cost Estimate*: *(Use current 'Labor Surcharge and Equipment Rental Rates (Cost of Equipment Ownership)' equipment rates published by Caltrans (http://www.dot.ca.gov/hq/construc/equipmnt.html) or other publicly available and verifiable local rates)*

Equipment Rates were based on current general prevailing wage rates issued by Caltrans Labor Surcharge and Equipment Rental Rates for 2019.

Equipment Production Rates used in Cost Estimate: *(Use of current Caterpillar Performance Handbook or equivalent published production rates is required)*

Equipment production rates were obtained from the Caterpillar Performance Handbook (Edition 42).

** Many mine sites are remote projects that require hours of travel (to and from) and sometimes require additional time to prepare for even the simplest of tasks. In accordance with Labor Code Sections 1773.1 and 1773.9, contractors are required to make travel and/or subsistence (per diem) payments to each worker to execute the work. These arrangements can be quite variable and site specific.*

Attachments:

N/A

II. DESCRIPTION OF CURRENT SITE CONDITIONS:

(i.e., disturbed acres, slope conditions, excavation depths, topsoil and overburden stockpiles, equipment and facilities, reclamation in progress, erosion control status, required corrective actions, etc.)

The existing amount of disturbance from the mining operations is 10 acres. All existing slopes are stable and graded to the final grades at 4:1 inclines and no greater than 25 feet in vertical height. All drainage is graded to the final design on the approved Reclamation Plan. No drainage courses are diverted or blocked. There are no material stockpiles on the site.

III. DESCRIPTION OF ANTICIPATED SITE CONDITIONS (12 months from date of estimate):

(i.e., increase of disturbed acres, increase of depth, increases in amount of equipment and/or facilities, required corrective actions, etc.)

No increase of disturbed area or depth of mining site is anticipated over the next 12 months. Mining equipment is mobile and removed. The equipment will not be returning to this site.

IV. DESCRIPTION/JUSTIFICATION OF COST INCREASE/DECREASE:

A cost decrease in the FACE would only occur in the event that unit cost for either labor, equipment, or re-vegetation are realized.

(add additional pages as needed)

V. PLANT STRUCTURES AND EQUIPMENT REMOVAL: *(use multiple sheets as needed)*

Provide documentation showing that rates, prices, and wages are available locally to all persons, including the lead agency and/or the Department.

Current Site Condition:

The site is mined periodically throughout the year to meet the demands of County projects and maintenance of roadways, using a mobile screen plant and stacker with a front end loader. There are periods throughout the year that the site remains vacant and no mining activity takes place. The site is final graded and will not be used for any mining in the future.

Reclamation Plan Performance Standard (*end use*):

The end use for this property the site will have 1.5% drainage slope across the entire site draining to the existing intermittent stream. This site will be used as an open space, and establish a condition similar to the surrounding areas.

Describe Tasks:

Slopes have been contoured and graded to blend with the surrounding area. The finished slopes and floor of the material site have been furrowed to retain rainfall and seeds to promote re-vegetation. The finished slopes and floor of the site will be seeded by pressure spraying with a seed mix of native plant seeds to the area.

Equipment on Site Wholly Owned by Operator? ☒YES ☐NO

(If no, please provide the name(s) and contact information for any lien holder)

N/A

V. PLANT STRUCTURES AND EQUIPMENT REMOVAL *(cont.)*

Methods to be used:

A. Equipment – List equipment required to complete identified task *(for large reclamation project sites or separate mine areas)*.

Equipment	$/Unit	# of Units	Cost ($)
Note: There are no plant structures or equipment requiring			0.00
removal of the mining operation. The equipment is mobile.			0.00
			0.00
			0.00
			0.00

Total Equipment Cost for This Task = $ 0.00

B. Labor – List all labor categories to complete identified task.

Labor Category	$/Unit (incl labor burden)	# of Units	Cost ($)
			0.00
			0.00
			0.00
			0.00
			0.00

Total Labor Cost for This Task = $ 0.00

C. Demolition – List all structures and equipment to be dismantled or demolished and removed from site.

Structure/Equipment to be Removed	Type of Material	Volume/ Quantity	Unit Cost Basis	Disposal Cost	Cost ($)
					0.00
					0.00
					0.00
					0.00
					0.00

Total Materials Cost for This Task = $ 0.00

D. Total Direct Cost of Structure and Equipment Removal (Sum of A+B+C).

Equipment Costs + Labor Cost + Demolition Cost = $ 0.00

E. Net Salvage Value* (Supported by properly prepared third party estimate, bid, or cost calculation.)

Net Salvage Value = $

F. Total Cost of Structure and Equipment Removal (Subtract Line D from Line E).

Total Cost of Structure and Equipment Removal = $ 0.00

***NOTE**: Salvage value may only be used to offset the direct cost of removing the single item for which salvage value is being claimed. Salvage value shall not be used to offset any other demolition, general cleanup, or reclamation costs.

VI. PRIMARY RECLAMATION ACTIVITY: Finish grading and hydroseeding

(Describe reclamation activity being estimated)

Use multiple sheets as necessary to estimate the cost of each activity required. Provide documentation showing that rates, prices, and wages are available locally to the lead agency and/or the Department if necessary.

Current Site Conditions:

There are no plant structures or equipment requiring removal, all mining equipment is mobile.

Reclamation Plan Performance Standard (end use):

The end use for this property is to leave it as an open space, and establish a condition similar to the surrounding open space areas.

Describe Tasks, Methods, Equipment, etc.:

Decompaction, cut, fill, haul, slope reduction, compaction, grading, topsoil placement, drainage work, soil amendment, special requirements, etc. Separate sheets may be used for each task if necessary.

Task description: N/A - All grading is complete.

Provide Quantities:

Overburden and topsoil, cut and fill, import or export (cubic yards), area (acres), haul distances (feet), equipment production rates (cubic yards/hour, or as applicable), etc.

Grading of the site was completed to balance the existing cut and fill, with no required import or export of materials.

VI. PRIMARY RECLAMATION ACTIVITY: _____ (con't.)

(Describe reclamation activity being estimated)

Acres:	10	Overburden (cy):	
Haul distance (ft):		Topsoil (cy):	
Production rate (cy/hr):			

Methods to be used:

A. Equipment – List equipment required to complete identified task *(for large reclamation jobs separate mine areas)*.

Equipment	$/Unit	# of Units	Cost ($)
D-8 Dozer (2 each)			0.00
Water Truck			0.00
Motor Grader			0.00
Lowbed Truck/Trailer Combo			0.00
			0.00
			0.00

Total Equipment Cost for this Task = $ 0.00

B. Labor – List all labor categories to complete identified task.

Labor Category	$/Unit	# of Units	Cost ($)
Operator II			0.00
Truck & Trailer Driver			0.00
			0.00
			0.00
			0.00
			0.00

Total Labor Cost for this Task = $ 0.00

C. Materials – List all materials required to complete identified task.

Item	Quantity	$/Unit (incl sales tax)	Cost ($)
Concrete V-ditch channels			0.00
Rip Rap Pad			0.00
Rip Rap Pad			0.00
			0.00
			0.00

Total Materials Cost for this Task = $ 0.00

D. Total Direct Cost for this Task

Equipment Costs + Labor Cost + Materials Cost = $ 0.00

VII. REVEGETATION *(use multiple sheets as needed)*

Provide documentation showing that rates, prices, and wages are available locally to all persons, including the lead agency and/or the Department.

Current Site Condition:

The existing amount of disturbance from the mining operations is 10 acres. All existing slopes are stable and graded to the final grades at 4:1 inclines and no greater than 25 feet in vertical height. All drainage is graded to the final design on the approved Reclamation Plan. No drainage courses are diverted or blocked. There are no material stockpiles on the site.

Reclamation Plan Performance Standard (end use):

The site will be used as open space.

Describe Tasks:

Distribute native plant mix over finished slopes, mine floor and disturbed areas. Seed mix will be distributed at a rate of 30 pounds per acre (10 net acres total) by broadcasting with an automatic pressure sprayer. Area to be hydroseeded includes both new and old sections of the pits.

VII. REVEGETATION (Cont.)

Methods to be used:

A. Equipment – List equipment required to complete identified task. For large reclamation jobs, separate mine areas.

Equipment	$/Unit	# of Units	Cost ($)
Water Truck	70.62	8	564.96
Hydroseeder w/ Seed Mix	10,000.00	1	10,000.00
			0.00
			0.00
			0.00
			0.00

Total Equipment Cost for this Task = $ 10,564.96

B. Labor– List all labor categories to complete identified task.

Labor Category	$/Unit (incl labor burden)	# of Units	Cost ($)
Foreman	160.39	8	1,283.12
Laborer	102.61	8	820.88
			0.00
			0.00
			0.00

Total Labor Cost for this Task = $ 2,104.00

C. Materials – List all materials required to complete identified task.

Item/Plant Species	Unit of Measure	Quantity	$/Unit (incl sales tax)	Cost ($)
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00

Total Materials Cost for this Task = $ 0.00

D. Total Direct Cost for this Task

Equipment Costs + Labor Cost + Materials Cost = $ 12,668.96

VIII. MISCELLANEOUS COSTS *(use multiple sheets as needed)*

Provide documentation showing that rates, prices, and wages are available locally to all persons, including the lead agency and/or the Department.

Examples of this type of cost may include temporary storage of equipment and materials off site, special one-time permits (i.e.: transportation permits for extra wide overweight loads, etc.), decommissioning a process mill (i.e.: decontamination of equipment), disposal of warehouse inventories, well abandonment, remediation of fueling and waste oil storage sites, septic system removal, costs to prepare closure and monitoring reports, site security, preserving potable water and maintaining utilities, etc.

Item / Task	Quantity	$/Unit	Cost ($)
Report Preparation	24	160.39	3,849.36
		0.00	0.00
		0.00	0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00

Total Miscellaneous Costs = $ 3,849.36

IX. MONITORING COSTS

Monitoring Task	$/Visit	# Visits/Year	# of Monitoring Years	Cost ($)
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00

Total Monitoring Costs = $ 0.00

X. SUMMARY OF COSTS

This section shall be used to summarize all the cost sheets in one place.

(V)	Total of all Plant Structures and Equipment Removal Costs	$ 0.00
(VI)	Total of all Primary Reclamation Activities Costs	$ 0.00
(VII)	Total of all Revegetation Costs	$ 12,668.96
(VIII)	Total of all Miscellaneous Costs	$ 3,849.36
(IX)	Total of all Monitoring Costs	$ 0.00
	Total of Direct Costs =	$ 16,518.32

XI. SUPERVISION / PROFIT AND OVERHEAD / CONTINGENCIES / MOBILIZATION

(A)	Supervision	(5.0 %)	$ 825.92
(B)	Profit/Overhead	(12.0 %)	$ 1,982.20
(C)	Contingencies	(10.0 %)	$ 1,651.83
(D)	Mobilization	(%)	$ 0.00
		Total of Indirect Costs =	$ 4,459.95
		Total of Direct and Indirect Costs =	$ 20,978.27
		Lead Agency and/or Department of Conservation Administrative Costs =	$ 5,242.82
		TOTAL ESTIMATED COST OF RECLAMATION =	$ 26,221.09

FINANCIAL ASSURANCE COST ESTIMATE

FOR

Bundy Canyon Pit
(Mine Name)

CA Mine ID #: 91- 33-0049
Reclamation Plan # / Name: RP141 / Bundy Canyon Pit

Prepared by:
(name and affiliation)

Eric R. Lohr
Riverside County
Transportation Department

Date: 09/24/2019

This financial assurance cost estimate prepared and submitted pursuant to *(choose one)*:

☐ A new or amended reclamation plan approved on: _____ *(date)*

☒ An annual mine inspection performed on: 08/15/2019 *(date)*

☐ Other, please specify: _____

Most recent approved financial assurance cost estimate

Date: 07/25/2017

Amount: $ 215,953.95

Amount of existing financial assurance mechanism(s)

Date: 07/25/2019

Amount: $ 215,953.95

I. SUPPORTING DOCUMENTS

This estimate represents the cost of conducting and completing reclamation in accordance with the Surface Mining and Reclamation Act (SMARA) and the following supporting documents:

Reclamation Plan Approval Date and Number:

RP 141, September 20, 2009

Permits and/or Environmental Documents Approved as, or Conditioned Upon, the Reclamation Plan:

N/A

Other Agency Financial Assurances Securing Reclamation of Disturbed Lands:

N/A

Wage Rates Used in Cost Estimate*: *(cost estimates are required to use current 'General prevailing wage determinations made by the director of industrial relations' where applicable (http://www.dir.ca.gov/OPRL/PWD/index.htm) with employer labor burden added, or greater)*

Labor rates were based on current general prevailing wage rates issued by California Department of Industrial Relations for 2018 & 2019.

Equipment Rates Used in Cost Estimate*: *(Use current 'Labor Surcharge and Equipment Rental Rates (Cost of Equipment Ownership)' equipment rates published by Caltrans (http://www.dot.ca.gov/hq/construc/equipmnt.html) or other publicly available and verifiable local rates)*

Equipment Rates were based on current general prevailing wage rates issued by Caltrans Labor Surcharge and Equipment Rental Rates for 2019.

Equipment Production Rates used in Cost Estimate: *(Use of current Caterpillar Performance Handbook or equivalent published production rates is required)*

Equipment production rates were obtained from the Caterpillar Performance Handbook (Edition 42).

** Many mine sites are remote projects that require hours of travel (to and from) and sometimes require additional time to prepare for even the simplest of tasks. In accordance with Labor Code Sections 1773.1 and 1773.9, contractors are required to make travel and/or subsistence (per diem) payments to each worker to execute the work. These arrangements can be quite variable and site specific.*

Attachments:

N/A

II. DESCRIPTION OF CURRENT SITE CONDITIONS:

(i.e., disturbed acres, slope conditions, excavation depths, topsoil and overburden stockpiles, equipment and facilities, reclamation in progress, erosion control status, required corrective actions, etc.)

The existing amount of disturbance from the mining operations is 50 acres. All existing slopes are stable at a 2:1 inclines and no greater than 25 feet in vertical height. All drainage is confined to the mined area. No drainage courses are diverted or blocked. There is one material stockpile on the site.

III. DESCRIPTION OF ANTICIPATED SITE CONDITIONS (12 months from date of estimate):

(i.e., increase of disturbed acres, increase of depth, increases in amount of equipment and/or facilities, required corrective actions, etc.)

No increase of disturbed area or depth of mining site is anticipated over the next 12 months. Mining equipment being used is mobile, and will be transported from the site when seasonal mining activity has ceased.

IV. DESCRIPTION/JUSTIFICATION OF COST INCREASE/DECREASE:

A cost decrease in the FACE would only occur in the event that unit cost for either labor, equipment, or re-vegetation are realized.

(add additional pages as needed)

V. PLANT STRUCTURES AND EQUIPMENT REMOVAL: *(use multiple sheets as needed)*

Provide documentation showing that rates, prices, and wages are available locally to all persons, including the lead agency and/or the Department.

Current Site Condition:

The site is mined periodically throughout the year to meet the demands of County projects and maintenance of roadways, using a mobile screen plant and stacker with a front end loader. There are periods throughout the year that the site remains vacant and no mining activity takes place.

Reclamation Plan Performance Standard (*end use*):

The proposed subsequent use for this property is to possibly sell the property for possible residential subdivision or similar use that is compatible with the surrounding residential subdivisions. Since the property is zoned Rural-Residential (R-R) the level,mined areas will be utilized for residential development.

Describe Tasks:

The site will consist of a single pad area with 2:1 side slopes and scatted rock outcrops. The intent is to leave the site in a safe and stable condition, suitable for residential development. Slopes will be contoured and graded to blend with the surrounding area. The finished slopes and floor of the material site will be furrowed to retain rainfall and seeds to promote re-vegetation. The finished slopes and floor of the site will be seeded by pressure spraying with a seed mix of native plant seeds to the area.

Equipment on Site Wholly Owned by Operator? ☒YES ☐NO

(If no, please provide the name(s) and contact information for any lien holder)

N/A

V. PLANT STRUCTURES AND EQUIPMENT REMOVAL *(cont.)*

Methods to be used:

A. Equipment – List equipment required to complete identified task *(for large reclamation project sites or separate mine areas)*.

