

November 22, 2022

Mark Morley
Turkey Canon Quarry, Inc.
20 Boulder Crescent Street, Ste 200
Colorado Springs, CO 80903

Re: Vollmer Pit - File No. M-1983-035; Preliminary Adequacy Review for 112 Construction Materials Reclamation Permit Amendment Application (AM-1)

Dear Mr. Morley:

The Division of Reclamation, Mining and Safety (DRMS) has completed its preliminary adequacy review of your 112 Construction Materials Reclamation Permit Amendment Application (AM-1) for the Vollmer Pit, Permit No. M-1983-035. The application was received on November 17, 2021 and called complete for review on September 26, 2022. **The decision date for this application is December 26, 2022.** Please be advised that if you are unable to satisfactorily address any concerns identified in this review before the decision date, **it will be your responsibility to request an extension of the review period.** If there are outstanding issues that have not been adequately addressed prior to the end of the review period, and no extension has been requested, the DRMS may deny this application.

The review consisted of comparing the application content with specific requirements of Rules 3.1, 6.4 and 6.5 of the Minerals Rules and Regulations of the Colorado Mined Land Reclamation Board for the Extraction of Construction Materials. Any inadequacies are identified under the respective exhibit heading along with suggested actions to correct them.

The following items must be addressed by the applicant in order to satisfy the requirements of C.R.S. 34-32.5-101 et seq. and the Mineral Rules and Regulations of the Mined Land Reclamation Board:

GENERAL COMMENTS

1. Proof of Required Notices: Newspaper publication of a notice (published once a week for four consecutive weeks) regarding the filing of your application and transmittal of a copy of the notice to all owners of record of surface and mineral rights, holders of any recorded



easements, and all owners of record of lands that are within 200 feet of the boundary of the affected land (this includes the additional proposed affected area, as well as the existing affected area) is required within 10 days of submittal. You must submit proof of the notice and mailings, such as Certified Mail Return Receipt Requested, to the Division prior to the decision date. Please provide this documentation demonstrating: a) proof of publishing the notice in the local newspaper, and b) proof of mailing the notice to all owners of record of lands that are within 200 feet of the boundary of the affected land.

APPLICATION

The application is adequate as submitted.

6.4 SPECIFIC EXHIBIT REQUIREMENTS – REGULAR 112 OPERATIONS

6.4.1 EXHIBIT A - Legal Description

Exhibit A submitted with the original application is still valid.

6.4.2 EXHIBIT B - Index Map

Exhibit B submitted with the original application is still valid.

6.4.3 EXHIBIT C - Pre-mining and Mining Plan Map(s) of Affected Lands

Exhibit C submitted with the original application is still valid.

6.4.4 EXHIBIT D – Mining Plan

Exhibit D submitted with the original application is still valid.

6.4.5 EXHIBIT E – Reclamation Plan

2. Reclamation schedule: Rule 6.4.5(2)(e) requires a plan or schedule indicating how and when reclamation will be implemented. Please provide a schedule outlining when each phase of the reclamation plan is expected to be completed.

6.4.6 EXHIBIT F – Reclamation Plan Map

Exhibit F is adequate as submitted.

6.4.6 EXHIBIT G – Water Information

Exhibit G submitted with the original application is still valid.

6.4.6 EXHIBIT H – Wildlife Information

Exhibit H submitted with the original application is still valid.

6.4.9 EXHIBIT I – Soils Information

Exhibit I submitted with the original application is still valid.

6.4.9 EXHIBIT J – Vegetation Information

Exhibit J submitted with the original application is still valid.

6.4.9 EXHIBIT K – Climate

Exhibit K submitted with the original application is still valid.

6.4.12 EXHIBIT L – Reclamation Costs

3. DRMS reclamation cost estimate: The DRMS has generated a cost estimate based on the information submitted in Exhibits E and L. Please review the attached reclamation cost estimate. If no comments or corrections are provided to the DRMS, this will be the expected bond upon approval of AM-1.

6.4.13 EXHIBIT M – Other Permits and Licenses

Exhibit M submitted with the original application is still valid.

6.4.14 EXHIBIT N – Source of Legal Right to Enter

Exhibit N is adequate as submitted.

6.4.15 EXHIBIT O – Owners of Record of Affected Land (Surface Area) and Owners of Substance to be Mined

Exhibit O submitted with revision SO-2 is still valid.

6.4.16 EXHIBIT P – Municipalities Within a Two-mile Radius

Exhibit P submitted with the original application is still valid.

