




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: Perdue	MINE/PROSPECTING ID#: M-2000-089	MINERAL: Sandstone (silica, stone, quartzite)	COUNTY: Boulder
INSPECTION TYPE: Monitoring	INSPECTOR(S): Amy Eschberger	INSP. DATE: April 6, 2017	INSP. TIME: 09:50
OPERATOR: Mary Vasquez	OPERATOR REPRESENTATIVE: Armando Vasquez	TYPE OF OPERATION: 110c - Construction Limited Impact	

REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: Partial Bond	BOND AMOUNT: \$12,500.00
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None
WEATHER: Clear	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: May 2, 2017

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>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>N</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>Y</u>	(FW) FISH & WILDLIFE----- <u>N</u>	(RV) REVEGETATION---- <u>Y</u>
(SM) SIGNS AND MARKERS----- <u>Y</u>	(SP) STORM WATER MGT PLAN---- <u>Y</u>	(CI) COMPLETE INSP---- <u>Y</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>Y</u>	(SC) EROSION/SEDIMENTATION--- <u>Y</u>	(RS) RECL PLAN/COMP-- <u>Y</u>
(AT) ACID OR TOXIC MATERIALS----- <u>NA</u>	(OD) OFF-SITE DAMAGE----- <u>Y</u>	(ST) STIPULATIONS----- <u>NA</u>

Y = Inspected and found in compliance / N = Not inspected / NA = Not applicable to this operation / PB = Problem cited / PV = Possible violation cited

OBSERVATIONS

This was a normal monitoring inspection of the Perdue site (Permit No. M-2000-089) conducted by Amy Eschberger of the Division of Reclamation, Mining and Safety (Division). The permittee was represented by Armando Vasquez during the inspection. The site is located approximately 3.5 miles northeast of Lyons, Colorado. Access to the site is from the east off of Stone Canyon Drive. The affected land is owned by Ignacio Vasquez, Sr. It should be noted that another permit called Perdue exists at this site under permit no. M-2012-046. This permit was submitted to encompass 1.7 acres of offsite disturbance adjacent to the M-2000-089 permit, as required by the Board Order issued on October 25, 2012.

This is a 110c operation permitted for 9.7 acres (see enclosed Google Earth image of site showing approved permit area) to mine sandstone for landscaping/decorative use. The site is situated on the eastern slope of a sandstone ridge. The approved mining plan includes extracting the sandstone in strips/phases, starting in the southern portion of the site and moving generally northward through the permit area. Overburden from the first phase was to be used to create a flat area in the eastern portion of the site for storing mined stone and pallets. Salvaged overburden and topsoil will be stored on site for use in reclamation. The only material processing to occur on site will be stone working and stacking the stone on pallets for shipment. The approved reclamation plan calls for backfilling mined areas with overburden to a 3H:1V slope gradient, replacing topsoil on disturbed land at a depth of 3 inches, and revegetating the site for rangeland use. The existing driveway used to access the site from Stone Canyon Drive will remain after reclamation for use by the landowner.

At the time of the inspection, it was clear and sunny. The permit boundary was delineated with metal stakes. The site was not active during the inspection. According to Mr. A. Vasquez, the site has not been active since Mr. Vasquez Sr. passed away in 2014. The Division informed Mr. A. Vasquez that if a permittee plans to, or does, temporarily cease production of the mining operation for 180 days or more, the permittee must file a Notice of Temporary Cessation in accordance with Rule 1.13.5. The permittee would have five years, beginning with the date of production cessation, to either recommence operations or complete final reclamation of the site. After the inspection, on April 26, 2017, the Division received a phone call from Mr. A. Vasquez stating the site is active again.

The Division observed that the majority of the site has been disturbed by mining activities. Disturbance includes a few sandstone working faces near ground level in the southern portion of the site (**Photos 1-3**), a haul road that loops through the site, several stacks of mined stone stored along the haul road (**Photos 4 and 5**), a somewhat flat storage area in the eastern portion of the site (**Photo 6**), and a few areas that are in reclamation. The large overburden stockpile that had been stored in the northwestern portion of the site was used for backfilling disturbed areas in 2015. The stockpile area was then graded to 3H:1V and retopsoiled, and now has native grasses growing across the area (**Photo 7**). Disturbed land near the center of the site was backfilled, graded to 3H:1V, and retopsoiled. This area has some rock outcropping across the surface, but blends in well with surrounding topography (**Photo 8**). Native grasses, shrubs, and pine trees are volunteering across the entire permit area. The Division did observe some common mullein growing in the permit area, which is a state-listed noxious weed species. The operator will need to implement the approved weed control plan as soon as possible to eliminate this species from the affected land.

It should be noted the Division sent Mrs. Mary Vasquez a letter on March 28, 2017 requesting updated warranty forms for this permit, due April 27, 2017. These forms were submitted to the Division during the inspection.

During the inspection, the Division also observed the adjacent 1.7 acres of land that are permitted under M-2012-046. These areas will be discussed separately in an inspection report for M-2012-046.

PHOTOGRAPHS



Photo 1. View of sandstone working face located in southeastern portion of permit area.



Photo 2. View of sandstone working face located in southwestern portion of permit area.



Photo 3. View of sandstone working face located in southwestern portion of permit area.



Photo 4. View looking east from northern portion of site, showing stacks of stone stored along internal haul road.



Photo 5. View of excavated stone stacked along haul road in northeastern portion of site.



Photo 6. View looking west across relatively flat storage area located in eastern portion of site.



Photo 7. View looking northwest at area where large overburden stockpile was used for reclamation, and the area graded to slopes of 3H:1V or flatter.



Photo 8. View looking north across central portion of site that was backfilled and graded to slopes of 3H:1V or flatter.

Inspection Contact Address

Mary Vasquez
3587 Stone Canyon Rd.
P.O. Box 938
Lyons, CO 80540

Enclosure: Google Earth image of site showing permit area

CC: Arthur Vasquez (via email at: Vasquez.a70@gmail.com)
Wally Erickson, DRMS

M-2000-089 and M-2012-046 / Perdue / Mary Vasquez

Purple Outline = 9.7 acres = Approved Permit Area for M-2000-089

Red Outline = 1.7 acres = Approved Permit Area for M-2012-046

(Image data from 9/7/2016)