Equipment	$/Unit	# of Units	Cost ($)
Note: There are no plant structures or equipment requiring			0.00
removal of the mining operation. The equipment is mobile.			0.00
			0.00
			0.00
			0.00

Total Equipment Cost for This Task = $ 0.00

B. Labor – List all labor categories to complete identified task.

Labor Category	$/Unit (incl labor burden)	# of Units	Cost ($)
			0.00
			0.00
			0.00
			0.00
			0.00

Total Labor Cost for This Task = $ 0.00

C. Demolition – List all structures and equipment to be dismantled or demolished and removed from site.

Structure/Equipment to be Removed	Type of Material	Volume/ Quantity	Unit Cost Basis	Disposal Cost	Cost ($)
					0.00
					0.00
					0.00
					0.00
					0.00

Total Materials Cost for This Task = $ 0.00

D. Total Direct Cost of Structure and Equipment Removal (Sum of A+B+C).

Equipment Costs + Labor Cost + Demolition Cost = $ 0.00

E. Net Salvage Value* (Supported by properly prepared third party estimate, bid, or cost calculation.)

Net Salvage Value = $

F. Total Cost of Structure and Equipment Removal (Subtract Line D from Line E).

Total Cost of Structure and Equipment Removal = $ 0.00

*NOTE: Salvage value may only be used to offset the direct cost of removing the single item for which salvage value is being claimed. Salvage value shall not be used to offset any other demolition, general cleanup, or reclamation costs.

VI. PRIMARY RECLAMATION ACTIVITY: Finish grading and hydroseeding

(Describe reclamation activity being estimated)

Use multiple sheets as necessary to estimate the cost of each activity required. Provide documentation showing that rates, prices, and wages are available locally to the lead agency and/or the Department if necessary.

Current Site Conditions:

There are no plant structures or equipment requiring removal, all mining equipment is mobile.

Reclamation Plan Performance Standard (end use):

The proposed subsequent use for this property is to possibly sell the property for possible residential subdivision or similar use that is compatible with the surrounding residential subdivisions. Since the property is zoned Rural-Residential (R-R) the level,mined areas will be utilized for residential development.

Describe Tasks, Methods, Equipment, etc.:

Decompaction, cut, fill, haul, slope reduction, compaction, grading, topsoil placement, drainage work, soil amendment, special requirements, etc. Separate sheets may be used for each task if necessary.

Task description: The site will consist of two relatively level pad areas sloping at a 4% gradient to the southwest with an intervening 5:1 slope approximately 22' high. Side slopes will be no steeper than 2:1 with a maximum height of 30' Mined areas on the north and east portions of the reclamation plan will daylight with existing topograghy. The intent is to leave the site in a safe and stable condition, suitable for residential development. Regrade and finish slopes to blend with the surrounding areas, including furrowing of slopes and ripping the pit floor. Methods to be used; A Cat d-8 dozer with ripper attachment will transverse the compacted areas to promote plant growth. A dozer and grader will grade available soil over the 15 acres. Production rate is estimated at 1 acre/hour.

Provide Quantities:

Overburden and topsoil, cut and fill, import or export (cubic yards), area (acres), haul distances (feet), equipment production rates (cubic yards/hour, or as applicable), etc.

Grading of the site will be done so as to balance the existing cut and fill, with no required import or export of materials.

VI. PRIMARY RECLAMATION ACTIVITY: _____ (con't.)

(Describe reclamation activity being estimated)

Acres:	50	Overburden (cy):	
Haul distance (ft):		Topsoil (cy):	
Production rate (cy/hr):			

Methods to be used:

A. Equipment – List equipment required to complete identified task *(for large reclamation jobs separate mine areas).*

Equipment	$/Unit	# of Units	Cost ($)
D-8L Dozer (2 each)	193.39	60	11,603.40
Water Truck (60,000#)	70.62	30	2,118.60
Motor Grader (Cat 14H)	132.34	30	3,970.20
Lowbed Truck	79.48	8	635.84
Tilt Trailer	6.78	8	54.24
			0.00

Total Equipment Cost for this Task = $ 18,382.28

B. Labor – List all labor categories to complete identified task.

Labor Category	$/Unit	# of Units	Cost ($)
Operator II	126.15	120	15,138.00
Truck & Trailer Driver	31.58	8	252.64
			0.00
			0.00
			0.00
			0.00

Total Labor Cost for this Task = $ 15,390.64

C. Materials – List all materials required to complete identified task.

Item	Quantity	$/Unit (incl sales tax)	Cost ($)
			0.00
			0.00
			0.00
			0.00
			0.00

Total Materials Cost for this Task = $ 0.00

D. Total Direct Cost for this Task

Equipment Costs + Labor Cost + Materials Cost = $ 33,772.92

VII. REVEGETATION *(use multiple sheets as needed)*

Provide documentation showing that rates, prices, and wages are available locally to all persons, including the lead agency and/or the Department.

Current Site Condition:

The site is currently a vacant, undeveloped, and sparsely vegetated, rocky property. The existing amount of disturbance from the mining operations is 50 acres. All existing slopes are stable at a 3:1 inclines and no greater than 25 feet in vertical height. All drainage is confined to the mined area. No drainage courses are diverted or blocked. There is one material stockpile on the site.

Reclamation Plan Performance Standard (end use):

The site will be used as possible residential development.

Describe Tasks:

Distribute native plant mix over finished slopes, mine floor and disturbed areas. Seed mix will be distributed at a rate of 30 pounds per acre (50 net acres total) by broadcasting with an automatic pressure sprayer. Area to be hydroseeded includes both new and old sections of the pits.

VII. REVEGETATION (Cont.)

Methods to be used:

A. Equipment – List equipment required to complete identified task. For large reclamation jobs, separate mine areas.

Equipment	$/Unit	# of Units	Cost ($)
Water Truck	70.62	24	1,694.88
Hydroseeder w/ Seed Mix	98,010.00	1	98,010.00
			0.00
			0.00
			0.00
			0.00

Total Equipment Cost for this Task = $ 99,704.88

B. Labor– List all labor categories to complete identified task.

Labor Category	$/Unit (incl labor burden)	# of Units	Cost ($)
Foreman	160.39	24	3,849.36
Laborer	102.61	48	4,925.28
			0.00
			0.00
			0.00

Total Labor Cost for this Task = $ 8,774.64

C. Materials – List all materials required to complete identified task.

Item/Plant Species	Unit of Measure	Quantity	$/Unit (incl sales tax)	Cost ($)
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00

Total Materials Cost for this Task = $ 0.00

D. Total Direct Cost for this Task

Equipment Costs + Labor Cost + Materials Cost = $ 108,479.52

VIII. MISCELLANEOUS COSTS *(use multiple sheets as needed)*

Provide documentation showing that rates, prices, and wages are available locally to all persons, including the lead agency and/or the Department.

Examples of this type of cost may include temporary storage of equipment and materials off site, special one-time permits (i.e.: transportation permits for extra wide overweight loads, etc.), decommissioning a process mill (i.e.: decontamination of equipment), disposal of warehouse inventories, well abandonment, remediation of fueling and waste oil storage sites, septic system removal, costs to prepare closure and monitoring reports, site security, preserving potable water and maintaining utilities, etc.

Item / Task	Quantity	$/Unit	Cost ($)
Report Preparation (25 hours per year * 4 years)	100	160.39	16,039.00
		0.00	0.00
		0.00	0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00

Total Miscellaneous Costs = $ 16,039.00

IX. MONITORING COSTS

Monitoring Task	$/Visit	# Visits/Year	# of Monitoring Years	Cost ($)
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00

Total Monitoring Costs = $ 0.00

X. SUMMARY OF COSTS

This section shall be used to summarize all the cost sheets in one place.

(V)	Total of all Plant Structures and Equipment Removal Costs	$ 0.00
(VI)	Total of all Primary Reclamation Activities Costs	$ 33,772.92
(VII)	Total of all Revegetation Costs	$ 108,479.52
(VIII)	Total of all Miscellaneous Costs	$ 16,039.00
(IX)	Total of all Monitoring Costs	$ 0.00
	Total of Direct Costs =	$ 158,291.44

XI. SUPERVISION / PROFIT AND OVERHEAD / CONTINGENCIES / MOBILIZATION

(A)	Supervision	(5.0 %)	$ 7,914.57
(B)	Profit/Overhead	(12.0 %)	$ 18,994.97
(C)	Contingencies	(10.0 %)	$ 15,829.14
(D)	Mobilization	(%)	$ 0.00
		Total of Indirect Costs =	$ 42,738.69
		Total of Direct and Indirect Costs =	$ 201,030.13
		Lead Agency and/or Department of Conservation Administrative Costs =	$ 14,923.82
		TOTAL ESTIMATED COST OF RECLAMATION =	$ 215,953.95

FINANCIAL ASSURANCE COST ESTIMATE

FOR

East Benton Pit
(Mine Name)

CA Mine ID #: 91- 33-0052
Reclamation Plan # / Name: RP138 / East Benton Pit

Prepared by:
(name and affiliation)

Eric R. Lohr
Riverside County
Transportation Department

Date: 09/24/2019

This financial assurance cost estimate prepared and submitted pursuant to *(choose one)*:

☐ A new or amended reclamation plan approved on: _____ *(date)*

☒ An annual mine inspection performed on: 08/15/2019 *(date)*

☐ Other, please specify: _____

Most recent approved financial assurance cost estimate

Date: 07/25/2017

Amount: $ 116,279.01

Amount of existing financial assurance mechanism(s)

Date: 07/25/2019

Amount: $ 116,279.01

I. SUPPORTING DOCUMENTS

This estimate represents the cost of conducting and completing reclamation in accordance with the Surface Mining and Reclamation Act (SMARA) and the following supporting documents:

Reclamation Plan Approval Date and Number:

RP 138, February 08, 2009

Permits and/or Environmental Documents Approved as, or Conditioned Upon, the Reclamation Plan:

N/A

Other Agency Financial Assurances Securing Reclamation of Disturbed Lands:

N/A

Wage Rates Used in Cost Estimate*: *(cost estimates are required to use current 'General prevailing wage determinations made by the director of industrial relations' where applicable (http://www.dir.ca.gov/OPRL/PWD/index.htm) with employer labor burden added, or greater)*

Labor rates were based on current general prevailing wage rates issued by California Department of Industrial Relations for 2018 & 2019.

Equipment Rates Used in Cost Estimate*: *(Use current 'Labor Surcharge and Equipment Rental Rates (Cost of Equipment Ownership)' equipment rates published by Caltrans (http://www.dot.ca.gov/hq/construc/equipmnt.html) or other publicly available and verifiable local rates)*

Equipment Rates were based on current general prevailing wage rates issued by Caltrans Labor Surcharge and Equipment Rental Rates for 2019.

Equipment Production Rates used in Cost Estimate: *(Use of current Caterpillar Performance Handbook or equivalent published production rates is required)*

Equipment production rates were obtained from the Caterpillar Performance Handbook (Edition 42).

** Many mine sites are remote projects that require hours of travel (to and from) and sometimes require additional time to prepare for even the simplest of tasks. In accordance with Labor Code Sections 1773.1 and 1773.9, contractors are required to make travel and/or subsistence (per diem) payments to each worker to execute the work. These arrangements can be quite variable and site specific.*

Attachments:

N/A

II. DESCRIPTION OF CURRENT SITE CONDITIONS:

(i.e., disturbed acres, slope conditions, excavation depths, topsoil and overburden stockpiles, equipment and facilities, reclamation in progress, erosion control status, required corrective actions, etc.)

The existing amount of disturbance from the mining operations is 15 acres. All existing slopes are stable at a 4:1 inclines and no greater than 25 feet in vertical height. All drainage is confined to the mined area. No drainage courses are diverted or blocked. There is one material stockpile on the site.

III. DESCRIPTION OF ANTICIPATED SITE CONDITIONS (12 months from date of estimate):

(i.e., increase of disturbed acres, increase of depth, increases in amount of equipment and/or facilities, required corrective actions, etc.)

No increase of disturbed area or depth of mining site is anticipated over the next 12 months. Mining equipment being used is mobile, and will be transported from the site when seasonal mining activity has ceased.

IV. DESCRIPTION/JUSTIFICATION OF COST INCREASE/DECREASE:

A cost decrease in the FACE would only occur in the event that unit cost for either labor, equipment, or re-vegetation are realized.

(add additional pages as needed)

V. PLANT STRUCTURES AND EQUIPMENT REMOVAL: *(use multiple sheets as needed)*

Provide documentation showing that rates, prices, and wages are available locally to all persons, including the lead agency and/or the Department.

Current Site Condition:

The site is mined periodically throughout the year to meet the demands of County projects and maintenance of roadways, using a mobile screen plant and stacker with a front end loader. There are periods throughout the year that the site remains vacant and no mining activity takes place.

Reclamation Plan Performance Standard (*end use*):

The proposed subsequent use for this property is to sell the property for possible rural residential use. Since the property is zoned as R-R (rural residential) the level, mined area will be utilized for residential development.

Describe Tasks:

The site will consist of a single pad area with 2:1 side slopes and scatted rock outcrops. The intent is to leave the site in a safe and stable condition, suitable for residential development. Slopes will be contoured and graded to blend with the surrounding area. The finished slopes and floor of the material site will be furrowed to retain rainfall and seeds to promote re-vegetation. The finished slopes and floor of the site will be seeded by pressure spraying with a seed mix of native plant seeds to the area.

Equipment on Site Wholly Owned by Operator? ☒YES ☐NO

(If no, please provide the name(s) and contact information for any lien holder)

N/A

V. PLANT STRUCTURES AND EQUIPMENT REMOVAL *(cont.)*

Methods to be used:

A. Equipment – List equipment required to complete identified task *(for large reclamation project sites or separate mine areas)*.

Equipment	$/Unit	# of Units	Cost ($)
Note: There are no plant structures or equipment requiring			0.00
removal of the mining operation. The equipment is mobile.			0.00
			0.00
			0.00
			0.00

Total Equipment Cost for This Task = $ 0.00

B. Labor – List all labor categories to complete identified task.

Labor Category	$/Unit (incl labor burden)	# of Units	Cost ($)
			0.00
			0.00
			0.00
			0.00
			0.00

Total Labor Cost for This Task = $ 0.00

C. Demolition – List all structures and equipment to be dismantled or demolished and removed from site.

Structure/Equipment to be Removed	Type of Material	Volume/ Quantity	Unit Cost Basis	Disposal Cost	Cost ($)
					0.00
					0.00
					0.00
					0.00
					0.00

Total Materials Cost for This Task = $ 0.00

D. Total Direct Cost of Structure and Equipment Removal (Sum of A+B+C).

Equipment Costs + Labor Cost + Demolition Cost = $ 0.00

E. Net Salvage Value* (Supported by properly prepared third party estimate, bid, or cost calculation.)

Net Salvage Value = $

F. Total Cost of Structure and Equipment Removal (Subtract Line D from Line E).

Total Cost of Structure and Equipment Removal = $ 0.00

***NOTE**: Salvage value may only be used to offset the direct cost of removing the single item for which salvage value is being claimed. Salvage value shall not be used to offset any other demolition, general cleanup, or reclamation costs.

VI. PRIMARY RECLAMATION ACTIVITY: Finish grading and hydroseeding

(Describe reclamation activity being estimated)

Use multiple sheets as necessary to estimate the cost of each activity required. Provide documentation showing that rates, prices, and wages are available locally to the lead agency and/or the Department if necessary.

Current Site Conditions:

There are no plant structures or equipment requiring removal, all mining equipment is mobile.

Reclamation Plan Performance Standard (end use):

The end use for this property is to sell the property for possible rural residential use. Since the property is zoned as R-R (rural residential) the level, mined area will be utilized for residential development.

Describe Tasks, Methods, Equipment, etc.:

Decompaction, cut, fill, haul, slope reduction, compaction, grading, topsoil placement, drainage work, soil amendment, special requirements, etc. Separate sheets may be used for each task if necessary.

