




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: Barlow Pit	MINE/PROSPECTING ID#: M-1974-092	MINERAL: Sand and gravel	COUNTY: Morgan
INSPECTION TYPE: Monitoring	INSPECTOR(S): Brock Bowles	INSP. DATE: March 19, 2021	INSP. TIME: 10:00
OPERATOR: Dorn Ready Mix Corp.	OPERATOR REPRESENTATIVE: Ross Dowling	TYPE OF OPERATION: 112c - Construction Regular Operation	

REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE:	BOND AMOUNT: \$15,000.00
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None
WEATHER: Clear	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: April 9, 2021

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: Hydrologic Balance

PROBLEM/POSSIBLE VIOLATION: Problem: A fuel spill has occurred at the site which has impacted soils, surface water or groundwater. This is a problem pursuant to Rule 3.6.1(1)(b) for failure to comply with federal and Colorado water quality laws and regulations, including statewide water quality laws and regulations, including statewide water quality standards.

CORRECTIVE ACTIONS: The operator shall immediately remediate the spill and submit a final report to the Division containing at least the following information:

- 1.) A description of how the spill was cleaned up containing at a minimum - volumes removed, sample locations, analytical data, and photo documentation.
- 2.) A water sample needs to be taken and submitted for analysis to determine that the remaining spilled diesel was cleaned up. The water sample needs to be taken within two weeks of the date of the inspection (by April 2, 2021). The test results will then be submitted to DRMS within 1 week of receipt.

CORRECTIVE ACTION DUE DATE: 4/30/21

INSPECTION TOPIC: Boundary Markers

PROBLEM/POSSIBLE VIOLATION: Problem: The affected area boundary markers are missing. This is a problem for failure to maintain boundary markers around the affected area as required by Section 3.1.12(2) of the rule.

CORRECTIVE ACTIONS: The operator shall conduct a survey and replace the boundary markers in the correct location(s). The operator shall provide proof to the Division that this has been done by the corrective action date.

The operator shall submit a technical revision, with the required \$216 revision fee, to update the permit boundary legal description (Rule 6.4.1), the mining plan map (Rule 6.4.3) and the reclamation map (Rule 6.4.6) showing the permit boundary on each map. The Technical Revision needs to be submitted within 60 days of this report.

CORRECTIVE ACTION DUE DATE: 6/09/21

OBSERVATIONS

This inspection was conducted by Brock Bowles of the Division of Reclamation, Mining and Safety (Division). Ross Dowling and Gene Reeser (Operator) were present for the inspection. The Barlow Pit is located northeast of Fort Morgan, CO, just outside the city limit. The site is an active 112c operation with 40 acres permitted and the post-mining land use is wildlife habitat. The commodity is sand and gravel which is mined using a floating suction dredge. At the time of the inspection it was cool, clear and the ground was damp/muddy.

This inspection was conducted as a follow-up to a Spill Report submitted to CDPHE by the operator on March 16, 2021. It was reported that 15 gallons of hydraulic fluid was spilled into the water pond located on the minesite. The pond is about 18 acres in size and does not connect to any other water way. The operator deployed oil absorbent devices to clean up the site on the day of the spill. The operator said it was actually diesel fuel that spilled. There was a miscommunication among the company staff. Upon inspection of the pond, an oil sheen was seen on the eastern shore of the pond (photo 1). The remaining spill needs to be cleaned up and a water sample needs to be taken and submitted for analysis to determine that the remaining spilled diesel was cleaned up (Rule 3.6.1(1)(b)). The water sample needs to be taken within two weeks of the date of this inspection (by April 2, 2021). The test results then need to be submitted to DRMS within 1 week of receipt.

No permit boundary markers were in place at the time of the inspection. The most likely reason for this oversight is that the permit boundary was not clearly described in the original 1974 permit nor in a subsequent revision. The 1974 permit application states that mine will be located in "the east 40 acres of the following tract." The tract of land described is the property boundary which contains 73.77 acres according to the Morgan County Assessor's website. The maps submitted in the original application show the property boundary but do not outline the permit boundary. A map submitted in TR-1 (April 1999) shows the property boundary and the pit boundary. This map is a crude drawing and the scale is questionable, but it shows the pit area in the eastern section of the property roughly 27 acres in size, 13 acres less than the approved 40 acres. It appears that the location of the permit boundary was never clearly defined.

The property boundary on the north and east sides follow a tree line and the southern boundary is the I-76 highway right-of-way. So, it has been assumed by the operator that the permit boundary approximately follows the property boundary on these three sides. The western boundary does not have any natural markers as it goes through an agricultural field and its location is unclear. DRMS does not have any concerns that the operator mined outside the permit boundary because the mining related disturbances observed during this inspection are

all in the eastern section of the property, are within the property boundaries described in the permit, and the current mining disturbances consist of about 29 acres (40 acres approved). The property owner and the mine operator are the same entity, Dorn Ready-Mix.

The operator shall submit a technical revision, with the required \$216 revision fee, to update the permit boundary legal description (Rule 6.4.1), the mining plan map (Rule 6.4.3) and the reclamation map (Rule 6.4.6) showing the permit boundary on each map. The Technical Revision needs to be submitted within 60 days of this report.

The eastern shore of the pond was lined with rocks and concrete pieces (photo 2). Vegetation was well established around the rocks/concrete and the shoreline appeared stable. The south shoreline parallels Interstate 76. This area contained some concrete pieces/blocks and sand. This shoreline is where the waste material from the wash plant is deposited increasing the distance between the pond and highway (photo 3). The north shoreline is the active mining area and where the wash plant is located (photo 4). These areas did not have vegetation but appeared to be stable. The western shoreline is also being mined on the north section (photo 5). The southern section of the western shoreline is not being mine and is not reclaimed but appears stable.

Mining was not taking place during the inspection. The annual report shows that the last activity was in Oct 2020. This date appears consistent with site conditions. A large sand stockpile was located next to the wash plant ready for shipment.

PHOTOGRAPHS



Photo 1 – Petroleum sheen seen on eastern shoreline of pond.



Photo 2 – Eastern shoreline facing south



Photo 3- Southern shoreline facing west



Photo 4 – Wash plant, stockpile and dredge. From eastern shore facing northwest



Photo 5 – Dredge in the northern part of the pond, mining to the west. The tree line in the background is the property line.

GENERAL INSPECTION TOPICS

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

(AR) RECORDS-----	<u>N</u>	(FN) FINANCIAL WARRANTY-----	<u>N</u>	(RD) ROADS-----	<u>N</u>
(HB) HYDROLOGIC BALANCE-----	<u>PB</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>PB</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

Inspection Contact Address

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