




MINERALS PROGRAM INSPECTION REPORT
PHONE: (303) 866-3567

The Division of Reclamation, Mining and Safety has conducted an inspection of the mining operation noted below. This report documents observations concerning compliance with the terms of the permit and applicable rules and regulations of the Mined Land Reclamation Board.

MINE NAME: Red Canyon Quarry	MINE/PROSPECTING ID#: M-1985-043	MINERAL: Aggregate and sand and gravel	COUNTY: Fremont
INSPECTION TYPE: Monitoring	INSPECTOR(S): Timothy Cazier, P.E.	INSP. DATE: August 9, 2021	INSP. TIME: 14:00
OPERATOR: Rocky Mountain Materials and Asphalt, Inc.	OPERATOR REPRESENTATIVE: Phil Courtney, Wayne Stoughton	TYPE OF OPERATION: 112c - Construction Regular Operation	
REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: Complete Bond	BOND AMOUNT: \$334,000.00	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None	
WEATHER: Clear	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: January 27, 2022	

GENERAL INSPECTION TOPICS

This list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each. No problems or possible violations were noted during the inspection. The mine operation was found to be in full compliance with Mineral Rules and Regulations of the Colorado Mined Land Reclamation Board for the Extraction of Construction Materials and/or for Hard Rock, Metal and Designated Mining Operations. Any person engaged in any mining operation shall notify the office of any failure or imminent failure, as soon as reasonably practicable after such person has knowledge of such condition or of any impoundment, embankment, or slope that poses a reasonable potential for danger to any persons or property or to the environment; or any environmental protection facility designed to contain or control chemicals or waste which are acid or toxic-forming, as identified in the permit.

(AR) RECORDS----- <u>Y</u>	(FN) FINANCIAL WARRANTY----- <u>Y</u>	(RD) ROADS----- <u>Y</u>
(HB) HYDROLOGIC BALANCE----- <u>Y</u>	(BG) BACKFILL & GRADING----- <u>Y</u>	(EX) EXPLOSIVES----- <u>Y</u>
(PW) PROCESSING WASTE/TAILING---- <u>N</u>	(SF) PROCESSING FACILITIES----- <u>Y</u>	(TS) TOPSOIL----- <u>N</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>Y</u>	(FW) FISH & WILDLIFE----- <u>Y</u>	(RV) REVEGETATION---- <u>Y</u>
(SM) SIGNS AND MARKERS----- <u>Y</u>	(SP) STORM WATER MGT PLAN---- <u>Y</u>	(RS) RECL PLAN/COMP-- <u>Y</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>Y</u>	(SC) EROSION/SEDIMENTATION--- <u>Y</u>	(ST) STIPULATIONS----- <u>Y</u>
(AT) ACID OR TOXIC MATERIALS----- <u>N</u>	(OD) OFF-SITE DAMAGE----- <u>Y</u>	

Y = Inspected / N = Not inspected / NA = Not applicable to this operation / PB = Problem cited / PV = Possible violation cited

OBSERVATIONS

This inspection was conducted by Tim Cazier (DRMS) as part of the regular monitoring program. The Permittee (Rocky Mountain Materials & Asphalt) was represented by Messrs. Phil Courtney and Wayne Stoughton (both with Martin Marietta Materials). The Red Canyon Quarry is accessed from Barret Road off Highway 115 about 14 miles north of Penrose. This is a 112c aggregate, sand and gravel mine. It was operating at the time of the inspection.

Availability of Records: Annual fees are paid through April 2021. The previous inspection was on January 29, 2018. The approved post-mine land use is wildlife habitat. There were no open infractions prior to the inspection. This permit has a mixture of privately owned surface and minerals as well as those managed both by the Federal Bureau of Land Management (BLM) and the State Land Board (SLB).

Backfilling and Grading: Concurrent reclamation was being performed as some of the upper benches were observed to have been backfilled and topsoiled (see **Photo 1**). Backfill material is overburden.

Excess Spoil and Dev. Waste: Overburden is stockpiled at the ends of benches for reclamation.

Explosives: The mine has filed a blasting plan with DRMS and blasting reports are kept on file in the site office. Buckley Powder performs the blasting operations.

Financial Warranty: The \$635,677 bond held by the DRMS was last updated in July 2021 and is adequate for the observed mine disturbance.

Fish and Wildlife: No impact to wildlife was observed.

Hydrologic Balance: No standing water was observed in the pit. Groundwater is exposed in the sediment pond (see **Photo 2**). Evaporation losses are addressed in the site Substitute Water Supply Plan (SWSP).

Gen. Compliance with Mine Plan: The operation appeared to be in compliance with the approved mine plan. The maximum allowed disturbed area is 110 acres. Google Earth was used to measure the disturbed area, which was measured to be approximately 62 acres, based on older 2019 imagery. Highwalls varied between 40 and 50 feet in height and appeared stable (see **Photo 3**).

Mr. Stoughton stated they have been reconfiguring the benches for the last five years such that air blasts from their blasting operations would be directed away from nearby residences south and east of the mine.

Off-site Damage: The operation appeared to be confined to the permit boundary, based on Google Earth review and site observations.

Roads: Haul and access roads did not appear to be a source of sediment that could be tracked offsite. Mr. Stoughton stated dust control measures were implemented on the haul roads when necessary.

Right of Entry: The site has leases with the BLM and the SLB for the public lands portions of the permit.

Reclamation Success: As stated above, some of the upper benches have been backfilled and topsoiled. The backfilled areas appeared to be sloped at 3H:1V or flatter. The upper access road in the northeast corner of the active area had been realigned and the older portion is being reclaimed (see **Photos 4 and 5**).

Revegetation: No revegetation had been initiated and no noxious weeds were observed.

Sediment Control: Minor local erosion features were observed (see **Photo 4**) with no offsite impact. No BMPs were needed at the time of the inspection.

Support Facilities On-site: In addition to the screen plant, excavators, loaders and haul trucks were observed on site (see **Photo 5**).

Signs and Markers: The permit sign was properly posted (see **Photo 6**) and boundary markers were observed in most areas to delineate the permit boundary (see **Photo 7**). However, a considerable amount of time was spent looking for a boundary marker in the wooded area on the northeast that could not be located. [The DRMS recommends boundary markers in heavily wooded areas be painted or replaced with highly visible material prior to advancing the mine in that direction.](#)

Permit Stipulations: There are no permit stipulations.

Storm Water MGT Plan: No oil or fuel spills observed.

Structures: No new structures were observed within 200 feet of the affected area.

Please contact Tim Cazier (303)328-5229 or email at tim.cazier@state.co.us if you have any questions regarding this report.

PHOTOGRAPHS



Photo 1. Backfilled & topsoiled upper bench area (looking west).

PHOTOGRAPHS (cont.)



Photo 2. Exposed groundwater in sediment pond (~150 ft. east of scale house).



Photo 3. Pit highwalls from SE side of working area (looking NW).

PHOTOGRAPHS (cont.)



Photo 4. Realigned upper access road undergoing reclamation (Note small erosion rills).



Photo 5. Active pit and mining equipment (note concurrent upper bench reclamation in foreground).

PHOTOGRAPHS (cont.)



Photo 6. Permit sign near scale house.



Photo 7. Typical boundary marker (NE area, hard to find in wooded areas).

Inspection Contact Address

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ec: DRMS file
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