Task description: The site will consist of two relatively level pad areas sloping at a 4% gradient to the southwest with an intervening 5:1 slope approximately 22' high. Side slopes will be no steeper than 2:1 with a maximum height of 30' Mined areas on the north and east portions of the reclamation plan will daylight with existing topograghy. The intent is to leave the site in a safe and stable condition, suitable for residential development. Regrade and finish slopes to blend with the surrounding areas, including furrowing of slopes and ripping the pit floor. Methods to be used; A Cat d-8 dozer with ripper attachment will transverse the compacted areas to promote plant growth. A dozer and grader will grade available soil over the 15 acres. Production rate is estimated at 1 acre/hour.

Provide Quantities:

Overburden and topsoil, cut and fill, import or export (cubic yards), area (acres), haul distances (feet), equipment production rates (cubic yards/hour, or as applicable), etc.

Grading of the site will be done so as to balance the existing cut and fill, with no required import or export of materials.

VI. PRIMARY RECLAMATION ACTIVITY: _____ (con't.)

(Describe reclamation activity being estimated)

Acres:	15	Overburden (cy):	
Haul distance (ft):		Topsoil (cy):	
Production rate (cy/hr):			

Methods to be used:

A. Equipment – List equipment required to complete identified task *(for large reclamation jobs separate mine areas)*.

Equipment	$/Unit	# of Units	Cost ($)
D-8L Dozer (2 each)	193.39	40	7,735.60
Water Truck(60,000#)	70.62	40	2,824.80
Motor Grader (Cat 14H)	132.34	40	5,293.60
Lowbed Truck	79.48	4	317.92
Tilt Trailer	6.78	4	27.12
			0.00

Total Equipment Cost for this Task = $ 16,199.04

B. Labor – List all labor categories to complete identified task.

Labor Category	$/Unit	# of Units	Cost ($)
Operator II	126.15	120	15,138.00
Truck & Trailer Driver	31.58	4	126.32
			0.00
			0.00
			0.00
			0.00

Total Labor Cost for this Task = $ 15,264.32

C. Materials – List all materials required to complete identified task.

Item	Quantity	$/Unit (incl sales tax)	Cost ($)
Interceptor Drain	1450	15.00	21,750.00
Down Drain	0	15.00	0.00
Rip Rap Pad	5	1,000.00	5,000.00
			0.00
			0.00

Total Materials Cost for this Task = $ 26,750.00

D. Total Direct Cost for this Task

Equipment Costs + Labor Cost + Materials Cost = $ 58,213.36

VII. REVEGETATION *(use multiple sheets as needed)*

Provide documentation showing that rates, prices, and wages are available locally to all persons, including the lead agency and/or the Department.

Current Site Condition:

The site is currently a vacant, undeveloped, and sparsely vegetated property. The existing amount of disturbance from the mining operations is 14.5 acres. All existing slopes are stable at a 3:1 inclines and no greater than 25 feet in vertical height. All drainage is confined to the mined area. No drainage courses are diverted or blocked. There is one material stockpile on the site.

Reclamation Plan Performance Standard (end use):

The site will be used as open space.

Describe Tasks:

Distribute native plant mix over finished slopes, mine floor and disturbed areas. Seed mix will be distributed at a rate of 30 pounds per acre (15 net acres total) by broadcasting with an automatic pressure sprayer. Area to be hydroseeded includes both new and old sections of the pits.

VII. REVEGETATION (Cont.)

Methods to be used:

A. Equipment – List equipment required to complete identified task. For large reclamation jobs, separate mine areas.

Equipment	$/Unit	# of Units	Cost ($)
Water Truck	70.62	8	564.96
Hydroseeder w/ Seed Mix	17,641.80	1	17,641.80
			0.00
			0.00
			0.00
			0.00

Total Equipment Cost for this Task = $ 18,206.76

B. Labor– List all labor categories to complete identified task.

Labor Category	$/Unit (incl labor burden)	# of Units	Cost ($)
Foreman	160.39	8	1,283.12
Laborer	102.61	8	820.88
			0.00
			0.00
			0.00

Total Labor Cost for this Task = $ 2,104.00

C. Materials – List all materials required to complete identified task.

Item/Plant Species	Unit of Measure	Quantity	$/Unit (incl sales tax)	Cost ($)
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00

Total Materials Cost for this Task = $ 0.00

D. Total Direct Cost for this Task

Equipment Costs + Labor Cost + Materials Cost = $ 20,310.76

VIII. MISCELLANEOUS COSTS *(use multiple sheets as needed)*

Provide documentation showing that rates, prices, and wages are available locally to all persons, including the lead agency and/or the Department.

Examples of this type of cost may include temporary storage of equipment and materials off site, special one-time permits (i.e.: transportation permits for extra wide overweight loads, etc.), decommissioning a process mill (i.e.: decontamination of equipment), disposal of warehouse inventories, well abandonment, remediation of fueling and waste oil storage sites, septic system removal, costs to prepare closure and monitoring reports, site security, preserving potable water and maintaining utilities, etc.

Item / Task	Quantity	$/Unit	Cost ($)
Report Preparation	8	160.39	1,283.12
		0.00	0.00
		0.00	0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00

Total Miscellaneous Costs = $ 1,283.12

IX. MONITORING COSTS

Monitoring Task	$/Visit	# Visits/Year	# of Monitoring Years	Cost ($)
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00

Total Monitoring Costs = $ 0.00

X. SUMMARY OF COSTS

This section shall be used to summarize all the cost sheets in one place.

(V)	Total of all Plant Structures and Equipment Removal Costs	$ 0.00
(VI)	Total of all Primary Reclamation Activities Costs	$ 58,213.36
(VII)	Total of all Revegetation Costs	$ 20,310.76
(VIII)	Total of all Miscellaneous Costs	$ 1,283.12
(IX)	Total of all Monitoring Costs	$ 0.00
	Total of Direct Costs =	$ 79,807.24

XI. SUPERVISION / PROFIT AND OVERHEAD / CONTINGENCIES / MOBILIZATION

(A)	Supervision	(5.0 %)	$ 3,990.36
(B)	Profit/Overhead	(12.0 %)	$ 9,576.87
(C)	Contingencies	(10.0 %)	$ 7,980.72
(D)	Mobilization	(%)	$ 0.00
		Total of Indirect Costs =	$ 21,547.95
		Total of Direct and Indirect Costs =	$ 101,355.19
		Lead Agency and/or Department of Conservation Administrative Costs =	$ 14,923.82
		TOTAL ESTIMATED COST OF RECLAMATION =	$ 116,279.01

FINANCIAL ASSURANCE COST ESTIMATE

FOR

Juniper Flats Pit
(Mine Name)

CA Mine ID #: 91- 33-0053
Reclamation Plan # / Name: RP142 / Juniper Flats Pit

Prepared by:
(name and affiliation)

Eric R. Lohr
Riverside County
Transportation Department

Date: 09/03/2019

This financial assurance cost estimate prepared and submitted pursuant to *(choose one)*:

☐ A new or amended reclamation plan approved on: _____ *(date)*

☒ An annual mine inspection performed on: 08/08/2019 *(date)*

☐ Other, please specify: _____

Most recent approved financial assurance cost estimate

Date: 06/22/2017

Amount: $ 228,235.82

Amount of existing financial assurance mechanism(s)

Date: 06/22/2019

Amount: $ 228,235.82

I. SUPPORTING DOCUMENTS

This estimate represents the cost of conducting and completing reclamation in accordance with the Surface Mining and Reclamation Act (SMARA) and the following supporting documents:

Reclamation Plan Approval Date and Number:

RP 142, September 20, 1993

Permits and/or Environmental Documents Approved as, or Conditioned Upon, the Reclamation Plan:

N/A

Other Agency Financial Assurances Securing Reclamation of Disturbed Lands:

N/A

Wage Rates Used in Cost Estimate*: *(cost estimates are required to use current 'General prevailing wage determinations made by the director of industrial relations' where applicable (http://www.dir.ca.gov/OPRL/PWD/index.htm) with employer labor burden added, or greater)*

Labor rates were based on current general prevailing wage rates issued by California Department of Industrial Relations for 2018 & 2019.

Equipment Rates Used in Cost Estimate*: *(Use current 'Labor Surcharge and Equipment Rental Rates (Cost of Equipment Ownership)' equipment rates published by Caltrans (http://www.dot.ca.gov/hq/construc/equipmnt.html) or other publicly available and verifiable local rates)*

Equipment Rates were based on current general prevailing wage rates issued by Caltrans Labor Surcharge and Equipment Rental Rates for 2019.

Equipment Production Rates used in Cost Estimate: *(Use of current Caterpillar Performance Handbook or equivalent published production rates is required)*

Equipment production rates were obtained from the Caterpillar Performance Handbook (Edition 42).

** Many mine sites are remote projects that require hours of travel (to and from) and sometimes require additional time to prepare for even the simplest of tasks. In accordance with Labor Code Sections 1773.1 and 1773.9, contractors are required to make travel and/or subsistence (per diem) payments to each worker to execute the work. These arrangements can be quite variable and site specific.*

Attachments:

N/A

II. DESCRIPTION OF CURRENT SITE CONDITIONS:

(i.e., disturbed acres, slope conditions, excavation depths, topsoil and overburden stockpiles, equipment and facilities, reclamation in progress, erosion control status, required corrective actions, etc.)

The existing amount of disturbance from the mining operations is 32 acres. All existing slopes are stable at a 4:1 inclines and no greater than 25 feet in vertical height. All drainage is confined to the mined area. No drainage courses are diverted or blocked. There is one material stockpile on the site.

III. DESCRIPTION OF ANTICIPATED SITE CONDITIONS (12 months from date of estimate):

(i.e., increase of disturbed acres, increase of depth, increases in amount of equipment and/or facilities, required corrective actions, etc.)

No increase of disturbed area or depth of mining site is anticipated over the next 12 months. Mining equipment being used is mobile, and will be transported from the site when seasonal mining activity has ceased.

IV. DESCRIPTION/JUSTIFICATION OF COST INCREASE/DECREASE:

A cost decrease in the FACE would only occur in the event that unit cost for either labor, equipment, or re-vegetation are realized.

(add additional pages as needed)

V. PLANT STRUCTURES AND EQUIPMENT REMOVAL: *(use multiple sheets as needed)*

Provide documentation showing that rates, prices, and wages are available locally to all persons, including the lead agency and/or the Department.

Current Site Condition:

The site is mined periodically throughout the year to meet the demands of County projects and maintenance of roadways, using a mobile screen plant and stacker with a front end loader. There are periods throughout the year that the site remains vacant and no mining activity takes place.

Reclamation Plan Performance Standard (*end use*):

The proposed end use for this property is to sell it for possible rural residential use. Since the property is zoned as R-R (Rural - Residential) the level, mined areas will be utilized for residential development.

Describe Tasks:

Slopes will be contoured and graded to blend with the surrounding area. The finished slopes and floor of the material site will be furrowed to retain rainfall and seeds to promote re-vegetation. The finished slopes and floor of the site will be seeded by pressure spraying with a seed mix of native plant seeds to the area.

Equipment on Site Wholly Owned by Operator? ☒YES ☐NO

(If no, please provide the name(s) and contact information for any lien holder)

N/A

V. PLANT STRUCTURES AND EQUIPMENT REMOVAL *(cont.)*

Methods to be used:

A. Equipment – List equipment required to complete identified task *(for large reclamation project sites or separate mine areas)*.

Equipment	$/Unit	# of Units	Cost ($)
Note: There are no plant structures or equipment requiring			0.00
removal of the mining operation. The equipment is mobile.			0.00
			0.00
			0.00
			0.00

Total Equipment Cost for This Task = $ 0.00

B. Labor – List all labor categories to complete identified task.

Labor Category	$/Unit (incl labor burden)	# of Units	Cost ($)
			0.00
			0.00
			0.00
			0.00
			0.00

Total Labor Cost for This Task = $ 0.00

C. Demolition – List all structures and equipment to be dismantled or demolished and removed from site.

Structure/Equipment to be Removed	Type of Material	Volume/ Quantity	Unit Cost Basis	Disposal Cost	Cost ($)
					0.00
					0.00
					0.00
					0.00
					0.00

Total Materials Cost for This Task = $ 0.00

D. Total Direct Cost of Structure and Equipment Removal (Sum of A+B+C).

Equipment Costs + Labor Cost + Demolition Cost = $ 0.00

E. Net Salvage Value* (Supported by properly prepared third party estimate, bid, or cost calculation.)

Net Salvage Value = $

F. Total Cost of Structure and Equipment Removal (Subtract Line D from Line E).

Total Cost of Structure and Equipment Removal = $ 0.00

***NOTE**: Salvage value may only be used to offset the direct cost of removing the single item for which salvage value is being claimed. Salvage value shall not be used to offset any other demolition, general cleanup, or reclamation costs.

VI. PRIMARY RECLAMATION ACTIVITY: Finish grading and hydroseeding

(Describe reclamation activity being estimated)

Use multiple sheets as necessary to estimate the cost of each activity required. Provide documentation showing that rates, prices, and wages are available locally to the lead agency and/or the Department if necessary.

Current Site Conditions:

There are no plant structures or equipment requiring removal, all mining equipment is mobile.

Reclamation Plan Performance Standard (end use):

The proposed end use for this property is to sell it for possible rural residential use. Since the property is zoned as R-R (Rural - Residential) the level, mined areas will be utilized for residential development.

Describe Tasks, Methods, Equipment, etc.:

Decompaction, cut, fill, haul, slope reduction, compaction, grading, topsoil placement, drainage work, soil amendment, special requirements, etc. Separate sheets may be used for each task if necessary.

Task description: Regrade the re-contour area to a gradient no steeper than 3:1. Regrade and finish slopes to blend with the surrounding areas, including furrowing of slopes and ripping the pit floor. Methods to be used; A Cat d-8 dozer with ripper attachment will transverse the compacted areas to promote plant growth. A dozer and grader will grade available soil over the 32 acres. Production rate is estimated at 1 acre/hour.

Provide Quantities:

Overburden and topsoil, cut and fill, import or export (cubic yards), area (acres), haul distances (feet), equipment production rates (cubic yards/hour, or as applicable), etc.

Grading of the site will be done so as to balance the existing cut and fill, with no required import or export of materials.

VI. PRIMARY RECLAMATION ACTIVITY: _____ (con't.)

(Describe reclamation activity being estimated)

Acres:	32	Overburden (cy):	
Haul distance (ft):		Topsoil (cy):	
Production rate (cy/hr):			

Methods to be used:

A. Equipment – List equipment required to complete identified task *(for large reclamation jobs separate mine areas)*.

Equipment	$/Unit	# of Units	Cost ($)
Cat D-8L Dozer	193.39	40	7,735.60
Water Truck (60,000#)	70.62	40	2,824.80
Motor Grader (Cat 14H)	132.34	40	5,293.60
Lowbed Truck	79.48	4	317.92
Tilt Trailer	6.78	4	27.12
			0.00

Total Equipment Cost for this Task = $ 16,199.04

B. Labor – List all labor categories to complete identified task.

Labor Category	$/Unit	# of Units	Cost ($)
Operator II	126.15	120	15,138.00
Truck & Trailer Driver	31.58	4	126.32
Foreman (Dist Supervisor)	160.39	40	6,415.60
			0.00
			0.00
			0.00

Total Labor Cost for this Task = $ 21,679.92

C. Materials – List all materials required to complete identified task.

Item	Quantity	$/Unit (incl sales tax)	Cost ($)
Interceptor Drain	2300	15.00	34,500.00
Rip Rap Pad	3	1,000.00	3,000.00
		100.00	0.00
			0.00
			0.00

Total Materials Cost for this Task = $ 37,500.00

D. Total Direct Cost for this Task

Equipment Costs + Labor Cost + Materials Cost = $ 75,378.96

VII. REVEGETATION *(use multiple sheets as needed)*

Provide documentation showing that rates, prices, and wages are available locally to all persons, including the lead agency and/or the Department.

Current Site Condition:

The site is currently a vacant, undeveloped, and sparsely vegetated property. The existing amount of disturbance from the mining operations is 32 acres. All existing slopes are stable at a 4:1 inclines and no greater than 25 feet in vertical height. All drainage is confined to the mined area. No drainage courses are diverted or blocked. There is one material stockpile on the site.