6.4.17 EXHIBIT Q – Proof of Mailing of Notices to Board of County Commissioners and Soil Conservation District

Exhibit Q is adequate as submitted.

6.4.18 EXHIBIT R – Proof of Filing with County Clerk and Recorder

Exhibit R is adequate as submitted.

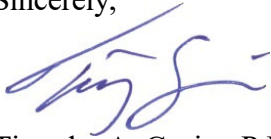
6.4.19 EXHIBIT S – Permanent Man-Made Structures

Exhibit S submitted with revision SO-2 is still valid.

Please remember that the decision date for this application is December 26, 2022. As previously mentioned if you are unable to provide satisfactory responses to any inadequacies prior to this date, it will be your responsibility to request an extension of time to allow for continued review of this application. If there are still unresolved issues when the decision date arrives and no extension has

been requested, the application may be denied. If you have any questions, please contact me at (303) 328-5229.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Tim Cazier', with a stylized flourish at the end.

Timothy A. Cazier, P.E.
Environmental Protection Specialist

Enclosure: DRMS Reclamation Cost Estimate

ec: Michael Cunningham, DRMS
DRMS file
Jodi Schreiber, PFM Consulting

COST SUMMARY WORK

Task description: Cost Summary Sheet

Site: Vollmer Pit

Permit Action: AM-1

Permit/Job#: M1983035

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 11/21/2022

County: El Paso

Filename: M035-000

User: TC1

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
002	Regrade/Flatten Perimeter Berms	DOZER	1	91.07	\$23,907
003	Reveg 45.2 Acres	REVEGE	1	80.00	\$27,189
DE1	Demolition of scale house & concrete aprons	DEMOLISH	1	0.00	\$2,717
DE2	Demolition of asphalt access road (per Exhibit E)	DEMOLISH	1	0.00	\$15,176
MB1	Mob/Demob Equipment	MOBILIZE	1	2.71	\$2,719
<u>SUBTOTALS:</u>				173.78	\$71,708

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$1,449

Performance bond: 1.05

Total = \$753

Job superintendent: 85.53

Total = \$6,426

Profit: 10.00

Total = \$7,171

TOTAL O & P = \$15,798

CONTRACT AMOUNT (direct + O & P) = \$87,506

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$0

Total = \$0

Engineering work and/or contract/bid preparation: 4.25

Total = \$3,719

Reclamation management and/or administration: 5.00

\$4,375

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$23,892

TOTAL BOND AMOUNT (direct + indirect) = \$95,600

BULLDOZER WORKTask description: **Regrade/Flatten Perimeter Berms**Site: **Vollmer Pit**Permit Action: **AM-1**Permit/Job#: **M1983035****PROJECT IDENTIFICATION**Task #: **002**State: **Colorado**Abbreviation: **None**Date: **11/21/2022**County: **El Paso**Filename: **M035-002**User: **TC1**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Basic Machine: **Cat D8T - 8SU**Horsepower: **310**Blade Type: **Semi-Universal**Attachment: **NA**Shift Basis: **1 per day**Data Source: **(CRG)****Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$124.85</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$97.63</u>	<u>100</u>
Ripper own.		
Cost/Hour:	<u>\$0.00</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>\$262.52</u>	
Total Fleet Cost/Hour:	<u>\$262.52</u>	

MATERIAL QUANTITIESInitial Volume: **34,142**Swell factor: **1.250**Loose volume: **42,678 LCY**Source of estimated volume: **AM-1 Exhibit L**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: **-15 %**Average site altitude: **7,000 feet**Material weight: **2,550 lbs/LCY**Weight description: **Earth - Dry packed**

Job Condition Correction Factor

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.000	(CAT HB)
Dozing method:	1.100	(50% SL)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.900	(SSD-FC)
Push gradient:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.7388

Adjusted unit
production: 468.62 LCY/hr

Adjusted fleet
production: **468.62** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.560/LCY

Total job time: **91.07** Hours

Total job cost: **\$23,907**

REVEGETATION WORKTask description: Reveg 45.2 AcresSite: Vollmer PitPermit Action: AM-1Permit/Job#: M1983035PROJECT IDENTIFICATIONTask #: 003State: ColoradoAbbreviation: NoneDate: 11/21/2022County: El PasoFilename: M035-003User: TC1Agency or organization name: DRMSFERTILIZING**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials Cost/Acre	\$0.00

Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

TILLING

Description	Cost /Acre
Chisel plowing {DMG}	\$98.43
Total Tilling Cost/Acre	\$98.43

