



Carter - DNR, Jocelyn <jocelyn.carter@state.co.us>

Indio Red Number 1&2 M-1999-062 TR-1 Adequacy Review

1 message

Carter - DNR, Jocelyn <jocelyn.carter@state.co.us>
To: Blue Mountain stone <bluemtnstone@gmail.com>
Cc: Amy Eschberger - DNR <amy.eschberger@state.co.us>

Wed, Feb 12, 2025 at 3:09 PM

Hi Bobbi and Raul,

Please see the attached adequacy review for the Technical Revision (TR-1) application submitted to the Division on January 31, 2025. I have also included an updated reclamation cost estimate. Please note that the cost estimate is for your reference only, in order to address item #19 of the adequacy letter. As a reminder, the decision date for the TR-1 application is March 2, 2025.

Let me know if you have any questions or concerns.

Thanks,
~Jocelyn

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Jocelyn Carter
Environmental Protection Specialist
Division of Reclamation, Mining, and Safety
1313 Sherman St Suite 215
Denver, CO 80203
cell: (720) 666-1065

20250212_M1999062_IndioRedQuarries1&2_TR1_AdequacyReview_RCERef.pdf
582K



February 12, 2025

Abe Vasquez
Hector Rodriguez
P.O. Box 122
Lyons, CO 80540

RE: Indio Red Quarry Number 1&2, Permit No. M-1999-062; Technical Revision Application (TR-1), Revising Mining and Reclamation Plans and Maps to Clarify Operations, Preliminary Adequacy Review

Dear Mr. Vasquez,

On January 31, 2025, the Division of Reclamation, Mining, and Safety (the Division/DRMS) received the technical revision application (TR-1) revising the mining and reclamation plans and maps for the Indio Red Quarry Number 1&2, located in Larimer County. After a review of the application, the following adequacy items were identified and need to be addressed prior to the Division issuing a decision. Please provide a letter addressing the following items along with any additional supplementary items.

Rule 1.8 Amendments and Technical Revisions to a Permit Application

1. Submit an affidavit or receipt that demonstrates the TR-1 application was placed with the County Clerk and Recorder, in accordance with Rule 1.8.1(2).

Rule 6.2 General Requirements of Exhibits

2. The maps for Indio Red #1 Quarry, Exhibit C and Exhibit D, and Indio Red #2 Quarry, Exhibit C and Exhibit D, need to be resubmitted with the following issues addressed in accordance with Rule 6.2.1(2):
 - a. Include the signature of the registered land surveyor, professional engineer, or other qualified preparer, per Rule 6.2.1(2)(b).
 - b. The date prepared is 9/20/2011 on each map; please provide an updated map for Exhibits C and D per Rule 6.2.1(2)(c).
 - c. The maps correlating with the intended mining plan have a title of "Exhibit C: Mining Plan Map" for Indio Red #1 Quarry and Indio Red #2 Quarry. Additionally, maps correlating with the intended reclamation plan have a title of "Exhibit D: Reclamation Plan Map" for Indio Red #1 Quarry and Indio Red #2 Quarry. Revise the titles for these maps with a title of "Exhibit E" and specifying either mining plan or reclamation plan and Indio Red #1 Quarry or Indio Red #2



Quarry, per Rule 6.2.1(2)(e).

- d. Each map submitted has the statement “Exhibit C prepared by Raul Vasquez” located above the information panel in the lower right corner, including on the maps with titles for Exhibit D Reclamation Maps. Revise the statement to eliminate confusion, providing information about the preparer of the maps.

Rule 6.3.3 Exhibit C – Mining Plan

3. According to the currently approved mining plan, the estimated time frame of the mining operation is about 3 years per acre. Revise the mining plan narrative to include information about the current state of the operation and the estimated date mining will end, in accordance with Rule 6.3.3(a).
4. There is no new information provided regarding the plan for salvaging topsoil and plant growth medium of the areas that will be quarried. Provide a plan for how topsoil and growth medium will be salvaged in the Exhibit C – Mining Plan narrative. If there is not no intention to alter the approved plan for handling topsoil and growth medium, provide a statement that clarifies that the plan will follow the approved mining plan. There is no indication of where salvaged topsoil/growth medium is being stored on the maps submitted for the mining plan. Revise the maps submitted to show where the salvaged topsoil/growth medium will be stored on the permitted area, in accordance with Rule 6.3.3(b).
5. Provide information about the thickness of the overburden that is removed to reach the target stone in addition to the location of where the overburden will be kept on the Exhibit E – Map, in accordance with Rule 6.3.3(c).
6. Provide information in the mining plan narrative about the thickness of the target deposit to be mined, in accordance with Rule 6.3.3(d).
7. During the Division’s site visit on October 24, 2024, it was observed that most of the quarry where material is extracted is located on an adjacent permit to the west of the Indio Red #1 Quarry. Provide information about the adjacent permit where material is being extracted and identify the location of the quarry on the Exhibit E – Map in accordance with Rule 6.3.3(e).
8. It is stated that there are several access roads in the Exhibit C – Mining Plan submitted with the TR-1 application. Specify the dimensions (widths and lengths) of the roads on both Indio Red #1 Quarry and Indio Red #2 Quarry in the mining plan narrative, per Rule 6.3.3(g).