Reclamation Plan Performance Standard (end use):

The proposed end use for this property is to sell it for possible rural residential use. Since the property is zoned as R-R (Rural - Residential) the level, mined areas will be utilized for residential development.

Describe Tasks:

Distribute native plant mix over finished slopes, mine floor and disturbed areas. Seed mix will be distributed at a rate of 30 pounds per acre (32 net acres total) by broadcasting with an automatic pressure sprayer. Area to be hydroseeded includes both new and old sections of the pits.

VII. REVEGETATION (Cont.)

Methods to be used:

A. Equipment – List equipment required to complete identified task. For large reclamation jobs, separate mine areas.

Equipment	$/Unit	# of Units	Cost ($)
Water Truck	70.62	16	1,129.92
Hydroseeder w/ Seed Mix	40,000.00	1	40,000.00
			0.00
			0.00
			0.00
			0.00

Total Equipment Cost for this Task = $ 41,129.92

B. Labor– List all labor categories to complete identified task.

Labor Category	$/Unit (incl labor burden)	# of Units	Cost ($)
Foreman	160.39	16	2,566.24
Laborer	102.61	16	1,641.76
			0.00
			0.00
			0.00

Total Labor Cost for this Task = $ 4,208.00

C. Materials – List all materials required to complete identified task.

Item/Plant Species	Unit of Measure	Quantity	$/Unit (incl sales tax)	Cost ($)
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00

Total Materials Cost for this Task = $ 0.00

D. Total Direct Cost for this Task

Equipment Costs + Labor Cost + Materials Cost = $ 45,337.92

VIII. MISCELLANEOUS COSTS *(use multiple sheets as needed)*

Provide documentation showing that rates, prices, and wages are available locally to all persons, including the lead agency and/or the Department.

Examples of this type of cost may include temporary storage of equipment and materials off site, special one-time permits (i.e.: transportation permits for extra wide overweight loads, etc.), decommissioning a process mill (i.e.: decontamination of equipment), disposal of warehouse inventories, well abandonment, remediation of fueling and waste oil storage sites, septic system removal, costs to prepare closure and monitoring reports, site security, preserving potable water and maintaining utilities, etc.

Item / Task	Quantity	$/Unit	Cost ($)
Report Preparation	8	160.39	1,283.12
Install Barbwire fencing	7200	5.50	39,600.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00

Total Miscellaneous Costs = $ 40,883.12

IX. MONITORING COSTS

Monitoring Task	$/Visit	# Visits/Year	# of Monitoring Years	Cost ($)
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00

Total Monitoring Costs = $ 0.00

X. SUMMARY OF COSTS

This section shall be used to summarize all the cost sheets in one place.

(V)	Total of all Plant Structures and Equipment Removal Costs	$ 0.00
(VI)	Total of all Primary Reclamation Activities Costs	$ 75,378.96
(VII)	Total of all Revegetation Costs	$ 45,337.92
(VIII)	Total of all Miscellaneous Costs	$ 40,883.12
(IX)	Total of all Monitoring Costs	$ 0.00
	Total of Direct Costs =	$ 161,600.00

XI. SUPERVISION / PROFIT AND OVERHEAD / CONTINGENCIES / MOBILIZATION

(A)	Supervision	(5.0 %)	$ 8,080.00
(B)	Profit/Overhead	(12.0 %)	$ 19,392.00
(C)	Contingencies	(10.0 %)	$ 16,160.00
(D)	Mobilization	(5.0 %)	$ 8,080.00
		Total of Indirect Costs =	$ 51,712.00
		Total of Direct and Indirect Costs =	$ 213,312.00
		Lead Agency and/or Department of Conservation Administrative Costs =	$ 14,923.82
		TOTAL ESTIMATED COST OF RECLAMATION =	$ 228,235.82

FINANCIAL ASSURANCE COST ESTIMATE

FOR

Little Lake Pit
(Mine Name)

CA Mine ID #: 91- 33-0055
Reclamation Plan # / Name: RP145/ Little Lake Pit

Prepared by:
(name and affiliation)

Eric R. Lohr
Riverside County
Transportation Department

Date: 12/09/2019

This financial assurance cost estimate prepared and submitted pursuant to *(choose one)*:

☐ A new or amended reclamation plan approved on: _____ *(date)*

☒ An annual mine inspection performed on: 11/04/2019 *(date)*

☐ Other, please specify: _____

Most recent approved financial assurance cost estimate

Date: 07/25/2017

Amount: $ 5,748.38

Amount of existing financial assurance mechanism(s)

Date: 07/25/2019

Amount: $ 5,748.38

I. SUPPORTING DOCUMENTS

This estimate represents the cost of conducting and completing reclamation in accordance with the Surface Mining and Reclamation Act (SMARA) and the following supporting documents:

Reclamation Plan Approval Date and Number:

RP145, April 03, 1995

Permits and/or Environmental Documents Approved as, or Conditioned Upon, the Reclamation Plan:

N/A

Other Agency Financial Assurances Securing Reclamation of Disturbed Lands:

N/A

Wage Rates Used in Cost Estimate*: *(cost estimates are required to use current 'General prevailing wage determinations made by the director of industrial relations' where applicable (http://www.dir.ca.gov/OPRL/PWD/index.htm) with employer labor burden added, or greater)*

Equipment Rates Used in Cost Estimate*: *(Use current 'Labor Surcharge and Equipment Rental Rates (Cost of Equipment Ownership)' equipment rates published by Caltrans (http://www.dot.ca.gov/hq/construc/equipmnt.html) or other publicly available and verifiable local rates)*

Labor rates were based on the current general prevailing wage rates issued by Caltrans Labor Surcharge and Equipment for 2019.

Equipment Production Rates used in Cost Estimate: *(Use of current Caterpillar Performance Handbook or equivalent published production rates is required)*

Equipment production rates were obtained from the Caterpillar Performance Handbook (Edition 42).

** Many mine sites are remote projects that require hours of travel (to and from) and sometimes require additional time to prepare for even the simplest of tasks. In accordance with Labor Code Sections 1773.1 and 1773.9, contractors are required to make travel and/or subsistence (per diem) payments to each worker to execute the work. These arrangements can be quite variable and site specific.*

Attachments:

N/A

II. DESCRIPTION OF CURRENT SITE CONDITIONS:

(i.e., disturbed acres, slope conditions, excavation depths, topsoil and overburden stockpiles, equipment and facilities, reclamation in progress, erosion control status, required corrective actions, etc.)

The existing amount of disturbance from the mining operations is 23.89 acres. All existing slopes are stable with hydroseeding and fiber rolls at a 4:1 inclines and no greater than 25 feet in vertical height. All drainage is graded per the Reclamation Plan. No drainage courses are diverted or blocked. There is no stockpiled material on the site.

III. DESCRIPTION OF ANTICIPATED SITE CONDITIONS (12 months from date of estimate):

(i.e., increase of disturbed acres, increase of depth, increases in amount of equipment and/or facilities, required corrective actions, etc.)

No increase of disturbed area or depth of mining site is anticipated over the next 12 months. Mining equipment has been demobilized and mining activity has permanently ceased, with no intent to return.

IV. DESCRIPTION/JUSTIFICATION OF COST INCREASE/DECREASE:

A cost decrease in the FACE would only occur in the event that unit cost for either labor, equipment, or re-vegetation are realized.

(add additional pages as needed)

V. PLANT STRUCTURES AND EQUIPMENT REMOVAL: *(use multiple sheets as needed)*

Provide documentation showing that rates, prices, and wages are available locally to all persons, including the lead agency and/or the Department.

Current Site Condition:

The site has been hydroseeded and fiber rolls are placed. The vegetation is showing strong growth. All roadways have been covered in 3/4" gravel. The project is vacant, all mining equipment has been demobilized with no intent to return.

Reclamation Plan Performance Standard *(end use)*:

The proposed subsequent use for this property is for possible rural residential use that is comparable with the surrounding areas.

Describe Tasks:

The site has been graded per the Reclamation Plan. The site in a safe state. The slopes are excavated per the Reclamation Plan. Slopes are graded to be stable and maintain the pre-existing drainage patterns. All refuse has been removed from the site. Erosion control is in place through the installation of drought tolerant, native landscaping on all slopes and flat areas, and the construction of drainage control structures where water drains off-site.

Equipment on Site Wholly Owned by Operator? ☒YES ☐NO

(If no, please provide the name(s) and contact information for any lien holder)

N/A

V. PLANT STRUCTURES AND EQUIPMENT REMOVAL *(cont.)*

Methods to be used:

A. Equipment – List equipment required to complete identified task *(for large reclamation project sites or separate mine areas).*

Equipment	$/Unit	# of Units	Cost ($)
Note: All equipment is removed.			0.00
			0.00
			0.00
			0.00
			0.00

Total Equipment Cost for This Task = $ 0.00

B. Labor – List all labor categories to complete identified task.

Labor Category	$/Unit (incl labor burden)	# of Units	Cost ($)
			0.00
			0.00
			0.00
			0.00
			0.00

Total Labor Cost for This Task = $ 0.00

C. Demolition – List all structures and equipment to be dismantled or demolished and removed from site.

Structure/Equipment to be Removed	Type of Material	Volume/ Quantity	Unit Cost Basis	Disposal Cost	Cost ($)
No structures to be removed.					0.00
					0.00
					0.00
					0.00
					0.00

Total Materials Cost for This Task = $ 0.00

D. Total Direct Cost of Structure and Equipment Removal (Sum of A+B+C).

Equipment Costs + Labor Cost + Demolition Cost = $ 0.00

E. Net Salvage Value* (Supported by properly prepared third party estimate, bid, or cost calculation.)

Net Salvage Value = $

F. Total Cost of Structure and Equipment Removal (Subtract Line D from Line E).

Total Cost of Structure and Equipment Removal = $ 0.00

***NOTE**: Salvage value may only be used to offset the direct cost of removing the single item for which salvage value is being claimed. Salvage value shall not be used to offset any other demolition, general cleanup, or reclamation costs.

VI. PRIMARY RECLAMATION ACTIVITY: Finish grading and hydroseeding

(Describe reclamation activity being estimated)

Use multiple sheets as necessary to estimate the cost of each activity required. Provide documentation showing that rates, prices, and wages are available locally to the lead agency and/or the Department if necessary.

Current Site Conditions:

There are no plant structures or equipment requiring removal, all mining equipment is mobile and removed.

Reclamation Plan Performance Standard (end use):

The proposed subsequent use for this property is for possible rural residential use that is comptible with the surrounding areas.

Describe Tasks, Methods, Equipment, etc.:

Decompaction, cut, fill, haul, slope reduction, compaction, grading, topsoil placement, drainage work, soil amendment, special requirements, etc. Separate sheets may be used for each task if necessary.

Task description: All final grading, plant establishment, BMPs, trash removal is complete. This site is closed and the work on th Reclamation Plan is complete.

Provide Quantities:

Overburden and topsoil, cut and fill, import or export (cubic yards), area (acres), haul distances (feet), equipment production rates (cubic yards/hour, or as applicable), etc.

N/A

VI. PRIMARY RECLAMATION ACTIVITY: Finish grading and hydroseeding (con't.)

(Describe reclamation activity being estimated)

Acres:	23	Overburden (cy):	
Haul distance (ft):		Topsoil (cy):	
Production rate (cy/hr):			

Methods to be used:

A. Equipment – List equipment required to complete identified task *(for large reclamation jobs separate mine areas)*.

Equipment	$/Unit	# of Units	Cost ($)
N/A			0.00
			0.00
			0.00
			0.00
			0.00
			0.00

Total Equipment Cost for this Task = $ 0.00

B. Labor – List all labor categories to complete identified task.

Labor Category	$/Unit	# of Units	Cost ($)
N/A			0.00
			0.00
			0.00
			0.00
			0.00
			0.00

Total Labor Cost for this Task = $ 0.00

C. Materials – List all materials required to complete identified task.

Item	Quantity	$/Unit (incl sales tax)	Cost ($)
N/A			0.00
			0.00
			0.00
			0.00
			0.00

Total Materials Cost for this Task = $ 0.00

D. Total Direct Cost for this Task

Equipment Costs + Labor Cost + Materials Cost = $ 0.00

VII. REVEGETATION *(use multiple sheets as needed)*

Provide documentation showing that rates, prices, and wages are available locally to all persons, including the lead agency and/or the Department.

Current Site Condition:

The site is currently a vacant, undeveloped, and sparsely vegetated property. The existing amount of disturbance from the mining operations is 23 acres. All slopes are stable and graded per the Reclamation Plan. All drainage is completed per the Reclamation Plan. No drainage courses are diverted or blocked. There are no stockpiled material on the site.

Reclamation Plan Performance Standard (end use):

The site will be used for possible rural residential use that is comparable with the surrounding areas.

Describe Tasks:

Distribute native plant mix over finished slopes, mine floor and disturbed areas. Seed mix will be distributed at a rate of 30 pounds per acre (323 net acres total) by broadcasting with an automatic pressure sprayer. This work is completed per the Reclamation Plan.

VII. REVEGETATION (Cont.)

Methods to be used:

A. Equipment – List equipment required to complete identified task. For large reclamation jobs, separate mine areas.

Equipment	$/Unit	# of Units	Cost ($)
N/A			0.00
x			0.00
			0.00
			0.00
			0.00
			0.00

Total Equipment Cost for this Task = $ 0.00

B. Labor– List all labor categories to complete identified task.

Labor Category	$/Unit (incl labor burden)	# of Units	Cost ($)
			0.00
			0.00
			0.00
			0.00
			0.00

Total Labor Cost for this Task = $ 0.00

C. Materials – List all materials required to complete identified task.

Item/Plant Species	Unit of Measure	Quantity	$/Unit (incl sales tax)	Cost ($)
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00

Total Materials Cost for this Task = $ 0.00

D. Total Direct Cost for this Task

Equipment Costs + Labor Cost + Materials Cost = $ 0.00

VIII. MISCELLANEOUS COSTS *(use multiple sheets as needed)*

Provide documentation showing that rates, prices, and wages are available locally to all persons, including the lead agency and/or the Department.

Examples of this type of cost may include temporary storage of equipment and materials off site, special one-time permits (i.e.: transportation permits for extra wide overweight loads, etc.), decommissioning a process mill (i.e.: decontamination of equipment), disposal of warehouse inventories, well abandonment, remediation of fueling and waste oil storage sites, septic system removal, costs to prepare closure and monitoring reports, site security, preserving potable water and maintaining utilities, etc.

Item / Task	Quantity	$/Unit	Cost ($)
Report Preparation	32	160.39	5,132.48
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00

Total Miscellaneous Costs = $ 5,132.48

IX. MONITORING COSTS

Monitoring Task	$/Visit	# Visits/Year	# of Monitoring Years	Cost ($)
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00

Total Monitoring Costs = $ 0.00

X. SUMMARY OF COSTS

This section shall be used to summarize all the cost sheets in one place.

(V)	Total of all Plant Structures and Equipment Removal Costs	$ 0.00
(VI)	Total of all Primary Reclamation Activities Costs	$ 0.00
(VII)	Total of all Revegetation Costs	$ 0.00
(VIII)	Total of all Miscellaneous Costs	$ 5,132.48
(IX)	Total of all Monitoring Costs	$ 0.00
	Total of Direct Costs =	$ 5,132.48

XI. SUPERVISION / PROFIT AND OVERHEAD / CONTINGENCIES / MOBILIZATION

(A)	Supervision	(_____ %)	$ 0.00
(B)	Profit/Overhead	(12.0 %)	$ 615.90
(C)	Contingencies	(_____ %)	$ 0.00
(D)	Mobilization	(_____ %)	$ 0.00
		Total of Indirect Costs =	$ 615.90
		Total of Direct and Indirect Costs =	$ 5,748.38
		Lead Agency and/or Department of Conservation Administrative Costs =	$ 0.00
		TOTAL ESTIMATED COST OF RECLAMATION =	$ 5,748.38

FINANCIAL ASSURANCE COST ESTIMATE

FOR

Markham Pit
(Mine Name)

CA Mine ID #: 91- 33-0054
Reclamation Plan # / Name: RP164 / Markham Pit

Prepared by:
(name and affiliation)

Eric R. Lohr
Riverside County
Transportation Department

Date: 09/03/2019

This financial assurance cost estimate prepared and submitted pursuant to *(choose one)*:

☐ A new or amended reclamation plan approved on: _____ *(date)*

☒ An annual mine inspection performed on: 08/08/2019 *(date)*

☐ Other, please specify: _____

Most recent approved financial assurance cost estimate

Date: 06/22/2017

Amount: $ 166,855.51

Amount of existing financial assurance mechanism(s)

Date: 06/22/2019

Amount: $ 166,855.51

I. SUPPORTING DOCUMENTS

This estimate represents the cost of conducting and completing reclamation in accordance with the Surface Mining and Reclamation Act (SMARA) and the following supporting documents:

Reclamation Plan Approval Date and Number:

RP 164, April 29, 2009

Permits and/or Environmental Documents Approved as, or Conditioned Upon, the Reclamation Plan:

N/A

Other Agency Financial Assurances Securing Reclamation of Disturbed Lands:

N/A

Wage Rates Used in Cost Estimate*: *(cost estimates are required to use current 'General prevailing wage determinations made by the director of industrial relations' where applicable (http://www.dir.ca.gov/OPRL/PWD/index.htm) with employer labor burden added, or greater)*

Labor rates were based on current general prevailing wage rates issued by California Department of Industrial Relations for 2018 & 2019.

