

FINANCIAL ASSURANCE COST ESTIMATE  
FOR

Timberhitch Mine

(Mine Name)

CA Mine ID # 91- 47-0055

Reclamation Plan #/Name RP-79-31 / UP-79-31

Prepared by: (Name & Affiliation):

Bernadette Cizin  
Assistant Planner  
Siskiyou County Community  
Development Department

06/14/2022 updated

Date: 06/07/2022-

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  
(Date): \_\_\_\_\_

☒ Other: Please Specify:  
Determination of Financial Capability

Most Recent Approved Financial Assurance Cost Estimate

Date: 05/06/2013

Amount: \$ 2054.25

Amount of existing Financial Assurance Mechanism(s)

Date: 05/28/2019

Amount: \$ 3347.09

## **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**

August 1, 1979 RP-79-31

### **Permits and/or Environmental Documents Approved as, or Conditioned upon, the Reclamation Plan**

UP-79-31

### **Other Agency Financial Assurances Securing Reclamation of Disturbed Lands**

### **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 surcharge added, or greater)*

Director of Industrial Relations Prevailing Wage Rates

### **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)*

CalTrans current equipment rental rates

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

Caterpillar Performance Handbook was utilized in estimating the production rates of the equipment proposed to be used in reclamation.

\* 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:**

## **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.)*

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Approximately 15.5 acres total of disturbed area remains subject to reclamation (including area in both the West and East sites). Natural revegetation has occurred throughout the site with the exception to the stockpiles.

## **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.)*

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Minor increase in disturbed acres. In order to access locations of mined area that require filling and grading, there will be some newly disturbed land. All stockpiles and equipment will be removed.

## **IV. Description/Justification of Cost Increase/Decrease**

This estimate is significantly higher than the most recently approved FACE being as the operator has not submitted an acceptable cost estimate since 2013.

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*(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:**

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Abandoned equipment, tires, concrete blocks and miscellaneous scrap metal are present.

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**Reclamation Plan Performance Standard (End Use):**

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RP-79-31 specifies irrigation tail water sumps and revegetation to the satisfaction of Fish & Wildlife. This site is within agricultural ranch land therefore re-vegetation should be advantageous to livestock grazing and wildlife habitat.

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**Describe tasks:**

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All equipment and metal will be removed by recycling company (estimate attached). Estimates for waste disposal are for Siskiyou County Transfer stations.

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Equipment on site wholly owned by operator?: ☒ YES ☐ NO

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

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*(add additional pages as needed)*



Estimate from Northstate Recycling, Inc., see attached

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

Methods to be used:

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

Equipment	Unit of Measure	\$/Unit	# of Units	Cost (\$)

Total Equipment Cost for this Task = \$

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

Labor Category	\$/Hour (prevailing wage)	Labor Surcharge/Hr (where applicable) (enter % of wage)	# of Hours	Cost (\$)

Total Labor Cost for this Task = \$

- 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 (\$)

Total Materials Cost for this Task = \$

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

Equipment Costs + Labor Cost + Demolition Cost = \$

- 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 = \$ 40,000.00

\*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

*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:

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Approximately 15 acres total of disturbed area remains subject to reclamation (including area in East Quarry only) Natural revegetation has occurred throughout the site with the exception to the stockpiles.

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### Reclamation Plan Performance Standard (End Use):

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RP-79-31 specifies irrigation tail water sumps and revegetation to the satisfaction of Fish & Wildlife. This site is within agricultural ranch land therefore re-vegetation should be advantageous to livestock grazing and wildlife habitat.

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### Describe tasks, methods, equipment, etc.:

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

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Redistribute overburden, topsoil and processed material stockpiles. Use dozer to spread material over site. Use loader and dump truck to redistribute stockpiles.

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### 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.*

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Overburden stockpile in East Quarry (appx 355 cu/yds) - spread immediately adjacent to stockpile with dozer. Overburden/Topsoil in the northern portion of the East Quarry (appx 300 cu/yds) - spread immediately adjacent to stockpiles with dozer. Processed Materials stockpiled in East Quarry (appx 200 cu/yds) - use loader and dump truck to move to excavated areas within the East Quarry (appx 20-100 yds) to use as fill material (approximately 1 hour of loader time and 1 hour of dump truck time).