9. Provide information about how much, if any, water is used for the operation and the source of the water, per Rule 6.3.3(h).
10. Provide information about if groundwater is exposed on the site and address all aspects given in Rule 6.3.3(i).
11. Provide information about the operations compliance with applicable Colorado water laws and regulations governing injury to existing water rights, per Rule 6.3.3(j).
12. There is no information provided about the presents of refuse and acid or toxic producing materials that may be exposed during the operation. Provide a statement about if acid or toxic producing materials are exposed and if so, how they will be handled to protect drainage systems in accordance with Rule 6.3.3(k).
13. Give a description of the measures that are taken to minimize disturbance to the hydrologic balance and prevent off-site damages, in accordance with Rule 6.3.3(l).

Rule 6.3.4 Exhibit D – Reclamation Plan

14. Provide information about the depth(s) of overburden will be replaced in the quarried pits and reclaimed areas, in accordance with Rule 6.3.4(1)(a).
15. The current approved reclamation plan calls for 2 to 4 inches of topsoil will be replaced on reclaimed areas. Please clarify if the expected depth of the plant growth medium will be changed from what is currently approved, per Rule 6.3.4(1)(c)(i).
16. Provide the specific seed mix that will be applied to the reclaimed areas as well as the applicable quantities in pounds of pure live seed per acre, in accordance with Rule 6.3.4(1)(c)(iii).
17. Provide information about how the seedbed will be adequately roughened prior to seeding, in accordance with Rule 6.3.4(1)(c)(iv).
18. Provide information about how the small building and the scale on Indio Red #1 will be reclaimed, per Rule 6.3.4(1)(e).
19. In accordance with Rule 6.3.4(2), a reclamation cost estimate should be included with the TR-1 as it involves changes in the reclamation plan and therefore the reclamation costs associated with the permit. An updated cost estimate is attached to this adequacy review, it is updated based on the financial warranty calculated on November 9, 2020, and is for reference only. The bond calculation will need to be recalculated based on information that is being requested for in this adequacy review. Please address the above items (#14 through #18) as well as Rule 6.3.4(2), including the necessary information outlined in

parts(a)through(c)of Rule 6.3.4(2).

Rule 6.3.5 Exhibit E - Map

20. Resubmit Mining Plan Maps for Indio Red #1 Quarry and Indio Red #2 Quarry to include the following information:

- a. The names of owner(s) of record of the surface of the affected area and of the land within two hundred (200) feet of the affected area, identify the owner of the substance to be mined, and the type of structure and owners of record of any permanent or man-made structures within two hundred (200) feet of the affected area, in accordance with Rule 6.3.5(2)(b).
- b. Outline and label all major surface features being used in connection with the operation such as pit boundary, topsoil stockpiles, overburden stockpiles, product stockpiles (prior to being processed), and processed product storage areas, in accordance with Rule 6.3.5(2)(c).
- c. Give the direction of material extraction, per Rule 6.3.5(2)(d).
- d. Provide details about the adjacent mine site where the majority of quarrying is taking place; the permit number, permit boundary, the quarry pit, and roads, in accordance with Rule 6.3.5(2)(f).

21. Resubmit Reclamation Plan Maps for Indio Red #1 Quarry and Indio Red #2 Quarry to include the following information:

- a. Show the gradient of all reclaimed slopes (horizontal: vertical) sufficient to describe the post mine topography, per Rule 6.3.5(3)(a).
- b. Indicate where vegetation will not be established and the general area(s) for shrub or tree planting, per Rule 6.3.5(3)(b).
- c. State the average thickness of replaced overburden by reclamation area or phase, per Rule 6.3.5(3)(d).
- d. State the average thickness of replaced topsoil by reclamation area or phase, per Rule 6.3.5(3)(e).

This concludes the Division's preliminary adequacy review for the TR-1 application. The decision date for this revision is **March 2, 2025**. Please reply to this letter at least 5 days prior to the decision date, **February 25, 2025**, to allow for the Division to review your response. If more

February 12, 2025
Mr. Abe Vasquez
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time is needed to address these issues, an extension request must be submitted to the Division in writing prior to the decision date.