Equipment Rates Used in Cost Estimate*: *(Use current 'Labor Surcharge and Equipment Rental Rates (Cost of Equipment Ownership)' equipment rates published by Caltrans (http://www.dot.ca.gov/hq/construc/equipmnt.html) or other publicly available and verifiable local rates)*

Equipment Rates were based on current general prevailing wage rates issued by Caltrans Labor Surcharge and Equipment Rental Rates for 2019.

Equipment Production Rates used in Cost Estimate: *(Use of current Caterpillar Performance Handbook or equivalent published production rates is required)*

Equipment production rates were obtained from the Caterpillar Performance Handbook (Edition 42).

** Many mine sites are remote projects that require hours of travel (to and from) and sometimes require additional time to prepare for even the simplest of tasks. In accordance with Labor Code Sections 1773.1 and 1773.9, contractors are required to make travel and/or subsistence (per diem) payments to each worker to execute the work. These arrangements can be quite variable and site specific.*

Attachments:

N/A

II. DESCRIPTION OF CURRENT SITE CONDITIONS:

(i.e., disturbed acres, slope conditions, excavation depths, topsoil and overburden stockpiles, equipment and facilities, reclamation in progress, erosion control status, required corrective actions, etc.)

The existing amount of disturbance from the mining operations is 37 acres. All existing slopes are stable at a 4:1 inclines and no greater than 25 feet in vertical height. All drainage is confined to the mined area. No drainage courses are diverted or blocked. There is one material stockpile on the site.

III. DESCRIPTION OF ANTICIPATED SITE CONDITIONS (12 months from date of estimate):

(i.e., increase of disturbed acres, increase of depth, increases in amount of equipment and/or facilities, required corrective actions, etc.)

No increase of disturbed area or depth of mining site is anticipated over the next 12 months. Mining equipment being used is mobile, and will be transported from the site when seasonal mining activity has ceased.

IV. DESCRIPTION/JUSTIFICATION OF COST INCREASE/DECREASE:

A cost decrease in the FACE would only occur in the event that unit cost for either labor, equipment, or re-vegetation are realized.

(add additional pages as needed)

V. PLANT STRUCTURES AND EQUIPMENT REMOVAL: *(use multiple sheets as needed)*

Provide documentation showing that rates, prices, and wages are available locally to all persons, including the lead agency and/or the Department.

Current Site Condition:

The site is mined periodically throughout the year to meet the demands of County projects and maintenance of roadways, using a mobile screen plant and stacker with a front end loader. There are periods throughout the year that the site remains vacant and no mining activity takes place.

Reclamation Plan Performance Standard (*end use*):

The end use for this property is to leave it as an open space, and establish a condition similar to the surrounding areas.

Describe Tasks:

Slopes will be contoured and graded to blend with the surrounding area. The finished slopes and floor of the material site will be furrowed to retain rainfall and seeds to promote re-vegetation. The finished slopes and floor of the site will be seeded by pressure spraying with a seed mix of native plant seeds to the area.

Equipment on Site Wholly Owned by Operator? ☒YES ☐NO

(If no, please provide the name(s) and contact information for any lien holder)

N/A

V. PLANT STRUCTURES AND EQUIPMENT REMOVAL *(cont.)*

Methods to be used:

A. Equipment – List equipment required to complete identified task *(for large reclamation project sites or separate mine areas).*

Equipment	$/Unit	# of Units	Cost ($)
Note: There are no plant structures or equipment requiring			0.00
removal of the mining operation. The equipment is mobile.			0.00
			0.00
			0.00
			0.00

Total Equipment Cost for This Task = $ 0.00

B. Labor – List all labor categories to complete identified task.

Labor Category	$/Unit (incl labor burden)	# of Units	Cost ($)
			0.00
			0.00
			0.00
			0.00
			0.00

Total Labor Cost for This Task = $ 0.00

C. Demolition – List all structures and equipment to be dismantled or demolished and removed from site.

Structure/Equipment to be Removed	Type of Material	Volume/ Quantity	Unit Cost Basis	Disposal Cost	Cost ($)
					0.00
					0.00
					0.00
					0.00
					0.00

Total Materials Cost for This Task = $ 0.00

D. Total Direct Cost of Structure and Equipment Removal (Sum of A+B+C).

Equipment Costs + Labor Cost + Demolition Cost = $ 0.00

E. Net Salvage Value* (Supported by properly prepared third party estimate, bid, or cost calculation.)

Net Salvage Value = $ _____

F. Total Cost of Structure and Equipment Removal (Subtract Line D from Line E).

Total Cost of Structure and Equipment Removal = $ 0.00

***NOTE:** Salvage value may only be used to offset the direct cost of removing the single item for which salvage value is being claimed. Salvage value shall not be used to offset any other demolition, general cleanup, or reclamation costs.

VI. PRIMARY RECLAMATION ACTIVITY: Finish grading and hydroseeding

(Describe reclamation activity being estimated)

Use multiple sheets as necessary to estimate the cost of each activity required. Provide documentation showing that rates, prices, and wages are available locally to the lead agency and/or the Department if necessary.

Current Site Conditions:

There are no plant structures or equipment requiring removal, all mining equipment is mobile.

Reclamation Plan Performance Standard (end use):

The end use for this property is to leave it as an open space, and establish a condition similar to the surrounding open space areas.

Describe Tasks, Methods, Equipment, etc.:

Decompaction, cut, fill, haul, slope reduction, compaction, grading, topsoil placement, drainage work, soil amendment, special requirements, etc. Separate sheets may be used for each task if necessary.

Task description: Regrade the re-contour area to a gradient no steeper than 3:1. Regrade and finish slopes to blend with the surrounding areas, including furrowing of slopes and ripping the pit floor. Methods to be used; A Cat d-8 dozer with ripper attachment will transverse the compacted areas to promote plant growth. A dozer and grader will grade available soil over the 37 acres. Produtcion rate is estimated at 1 acre/hour.

Provide Quantities:

Overburden and topsoil, cut and fill, import or export (cubic yards), area (acres), haul distances (feet), equipment production rates (cubic yards/hour, or as applicable), etc.

Grading of the site will be done so as to balance the existing cut and fill, with no required import or export of materials.

VI. PRIMARY RECLAMATION ACTIVITY: _____ (con't.)

(Describe reclamation activity being estimated)

Acres:	37	Overburden (cy):	
Haul distance (ft):		Topsoil (cy):	
Production rate (cy/hr):			

Methods to be used:

A. Equipment – List equipment required to complete identified task *(for large reclamation jobs separate mine areas)*.

Equipment	$/Unit	# of Units	Cost ($)
Cat D-8L Dozer (2 each)	193.39	120	23,206.80
Water Truck (60,000#)	70.62	65	4,590.30
Motor Grader (Cat 14H)	132.34	40	5,293.60
Lowbed Truck	79.48	8	635.84
Tilt Trailer	6.78	8	54.24
			0.00

Total Equipment Cost for this Task = $ 33,780.78

B. Labor – List all labor categories to complete identified task.

Labor Category	$/Unit	# of Units	Cost ($)
Operator II	126.15	105	13,245.75
Truck & Trailer Driver	31.58	8	252.64
			0.00
			0.00
			0.00
			0.00

Total Labor Cost for this Task = $ 13,498.39

C. Materials – List all materials required to complete identified task.

Item	Quantity	$/Unit (incl sales tax)	Cost ($)
Interceptor Drain	1500	15.00	22,500.00
Down Drain	60	15.00	900.00
Rip Rap Pad	3	1,000.00	3,000.00
			0.00
			0.00

Total Materials Cost for this Task = $ 26,400.00

D. Total Direct Cost for this Task

Equipment Costs + Labor Cost + Materials Cost = $ 73,679.17

VII. REVEGETATION *(use multiple sheets as needed)*

Provide documentation showing that rates, prices, and wages are available locally to all persons, including the lead agency and/or the Department.

Current Site Condition:

The site is currently a vacant, undeveloped, and sparsely vegetated property. The existing amount of disturbance from the mining operations is 37 acres. All existing slopes are stable at a 4:1 inclines and no greater than 25 feet in vertical height. All drainage is confined to the mined area. No drainage courses are diverted or blocked. There is one material stockpile on the site.

Reclamation Plan Performance Standard (end use):

The site will be used as open space.

Describe Tasks:

Distribute native plant mix over finished slopes, mine floor and disturbed areas. Seed mix will be distributed at a rate of 30 pounds per acre (37 net acres total) by broadcasting with an automatic pressure sprayer. Area to be hydroseeded includes both new and old sections of the pits.

VII. REVEGETATION (Cont.)

Methods to be used:

A. Equipment – List equipment required to complete identified task. For large reclamation jobs, separate mine areas.

Equipment	$/Unit	# of Units	Cost ($)
Water Truck	70.62	8	564.96
Hydroseeder w/ Seed Mix	42,000.00	1	42,000.00
			0.00
			0.00
			0.00
			0.00

Total Equipment Cost for this Task = $ 42,564.96

B. Labor– List all labor categories to complete identified task.

Labor Category	$/Unit (incl labor burden)	# of Units	Cost ($)
Foreman	160.39	8	1,283.12
Laborer	102.61	8	820.88
			0.00
			0.00
			0.00

Total Labor Cost for this Task = $ 2,104.00

C. Materials – List all materials required to complete identified task.

Item/Plant Species	Unit of Measure	Quantity	$/Unit (incl sales tax)	Cost ($)
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00

Total Materials Cost for this Task = $ 0.00

D. Total Direct Cost for this Task

Equipment Costs + Labor Cost + Materials Cost = $ 44,668.96

VIII. MISCELLANEOUS COSTS *(use multiple sheets as needed)*

Provide documentation showing that rates, prices, and wages are available locally to all persons, including the lead agency and/or the Department.

Examples of this type of cost may include temporary storage of equipment and materials off site, special one-time permits (i.e.: transportation permits for extra wide overweight loads, etc.), decommissioning a process mill (i.e.: decontamination of equipment), disposal of warehouse inventories, well abandonment, remediation of fueling and waste oil storage sites, septic system removal, costs to prepare closure and monitoring reports, site security, preserving potable water and maintaining utilities, etc.

Item / Task	Quantity	$/Unit	Cost ($)
Report Preparation	8	160.39	1,283.12
		0.00	0.00
		0.00	0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00

Total Miscellaneous Costs = $ 1,283.12

IX. MONITORING COSTS

Monitoring Task	$/Visit	# Visits/Year	# of Monitoring Years	Cost ($)
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00

Total Monitoring Costs = $ 0.00

X. SUMMARY OF COSTS

This section shall be used to summarize all the cost sheets in one place.

(V)	Total of all Plant Structures and Equipment Removal Costs	$ 0.00
(VI)	Total of all Primary Reclamation Activities Costs	$ 73,679.17
(VII)	Total of all Revegetation Costs	$ 44,668.96
(VIII)	Total of all Miscellaneous Costs	$ 1,283.12
(IX)	Total of all Monitoring Costs	$ 0.00
	Total of Direct Costs =	$ 119,631.25

XI. SUPERVISION / PROFIT AND OVERHEAD / CONTINGENCIES / MOBILIZATION

(A)	Supervision	(5.0 %)	$ 5,981.56
(B)	Profit/Overhead	(12.0 %)	$ 14,355.75
(C)	Contingencies	(10.0 %)	$ 11,963.13
(D)	Mobilization	(%)	$ 0.00
		Total of Indirect Costs =	$ 32,300.44
		Total of Direct and Indirect Costs =	$ 151,931.69
		Lead Agency and/or Department of Conservation Administrative Costs =	$ 14,923.82
		TOTAL ESTIMATED COST OF RECLAMATION =	$ 166,855.51

FINANCIAL ASSURANCE COST ESTIMATE

FOR

Midland Pit
(Mine Name)

CA Mine ID #: 91- 33-0051
Reclamation Plan # / Name: RP147/ Midland Pit

Prepared by:
(name and affiliation)

Eric R. Lohr
Riverside County
Transportation Department

Date: 10/31/2019

This financial assurance cost estimate prepared and submitted pursuant to *(choose one)*:

☐ A new or amended reclamation plan approved on: _____ *(date)*

☒ An annual mine inspection performed on: 10/02/2019 *(date)*

☐ Other, please specify: _____

Most recent approved financial assurance cost estimate

Date: 07/25/2017

Amount: $ 203,450.21

Amount of existing financial assurance mechanism(s)

Date: 07/25/2019

Amount: $ 203,450.21

I. SUPPORTING DOCUMENTS

This estimate represents the cost of conducting and completing reclamation in accordance with the Surface Mining and Reclamation Act (SMARA) and the following supporting documents:

Reclamation Plan Approval Date and Number:

RP147, September 30, 1996

Permits and/or Environmental Documents Approved as, or Conditioned Upon, the Reclamation Plan:

N/A

Other Agency Financial Assurances Securing Reclamation of Disturbed Lands:

N/A

Wage Rates Used in Cost Estimate*: *(cost estimates are required to use current 'General prevailing wage determinations made by the director of industrial relations' where applicable (http://www.dir.ca.gov/OPRL/PWD/index.htm) with employer labor burden added, or greater)*

Equipment Rates Used in Cost Estimate*: *(Use current 'Labor Surcharge and Equipment Rental Rates (Cost of Equipment Ownership)' equipment rates published by Caltrans (http://www.dot.ca.gov/hq/construc/equipmnt.html) or other publicly available and verifiable local rates)*

Labor rates were based on the current general prevailing wage rates issued by Caltrans Labor Surcharge and Equipment for 2019.

Equipment Production Rates used in Cost Estimate: *(Use of current Caterpillar Performance Handbook or equivalent published production rates is required)*

Equipment production rates were obtained from the Caterpillar Performance Handbook (Edition 42).

** Many mine sites are remote projects that require hours of travel (to and from) and sometimes require additional time to prepare for even the simplest of tasks. In accordance with Labor Code Sections 1773.1 and 1773.9, contractors are required to make travel and/or subsistence (per diem) payments to each worker to execute the work. These arrangements can be quite variable and site specific.*

Attachments:

N/A

II. DESCRIPTION OF CURRENT SITE CONDITIONS:

(i.e., disturbed acres, slope conditions, excavation depths, topsoil and overburden stockpiles, equipment and facilities, reclamation in progress, erosion control status, required corrective actions, etc.)

The existing amount of disturbance from the mining operations is 57 acres. All existing slopes are stable at a 4:1 inclines and no greater than 25 feet in vertical height. All drainage is confined to the mined area. No drainage courses are diverted or blocked. There is one material stockpile on the site.

III. DESCRIPTION OF ANTICIPATED SITE CONDITIONS (12 months from date of estimate):

(i.e., increase of disturbed acres, increase of depth, increases in amount of equipment and/or facilities, required corrective actions, etc.)

No increase of disturbed area or depth of mining site is anticipated over the next 12 months. Mining equipment being used is mobile, and will be transported from the site when seasonal mining activity has ceased.

