




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, lead	COUNTY: Boulder
INSPECTION TYPE: Monitoring	WEATHER: Clear	INSP. DATE: August 30, 2024	INSP. TIME: 09:00
OPERATOR: Grand Island Resources LLC	OPERATOR REPRESENTATIVE: Je' An-Paul Brewer	TYPE OF OPERATION: 110(2) - Hard Rock Limited Impact	
REASON FOR INSPECTION: High Priority	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	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: September 10, 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>Y</u>	(FN) FINANCIAL WARRANTY----- <u>N</u>	(RD) ROADS----- <u>N</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>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>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 with the Division of Reclamation, Mining and Safety (Division/DRMS). The inspection was completed as part of the Division's increased inspection frequency, the permit is to be inspected on a quarterly basis. The site was previously inspected by the Division on June 19, 2024 during the second quarter inspection of 2024. Je'An-Paul Brewer representing Grand Island Resources, LLC (GIR), the Permittee/Operator, accompanied me during the inspection. The weather was clear.

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). Discharge from these mines is directed to a series of plastic-lined ponds prior to being treated and discharged into Coon Track Creek at the 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.

The site was not active during the inspection. The only activities reported to be taking place are related to normal operational activities associated with the water treatment plant and site maintenance. Since the last inspection four trees have been removed around the water treatment plant relocation approved in TR-12.

As noted in the previous inspection reports, the Operator is diverting the Idaho Tunnel effluent into a pipeline that bypasses the series 3 Ponds and discharges to Pond 1. The Operator then can direct water from Pond 1 to Joliet Raise for storage prior to being treated and released. The 3 series Ponds, 3a, 3b and 3c, were observed during this inspection. The ponds still contained some sediment and minor amounts of water. During the inspection the Division reiterated what steps were needed to abandon the ponds. The Division stated the Ponds could be abandoned through a Technical Revision that provided the details on the proper disposal of the sediment, as determined through chemical analysis, and the remaining geomembrane. Once the revision was approved the Operator could proceed. The Operator could collect sediment samples for TCLP, or similar analysis, to determine proper disposal of the residual sediment. Ultimately the Operator would like to use the current pond locations for equipment laydown and to allow better access to the tunnel.

The other ponds, Pond 1 and Pond 2, were observed during the inspection. Pond 1 was clear and was operating as intended. Pond 2 was holding some water. The water in this pond is a combination of back-flush water and sediment from the water treatment plant, meteoric water, and runoff water. As stated in previous inspections, that when the Operator determines a proper disposable facility for the sediment, in the pond, that they provide the Division with the letter of acceptance from the facility along with the analytical results. It was also stated these similar documents were also needed for disposal of any water treatment sludge and associated filter bags as committed to in TR-10.

On August 27, 2024, the Operator submitted TR-15 to reduce the number of analytes that groundwater and surface water samples are analyzed for. The Division is currently in the process of reviewing the submittal.

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: Je'an-Paul Brewer, Grand Island Resources LLC, jpbrewer@nedmining.com

PHOTOGRAPHS



Photo 1: Pond 3a in the foreground



Photo 2: Pond 3b



Photo 3: Pond 3c



Photo 4: The Idaho Tunnel at the Caribou Mine



Photo 5: Pond 1



Photo 6: Trees removed from the new water treatment location



Photo 7: Pond 2



Photo 8: Cross Tunnel at the Cross Mine