If you have any questions or concerns, please reach out to me at Jocelyn.carter@state.co.us or (720) 666-1065.

Sincerely,



Jocelyn Carter
Environmental Protection Specialist

Ec: Amy Eschberger, DRMS
Raul Vasquez, Blue Mountain Stone

Enclosures: Reclamation Cost Estimate, for reference only

COST SUMMARY WORK

Task description: 000

Site: Indio Red Quarry Number 1
& 2

Permit Action: 2025 TR1

Permit/Job#: M1999062

PROJECT IDENTIFICATION

Task #: 000
Date: 2/12/2025
User: JLC

State: Colorado
County: Larimer

Abbreviation: None
Filename: M062-000

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Backfill and Grade Quarries	DOZER	1	30.35	\$10,307
002	Replace Topsoil on Affected Areas	DOZER	1	6.40	\$2,161
003	Revegetate Disturbed Area	REVEGE	1	0.00	\$1,862
004	Mobilization and Demobilization	MOBILIZE	1	1.88	\$2,643
<u>SUBTOTALS:</u>				38.63	\$16,973

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$343
Performance bond:	1.05	Total =	\$178
Job superintendent:	19.32	Total =	\$1,531
Profit:	10.00	Total =	\$1,697

TOTAL O & P = \$3,749

CONTRACT AMOUNT (direct + O & P) = \$20,722

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	<u>\$500</u>	Total =	<u>\$500</u>
Engineering work and/or contract/bid preparation:	<u>4.25</u>	Total =	<u>\$881</u>
Reclamation management and/or administration:	<u>5.00</u>		<u>\$1,036</u>

CONTINGENCY: 3.00 Total = \$509

TOTAL INDIRECT COST = \$6,675

TOTAL BOND AMOUNT (direct + indirect) = \$23,648

BULLDOZER WORKTask description: **Backfill and Grade Quarries**Site: **Indio Red Quarry Number 1
& 2**Permit Action: **2025 TR1**Permit/Job#: **M1999062****PROJECT IDENTIFICATION**Task #: **001**
Date: **2/12/2025**
User: **JLC**State: **Colorado**
County: **Larimer**Abbreviation: **None**
Filename: **M062-001**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Basic Machine: **Cat D8T - 8SU**
Horsepower: **310**
Blade Type: **Semi-Universal**
Attachment: **3-shank ripper**
Shift Basis: **1 per day**
Data Source: **(CRG)****Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$173.32	NA
Operating Cost/Hour:	\$109.71	100
Ripper own. Cost/Hour:	\$14.53	NA
Ripper op. Cost/Hour:	\$1.99	25
Operator Cost/Hour:	\$40.04	NA

Total unit Cost/Hour: **\$339.58**
Total Fleet Cost/Hour: **\$339.58****MATERIAL QUANTITIES**Initial Volume: **5,500**
Swell factor: **1.215**
Loose volume: **6,683 LCY**Source of estimated volume: **Division of Reclamation, Mining & Safety**
Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **150 feet**
Unadjusted hourly production: **634.3 LCY/hr**Materials consistency description: **Consolidated stockpile 1.0**Average push gradient: **0 %**
Average site altitude: **6,500 feet**Material weight: **3,300 lbs/LCY**Weight description: **Decomposed rock - 75% Rock, 25% Earth****Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.000	(CAT HB)
Dozing method:	1.000	(GEN.)

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.697	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3471

Adjusted unit production: 220.17 LCY/hr

Adjusted fleet production: **220.17** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$1.542/LCY

Total job time: **30.35** Hours

Total job cost: **\$10,307**

BULLDOZER WORKTask description: **Replace Topsoil on Affected Areas**Site: **Indio Red Quarry Number 1
& 2**Permit Action: 2025 TR1Permit/Job#: M1999062**PROJECT IDENTIFICATION**Task #: 002
Date: 2/12/2025
User: JLCState: Colorado
County: LarimerAbbreviation: None
Filename: M062-002Agency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SU
Horsepower: 310
Blade Type: Semi-Universal
Attachment: 3-shank ripper
Shift Basis: 1 per day
Data Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$173.32</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$109.71</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$14.53</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$0.00</u>	<u>0</u>
Operator Cost/Hour:	<u>\$40.04</u>	<u>NA</u>
Total unit Cost/Hour:	<u>\$337.60</u>	
Total Fleet Cost/Hour:	<u>\$337.60</u>	