IV. DESCRIPTION/JUSTIFICATION OF COST INCREASE/DECREASE:

A cost decrease in the FACE would only occur in the event that unit cost for either labor, equipment, or re-vegetation are realized.

(add additional pages as needed)

V. PLANT STRUCTURES AND EQUIPMENT REMOVAL: *(use multiple sheets as needed)*

Provide documentation showing that rates, prices, and wages are available locally to all persons, including the lead agency and/or the Department.

Current Site Condition:

The site is mined periodically throughout the year to meet the demands of County projects and maintenance of roadways, using a mobile screen plant and stacker with a front end loader. There are periods throughout the year that the site remains vacant and no mining activity takes place.

Reclamation Plan Performance Standard (*end use*):

The proposed subsequent use for this property is to leave it in open space, and establish a condition similar to the surrounding open desert areas.

Describe Tasks:

The site will consist of a single pit with 4:1 side slopes. The intent is to leave the site in a safe state. The slopes will be excavated to the alluvial materials with maximum of 4:1 slopes. Slopes will be graded to be stable and maintain the pre-existing drainage patterns. All refuse will be removed from the site. Erosion control will used through the installation of drought tolerant, native landscaping on all slopes and flat areas, and construction of drainage control structures where water drains off-site.

Equipment on Site Wholly Owned by Operator? ☒YES ☐NO

(If no, please provide the name(s) and contact information for any lien holder)

N/A

V. PLANT STRUCTURES AND EQUIPMENT REMOVAL *(cont.)*

Methods to be used:

A. Equipment – List equipment required to complete identified task *(for large reclamation project sites or separate mine areas)*.

Equipment	$/Unit	# of Units	Cost ($)
Note: There are no plant structures or equipment requiring			0.00
removal ofthe mining operation. The equipment is mobile.			0.00
			0.00
			0.00
			0.00

Total Equipment Cost for This Task = $ 0.00

B. Labor – List all labor categories to complete identified task.

Labor Category	$/Unit (incl labor burden)	# of Units	Cost ($)
			0.00
			0.00
			0.00
			0.00
			0.00

Total Labor Cost for This Task = $ 0.00

C. Demolition – List all structures and equipment to be dismantled or demolished and removed from site.

Structure/Equipment to be Removed	Type of Material	Volume/ Quantity	Unit Cost Basis	Disposal Cost	Cost ($)
					0.00
					0.00
					0.00
					0.00
					0.00

Total Materials Cost for This Task = $ 0.00

D. Total Direct Cost of Structure and Equipment Removal (Sum of A+B+C).

Equipment Costs + Labor Cost + Demolition Cost = $ 0.00

E. Net Salvage Value* (Supported by properly prepared third party estimate, bid, or cost calculation.)

Net Salvage Value = $ _____

F. Total Cost of Structure and Equipment Removal (Subtract Line D from Line E).

Total Cost of Structure and Equipment Removal = $ 0.00

***NOTE**: Salvage value may only be used to offset the direct cost of removing the single item for which salvage value is being claimed. Salvage value shall not be used to offset any other demolition, general cleanup, or reclamation costs.

VI. PRIMARY RECLAMATION ACTIVITY: Finish grading and hydroseeding

(Describe reclamation activity being estimated)

Use multiple sheets as necessary to estimate the cost of each activity required. Provide documentation showing that rates, prices, and wages are available locally to the lead agency and/or the Department if necessary.

Current Site Conditions:

There are no plant structures or equipment requiring removal, all mining equipment is mobile.

Reclamation Plan Performance Standard (end use):

The proposed subsequent use for this property is to leave it in open space, and establish a condition similar to the surrounding open desert areas.

Describe Tasks, Methods, Equipment, etc.:

Decompaction, cut, fill, haul, slope reduction, compaction, grading, topsoil placement, drainage work, soil amendment, special requirements, etc. Separate sheets may be used for each task if necessary.

Task description: Regrade the re-contour area to a gradient no steeper than 4:1. Regrade and finish slopes to blend with the surrounding areas, including furrowing of slopes and ripping the pit floor and while maintaining the pre-existing drainage patterns. Methods to be used; A Cat d-8 dozer with ripper attachment will transverse the compacted areas to promote plant growth. A dozer and grader will grade available soil over the 57 acres. Production rate is estimated at 1 acre/hour.

Provide Quantities:

Overburden and topsoil, cut and fill, import or export (cubic yards), area (acres), haul distances (feet), equipment production rates (cubic yards/hour, or as applicable), etc.

Grading of the site will be done so as to balance the existing cut and fill, with no required import or export of materials.

VI. PRIMARY RECLAMATION ACTIVITY: Finish grading and hydroseeding (con't.)

(Describe reclamation activity being estimated)

Acres:	57	Overburden (cy):	
Haul distance (ft):		Topsoil (cy):	
Production rate (cy/hr):			

Methods to be used:

A. Equipment – List equipment required to complete identified task *(for large reclamation jobs separate mine areas).*

Equipment	$/Unit	# of Units	Cost ($)
Cat D-8L Dozer	193.39	40	7,735.60
Water Truck (60,000#)	70.62	30	2,118.60
Motor Grader (Cat 14H)	132.34	20	2,646.80
Lowbed Truck	79.48	8	635.84
Tilt Trailer	6.78	8	54.24
			0.00

Total Equipment Cost for this Task = $ 13,191.08

B. Labor – List all labor categories to complete identified task.

Labor Category	$/Unit	# of Units	Cost ($)
Operator II	126.15	90	11,353.50
Truck & Trailer Driver	31.58	8	252.64
			0.00
			0.00
			0.00
			0.00

Total Labor Cost for this Task = $ 11,606.14

C. Materials – List all materials required to complete identified task.

Item	Quantity	$/Unit (incl sales tax)	Cost ($)
N/A			0.00
			0.00
			0.00
			0.00
			0.00

Total Materials Cost for this Task = $ 0.00

D. Total Direct Cost for this Task

Equipment Costs + Labor Cost + Materials Cost = $ 24,797.22

VII. REVEGETATION *(use multiple sheets as needed)*

Provide documentation showing that rates, prices, and wages are available locally to all persons, including the lead agency and/or the Department.

Current Site Condition:

The site is currently a vacant, undeveloped, and sparsely vegetated property. The existing amount of disturbance from the mining operations is 57 acres. All existing slopes are stable at a 4:1 inclines and no greater than 25 feet in vertical height. All drainage is confined to the mined area. No drainage courses are diverted or blocked. There is one material stockpile on the site.

Reclamation Plan Performance Standard (end use):

The site will be used as open space.

Describe Tasks:

Distribute native plant mix over finished slopes, mine floor and disturbed areas. Seed mix will be distributed at a rate of 30 pounds per acre (57 net acres total) by broadcasting with an automatic pressure sprayer.

VII. REVEGETATION (Cont.)

Methods to be used:

A. Equipment – List equipment required to complete identified task. For large reclamation jobs, separate mine areas.

Equipment	$/Unit	# of Units	Cost ($)
Water Truck	70.62	8	564.96
Hydroseeder w/ seed mix	111,731.40	1	111,731.40
			0.00
			0.00
			0.00
			0.00

Total Equipment Cost for this Task = $ 112,296.36

B. Labor– List all labor categories to complete identified task.

Labor Category	$/Unit (incl labor burden)	# of Units	Cost ($)
Foreman	160.39	8	1,283.12
Laborer	102.61	24	2,462.64
			0.00
			0.00
			0.00

Total Labor Cost for this Task = $ 3,745.76

C. Materials – List all materials required to complete identified task.

Item/Plant Species	Unit of Measure	Quantity	$/Unit (incl sales tax)	Cost ($)
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00

Total Materials Cost for this Task = $ 0.00

D. Total Direct Cost for this Task

Equipment Costs + Labor Cost + Materials Cost = $ 116,042.12

VIII. MISCELLANEOUS COSTS *(use multiple sheets as needed)*

Provide documentation showing that rates, prices, and wages are available locally to all persons, including the lead agency and/or the Department.

Examples of this type of cost may include temporary storage of equipment and materials off site, special one-time permits (i.e.: transportation permits for extra wide overweight loads, etc.), decommissioning a process mill (i.e.: decontamination of equipment), disposal of warehouse inventories, well abandonment, remediation of fueling and waste oil storage sites, septic system removal, costs to prepare closure and monitoring reports, site security, preserving potable water and maintaining utilities, etc.

Item / Task	Quantity	$/Unit	Cost ($)
Report Preparation	32	160.39	5,132.48
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00

Total Miscellaneous Costs = $ 5,132.48

IX. MONITORING COSTS

Monitoring Task	$/Visit	# Visits/Year	# of Monitoring Years	Cost ($)
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00

Total Monitoring Costs = $ 0.00

X. SUMMARY OF COSTS

This section shall be used to summarize all the cost sheets in one place.

(V)	Total of all Plant Structures and Equipment Removal Costs	$ 0.00
(VI)	Total of all Primary Reclamation Activities Costs	$ 24,797.22
(VII)	Total of all Revegetation Costs	$ 116,042.12
(VIII)	Total of all Miscellaneous Costs	$ 5,132.48
(IX)	Total of all Monitoring Costs	$ 0.00
	Total of Direct Costs =	$ 145,971.82

XI. SUPERVISION / PROFIT AND OVERHEAD / CONTINGENCIES / MOBILIZATION

(A)	Supervision	(5.0 %)	$ 7,298.59
(B)	Profit/Overhead	(12.0 %)	$ 17,516.62
(C)	Contingencies	(10.0 %)	$ 14,597.18
(D)	Mobilization	(%)	$ 0.00
		Total of Indirect Costs =	$ 39,412.39
		Total of Direct and Indirect Costs =	$ 185,384.21
		Lead Agency and/or Department of Conservation Administrative Costs =	$ 18,066.00
		TOTAL ESTIMATED COST OF RECLAMATION =	$ 203,450.21

FINANCIAL ASSURANCE COST ESTIMATE

FOR

Mountain View Pit
(Mine Name)

CA Mine ID #: 91- 33-0051
Reclamation Plan # / Name: RP139/ Mountain View Pit

Prepared by:
(name and affiliation)

Eric R. Lohr
Riverside County
Transportation Department

Date: 10/31/2019

This financial assurance cost estimate prepared and submitted pursuant to *(choose one)*:

☐ A new or amended reclamation plan approved on: _____ *(date)*

☒ An annual mine inspection performed on: 09/12/2019 *(date)*

☐ Other, please specify: _____

Most recent approved financial assurance cost estimate

Date: 07/25/2017

Amount: $ 75,020.62

Amount of existing financial assurance mechanism(s)

Date: 07/25/2019

Amount: $ 75,020.62

I. SUPPORTING DOCUMENTS

This estimate represents the cost of conducting and completing reclamation in accordance with the Surface Mining and Reclamation Act (SMARA) and the following supporting documents:

Reclamation Plan Approval Date and Number:

RP139, February 09, 1993

Permits and/or Environmental Documents Approved as, or Conditioned Upon, the Reclamation Plan:

N/A

Other Agency Financial Assurances Securing Reclamation of Disturbed Lands:

N/A

Wage Rates Used in Cost Estimate*: *(cost estimates are required to use current 'General prevailing wage determinations made by the director of industrial relations' where applicable (http://www.dir.ca.gov/OPRL/PWD/index.htm) with employer labor burden added, or greater)*

Equipment Rates Used in Cost Estimate*: *(Use current 'Labor Surcharge and Equipment Rental Rates (Cost of Equipment Ownership)' equipment rates published by Caltrans (http://www.dot.ca.gov/hq/construc/equipmnt.html) or other publicly available and verifiable local rates)*

Labor rates were based on the current general prevailing wage rates issued by Caltrans Labor Surcharge and Equipment for 2019.

Equipment Production Rates used in Cost Estimate: *(Use of current Caterpillar Performance Handbook or equivalent published production rates is required)*

Equipment production rates were obtained from the Caterpillar Performance Handbook (Edition 42).

** Many mine sites are remote projects that require hours of travel (to and from) and sometimes require additional time to prepare for even the simplest of tasks. In accordance with Labor Code Sections 1773.1 and 1773.9, contractors are required to make travel and/or subsistence (per diem) payments to each worker to execute the work. These arrangements can be quite variable and site specific.*

Attachments:

N/A

II. DESCRIPTION OF CURRENT SITE CONDITIONS:

(i.e., disturbed acres, slope conditions, excavation depths, topsoil and overburden stockpiles, equipment and facilities, reclamation in progress, erosion control status, required corrective actions, etc.)

The existing amount of disturbance from the mining operations is 7 acres. All existing slopes are stable at a 2:1 inclines and no greater than 25 feet in vertical height. All drainage is confined to the mined area. No drainage courses are diverted or blocked. There is one material stockpile on the site.

III. DESCRIPTION OF ANTICIPATED SITE CONDITIONS (12 months from date of estimate):

(i.e., increase of disturbed acres, increase of depth, increases in amount of equipment and/or facilities, required corrective actions, etc.)

No increase of disturbed area or depth of mining site is anticipated over the next 12 months. Mining equipment being used is mobile, and will be transported from the site when seasonal mining activity has ceased.

IV. DESCRIPTION/JUSTIFICATION OF COST INCREASE/DECREASE:

A cost decrease in the FACE would only occur in the event that unit cost for either labor, equipment, or re-vegetation are realized.

(add additional pages as needed)

V. PLANT STRUCTURES AND EQUIPMENT REMOVAL: *(use multiple sheets as needed)*

Provide documentation showing that rates, prices, and wages are available locally to all persons, including the lead agency and/or the Department.

Current Site Condition:

The site is mined periodically throughout the year to meet the demands of County projects and maintenance of roadways, using a mobile screen plant and stacker with a front end loader. There are periods throughout the year that the site remains vacant and no mining activity takes place.

Reclamation Plan Performance Standard *(end use)*:

The proposed subsequent use for this property is a paved road.

Describe Tasks:

The site will consist of a roadway with an adjacent 2:1 back slope. The intent is to leave the site in a safe and stable condition. At the completion of the mining operation the site will perpetuate the existing drainage patterns. Overburden will be used onsite with the final design, no material will be imported or exported. All refuse will be removed from the site. Erosion control will used through the installation of drought tolerant, native landscaping on all slopes and flat areas, and construction of drainage control

Equipment on Site Wholly Owned by Operator? ☒YES ☐NO

(If no, please provide the name(s) and contact information for any lien holder)

N/A

V. PLANT STRUCTURES AND EQUIPMENT REMOVAL *(cont.)*

Methods to be used:

A. Equipment – List equipment required to complete identified task *(for large reclamation project sites or separate mine areas).*

Equipment	$/Unit	# of Units	Cost ($)
Note: There are no plant structures or equipment requiring			0.00
removal ofthe mining operation. The equipment is mobile.			0.00
			0.00
			0.00
			0.00

Total Equipment Cost for This Task = $ 0.00

B. Labor – List all labor categories to complete identified task.

Labor Category	$/Unit (incl labor burden)	# of Units	Cost ($)
			0.00
			0.00
			0.00
			0.00
			0.00

Total Labor Cost for This Task = $ 0.00

C. Demolition – List all structures and equipment to be dismantled or demolished and removed from site.

Structure/Equipment to be Removed	Type of Material	Volume/ Quantity	Unit Cost Basis	Disposal Cost	Cost ($)
					0.00
					0.00
					0.00
					0.00
					0.00

Total Materials Cost for This Task = $ 0.00

D. Total Direct Cost of Structure and Equipment Removal (Sum of A+B+C).

Equipment Costs + Labor Cost + Demolition Cost = $ 0.00

E. Net Salvage Value* (Supported by properly prepared third party estimate, bid, or cost calculation.)

Net Salvage Value = $ _____

F. Total Cost of Structure and Equipment Removal (Subtract Line D from Line E).

Total Cost of Structure and Equipment Removal = $ 0.00

***NOTE**: Salvage value may only be used to offset the direct cost of removing the single item for which salvage value is being claimed. Salvage value shall not be used to offset any other demolition, general cleanup, or reclamation costs.

VI. PRIMARY RECLAMATION ACTIVITY: Finish grading and hydroseeding

(Describe reclamation activity being estimated)

Use multiple sheets as necessary to estimate the cost of each activity required. Provide documentation showing that rates, prices, and wages are available locally to the lead agency and/or the Department if necessary.

