



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: Jemadojin Sand Mine	MINE/PROSPECTING ID#: M-2006-017	MINERAL: Sand	COUNTY: El Paso
INSPECTION TYPE: Monitoring	INSPECTOR(S): Timothy Cazier, P.E.	INSP. DATE: August 3, 2021	INSP. TIME: 14:05
OPERATOR: Hourglass Sands LLC	OPERATOR REPRESENTATIVE: Jeff Perry & John Jonkousky	TYPE OF OPERATION: 112c - Construction Regular Operation	

REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: Partial Bond	BOND AMOUNT: \$128,878.00
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None
WEATHER: Cloudy	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: January 24, 2022

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: Availability Of Records

PROBLEM/POSSIBLE VIOLATION: Problem: Rule 1.13.5 states, if an Operator temporarily ceases production of the mining operation for one hundred eighty (180) days or more, the Operator must file a Notice of Temporary Cessation in writing to the Office, or declare the site is in final reclamation.

CORRECTIVE ACTIONS: The Division requires the Operator file for Temporary Cessation or declare the site is in final reclamation. The start date of the initial 5 year Temporary Cessation period is retroactive to the last date the pit was active (February 2019).

CORRECTIVE ACTION DUE DATE: 2/24/22

OBSERVATIONS

This inspection was conducted by Tim Cazier (DRMS) as part of the regular monitoring program. The Permittee (Hourglass Sands) was represented by Messrs. Jeff Perry (Hallador Energy) and John Jonkousky (EME Solutions) during the inspection. Ms. Maria Jindra (landowner) was also present for the inspection. The Jemadojin Sand Mine site entrance is one mile north of Myers Road on Dearing Road about 30 miles southeast of Colorado Springs in El Paso County. The mine was not active at the time of the inspection.

Availability of Records: Annual fees are paid through June 2021. The previous inspection was on July 26, 2017. The approved post-mine land use is rangeland. There were no open infractions prior to the inspection. Both the surface and minerals are privately owned. A review of DRMS records indicates the site was in temporary cessation between July 1, 2010 and June 1, 2018 when mining was resumed until February of 2019. As the site has not been active since that time, another period of temporary cessation must be requested, or the Permittee must declare they are beginning final reclamation, wherein reclamation will need to be completed within five years. If temporary cessation is requested, it will need to be retro-active to February 28, 2019. **The inactive status of the operation is cited as a problem on p. 1 of this report.**

Acid And Toxic Materials: No acid or toxic materials are involved in this operation.

Backfilling and Grading: Final grading is to be 3H:1V or flatter. As there is sufficient distance from the affected area boundary, a push down approach could be used to flatten the slopes, therefore sufficient backfill material is available.

Excess Spoil and Dev. Waste: Likely overburden piles were observed on the north end (see **Photo 1**).

Financial Warranty: A \$128,878 bond is currently held by the DRMS. The bond was last updated in 2020 with the approval of surety reduction request (SR-2) to \$58,042. The DRMS has not received a rider from the Permittee reducing the bond. As such, the DRMS holds a surety excess of \$70,836.

Fish and Wildlife: No impact to wildlife was observed.

Hydrologic Balance: No standing water was observed in the pit and no exposed groundwater was observed.

Gen. Compliance with Mine Plan: The operation appeared to be in compliance with the approved mine plan. The south pit has not been mined in several years and has been in reclamation. The most recent mining was done in the newer north pit. The maximum allowed disturbed area was reduced to 19 acres with the approval of SR-2. Google Earth was used to measure the disturbed area, which was estimated to be 13.5 acres (including 9.2 acres of the south pit and 1.9 acres affected by the north diversion cut), based on older 2019 imagery. West facing highwalls were observed to be close to the required final slope, while east facing highwalls require flattening (see **Photos 2 and 3**).

Off-site Damage: The operation appeared to be confined to the permit boundary, based on Google Earth review and site observations.

Processing Waste: No processing waste was observed.

Roads: Haul and access roads did not appear to be a source of sediment that could be tracked offsite. Ms. Jindra stated her desire as the landowner to have the access road remain for the purpose of accessing the geodesic structure on the east side of the two pits.

Right of Entry: The Permittee leases the operation from Ms. Jindra.

Reclamation Success: Grading and topsoiling have been completed in the south pit and the diversion cut. Some slope flattening in the current pit is still required.

Revegetation: After several years of trying to establish vegetation in both the south pit (see **Photo 4**) and especially the diversion cut (see **Photo 5**), both these disturbances appeared releasable at the time of the inspection. No revegetation effort had been initiated in the north pit and no noxious weeds were observed.

Sediment Control: Only minor erosion features were observed and no BMPs were needed at the time of the inspection.

Support Facilities On-site: No equipment was observed on site.

Signs and Markers: The permit sign had blown down, but was found nearby (see **Photo 6**) and berms were observed to delineate the affected area (see **Photo 7**).

Permit Stipulations: There are no permit stipulations.

Storm Water MGT Plan: No oil or fuel spills observed. Stormwater drains to the pit and infiltrates.

Topsoil: Topsoil was observed to be stockpiled at the pit edges is in the southwest corner of the pit and labeled as such (see **Photos 1 and 7**).

Please contact Tim Cazier (303)328-5229 or email at tim.cazier@state.co.us if you have any questions regarding this report.

PHOTOGRAPHS



Photo 1. Overburden and/or topsoil stockpiles near north pit edge (looking SE).

PHOTOGRAPHS (cont.)



Photo 2. North pit highwalls (looking NW).



Photo 3. North pit highwalls (looking south).

PHOTOGRAPHS (cont.)



Photo 4. Reclaimed south pit (looking SW).



Photo 5. Reclaimed diversion cut (looking NW).

PHOTOGRAPHS (cont.)



Photo 6. Permit sign at entrance.



Photo 7. Topsoil/overburden berms delineating affected area (west side of north pit, looking SW).

GENERAL INSPECTION TOPICS

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

(AR) RECORDS----- PB	(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>NA</u>
(PW) PROCESSING WASTE/TAILING---- <u>Y</u>	(SF) PROCESSING FACILITIES----- <u>Y</u>	(TS) TOPSOIL----- <u>Y</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>NA</u>	(RS) RECL PLAN/COMP-- <u>Y</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>Y</u>	(SC) EROSION/SEDIMENTATION--- <u>Y</u>	(ST) STIPULATIONS----- <u>Y</u>
(AT) ACID OR TOXIC MATERIALS----- <u>NA</u>	(OD) OFF-SITE DAMAGE----- <u>Y</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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ec: DRMS file
Jeff Perry, Hallador Energy
Scott McGuire, Hourglass Sands
John Jankousky, EME Solutions
Maria Jindra, landowner