




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: Cross Gold Mine	MINE/PROSPECTING ID#: M-1977-410	MINERAL: Gold, copper, silver,	COUNTY: Boulder
INSPECTION TYPE: Preoperation Inspection	WEATHER: Cloudy	INSP. DATE: July 30, 2025	INSP. TIME: 10:00
OPERATOR: Grand Island Resources LLC	OPERATOR REPRESENTATIVE: Richard Mittasch, Ben Langenfeld	TYPE OF OPERATION: 110(2) - Hard Rock Limited Impact	
REASON FOR INSPECTION: Preoperation Inspection	BOND CALCULATION TYPE: None	BOND AMOUNT: \$546,751.00	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None	
INSPECTOR(S): Patrick Lennberg Lucas West Jared Ebert	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: August 18, 2025	

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>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>N</u>	(RS) RECL PLAN/COMP-- <u>N</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>Y</u>	(SC) EROSION/SEDIMENTATION--- <u>N</u>	(ST) STIPULATIONS----- <u>N</u>
(AT) ACID OR TOXIC MATERIALS----- <u>Y</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 Cross Gold Mine was inspected by Patrick Lennberg, Lucas West, and Jared Ebert with the Division of Reclamation, Mining and Safety (Division/DRMS). The inspection was a pre-operation inspection in response to the Conversion Application (CN-1), received by the Division on December 16, 2024. The application was deemed complete for the purpose of filing on February 6, 2025. This inspection also serves as the third quarter 2025 inspection as part of the increased inspection frequency for the site. Richard Mittasch, Je'an-Paul Brewer, and Ben Langenfeld, representing Grand Island Resources, LLC (GIR), the Permittee/Operator, accompanied us during the inspection. The weather was cloudy with scattered rain.

Currently, the Cross Gold Mine is a 110(2) underground mine operation permitted for 9.9 acres for the mining of gold, silver, and other minerals. The permit area includes two discharging mine openings: the Cross Mine portal (at the Cross Mine) and the Idaho Tunnel portal (at the Caribou Mine). Mine effluent is directed to a plastic-lined pond (Pond 1) prior to being treated and discharged into Coon Track Creek at the CDPHE permitted discharge point (CO0032751). The mine is located on land owned by the Permittee. The site is located approximately 4 miles northwest of Nederland, CO in Boulder County, at an elevation of approximately 9,760 feet. Access to the site is from Caribou Road. A separate entrance exists for each of the two mines at the site, the Cross Mine (to the south) and the Caribou Mine (to the north). The approved post-mining land use is a combination of forestry and residential.

On December 16, 2024, the Operator submitted a conversion application for permit M1977-410. The application is to convert the current 110(2) permit to a 112(d)-3 permit. The application was called complete on February 6, 2025, and the close of the public comment period was April 2, 2025. During the public comment period the Division received approximately 425 comments and objections on the application. On May 9, 2025, the Division issued its Preliminary Adequacy Review letter, and the Applicant/Operator is currently working on responses to the items contained in the letter. The designated mining operation (DMO) conversion application was a Board Ordered conversion application that was to be submitted prior to January 2025. The conversion application proposes to increase the permit boundary from 9.9 acres to 205.7 acres an increase of 195.71 acres. The application proposes two separate permit areas, the Operations area and the Comstock area. The Operations area encompasses both mine portals, the Cross and Idaho Tunnel, the main offices and shops and the water treatment plant and associated infrastructure. The Comstock area has several weathered storage buildings, conex storage containers, historic mine waste dump piles, and the Caribou 300 Portal.

Currently the entrance of the Caribou 300 Portal consists of a snow shed with a locking gate. The portal has collapsed approximately 80 feet from the gate, towards the hillside, and access to the underground workings is not possible. If the conversion is approved the portal will be evaluated and maybe rehabilitated into a ventilation shaft and or an emergency escape way for underground operations in the area.

