




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: Deterding Pit	MINE/PROSPECTING ID#: M-2011-006	MINERAL: Sand and gravel	COUNTY: Yuma
INSPECTION TYPE: Monitoring	WEATHER: Clear	INSP. DATE: August 31, 2023	INSP. TIME: 11:00
OPERATOR: Yuma County	OPERATOR REPRESENTATIVE: Tom Anderson	TYPE OF OPERATION: 112c - Construction Regular Operation	
REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: None	BOND AMOUNT: N/A	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None	
INSPECTOR(S): Nikie Gagnon	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: October 11, 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>N</u>	(FN) FINANCIAL WARRANTY----- <u>N</u>	(RD) ROADS----- <u>N</u>
(HB) HYDROLOGIC BALANCE----- <u>N</u>	(BG) BACKFILL & GRADING----- <u>N</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>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 as part of the Division of Reclamation, Mining and Safety's (Division or DRMS) routine monitoring program for permitted operations. Nikie Gagnon, with the Division, conducted the inspection. Tom Anderson, representing Yuma County (Operator) accompanied the Division during the inspection.

The Deterding Pit is located 5 miles west of Wray, CO on US 34. The site is a 112c operation permitted to affect 56.70. Affected lands will be reclaimed to support a rangeland post-mining land use. At the time of the inspection, it was clear and warm, and the site was dry. The site was not active at the time of inspection and no equipment was on-site. This site was originally a 28-acre 111 special construction material pit. In 2011, Yuma County converted the permit to a 112c and increased the permit acres to 56.70 to give the County a long-term supply of material for the county roads. Mr. Anderson stated the County is still actively mining this site.

Gen. Compliance With Mine Plan:

The original 111 mined area was in the northeast corner of the permit area, on the east side of an intermittent drainage channel that runs north to south across the site. The original excavation was graded, topsoiled and seeded prior to approval of the 112c conversion. Over the years, the area of active mining moved west. The current operation consists of a large u-shaped excavation on the west side of the drainage that daylights to the north. The pit area is flat. The side slopes of the pit were observed to be 3H:1V or shallower on three sides and the highwall along the southern limit of the pit is closer to 2H:1H in some areas. Two stockpiles of mined material was observed in the pit area.

There are two access points off Highway 34 in the northeast and northwest corners of the permit area. A gravel road runs around 3 sides of the pit. The approved mine plan states the operation will maintain a 225' setback between the northern edge of the active pit and Highway 34 and a 25-foot setback around the perimeter of the active mining area to allow for inspections and maintenance. The Division observed these setbacks during this inspection.

Topsoil:

Topsoil is salvaged and stored in a berm above the highwalls on the southern and western sides of the pit. The berms are vegetated with grasses, some annual weeds were observed growing on bare patches on side slopes and on top of the berm, however no erosion gullies were observed, and the topsoil is stable. The approved mine plan states the topsoil berms will be seeded with crested wheat grass to minimize blowing and erosion. The Division recommends reseeding bare patches on the topsoil pile. According to the mine plan, there is no overburden to stockpile.

Hydrologic Balance:

No standing water was observed in the pit during the inspection. The intermittent drainage was also dry.

Signs and Markers:

A mine sign was posted in accordance with Rule 3.1.12(1) at the entrance to the pit and the boundaries are marked in the corners with metal posts painted red at the top.

Reclamation Plan:

The approved mine plan states the intent is to work approximately 10 acres at a time in three mining phases over the life of the mine. According to the plan, after Area 1 is mined, the topsoil will be spread out evenly and a 3:1 slope will be maintained on the side walls.

The final reclamation plan includes grading all slopes to 3:1 or shallower, ripping the mined area across the slope to catch moisture and loosen soil, and spreading the stockpiled topsoil over the prepared area. The permit area will be seeded with the approved seed mix utilizing a drill seeding method, and weed free straw or banded fiber matrix will be applied at 3,000 pounds per acre. Once reclaimed, the area will be inspected for noxious weeds on a regular basis. The existing roadway will remain for use by the landowner and all internal haul roads will be reclaimed.

This concludes the Division's Inspection Report; a subset of photographs taken during the time of the inspection are included below. If you need additional information or have any questions, please contact me at Division of Reclamation, Mining and Safety, 1313 Sherman Street, Room 215, Denver, CO 80203, by telephone at 303866-3567 x8126, or by email at nikie.gagnon@state.co.us.

PHOTOGRAPHS



Photo 1: Looking south across the pit floor. Stockpiled material stored along the base of the highwall.



Photo 2: Looking southeast at stockpile of material stored in the pit.



Photo 3: Looking highwall along the southern limit of the pit. Arrows point to area where highwall is steeper than 3:1.



Photo 4: Looking west from the pit floor. Topsoil berm located on the western side of the pit.



Photo 5: Looking north at boundary marker located on the eastern side of the permit area.



Photo 6: Looking east at boundary marker located outside a topsoil berm along the southern boundary.



Photo 7: Looking west across the excavated mining area.



Photo 8: Looking northeast across older mining area. Red arrow points to intermitted drainage between the two mining areas that drains to the south.



Photo 9: Entry point and access road on the east side of the permit area.



Photo 10: Mine sign posted at east entrance off Highway 34.



Photo 11: View of the backside of the topsoil berm. Some bare patches and annual weeds and sunflowers growing on the berm. Recommend overseeding with the approved seed mix.

Inspection Contact Address

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