



COLORADO


Division of Reclamation,
Mining and Safety

Department of Natural Resources

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: Pikeview Quarry	MINE/PROSPECTING ID#: M-1977-211	MINERAL: Limestone (general), granite, granite gneiss and dolomite	COUNTY: El Paso
INSPECTION TYPE: Monitoring	WEATHER: Clear	INSP. DATE: July 18, 2023	INSP. TIME: 09:30
OPERATOR: Riverbend Industries Inc.	OPERATOR REPRESENTATIVE: Jerry Schnabel	TYPE OF OPERATION: 112c - Construction Regular Operation	
REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: None	BOND AMOUNT: \$13,389,784.00	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: U.S.Forest Service	JOINT INSP. AGENCY: U.S.Forest Service	
INSPECTOR(S): Timothy Cazier, P.E.	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: July 20, 2023	

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>N</u>	(RD) ROADS----- <u>Y</u>
(HB) HYDROLOGIC BALANCE----- <u>Y</u>	(BG) BACKFILL & GRADING----- <u>Y</u>	(EX) EXPLOSIVES----- <u>N</u>
(PW) PROCESSING WASTE/TAILING---- <u>N</u>	(SF) PROCESSING FACILITIES----- <u>N</u>	(TS) TOPSOIL----- <u>Y</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>N</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>N</u>	(RS) RECL PLAN/COMP-- <u>Y</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>N</u>	(SC) EROSION/SEDIMENTATION-- <u>Y</u>	(ST) STIPULATIONS----- <u>N</u>
(AT) ACID OR TOXIC MATERIALS----- <u>N</u>	(OD) OFF-SITE DAMAGE----- <u>N</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 continuing planned monthly inspections to observe the backfill placement for the final reclamation of the Pikeview Quarry. Jerry Schnabel (representing the Permittee, Riverbend Industries) was present during the inspection. Amy Titterington and Leah Shipstead (USFS) were also onsite for the inspection.

The Pikeview Quarry is accessed from near the intersection of Centennial Blvd. and Vindicator Dr. north of Colorado Springs. The quarry is actively focused on final reclamation. The purpose of this inspection was to observe backfill placement and compaction effort. This included reviewing compaction testing records.

Records: No backfill had been placed since June 9, 2023. Mr. Schnabel explained this was due to the consistent heavy rains received in June (beginning with a 7-inch storm in May and another 8 to 9 inches of rain in June, according to Mr. Schnabel) and the transition to a new earthworks contractor expected to be on site within the next few weeks.

Site representatives presented the prism data from the previous month for the GEOMOS system (which tracks the slide area movement). The data continues to indicate the placement of backfill material has likely halted movement of the slide as the trend of the graphed movement data has remained flat for several months. Mr. Schnabel pointed out four prisms indicated vertical movement on the order of 0.15 feet in May after the heavy rain event, but recorded movement in June and July indicated the movement had slowed. This suggests consolidation of the material as a result of the heavy rain.

Backfilling and Grading: Dozers were observed spreading topsoil below the first bench (see **Photo 1**). Topsoil placement appeared to be complete in the former shop area (see **Photo 2**). Additional imported topsoil was observed in the topsoil stockpile area north of the office (see **Photo 3**). No active excavation was observed.

Fish and Wildlife: No bighorn sheep were observed, but two peregrine falcons were seen near the top of the slide area, demonstrating the area continues to be used by wildlife.

Revegetation: The DRMS inspected the plant growth emerging from the two seeded areas on the north end. The area covered with erosion control blanket (Curlex™) on the west appeared to be faring better (see **Photo 4**) than the hydromulched area (see **Photo 5**). Broadleaf plants were more dominant than grasses, but grasses were observed emerging in both areas. Scotch thistle was observed in the area near the culvert on the north end (see **Photo 6**). Most of this area will be removed as future grading for the north channel will drop the ground elevation 10 to 30 feet.

Sediment Control: Erosion rills and gullies had been repaired on the backfill lower bench slope as part of the topsoil placement. It is expected the erosion features on the upper backfill slope will be repaired as part of the topsoil placement there. Some minor erosion rills were observed in the hydromulched area (see **Photo 7**). The rills are minor but will need to be monitored and repaired if they become significant. The blocked culvert inlet had been exposed but appeared to be plugged to the top inside (see **Photo 8**). Mr. Schnabel committed to deploying some equipment to see if the former small opening at the top could be reestablished.

Post Inspection Meeting: Mr. Schnabel stated the weed spraying contractor was expected to be onsite by the of the week. He also noted the 2008 slide occurred roughly six months after heavy rains in that year. The GEOMOS system monitoring over the next four to six months should provide a good indicator of how effective the placed compacted backfill is at stabilizing the slide. Discharge from the French drain system was discussed

and observed to be flowing with clear water (see **Photo 9**). The status of the expected Technical Revision (TR) addressing the realignment of the stormwater drainage channels was discussed as the DRMS had not received it at the time of the inspection. Mr. Schnabel committed to seeing it get delivered to the DRMS as soon as possible.

No problems or potential violations were observed during this inspection.

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. Dozers grading topsoil below lower backfill bench (looking SW).

PHOTOGRAPHS (cont.)



Photo 2. Placed topsoil on regraded former shop area (looking NW).



Photo 3. Additional stockpiled, imported topsoil (north of office).

PHOTOGRAPHS (cont.)



Photo 4. Emerging vegetation on Curlex™ area (yellow field book for scale).



Photo 5. Emerging vegetation on hydromulched area (field book for scale, arrow indicates edge of Curlex™).

PHOTOGRAPHS (cont.)



Photo 6. Scotch thistle near NW culvert (looking north at area to be regraded).



Photo 7. Erosion rills in hydromulch area (looking upslope) TM).

PHOTOGRAPHS (cont.)



Photo 8. Re-exposed NW culvert inlet (looking SE at area to be regraded, note Scotch thistle lower left).



Photo 9. Clear discharge from French drain (~350 NW of office).

Inspection Contact Address

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