




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: Lykins Gulch	MINE/PROSPECTING ID#: M-2000-090	MINERAL: Dolomite and sandstone stone, quartzite)	COUNTY: Boulder
INSPECTION TYPE: Monitoring	WEATHER: Clear	INSP. DATE: September 19, 2024	INSP. TIME: 11:00
OPERATOR: Loukonen Bros. Stone Company	OPERATOR REPRESENTATIVE: Michael Loukonen	TYPE OF OPERATION: 110c - Construction Limited Impact	
REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: Complete Bond	BOND AMOUNT: \$21,000.00	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None	
INSPECTOR(S): Patrick Lennberg	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: September 30, 2024	

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>N</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>N</u>
(PW) PROCESSING WASTE/TAILING---- <u>N</u>	(SF) PROCESSING FACILITIES----- <u>N</u>	(TS) TOPSOIL----- <u>N</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>Y</u>	(FW) FISH & WILDLIFE----- <u>N</u>	(RV) REVEGETATION---- <u>N</u>
(SM) SIGNS AND MARKERS----- <u>Y</u>	(SP) STORM WATER MGT PLAN---- <u>N</u>	(RS) RECL PLAN/COMP-- <u>N</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>N</u>	(SC) EROSION/SEDIMENTATION--- <u>N</u>	(ST) STIPULATIONS----- <u>Y</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

The Lykins Gulch site was inspected by Patrick Lennberg with the Division of Reclamation, Mining and Safety (Division/DRMS). The inspection was completed as part of the Division's routine monitoring program. The site was last inspected by the Division on March 22, 2017, as part of the routine monitoring program. Michael Loukonen, representing the Operator, Loukonen Brother Stone Company, accompanied me during the inspection.

The site is 110c Construction Materials permit for 9.9 acres to mine sandstone. The mine is located in Boulder County, approximately 6 miles southwest of Lyons, CO. The site is accessed from off Hwy 36 to the west. The post-mining land use for this site is rangeland. The affected lands are owned by Loukonen G-4, LLC whose registered agent is L. Dean Loukonen. A mine sign was posted at the primary mine entrance as required by Rule 3.1.12. The weather was clear and mild.

Originally the permit application requested a 9.9-acre permit area, and this acreage amount is shown in the Division's permit system. However, a review of the approved site maps, it appears the permit area is actually comprised of 9 acres, including a 5.5-acre north quarry, a 2.5-acre south quarry, and a one-acre storage area along the main access road. The main access road was not included in the permit area. The Division simultaneously approved an acreage reduction (Revision No. AR-01) and a permit amendment (Revision No. AM-01) on 9/16/2002, which reduced the north quarry by 2 acres (from 7.5 acres to 5.5 acres), increased the south quarry by 1 acre (from 1.5 acres to 2.5 acres), and added the one-acre storage area. These revisions were submitted as Board-ordered corrective actions for infraction no. MV-2002-020 (issued 7/24/2002) for a total of 1.09 acres of offsite disturbance.

An old dolomite quarry is present southeast of the permitted site. This quarry was mined in the 1960's, and is not included in this permit as it will not be disturbed by current operations.

The dolomite is removed as overburden and stockpiled separately for use in road maintenance on site and reclamation. The sandstone deposit is approximately 40-60 feet thick and is extracted with the use of hand tools. No material processing occurs on site, besides basic stone working. The approved reclamation plan includes backfilling all disturbed areas with any remaining overburden, grading the surface to gradients of 3H:1V or flatter, and spreading 4-6 inches of growth medium across the disturbed land. Very little topsoil is present on site. However, the operator committed to separating any salvaged topsoil, and importing additional growth medium, as needed, for reclamation. The site will be seeded with western wheatgrass, needle-and-thread, and Arizona fescue for a post-mining land use of rangeland. The main access road will remain after reclamation.

The site burned during the fast moving Cal-Wood Fire that burned ~8,600 acres beginning in October 2020. As a result of the fire several of the permit boundary markers were melted or destroyed. However, most of the markers were found in the field.

The Division observed the south quarry, which includes two primary working benches and various stockpiles of overburden and waste rock at the toe of the excavations. The operator appears to be mining the south quarry generally westward. The permitted acreage for the south quarry is 2.5 acres. The Division estimates the operation has disturbed approximately 1.2 acres in the south quarry area. The Division observed the north

quarry, which includes three primary working benches and various stockpiles of overburden and waste rock at the toe of the excavations. The operator appears to be mining the north quarry generally westward and northward. The permitted acreage for the north quarry is 5.5 acres. The Division estimates the operation has disturbed approximately 2.5 acres in the north quarry area. The Division estimates the operation has disturbed a total of 4.7 acres at the site, including both quarries and the one-acre storage area. The storage area has largely been reclaimed and only a couple of pallets of material need to be removed. The site is mined every year but at a very slow rate.

The Division observed the storage area adjacent to the main access road, which the operation uses for staging of equipment, and storage of palletized material. The Division observed a group of concrete box culverts stored adjacent to the main access road, but outside of the permitted storage area. The Division also observed a stockpile of asphalt grindings present north of the main access road, stockpiles of soil material and concrete rubble which are outside of the permit area. The operator indicated the asphalt was brought in by the county transportation department to be stored temporarily for nearby road improvement projects. The soil and rubble piles are going to be used to stabilize the ephemeral stream that runs through the property. Because the culverts and asphalt stockpile do not appear to be associated with the mine operation, the Division will not consider it affected land. However, the operator should be cautious in storing any construction-related materials or equipment close to the permitted areas, as it could be considered off-site damage.

The Division evaluated the financial warranty and determined the current bond amount held by the Division is adequate at this time. However, the Division recommends the operator initiate some reclamation activities in those areas that are no longer going to be mined. Additionally, the property where the permit is located is for sale.

Photographs taken during the inspection are attached.

Please contact Patrick Lennberg by email at patrick.lennberg@state.co.us if you have any questions regarding this report.

Inspection Contact Address

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ec: Michael Loukonen, Loukonen Bros. Stone Company, mdlbs@earthlink.net

PHOTOGRAPHS



Photo 1: Mine sign at primary mine entrance



Photo 2: Typical mining area in the North Quarry looking south



Photo 3: Mining face in the North Quarry looking north



Photo 4: Overburden/waste rock pile North Quarry area



Photo 5: Looking at the northern most quarry site in the North Quarry area



Photo 6: Looking east from the southernmost quarry site in the North Quarry area



Photo 7: Typical permit boundary marker, melted during fire



Photo 8: Typical permit boundary marker south quarry area



Photo 9: South quarry area



Photo 10: South quarry area looking uphill to the west

