



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: Glacier Rock	MINE/PROSPECTING ID#: M-1994-096	MINERAL: Gravel	COUNTY: Larimer
INSPECTION TYPE: Monitoring	WEATHER: Clear	INSP. DATE: December 27, 2024	INSP. TIME: 12:30
OPERATOR: Glacier Rock Company	OPERATOR REPRESENTATIVE: Roger Hagerman	TYPE OF OPERATION: 112c - Construction Regular Operation	

REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: None	BOND AMOUNT: \$52,475.00
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None
INSPECTOR(S): Jocelyn Carter	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: January 28, 2025

The following inspection topics were identified as having Problems or Possible Violations. OPERATORS SHOULD READ THE FOLLOWING PAGES CAREFULLY IN ORDER TO ASSURE COMPLIANCE WITH THE TERMS OF THE PERMIT AND APPLICABLE RULES AND REGULATIONS. If a Possible Violation is indicated, you will be notified under separate cover as to when the Mined Land Reclamation Board will consider possible enforcement action.

INSPECTION TOPIC: Gen. Compliance With Mine Plan

PROBLEM #1: The approved mining plan call for working slopes no greater than 3H:1V; the working slopes appeared to be near vertical. The current mine plan needs to be updated and clarified pursuant to C.R.S. 34-32.5-112 (1)(c)(VI). The Operator must provide sufficient information to describe or identify how the Operator intends to conduct the operation.

CORRECTIVE ACTIONS: The Operator may bring the slopes back into compliance with the currently approved mining plan of no greater than a 3H:1V gradient and provide photographs to the Division by the corrective action due date. Alternatively, the Operator may submit a Technical Revision, with the required \$216 revision fee, to update and clarify the current approved mine plan to reflect existing and proposed activities by the corrective action date. The updated mining plan and map may be included in the Technical Revision application that is to be submitted to address the problem cited for the reclamation plan compliance; only one Technical Revision needs to be submitted.

CORRECTIVE ACTION DUE DATE: 2/28/25

INSPECTION TOPIC: Reclamation Success

PROBLEM #2: Portions of areas that have been reclaimed were found to be re-disturbed by an aggregate recycling yard operation. This is a problem for failure to follow approved reclamation plan, or current reclamation plan needs to be updated and clarified pursuant to C.R.S. 34-32.5-116 (1). The Operator must follow approved reclamation plan or provide sufficient information to describe or identify how the Operator intends to

conduct reclamation.

CORRECTIVE ACTIONS: The Operator shall submit a Technical Revision, with the required \$216 revision fee, to update and clarify the current approved reclamation plan to reflect existing and proposed activities, including the details of the lease agreement with the Castle Rock Construction of Colorado LLC for the aggregate recycling operation by the corrective action date.

CORRECTIVE ACTION DUE DATE: 2/28/25

OBSERVATIONS

Glacier Rock, Permit No. M-1994-096, was inspected by me, Jocelyn Carter, on behalf of the Division of Reclamation, Mining, and Safety (Division/DRMS). The Glacier Rock Company is the permittee for this operation and Roger Hagerman was present during the inspection on their behalf. The weather was clear with mild temperatures at the time of the inspection.

Glacier Rock is located in Larimer County about 5 miles north of the town of Wellington, Colorado. The operation is permitted for 49.0 acres and is just east of Interstate 25. The operation extracts gravel for the purpose of road base and pipe bedding material. At the time of the inspection, mining activity was not taking place. The total depth of the operation is about 20 feet, with 2 feet of overburden, and it is a dry operation. The current depth of the pit appeared to vary between 12 to 20 feet. The area in the eastern portion of the pit appeared to be about 12 feet deep while the area in the western portion of the pit appeared to be closer to 20 feet in depth. The post mine land use is rangeland.

Photos taken during the inspection are included in this report along with a map created of data collected during the inspection for reference. Any questions regarding this inspection can be directed to me by email at Jocelyn.carter@state.co.us or by phone at (720) 666-1065.

Records

Glacier Rock is up to date with submitting their annual report, map, and fees. There are no open enforcement actions or minor infractions for the permit. According to their responses to the annual report questions, the Operator reports that they are approved for temporary cessation and that they are an intermittent operation. For clarification, the operation is not in Temporary Cessation and the operation does not seem to be an intermittent operation. The Operator is advised to answer "No" to these two questions for their next annual report.