The Division did observe the Idaho Tunnel, located in the Operations Area, from Caribou Road and from the tunnel entrance. The Operator stated that recently three cores had been advanced to determine the stability and competency of the bedrock surrounding the entrance. The competency of the surrounding rock is needed to determine how the entrance will be rehabilitated for long-term stability. The results of the core drilling and a proposal for the rehabilitation are expected to be included with the conversion application preliminary adequacy review responses.

Also located at the Idaho Tunnel entrance are the 3-Series Ponds. On July 13, 2025 the Operator submitted Technical Revision 16 (TR-16) which provided the details on how the Operator plans on decommissioning and reclaiming the sediment ponds. The ponds were approved to be installed with the approval of TR-2 in 1987. They were installed as settling ponds to remove sediment to meet water quality standards at that time. Currently, mine effluent is being conveyed to Pond 1 via a pipeline that was installed two winters ago when the ponds were freezing over, and Xcel Energy was discontinuing electrical service during winter storms. Since the pipeline was installed there has been no need for the ponds. On August 11, 2025, the Division approved TR-16 to remove the 3-series ponds.

The Division observed Ponds 1 and 2. Pond 1 was receiving water from the Cross Mine while Idaho Tunnel effluent was being directed into the Cross Mine. From Pond 1, water was being directed through the water treatment system which once treated was being discharged at the permitted discharge location on Coon Track Creek. Pond 2 receives backflush water from the water treatment plant during routine maintenance of the filter media. Pond 2 has numerous Tiger Salamander larvae in it. Also observed at Pond 2 were two pipes that discharge water to the pond. A white pipe is used for the backflush water from the treatment plant. Another black pipe is an alternative discharge pipe for Idaho Tunnel effluent water. During conversations about the pipe the Operator stated that they would remove the pipe during the regrading process of the haul road as the pipeline is not useful now.

Near the Cross Mine entrance, the Division observed several large stacks of lumber. The Operator has plans to begin construction of the snowshed over the tracks and leading to the mine entrance as approved in TR-12. It is unclear if the Operator plans on relocating the water treatment plant at the same time, which was also approved in TR-12.

The Division observed the inside of the warehouse. In the warehouse the Division noted a SuperSacs of spent filters and approximately 10 SuperSacs of sediment from the water treatment operations, including sediment from the water treatment methods used by the previous Operator. The sediment is from the cleaning out of the ponds and backflush material from the treatment system. This material is to be disposed of in an appropriate off-site facility. The Operator is to submit to the Division prior to transporting the sediment and filters off-site, for proper disposal, a memo that provides information from analytical sample results of the materials where the materials are to be disposed and any other relevant information that shows proper disposal protocols are being followed.

Photographs taken during the inspection are attached.

If you have any questions regarding this report please contact me by email at patrick.lennberg@state.co.us.

Inspection Contact Address

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PHOTOGRAPHS



Photo 1: Caribou 300 Portal gated entrance



Photo 2: Caribou 300 Portal snowshed looking towards the gated entrance



Photo 3: Caribou 300 Portal collapsed portion towards hillside



Photo 4: Conex boxes in the Comstock Area



Photo 5: Weathered storage buildings in Comstock Area



Photo 6: Looking from Caribou Road down to the Idaho Tunnel entrance



Photo 7: Idaho Tunnel effluent discharge



Photo 8: Pond 3C



Photo 9: Pond 1, discharge in background is from the Joliet Raise and the pipe in the foreground is for Idaho Tunnel effluent direct discharge to pond



Photo 10: Back flushing discharge pipe from Pond 1 going to Pond 2



Photo 11: Back flushing discharge pipe from Pond 1 going to Pond 2, and black pipe from Idaho Tunnel



Photo 12: Pond 2



Photo 13: CDPHE approved discharge location, black pipe is from water treatment plant white pipe not used from Pond 2



Photo 14: New snowshed location



Photo 15: SuperSacs in warehouse building of pond sediment and backflush sediment material



Photo 16: SuperSacs in warehouse building of spent water treatment filters



Photo 17: Typical notice sign of application



Photo 18: Surface water flow at downstream sampling location