MATERIAL QUANTITIESInitial Volume: 1,210
Swell factor: 1.125
Loose volume: 1,361 LCYSource of estimated volume: Average 3" topsoil and 3 ac area.Source of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 200 feet
Unadjusted hourly production: 491.9 LCY/hrMaterials consistency description: Consolidated stockpile 1.0Average push gradient: 0 %
Average site altitude: 6,500 feetMaterial weight: 2,650 lbs/LCYWeight description: Decomposed rock - 25% Rock, 75% Earth**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	<u>0.750</u>	<u>(AVG.)</u>
Material consistency:	<u>1.000</u>	<u>(CAT HB)</u>
Dozing method:	<u>1.000</u>	<u>(GEN.)</u>

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4323

Adjusted unit production: 212.65 LCY/hr

Adjusted fleet production: **212.65** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$1.588/LCY

Total job time: **6.40** Hours

Total job cost: **\$2,161**

REVEGETATION WORKTask description: Revegetate Disturbed Area

Site: Indio Red Quarry Number 1 & 2 Permit Action: 2025 TR1 Permit/Job#: M1999062

PROJECT IDENTIFICATION

Task #: 003 State: Colorado Abbreviation: None
 Date: 2/12/2025 County: Larimer Filename: 003
 User: JLC

Agency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
6-24-24, 10-20-10, 15-15-15	40.00	pound	\$0.45	\$18.13
			Total Fertilizer Materials Cost/Acre	\$18.13

Application

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$43.12
Total Fertilizer Application Cost/Acre	\$43.12

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Crested Wheatgrass - Fairway	1.50	6.89	\$8.74
Sideoats Grama - Vaughn	2.25	7.39	\$55.33
Pubescent Wheatgrass - Luna	4.25	8.78	\$21.27
Western Wheatgrass - Barton	4.00	10.10	\$37.58
Totals Seed Mix	12.00	33.16	\$122.92

Application

Description	Cost /Acre
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Drill Seeding (DRMS Survey Cost)	\$236.64
Total Seed Application Cost/Acre	\$236.64

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$492.78	\$985.56
Total Mulch Materials Cost/Acre				\$985.56

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$85.37
Total Mulch Application Cost/Acre	\$85.37

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
Totals Nursery Stock Cost / Acre					\$0.00

JOB TIME AND COST

No. of Acres:	<u>0.89</u>	Cost /Acre:	<u>\$1,609.35</u>
Estimated Failure Rate:	<u>30%</u>	Cost /Acre*:	<u>\$1,609.35</u>
*Selected Replanting Work Items:	<u>FERTILIZING,TILLING,SEEDING,MU LCHING</u>		
Initial Job Cost:	<u>\$1,432.32</u>		
Reseeding Job Cost:	<u>\$429.70</u>		
Total Job Cost:	<u>\$1,862</u>		
Job Hours:	0.00		

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mobilization and Demobilization**Site: **Indio Red Quarry Number 1
& 2**Permit Action: 2025 TR1Permit/Job#: M1999062**PROJECT IDENTIFICATION**

Task #: 004 State: Colorado Abbreviation: None
 Date: 2/12/2025 County: Larimer Filename: 004
 User: JLC

Agency or organization name: DRMS**EQUIPMENT TRANSPORT RIG COST**

Shift basis: 1 per day
 Cost Data Source: CRG Data

Truck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED,
400 HP (2ND HALF, 2006)Truck Trailer Description: GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT
TRAILER (25T, 50T, AND 100T)**Cost Breakdown:**

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$10.44	\$22.18	\$23.94
Operating Cost/Hour:	\$26.48	\$54.55	\$55.65
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$59.44	\$122.78	\$125.64

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat D8T - 8SU	53.08	\$187.85	\$125.64	1	\$313.49	\$125.64	\$250.00
Hydroseeder with Tractor	28.00	\$45.21	\$122.78	2	\$335.98	\$245.56	\$500.00

Subtotals: **\$649.47** **\$371.20** **\$750.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 3/4 T.	\$13.77	1	\$13.77	\$13.77
Fuel Tanker, 4x2, 170 HP	\$34.10	1	\$34.10	\$34.10
Lube Truck, 4x2, 190 HP	\$41.41	1	\$41.41	\$41.41

Subtotals: **\$89.28** **\$89.28**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	LONGMONT	
Total one-way travel distance:	10.00	miles
Average Travel Speed:	45.00	mph

Total Non-Roadable Mob/Demob Cost *	\$2,603.10
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	\$39.68
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.22	0.22
Return Time (Hours):	0.22	0.22
Loading Time (Hours):	0.25	NA
Unloading Time (Hours):	0.25	NA
Subtotals:	0.94	0.44

JOB TIME AND COST

Total job time:	1.89	Hours
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Total job cost:	\$2,643
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