




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: Dakota Clay Pit	MINE/PROSPECTING ID#: M-1989-052	MINERAL: Clay	COUNTY: Jefferson
INSPECTION TYPE: Monitoring	INSPECTOR(S): Elliott Russell	INSP. DATE: September 11, 2020	INSP. TIME: 09:00
OPERATOR: The Denver Brick Company	OPERATOR REPRESENTATIVE: Richard Murphy	TYPE OF OPERATION: 110c - Construction Limited Impact	
REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: None	BOND AMOUNT: \$43,926.00	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None	
WEATHER: Clear	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: March 31, 2021	

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>N</u>
(PW) PROCESSING WASTE/TAILING---- <u>N</u>	(SF) PROCESSING FACILITIES----- <u>N</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>N</u>	(RS) RECL PLAN/COMP-- <u>N</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>N</u>	(SC) EROSION/SEDIMENTATION--- <u>Y</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 following a request from the Operator for the Division to evaluate the reclamation work completed at the site. Elliott Russell, with the Division, conducted the inspection while Richard Murphy, representing the Operator, accompanied the inspection.

The Dakota Clay Pit is a Construction Materials 110c Operation Reclamation Permit and is approved for 9.9 acres. Affected lands will be reclaimed to support a rangeland post-mining land use. The site is located in Jefferson County, approximately 2 miles north of Golden, Colorado. The Division met Richard Murphy at the mine site entrance on the south side of W 56th Avenue, approximately 0.75 miles west of Highway 93.

Hydrologic Balance: Some small pools of standing water was observed on the middle bench of the site, however this is likely from a recent storm event. No issues regarding the hydrologic balance were present.

Gen. Compliance With Mine Plan: The operation appeared to be in compliance with the approved mine plan. Google Earth was used to measure the disturbed area, which was estimated to be approximately 1.8 acres. During the inspection, the Division discovered four small open stopes just east of the upper bench at the crest of the access road between the middle and upper bench (located at 39°47'42.46"N 105°14'29.71"W). These stopes pose a hazard and will need to be safeguarded prior to final release of the permit. The Division recommends the Operator work with the Inactive Mines Program to determine the best approach to safeguard these stopes. The Operator stated they were familiar with the closure specifications of the IMP based on previous work the Operator has completed on site regarding historical mine features. The specifications are available on the Division's website at <https://drms.colorado.gov/>.

Reclamation Success: The site was entered into final reclamation following reclamation activities in 2019. It appears the seeding efforts have yet as limited reclamation grass species have established. The Division recommends the Operator conduct an inter-seeding on areas that had little to no germination to increase the chance of successful revegetation of the site. The approved reclamation seed mixture is summarized below.

Species	% of Mix	Broadcast Rate Pounds PLS/Acre
Western Wheatgrass	30	9.6
Streambank Wheatgrass	25	5.5
Sideoats Grama	25	4.5
Blue Grama	20	1.2
Curl Leaf Mountain Mahogany	-	0.5

Revegetation: The Division observed only some beneficial grass species had germinated but the most of the site was either the winter wheat cover crop or annual weedy species. No noxious weeds were observed during the inspection, however, the Operator may want to treat the annual weeds to aid the growth of reclamation species.

Sediment Control: The Division recommends the Operator monitor the road between the lower and middle benches as some erosion control measures may be needed in the future to prevent off-site sedimentation. No other erosion problems were observed and no BMPs were needed at the time of the inspection.

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 **303-866-3567 x8132**, or by email at elliott.russell@state.co.us.

PHOTOGRAPHS



Photo 1: Lower bench; looking north.



Photo 2. Middle bench; looking northwest.



Photo 3. Upper bench; looking south.



Photo 4. Crest of access road between middle and upper bench; looking south.



Photo 5. Area where the four open stopes are located (outlined in red); looking northwest.



Photo 6. Two of the four open stopes; looking north.



Photo 7. One of the four open stopes; looking southeast.

Inspection Contact Address

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