Current Site Conditions:

There are no plant structures or equipment requiring removal, all mining equipment is mobile.

Reclamation Plan Performance Standard (end use):

The proposed subsequent use for this property is a paved road.

Describe Tasks, Methods, Equipment, etc.:

Decompaction, cut, fill, haul, slope reduction, compaction, grading, topsoil placement, drainage work, soil amendment, special requirements, etc. Separate sheets may be used for each task if necessary.

Task description: Regrade the re-contour area to a gradient no steeper than 2:1. Regrade and finish slopes to blend with the surrounding areas, including furrowing of slopes and ripping the pit floor and while maintaining the pre-existing drainage patterns. Methods to be used; A Cat d-8 dozer with ripper attachment will transverse the compacted areas to promote plant growth. A dozer and grader will grade available soil over the 7 acres. Production rate is estimated at 1 acre/hour.

Provide Quantities:

Overburden and topsoil, cut and fill, import or export (cubic yards), area (acres), haul distances (feet), equipment production rates (cubic yards/hour, or as applicable), etc.

Grading of the site will be done so as to balance the existing cut and fill, with no required import or export of materials.

VI. PRIMARY RECLAMATION ACTIVITY: Finish grading and hydroseeding (con't.)

(Describe reclamation activity being estimated)

Acres:	7	Overburden (cy):	
Haul distance (ft):		Topsoil (cy):	
Production rate (cy/hr):			

Methods to be used:

A. Equipment – List equipment required to complete identified task *(for large reclamation jobs separate mine areas)*.

Equipment	$/Unit	# of Units	Cost ($)
CAt D-8L Dozer	193.39	8	1,547.12
Water Truck (60,000#)	70.62	8	564.96
Lowbed Truck	79.48	4	317.92
Tilt Trailer	6.78	4	27.12
			0.00
			0.00

Total Equipment Cost for this Task = $ 2,457.12

B. Labor – List all labor categories to complete identified task.

Labor Category	$/Unit	# of Units	Cost ($)
Operator II	126.15	16	2,018.40
Truck & Trailer Driver	31.58	4	126.32
			0.00
			0.00
			0.00
			0.00

Total Labor Cost for this Task = $ 2,144.72

C. Materials – List all materials required to complete identified task.

Item	Quantity	$/Unit (incl sales tax)	Cost ($)
Interceptor Drain	1500	15.00	22,500.00
Rip Rap Pad	2	1,000.00	2,000.00
			0.00
			0.00
			0.00

Total Materials Cost for this Task = $ 24,500.00

D. Total Direct Cost for this Task

Equipment Costs + Labor Cost + Materials Cost = $ 29,101.84

VII. REVEGETATION *(use multiple sheets as needed)*

Provide documentation showing that rates, prices, and wages are available locally to all persons, including the lead agency and/or the Department.

Current Site Condition:

The site is currently a vacant, undeveloped, and sparsely vegetated property. The existing amount of disturbance from the mining operations is 7 acres. All existing slopes are stable at a 2:1 inclines and no greater than 25 feet in vertical height. All drainage is confined to the mined area. No drainage courses are diverted or blocked. There is one material stockpile on the site.

Reclamation Plan Performance Standard (end use):

The proposed subsequent use for this property is a paved road.

Describe Tasks:

Distribute native plant mix over finished slopes, mine floor and disturbed areas. Seed mix will be distributed at a rate of 30 pounds per acre (7 net acres total) by broadcasting with an automatic pressure sprayer.

VII. REVEGETATION (Cont.)

Methods to be used:

A. Equipment – List equipment required to complete identified task. For large reclamation jobs, separate mine areas.

Equipment	$/Unit	# of Units	Cost ($)
Water Truck	70.62	8	564.96
Hydroseeder w/ seed mix	15,246.00	1	15,246.00
			0.00
			0.00
			0.00
			0.00

Total Equipment Cost for this Task = $ 15,810.96

B. Labor– List all labor categories to complete identified task.

Labor Category	$/Unit (incl labor burden)	# of Units	Cost ($)
Foreman	160.39	8	1,283.12
Laborer (3 ea.)	102.61	24	2,462.64
			0.00
			0.00
			0.00

Total Labor Cost for this Task = $ 3,745.76

C. Materials – List all materials required to complete identified task.

Item/Plant Species	Unit of Measure	Quantity	$/Unit (incl sales tax)	Cost ($)
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00

Total Materials Cost for this Task = $ 0.00

D. Total Direct Cost for this Task

Equipment Costs + Labor Cost + Materials Cost = $ 19,556.72

VIII. MISCELLANEOUS COSTS *(use multiple sheets as needed)*

Provide documentation showing that rates, prices, and wages are available locally to all persons, including the lead agency and/or the Department.

Examples of this type of cost may include temporary storage of equipment and materials off site, special one-time permits (i.e.: transportation permits for extra wide overweight loads, etc.), decommissioning a process mill (i.e.: decontamination of equipment), disposal of warehouse inventories, well abandonment, remediation of fueling and waste oil storage sites, septic system removal, costs to prepare closure and monitoring reports, site security, preserving potable water and maintaining utilities, etc.

Item / Task	Quantity	$/Unit	Cost ($)
Report Preparation	32	160.39	5,132.48
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00

Total Miscellaneous Costs = $ 5,132.48

IX. MONITORING COSTS

Monitoring Task	$/Visit	# Visits/Year	# of Monitoring Years	Cost ($)
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00

Total Monitoring Costs = $ 0.00

X. SUMMARY OF COSTS

This section shall be used to summarize all the cost sheets in one place.

(V)	Total of all Plant Structures and Equipment Removal Costs	$ 0.00
(VI)	Total of all Primary Reclamation Activities Costs	$ 29,101.84
(VII)	Total of all Revegetation Costs	$ 19,556.72
(VIII)	Total of all Miscellaneous Costs	$ 5,132.48
(IX)	Total of all Monitoring Costs	$ 0.00
	Total of Direct Costs =	$ 53,791.04

XI. SUPERVISION / PROFIT AND OVERHEAD / CONTINGENCIES / MOBILIZATION

(A)	Supervision	(5.0 %)	$ 2,689.55
(B)	Profit/Overhead	(12.0 %)	$ 6,454.92
(C)	Contingencies	(10.0 %)	$ 5,379.10
(D)	Mobilization	(%)	$ 0.00
		Total of Indirect Costs =	$ 14,523.58
		Total of Direct and Indirect Costs =	$ 68,314.62
		Lead Agency and/or Department of Conservation Administrative Costs =	$ 6,706.00
		TOTAL ESTIMATED COST OF RECLAMATION =	$ 75,020.62

FINANCIAL ASSURANCE COST ESTIMATE

FOR

Terwilleger Pit
(Mine Name)

CA Mine ID #: 91- 33-0047
Reclamation Plan # / Name: RP148/ Terwilleger Pit

Prepared by:
(name and affiliation)

Eric R. Lohr
Riverside County
Transportation Department

Date: 12/09/2019

This financial assurance cost estimate prepared and submitted pursuant to *(choose one)*:

☐ A new or amended reclamation plan approved on: _____ *(date)*

☒ An annual mine inspection performed on: 11/04/2019 *(date)*

☐ Other, please specify: _____

Most recent approved financial assurance cost estimate

Date: 07/25/2017

Amount: $ 22,785.66

Amount of existing financial assurance mechanism(s)

Date: 07/25/2019

Amount: $ 22,785.66

I. SUPPORTING DOCUMENTS

This estimate represents the cost of conducting and completing reclamation in accordance with the Surface Mining and Reclamation Act (SMARA) and the following supporting documents:

Reclamation Plan Approval Date and Number:

RP148, May 08, 1995

Permits and/or Environmental Documents Approved as, or Conditioned Upon, the Reclamation Plan:

N/A

Other Agency Financial Assurances Securing Reclamation of Disturbed Lands:

N/A

Wage Rates Used in Cost Estimate*: *(cost estimates are required to use current 'General prevailing wage determinations made by the director of industrial relations' where applicable (http://www.dir.ca.gov/OPRL/PWD/index.htm) with employer labor burden added, or greater)*

Equipment Rates Used in Cost Estimate*: *(Use current 'Labor Surcharge and Equipment Rental Rates (Cost of Equipment Ownership)' equipment rates published by Caltrans (http://www.dot.ca.gov/hq/construc/equipmnt.html) or other publicly available and verifiable local rates)*

Labor rates were based on the current general prevailing wage rates issued by Caltrans Labor Surcharge and Equipment for 2019.

Equipment Production Rates used in Cost Estimate: *(Use of current Caterpillar Performance Handbook or equivalent published production rates is required)*

Equipment production rates were obtained from the Caterpillar Performance Handbook (Edition 42).

** Many mine sites are remote projects that require hours of travel (to and from) and sometimes require additional time to prepare for even the simplest of tasks. In accordance with Labor Code Sections 1773.1 and 1773.9, contractors are required to make travel and/or subsistence (per diem) payments to each worker to execute the work. These arrangements can be quite variable and site specific.*

Attachments:

N/A

II. DESCRIPTION OF CURRENT SITE CONDITIONS:

(i.e., disturbed acres, slope conditions, excavation depths, topsoil and overburden stockpiles, equipment and facilities, reclamation in progress, erosion control status, required corrective actions, etc.)

The existing amount of disturbance from the mining operations is 10 acres. All existing slopes are stable with hydroseeding and fiber rolls at a 4:1 inclines and no greater than 25 feet in vertical height. All drainage is graded per the Reclamation Plan. No drainage courses are diverted or blocked. There is no stockpiled material on the site.

III. DESCRIPTION OF ANTICIPATED SITE CONDITIONS (12 months from date of estimate):

(i.e., increase of disturbed acres, increase of depth, increases in amount of equipment and/or facilities, required corrective actions, etc.)

No increase of disturbed area or depth of mining site is anticipated over the next 12 months. Mining equipment has been demobilized and mining activity has permanently ceased, with no intent to return.

IV. DESCRIPTION/JUSTIFICATION OF COST INCREASE/DECREASE:

A cost decrease in the FACE would only occur in the event that unit cost for either labor, equipment, or re-vegetation are realized.

(add additional pages as needed)

V. PLANT STRUCTURES AND EQUIPMENT REMOVAL: *(use multiple sheets as needed)*

Provide documentation showing that rates, prices, and wages are available locally to all persons, including the lead agency and/or the Department.

Current Site Condition:

The site has been hydroseeded and fiber rolls are placed. The vegetation is showing strong growth. All mining equipment has been demobilized with no intent to return.

Reclamation Plan Performance Standard (*end use*):

The proposed subsequent use for this property is to use the property as a road maintenance and equipment storage facility for the Anza area.

Describe Tasks:

The site has been graded per the Reclamation Plan. The site in a safe state. The slopes are excavated per the Reclamation Plan. Slopes are graded to be stable and maintain the pre-existing drainage patterns. All refuse has been removed from the site. Erosion control is in place through the installation of drought tolerant, native landscaping on all slopes and flat areas, and the construction of drainage control structures where water drains off-site.

Equipment on Site Wholly Owned by Operator? ☒YES ☐NO

(If no, please provide the name(s) and contact information for any lien holder)

N/A

V. PLANT STRUCTURES AND EQUIPMENT REMOVAL *(cont.)*

Methods to be used:

A. Equipment – List equipment required to complete identified task *(for large reclamation project sites or separate mine areas)*.

Equipment	$/Unit	# of Units	Cost ($)
Note: All equipment is removed.			0.00
			0.00
			0.00
			0.00
			0.00

Total Equipment Cost for This Task = $ 0.00

B. Labor – List all labor categories to complete identified task.

Labor Category	$/Unit (incl labor burden)	# of Units	Cost ($)
			0.00
			0.00
			0.00
			0.00
			0.00

Total Labor Cost for This Task = $ 0.00

C. Demolition – List all structures and equipment to be dismantled or demolished and removed from site.

Structure/Equipment to be Removed	Type of Material	Volume/ Quantity	Unit Cost Basis	Disposal Cost	Cost ($)
No structures to be removed.					0.00
					0.00
					0.00
					0.00
					0.00

Total Materials Cost for This Task = $ 0.00

D. Total Direct Cost of Structure and Equipment Removal (Sum of A+B+C).

Equipment Costs + Labor Cost + Demolition Cost = $ 0.00

E. Net Salvage Value* (Supported by properly prepared third party estimate, bid, or cost calculation.)

Net Salvage Value = $ _____

F. Total Cost of Structure and Equipment Removal (Subtract Line D from Line E).

Total Cost of Structure and Equipment Removal = $ 0.00

***NOTE**: Salvage value may only be used to offset the direct cost of removing the single item for which salvage value is being claimed. Salvage value shall not be used to offset any other demolition, general cleanup, or reclamation costs.

VI. PRIMARY RECLAMATION ACTIVITY: Finish grading and hydroseeding

(Describe reclamation activity being estimated)

Use multiple sheets as necessary to estimate the cost of each activity required. Provide documentation showing that rates, prices, and wages are available locally to the lead agency and/or the Department if necessary.

Current Site Conditions:

There are no plant structures or equipment requiring removal, all mining equipment is mobile and removed.

Reclamation Plan Performance Standard (end use):

The proposed subsequent use for this property is to use the property as a road maintenance and equipment storage facility for the Anza area.

Describe Tasks, Methods, Equipment, etc.:

Decompaction, cut, fill, haul, slope reduction, compaction, grading, topsoil placement, drainage work, soil amendment, special requirements, etc. Separate sheets may be used for each task if necessary.

Task description: All final grading, plant establishment, BMPs, trash removal is complete. This site is closed and the work on th Reclamation Plan is complete.

Provide Quantities:

Overburden and topsoil, cut and fill, import or export (cubic yards), area (acres), haul distances (feet), equipment production rates (cubic yards/hour, or as applicable), etc.

N/A

VI. PRIMARY RECLAMATION ACTIVITY: Finish grading and hydroseeding (con't.)

(Describe reclamation activity being estimated)

Acres:	10	Overburden (cy):	
Haul distance (ft):		Topsoil (cy):	
Production rate (cy/hr):			

Methods to be used:

A. Equipment – List equipment required to complete identified task *(for large reclamation jobs separate mine areas)*.

Equipment	$/Unit	# of Units	Cost ($)
N/A			0.00
			0.00
			0.00
			0.00
			0.00
			0.00

Total Equipment Cost for this Task = $ 0.00

B. Labor – List all labor categories to complete identified task.

Labor Category	$/Unit	# of Units	Cost ($)
N/A			0.00
			0.00
			0.00
			0.00
			0.00
			0.00

Total Labor Cost for this Task = $ 0.00

C. Materials – List all materials required to complete identified task.

Item	Quantity	$/Unit (incl sales tax)	Cost ($)
N/A			0.00
			0.00
			0.00
			0.00
			0.00

Total Materials Cost for this Task = $ 0.00

D. Total Direct Cost for this Task

Equipment Costs + Labor Cost + Materials Cost = $ 0.00

VII. REVEGETATION *(use multiple sheets as needed)*

Provide documentation showing that rates, prices, and wages are available locally to all persons, including the lead agency and/or the Department.

Current Site Condition:

The site is currently a vacant, undeveloped, and sparsely vegetated property. The existing amount of disturbance from the mining operations is 10 acres. All slopes are stable and graded per the Reclamation Plan. All drainage is completed per the Reclamation Plan. No drainage courses are diverted or blocked. There are no stockpiled material on the site. The site is being utuilized as a road maintenance and equipment storage facility.

Reclamation Plan Performance Standard (end use):

The site is being used as a road maintenance and equipment storage facility for the Anza area.

Describe Tasks:

Distribute native plant mix over finished slopes, mine floor and disturbed areas. Seed mix will be distributed at a rate of 30 pounds per acre (323 net acres total) by broadcasting with an automatic pressure sprayer. This work is completed per the Reclamation Plan.