Hydrological Balance

The hydrologic balance did not appear to have been disturbed by this operation.

General Mine Plan Compliance

There is an issue with the general mine plan compliance. According to the mining plan that was approved with the Conversion Application (2/28/2005), the working slopes are to maintain a 3H:1V slope during the mining process. The slopes of the working areas appear to have exceeded a 3H:1V, see Photos #3, #4, and #5. The information about the required corrective action is given above; please submit the required items called for by the given due date.

Signs and Markers

The mine entrance sign was posted at the west entrance as required by Rule 3.1.12(1), see Photo #1. The permitted boundary is partially marked by fencing along the northern, southern, and western boundaries.

Overburden/Developed Waste

The overburden stockpile appeared to be stable, with some voluntary vegetation, and in good condition.

Financial Warranty

The current bond being held by the Division is \$52,475.00. The bond will be recalculated with the submission of the required Technical Revision regarding the problem cited here for failure to follow the reclamation plan.

Processing Facilities

The operation does not call for any permanent processing facilities on site. There were two portable screening conveyors setup in the south-central section of the pit floor that were observed, see Photo #2.

Roads

The roads on site appeared to be in good condition with no erosional issues, see Photo #10.

Topsoil

There are three primary areas where topsoil is stockpiled on the permit, all three are in the north-central area of the permit and the active mining area, see Photos #8 and #9. Topsoil stockpiles appeared to be stable, well vegetated, and sufficient in size to meet reclamation needs.

Revegetation

There did not appear to be any noxious weeds within the permitted area of the recently disturbed areas.

Reclamation Success

According to records, there is an area located to the south of the entrance road that has been reclaimed. This area appeared to be in good, stable condition with no issues.

Approximately 2.9 acres located in the northwest area of the permitted area that had previously been reclaimed has been re-disturbed. The Operator has leased out this area to Castle Rock Construction Company of Colorado LLC for the purpose of operating an Aggregate Recycling Yard for a nearby CDOT Project located on Interstate 25. Broken pavement material is brought on site to be crushed and screened before being removed from the permit for the purpose of a road project, see Photos #11, #12, #13, and #14. The leased operation does require them to perform reclamation activities on the areas that they have disturbed. This operation started in Spring of 2024 and is scheduled to complete operations in Spring of 2026. This is also noted as a problem as it is not included in the approved mining or reclamation plan; see the citation given above for more information.

PHOTOGRAPHS



Photo #1: Mine sign posted at the entrance located on the west side of the permit area.



Photo #2: View of the pit floor from the east-central portion of the pit, looking to the northwest. The portable screening plants can be seen at the central of the photo with product material stockpiles (without vegetation) and overburden and topsoil stockpiles (vegetated) viewed.



Photo #3: View of the working slope, looking to the south from the east side of the pit. The working slopes appear near vertical and approximately 12 feet in height.



Photo #4: View of the working slope, looking west-northwest from the southwestern side of the pit. The working slopes appear near vertical and are approximately 20 feet in height.



Photo #5: View of the working slope, looking to the north from the northcentral side of the pit. The working slopes appear near vertical and are approximately 18 feet in height



Photo #6: Stockpiled material located near the pit entrance, looking north from the south side of the southernmost stockpile.



Photo #7: View of multiple stockpiles of product material from the west entrance of the site; looking to the east-southeast.



Photo #8: Multiple overburden and topsoil stockpiles located in the northcentral portion of the permit area; looking to the east-southeast. The stockpiles all appear to be vegetated and stable.



Photo #9: Multiple overburden and topsoil stockpiles located in the northcentral portion of the permit area; looking to the southwest. Stockpiles appear to be vegetated and stable.



Photo #10: View of the haul road located on the east side of the pit.



Photo #11: View of the southern area that has been leased out for an aggregate recycling yard; looking to the southwest from the haul road.



Photo #12: View of the northern area that has been leased area for the aggregate recycling yard; looking to the west from the haul road.



Photo #13: Stockpile of the imported pavement material brought onto the site for processing, located in the northeast of the leased area.



Photo #14: Stockpiles of imported pavement material after being crushed and screened; looking to the southeast from the west side of the leased portion of the permit area.

GENERAL INSPECTION TOPICS

The following list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each

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

Inspection Contact Address

Roger Hagerman
Glacier Rock Company
1809 S CR 5
Fort Collins, CO 80525

CC: Amy Eschberger, DRMS