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*(add additional pages as needed)*

**VI. PRIMARY RECLAMATION ACTIVITY** (redistribute stockpiles/overburden/topsoil East) (use multiple sheets as needed)  
(Describe Reclamation Activity Being Estimated)

Acres:	2.5 ac East Quarry	Overburden (cy):	655 & stockpiles 200
Haul Distance (ft):	0-100	Topsoil (cy):	
Production Rate (cy/hr):	132 Dozer		

**Methods to be used:**

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

Equipment	Unit of Measure	\$/Unit	# of Units	Cost (\$)
CAT D7G Dozer	Hrs	112.77	7	789.39
loader 966 E	Hrs	129.25	1	129.25
10 yd dump truck	Hrs	65.70	1	65.70

Total Equipment Cost for this Task = \$ 984.34

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

Labor Category	\$/Hour (prevailing wage)	Labor Surcharge/Hr (where applicable) (enter % of wage)	# of Hours	Cost (\$)
Dozer Equipment Operator Area 2 / Group 4	81.46		7	570.22
driver dump truck	67.52		1	67.52
loader Equipment Operator Grp 3	84.84		1	84.84

Total Labor Cost for this Task = \$ 722.58

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

Item	\$/Unit	Sales tax (enter local rate in %)	Quantity	Cost (\$)

Total Materials Cost for this Task = \$           

- D. Total Direct Cost for this Task

Equipment Costs + Labor Cost + Materials Cost = \$ 1706.92



## VI. PRIMARY RECLAMATION ACTIVITY

*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:

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Approximately .5 acres total of disturbed area remains subject to reclamation ( area in the West Quarry only). Natural revegetation has occurred throughout the site.

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### Reclamation Plan Performance Standard (End Use):

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RP-79-31 specifies irrigation tail water sumps and revegetation to the satisfaction of Fish & Wildlife. This site is within agricultural ranch land therefore re-vegetation should be advantageous to livestock grazing and wildlife habitat.

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### Describe tasks, methods, equipment, etc.:

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

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Redistribute processed material stockpiles - use as fill in excavated site located in East Quarry. Use loader and dump truck to move stockpile.

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### 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.*

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Remove Processed material (10 cu/yds) from West Quarry with loader (.55 minutes/cycle at 5 cu/yds per cycle) and Dump truck to use as fill material in East Quarry (appx 0.9 miles). Including drive time from East Quarry for loader and dump truck.

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(add additional pages as needed)



**VI. PRIMARY RECLAMATION ACTIVITY** (redistribute stockpiles West Quarry) (use multiple sheets as needed)  
(Describe Reclamation Activity Being Estimated)

Acres:	.25 ac West Quarry	Overburden (cy):	stockpiles 10
Haul Distance (ft):	5000	Topsoil (cy):	0
Production Rate (cy/hr):	500 + travel from/to East Quarry		

**Methods to be used:**

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

Equipment	Unit of Measure	\$/Unit	# of Units	Cost (\$)
loader 966 E 5 cu/yd bucket	Hrs	129.25	.5	64.63
10 yd dump truck	Hrs	65.70	.5	32.85

Total Equipment Cost for this Task = \$ 97.48

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

Labor Category	\$/Hour (prevailing wage)	Labor Surcharge/Hr (where applicable) (enter % of wage)	# of Hours	Cost (\$)
driver dump truck	67.52		.5	33.76
loader Equipment Operator Grp 3	84.84		.5	42.42

Total Labor Cost for this Task = \$ 76.18

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

Item	\$/Unit	Sales tax (enter local rate in %)	Quantity	Cost (\$)

Total Materials Cost for this Task = \$ 0

- D. Total Direct Cost for this Task

Equipment Costs + Labor Cost + Materials Cost = \$ 173.66

**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:**

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Natural revegetation of 15.5 acres of previously disturbed area has occurred. Some grading will be needed in areas where steeper slopes remain; Stockpiles will need to be removed or used as fill; and equipment will be removed which will disturb natural vegetation, therefore reseeding of these newly disturbed areas will be necessary. Also, seeding of areas where natural vegetation is sparse. Approximately 3 acres total.

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**Reclamation Plan Performance Standard (End Use):**

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RP-79-31 specifies irrigation tail water sumps (located within the previously reclaimed area) and revegetation to the satisfaction of Fish & Wildlife. This site is within agricultural ranch land therefore re-vegetation should be advantageous to livestock grazing and wildlife habitat.

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**Describe tasks:**

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Revegetate disturbed areas due to redistribution of aggregates and topsoil. Approximately 3 acres total. Hand broadcast seed mixture at a rate of 32 pounds / acre.

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*(add additional pages as needed)*

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

**Methods to be used:**

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

Equipment	Unit of Measure	\$/Unit	# of Units	Cost (\$)
broadcast seed spreader	each	44.99	2	89.98
3/4 ton pickup truck	hours	39.12	4	156.48
50 hp tractor with implements	hour	34.04	4	136.16

Total Equipment Cost for this Task = \$ 382.62

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

Labor Category	\$/Hour (prevailing wage)	Labor Surcharge/Hr (where applicable) (enter % of wage)	# of Hours	Cost (\$)
Laborer Group 7	49.45		4	197.80
landscape engineer Group 3	59.29		8	474.32

Total Labor Cost for this Task = \$ 672.12

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

Item/Plant Species	Unit of measure	\$/Unit	Sales tax (enter local rate in %)	Quantity	Cost (\$)
Seed Mix					751.80
Attached Quote					