VII. REVEGETATION (Cont.)

Methods to be used:

A. Equipment – List equipment required to complete identified task. For large reclamation jobs, separate mine areas.

Equipment	$/Unit	# of Units	Cost ($)
Water Truck (60,000#)	70.62	3	211.86
Hydroseed	15,000.00	1	15,000.00
			0.00
			0.00
			0.00
			0.00

Total Equipment Cost for this Task = $ 15,211.86

B. Labor– List all labor categories to complete identified task.

Labor Category	$/Unit (incl labor burden)	# of Units	Cost ($)
			0.00
			0.00
			0.00
			0.00
			0.00

Total Labor Cost for this Task = $ 0.00

C. Materials – List all materials required to complete identified task.

Item/Plant Species	Unit of Measure	Quantity	$/Unit (incl sales tax)	Cost ($)
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00

Total Materials Cost for this Task = $ 0.00

D. Total Direct Cost for this Task

Equipment Costs + Labor Cost + Materials Cost = $ 15,211.86

VIII. MISCELLANEOUS COSTS *(use multiple sheets as needed)*

Provide documentation showing that rates, prices, and wages are available locally to all persons, including the lead agency and/or the Department.

Examples of this type of cost may include temporary storage of equipment and materials off site, special one-time permits (i.e.: transportation permits for extra wide overweight loads, etc.), decommissioning a process mill (i.e.: decontamination of equipment), disposal of warehouse inventories, well abandonment, remediation of fueling and waste oil storage sites, septic system removal, costs to prepare closure and monitoring reports, site security, preserving potable water and maintaining utilities, etc.

Item / Task	Quantity	$/Unit	Cost ($)
Report Preparation	32	160.39	5,132.48
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00

Total Miscellaneous Costs = $ 5,132.48

IX. MONITORING COSTS

Monitoring Task	$/Visit	# Visits/Year	# of Monitoring Years	Cost ($)
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00

Total Monitoring Costs = $ 0.00

X. SUMMARY OF COSTS

This section shall be used to summarize all the cost sheets in one place.

(V)	Total of all Plant Structures and Equipment Removal Costs	$ 0.00
(VI)	Total of all Primary Reclamation Activities Costs	$ 0.00
(VII)	Total of all Revegetation Costs	$ 15,211.86
(VIII)	Total of all Miscellaneous Costs	$ 5,132.48
(IX)	Total of all Monitoring Costs	$ 0.00
	Total of Direct Costs =	$ 20,344.34

XI. SUPERVISION / PROFIT AND OVERHEAD / CONTINGENCIES / MOBILIZATION

(A)	Supervision	(_____ %)	$ 0.00
(B)	Profit/Overhead	(12.0 %)	$ 2,441.32
(C)	Contingencies	(_____ %)	$ 0.00
(D)	Mobilization	(_____ %)	$ 0.00
		Total of Indirect Costs =	$ 2,441.32
		Total of Direct and Indirect Costs =	$ 22,785.66
		Lead Agency and/or Department of Conservation Administrative Costs =	$ 0.00
		TOTAL ESTIMATED COST OF RECLAMATION =	$ 22,785.66

FINANCIAL ASSURANCE COST ESTIMATE

FOR

Thermal Canyon Material Site
(Mine Name)

CA Mine ID #: 91- 33-0090
Reclamation Plan # / Name: RP154/ Thermal Canyon Mat

Prepared by:
(name and affiliation)

Eric R. Lohr
Riverside County
Transportation Department

Date: 10/31/2019

This financial assurance cost estimate prepared and submitted pursuant to *(choose one)*:

☐ A new or amended reclamation plan approved on: _____ *(date)*

☒ An annual mine inspection performed on: 09/12/2019 *(date)*

☐ Other, please specify: _____

Most recent approved financial assurance cost estimate

Date: 07/25/2017

Amount: $ 222,096.57

Amount of existing financial assurance mechanism(s)

Date: 07/25/2019

Amount: $ 222,096.57

I. SUPPORTING DOCUMENTS

This estimate represents the cost of conducting and completing reclamation in accordance with the Surface Mining and Reclamation Act (SMARA) and the following supporting documents:

Reclamation Plan Approval Date and Number:

RP154, June 06, 2019

Permits and/or Environmental Documents Approved as, or Conditioned Upon, the Reclamation Plan:

N/A

Other Agency Financial Assurances Securing Reclamation of Disturbed Lands:

N/A

Wage Rates Used in Cost Estimate*: *(cost estimates are required to use current 'General prevailing wage determinations made by the director of industrial relations' where applicable (http://www.dir.ca.gov/OPRL/PWD/index.htm) with employer labor burden added, or greater)*

Equipment Rates Used in Cost Estimate*: *(Use current 'Labor Surcharge and Equipment Rental Rates (Cost of Equipment Ownership)' equipment rates published by Caltrans (http://www.dot.ca.gov/hq/construc/equipmnt.html) or other publicly available and verifiable local rates)*

Labor rates were based on the current general prevailing wage rates issued by Caltrans Labor Surcharge and Equipment for 2019.

Equipment Production Rates used in Cost Estimate: *(Use of current Caterpillar Performance Handbook or equivalent published production rates is required)*

Equipment production rates were obtained from the Caterpillar Performance Handbook (Edition 42).

** Many mine sites are remote projects that require hours of travel (to and from) and sometimes require additional time to prepare for even the simplest of tasks. In accordance with Labor Code Sections 1773.1 and 1773.9, contractors are required to make travel and/or subsistence (per diem) payments to each worker to execute the work. These arrangements can be quite variable and site specific.*

Attachments:

N/A

II. DESCRIPTION OF CURRENT SITE CONDITIONS:

(i.e., disturbed acres, slope conditions, excavation depths, topsoil and overburden stockpiles, equipment and facilities, reclamation in progress, erosion control status, required corrective actions, etc.)

The existing amount of disturbance from the mining operations is 32 acres. All existing slopes are stable at a 4:1 inclines and no greater than 25 feet in vertical height. All drainage is confined to the mined area. No drainage courses are diverted or blocked. There is one material stockpile on the site.

III. DESCRIPTION OF ANTICIPATED SITE CONDITIONS (12 months from date of estimate):

(i.e., increase of disturbed acres, increase of depth, increases in amount of equipment and/or facilities, required corrective actions, etc.)

No increase of disturbed area or depth of mining site is anticipated over the next 12 months. Mining equipment being used is mobile, and will be transported from the site when seasonal mining activity has ceased.

IV. DESCRIPTION/JUSTIFICATION OF COST INCREASE/DECREASE:

A cost decrease in the FACE would only occur in the event that unit cost for either labor, equipment, or re-vegetation are realized.

(add additional pages as needed)

V. PLANT STRUCTURES AND EQUIPMENT REMOVAL: *(use multiple sheets as needed)*

Provide documentation showing that rates, prices, and wages are available locally to all persons, including the lead agency and/or the Department.

Current Site Condition:

The site is mined periodically throughout the year to meet the demands of County projects and maintenance of roadways, using a mobile screen plant and stacker with a front end loader. There are periods throughout the year that the site remains vacant and no mining activity takes place.

Reclamation Plan Performance Standard (*end use*):

The proposed subsequent use for this property is to leave it in open space, and establish a condition similar to the surrounding open desert areas.

Describe Tasks:

The site will consist of a single pit with 4:1 side slopes. The intent is to leave the site in a safe state. The slopes will be excavated to a maximum of 4:1 slopes. Slopes will be graded to be stable and maintain the pre-existing drainage patterns. All refuse will be removed from the site. Erosion control will used through the installation of drought tolerant, native landscaping on all slopes and flat areas, and construction of drainage control structures where water drains off-site.

Equipment on Site Wholly Owned by Operator? ☒YES ☐NO

(If no, please provide the name(s) and contact information for any lien holder)

N/A

V. PLANT STRUCTURES AND EQUIPMENT REMOVAL *(cont.)*

Methods to be used:

A. Equipment – List equipment required to complete identified task *(for large reclamation project sites or separate mine areas)*.

Equipment	$/Unit	# of Units	Cost ($)
Note: Disassemble a wooden building within compound area			0.00
Truck & Trailer	79.48	8	635.84
			0.00
			0.00
			0.00

Total Equipment Cost for This Task = $ 635.84

B. Labor – List all labor categories to complete identified task.

Labor Category	$/Unit (incl labor burden)	# of Units	Cost ($)
Foreman	160.39	8	1,283.12
Laborer	102.61	8	820.88
Remove concrete foundation	2,500.00	1	2,500.00
Truck & Trailer operator	122.88	8	983.04
			0.00

Total Labor Cost for This Task = $ 5,587.04

C. Demolition – List all structures and equipment to be dismantled or demolished and removed from site.

Structure/Equipment to be Removed	Type of Material	Volume/ Quantity	Unit Cost Basis	Disposal Cost	Cost ($)
Wooden structure	wood	1		2,500.00	2,500.00
					0.00
					0.00
					0.00
					0.00

Total Materials Cost for This Task = $ 2,500.00

D. Total Direct Cost of Structure and Equipment Removal (Sum of A+B+C).

Equipment Costs + Labor Cost + Demolition Cost = $ 8,722.88

E. Net Salvage Value* (Supported by properly prepared third party estimate, bid, or cost calculation.)

Net Salvage Value = $

F. Total Cost of Structure and Equipment Removal (Subtract Line D from Line E).

Total Cost of Structure and Equipment Removal = $ 8,722.88

*NOTE: Salvage value may only be used to offset the direct cost of removing the single item for which salvage value is being claimed. Salvage value shall not be used to offset any other demolition, general cleanup, or reclamation costs.

VI. PRIMARY RECLAMATION ACTIVITY: Finish grading and hydroseeding

(Describe reclamation activity being estimated)

Use multiple sheets as necessary to estimate the cost of each activity required. Provide documentation showing that rates, prices, and wages are available locally to the lead agency and/or the Department if necessary.

Current Site Conditions:

There are no plant structures or equipment requiring removal, all mining equipment is mobile.

Reclamation Plan Performance Standard (end use):

The proposed subsequent use for this property is to leave it in open space, and establish a condition similar to the surrounding open desert areas.

Describe Tasks, Methods, Equipment, etc.:

Decompaction, cut, fill, haul, slope reduction, compaction, grading, topsoil placement, drainage work, soil amendment, special requirements, etc. Separate sheets may be used for each task if necessary.

Task description: Regrade the re-contour area to a gradient no steeper than 4:1. Regrade and finish slopes to blend with the surrounding areas, including furrowing of slopes and ripping the pit floor and while maintaining the pre-existing drainage patterns. Grade the floor to a 2% grade. Methods to be used; A Cat D-8 dozer with ripper attachment will transverse the compacted areas to promote plant growth. A dozer and grader will grade available soil over the 32 acres. Production rate is estimated at 2 acre/hour.

Provide Quantities:

Overburden and topsoil, cut and fill, import or export (cubic yards), area (acres), haul distances (feet), equipment production rates (cubic yards/hour, or as applicable), etc.

Grading of the site will be done so as to balance the existing cut and fill, with no required import or export of materials.

VI. PRIMARY RECLAMATION ACTIVITY: Finish grading and hydroseeding (con't.)

(Describe reclamation activity being estimated)

Acres:	32	Overburden (cy):	
Haul distance (ft):		Topsoil (cy):	
Production rate (cy/hr):			

Methods to be used:

A. Equipment – List equipment required to complete identified task *(for large reclamation jobs separate mine areas)*.

Equipment	$/Unit	# of Units	Cost ($)
Cat D-8L Dozer (2 ea.)	182.46	42	7,663.32
Water Truck (60,000#)	69.31	40	2,772.40
Motor Grader (Cat 14H)	88.42	40	3,536.80
Lowbed Truck	76.67	8	613.36
Lowbed Trailer (8 tires per axle)	24.06	8	192.48
			0.00

Total Equipment Cost for this Task = $ 14,778.36

B. Labor – List all labor categories to complete identified task.

Labor Category	$/Unit	# of Units	Cost ($)
Operator II	126.15	122	15,390.30
Truck & Trailer Driver	122.88	8	983.04
			0.00
			0.00
			0.00
			0.00

Total Labor Cost for this Task = $ 16,373.34

C. Materials – List all materials required to complete identified task.

Item	Quantity	$/Unit (incl sales tax)	Cost ($)
N/A			0.00
			0.00
			0.00
			0.00
			0.00

Total Materials Cost for this Task = $ 0.00

D. Total Direct Cost for this Task

Equipment Costs + Labor Cost + Materials Cost = $ 31,151.70

VII. REVEGETATION *(use multiple sheets as needed)*

Provide documentation showing that rates, prices, and wages are available locally to all persons, including the lead agency and/or the Department.

Current Site Condition:

The site is currently a vacant, undeveloped, and sparsely vegetated property. The existing amount of disturbance from the mining operations is 32 acres. All existing slopes are stable at a 4:1 inclines and no greater than 25 feet in vertical height. All drainage is confined to the mined area. No drainage courses are diverted or blocked. There is one material stockpile on the site.

Reclamation Plan Performance Standard (end use):

The site will be used as open space.

Describe Tasks:

Distribute native plant mix over finished slopes, mine floor and disturbed areas. Seed mix will be distributed at a rate of 30 pounds per acre (32 net acres total) by broadcasting with an automatic pressure sprayer.

VII. REVEGETATION (Cont.)

Methods to be used:

A. Equipment – List equipment required to complete identified task. For large reclamation jobs, separate mine areas.

Equipment	$/Unit	# of Units	Cost ($)
Water Truck (60,000#)	70.62	8	564.96
Hydroseeder w/ seed mix	110,119.68	1	110,119.68
			0.00
			0.00
			0.00
			0.00

Total Equipment Cost for this Task = $ 110,684.64

B. Labor– List all labor categories to complete identified task.

Labor Category	$/Unit (Incl labor burden)	# of Units	Cost ($)
Foreman	160.39	8	1,283.12
Laborer (2 ea.)	102.61	24	2,462.64
			0.00
			0.00
			0.00

Total Labor Cost for this Task = $ 3,745.76

C. Materials – List all materials required to complete identified task.

Item/Plant Species	Unit of Measure	Quantity	$/Unit (incl sales tax)	Cost ($)
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00

Total Materials Cost for this Task = $ 0.00

D. Total Direct Cost for this Task

Equipment Costs + Labor Cost + Materials Cost = $ 114,430.40

VIII. MISCELLANEOUS COSTS *(use multiple sheets as needed)*

Provide documentation showing that rates, prices, and wages are available locally to all persons, including the lead agency and/or the Department.

Examples of this type of cost may include temporary storage of equipment and materials off site, special one-time permits (i.e.: transportation permits for extra wide overweight loads, etc.), decommissioning a process mill (i.e.: decontamination of equipment), disposal of warehouse inventories, well abandonment, remediation of fueling and waste oil storage sites, septic system removal, costs to prepare closure and monitoring reports, site security, preserving potable water and maintaining utilities, etc.

Item / Task	Quantity	$/Unit	Cost ($)
Report Preparation	32	160.39	5,132.48
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00

Total Miscellaneous Costs = $ 5,132.48

IX. MONITORING COSTS

Monitoring Task	$/Visit	# Visits/Year	# of Monitoring Years	Cost ($)
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00

Total Monitoring Costs = $ 0.00

X. SUMMARY OF COSTS

This section shall be used to summarize all the cost sheets in one place.

(V)	Total of all Plant Structures and Equipment Removal Costs	$ 8,722.88
(VI)	Total of all Primary Reclamation Activities Costs	$ 31,151.70
(VII)	Total of all Revegetation Costs	$ 114,430.40
(VIII)	Total of all Miscellaneous Costs	$ 5,132.48
(IX)	Total of all Monitoring Costs	$ 0.00
	Total of Direct Costs =	$ 159,437.46

XI. SUPERVISION / PROFIT AND OVERHEAD / CONTINGENCIES / MOBILIZATION

(A)	Supervision	(5.0 %)	$ 7,971.87
(B)	Profit/Overhead	(12.0 %)	$ 19,132.50
(C)	Contingencies	(10.0 %)	$ 15,943.75
(D)	Mobilization	(%)	$ 0.00
		Total of Indirect Costs =	$ 43,048.11
		Total of Direct and Indirect Costs =	$ 202,485.57
		Lead Agency and/or Department of Conservation Administrative Costs =	$ 19,611.00
		TOTAL ESTIMATED COST OF RECLAMATION =	$ 222,096.57