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Native	1.20	19.59	\$16.47
Little Bluestem - Native	1.80	10.74	\$24.42
Sideoats Grama - Butte	1.80	5.91	\$16.20
Western Wheatgrass - Arriba	6.40	16.16	\$41.60
Needle and Thread	0.90	2.38	\$37.67
Prairie Sandreed - Goshen	1.80	11.28	\$18.63
Totals Seed Mix	13.90	66.06	\$154.99

Application

Description	Cost /Acre
Drill Seeding (DRMS Survey Cost)	\$232.00
Total Seed Application Cost/Acre	\$232.00

MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acre	\$0.00

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:	45.2	Cost /Acre:	\$485.42
Estimated Failure Rate:	30%	Cost /Acre*:	\$386.99
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost:	\$21,940.98
Reseeding Job Cost:	\$5,247.58
Total Job Cost:	\$27,189
Job Hours:	80.00

DEMOLITION WORK

Task description: Demolition of scale house & concrete aprons

Site: Vollmer Pit

Permit Action: AM-1

Permit/Job#: M1983035

PROJECT IDENTIFICATION

Task #: DE1

State: Colorado

Abbreviation: None

Date: 11/21/2022

County: El Paso

Filename: M035-DE1

User: TC1

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 93.10 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Scale House	8'x30'x8.5'	Bldg. (SC) demo./off-site disposal in approved landfill - Max. 15 mile haul	2,040.00	CF	\$0.62	\$1,264.80
Concrete Pad 1 (south of scale house)	30'x15'	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 200 ft. push	450.00	SF	\$0.77	\$348.30
Concrete Pad 2 (south of scale house)	10'x10'	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 200 ft. push	100.00	SF	\$0.77	\$77.40
Asphalt near scale house	150'x15'	Pavement, bituminous, demolition only - 3 in. thick	250.00	SY	\$4.91	\$1,227.50

Job Hours: 0.00

Subtotal
(unadjusted): \$2,918.00

Total Cost
(adjusted for
location): \$2,716.66

DEMOLITION WORK

Task description: Demolition of asphalt access road (per Exhibit E)

Site: Vollmer Pit

Permit Action: AM-1

Permit/Job#: M1983035

PROJECT IDENTIFICATION

Task #: DE2

State: Colorado

Abbreviation: None

Date: 11/21/2022

County: El Paso

Filename: M035-DE2

User: TC1

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 93.10 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Asphalt Access Rd	1295'x24'	Pavement, bituminous, demolition only - 3 in. thick	3,320.00	SY	\$4.91	\$16,301.20

Job Hours: 0.00

Subtotal
(unadjusted): \$16,301.20

Total Cost
(adjusted for location): \$15,176.42

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mob/Demob Equipment**Site: **Vollmer Pit**Permit Action: **AM-1**Permit/Job#: **M1983035****PROJECT IDENTIFICATION**Task #: **MB1**State: **Colorado**Abbreviation: **None**Date: **11/22/2022**County: **El Paso**Filename: **M035-MB1**User: **TC1**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:	\$15.25	\$23.06	\$37.58
Operating Cost/Hour:	\$25.26	\$30.83	\$51.41
Operator Cost/Hour:	\$27.71	\$27.71	\$27.71
Helper Cost/Hour:	\$0.00	\$20.22	\$20.22
Total Unit Cost/Hour:	\$68.22	\$101.82	\$136.92

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	47.71	\$124.85	\$101.82	1	\$226.67	\$101.82	\$250.00
CAT 450E	9.80	\$89.81	\$68.22	1	\$158.03	\$68.22	\$250.00
CAT 938H	16.34	\$40.85	\$68.22	1	\$109.07	\$68.22	\$250.00

Subtotals: **\$493.77** **\$238.26** **\$750.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Drill/Broadcast Seeder with Tractor	\$13.99	1	\$13.99	\$13.99
Generic 10-12 cy, 6x4	\$99.94	1	\$99.94	\$99.94

Subtotals: **\$113.93** **\$113.93**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>COLORADO SPRINGS</u>	
Total one-way travel distance:	<u>15.00</u>	miles
Average Travel Speed:	<u>35.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$2,621.22</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$97.65</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.43</u>	<u>0.43</u>
Return Time (Hours):	<u>0.43</u>	<u>0.43</u>
Loading Time (Hours):	<u>0.25</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.25</u>	<u>NA</u>
Subtotals:	<u>1.36</u>	<u>0.86</u>

JOB TIME AND COST

Total job time:	<u>2.71</u>	Hours
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Total job cost:	<u>\$2,719</u>
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