Total Materials Cost for this Task = \$ 751.80

- D. Total Direct Cost for this Task

Equipment Costs + Labor Cost + Materials Cost = \$ 1806.54



### 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 (\$)
Waste Disposal - misc. trash and concrete			772.00

Total Miscellaneous Costs = \$ 772.00

### IX. MONITORING COSTS

Monitoring Task	\$/Visit	# of Visits/Year	# of Monitoring Years	Cost (\$)
Annual Fees/County Monitoring	1400	1	1	1400

Total Monitoring Costs = \$ 1400

## X. SUMMARY OF COSTS

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

(V) Total of all Plant Structures & Equipment Removal Costs	\$ 40000.00
(VI) Total of all Primary Reclamation Activities Costs	\$ 1879.66
(VII) Total of all Revegetation Costs	\$ 1806.54
(VIII) Total of all Miscellaneous Costs	\$ 772.00
(IX) Total of all Monitoring Costs	<u>\$ 1400.00</u>
Total of Direct Costs	\$ 45,931.32

## XI. Supervision / Profit & Overhead / Contingencies / Mobilization

(A) Supervision ( <u>6.5</u> %)	\$ 2985.54
(B) Profit/Overhead ( <u>13.5</u> %)	\$ 6200.73
(C) Contingencies ( <u>10</u> %)	\$ 4593.13
(D) Mobilization ( <u>5</u> %)	<u>\$ 2296.57</u>
Total of Indirect Costs	\$ 16075.97
Total of Direct and Indirect Costs	\$ 62007.29
(E) Lead Agency and/or Dept. of Conservation Administrative Costs	<u>\$ 9301.09</u>
Total Estimated Cost of Reclamation	<u>\$ 71,308.38</u>

## Bernadette Cizin

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**From:** Brian Cowley <bkcowley@hotmail.com>  
**Sent:** Tuesday, June 7, 2022 6:22 PM  
**To:** Bernadette Cizin  
**Subject:** Re: Seed quote - Cowley D&L Inc

Bernadette,

Establishing livestock grazing grasses and legumes in a dryland setting will be difficult. All of the approved seeds on your list will work given sufficient rain fall at the correct time.  
Seeding rates depend on which seed mix you choose. Rate should be from 20 lbs up to 100 lbs per ac. Below is a quote on the cost for each seed:

Intermediate wheat grass \$10.50 lb. rate 15 to 25 lbs per ac  
Crested wheat grass \$10.50 lb. rate 15 to 25 lbs per ac  
Perennial rye grass \$ 4.95 lbs rate 15 to 25 lbs per ac  
Tall Fescue \$4.00 lb Rate 25lbs per ac - requires some irrigation  
Winter wheat and Barley \$0.45 lb rate 70 to 100 lbs per ac - this is an annual seed  
Alfalfa seed \$5.00 lb rate 5 lbs ac  
Clover seed \$7.00 lb rate 5 lbs ac  
Trefoil - I have not been able to source this seed

Suggested mix: rates per ac.  
Intermediate wheat grass- 8 lbs  
Crested wheat grass - 8 lbs  
Perennial rye grass - 8 lbs  
Alfalfa - 3 lbs  
Rose clover - 2 lbs  
Winter wheat - 40 lbs

Let me know if you any additional information

Brian Cowley  
Cowley D&L Inc  
530-598-6699

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**From:** Bernadette Cizin <bpcizin@co.siskiyou.ca.us>  
**Sent:** Tuesday, June 7, 2022 9:00 AM  
**To:** Brian Cowley <bkcowley@hotmail.com>  
**Subject:** FW: Seed quote please

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**From:** Bernadette Cizin  
**Sent:** Wednesday, June 1, 2022 8:16 AM



To: bkcowley@hotmail.com

Subject: Seed quote please

Hello Brian,

I was hoping that you could help me with a quote for a mine reclamation. We will need to seed approximately 3.5 acres. The approved seed list (below) allows for a mix of any on the list. Our goal is to seed with what will be the most successful in the Macdoel area yet keeping in mind the end use will be livestock grazing. Also, how many pounds per acre would you recommend and what time of year should we seed?

Thank you

Perennial grasses (e.g., tall fescue,  
wheatgrass)  
winter wheat  
barley  
alfalfa  
crested wheatgrass  
trefoil

Bernadette Cizin  
Assistant Planner  
Siskiyou County Community Development  
806 S. Main Street, Yreka, CA 96097  
530-841-2151



June 13, 2022

Macdoel Mine Site  
Attn: Bernadette Cizin

Dear Sir/Madam:

We are placing a bid of \$40,000.00 for the Macdoel Mine Site Clean-up.

We would like \$20,000.00 down when we arrive with the equipment. Be paid the remaining balance of \$20,000.00 when the job is completed to your satisfaction.

We would like all the scrap as well.

If you have any questions, please contact me at (530) 941-0079.

Best Regards,

William Short  
President of Northstate Recycling