




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: Thornburg Pit	MINE/PROSPECTING ID#: M-1983-060	MINERAL: Sand and gravel	COUNTY: Adams
INSPECTION TYPE: Monitoring	INSPECTOR(S): Jared L. Ebert	INSP. DATE: February 15, 2018	INSP. TIME: 10:45
OPERATOR: Thornburg Family Limited Partnership	OPERATOR REPRESENTATIVE: Stanley Thornburg	TYPE OF OPERATION: 112c - Construction Regular Operation	
REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: Complete Bond	BOND AMOUNT: \$14,500.00	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None	
WEATHER: Clear	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: March 28, 2018	

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>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>NA</u>	(SF) PROCESSING FACILITIES----- <u>NA</u>	(TS) TOPSOIL----- <u>Y</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>Y</u>	(FW) FISH & WILDLIFE----- <u>NA</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>NA</u>	(SC) EROSION/SEDIMENTATION--- <u>Y</u>	(ST) STIPULATIONS----- <u>NA</u>
(AT) ACID OR TOXIC MATERIALS----- <u>NA</u>	(OD) OFF-SITE DAMAGE----- <u>Y</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 monitoring inspection of the Thornburg Pit, DRMS Permit No. M-1983-060 operated by Thornburg Family Limited Partnership (Operator). I, Jared Ebert with the Colorado Division of Reclamation, Mining and Safety (DRMS or Division) conducted the inspection. Mr. Stanley Thornburg accompanied me during the inspection. This is a 77.94 acre 112c construction materials mining operation located in Adams County about 3 miles northeast of the town of Bennett, Colorado.

Backfilling and Grading:

The affected area of the mine is estimated to be about six acres in size. Mining appears to have been conducted in the M1, M2 and M3 phased areas and the operator appears to be conducting concurrent reclamation. Two un-reclaimed excavated areas exist at the site. The first area is a small excavation that daylights to the northwest in the M2/M3 phased area. This is a small pit with 1.5 to 2 horizontal (H) to 1 vertical (V) slopes that are about 18 feet in height. The highwall was measured to be about 307 feet in length. The second area is located in the M1/M2 phased area. The highwall was vertical and about 22 feet in height and about 343 feet in length. The previously mined areas have gentle slopes that are at a 3H:1V angle or less.

Financial Warranty:

The Division currently holds a financial warranty in the amount of \$14,500.00. This amount is adequate at this time.

Gen. Compliance With Mine Plan:

The Operator appears to be conducting the mining operation in accordance with the approved plan.

Reclamation Success:

Vegetation has established in previously reclaimed areas. The Operator indicated they are having difficulty treating knapweed on their property due to an adjacent neighbor whose property appears to be the source of the knapweed. A few old knapweed stalks were observed throughout the site but according to Mr. Thornburg they are aggressively treating the weeds on their property.

Sediment Control:

A small gully was observed on the east side of the M2 mine phase. This gully appears to be within a previously mined and reclaimed area. Mr. Thornburg indicated they intend to repair the gully.

Topsoil:

The topsoil stockpile is located on the north side of the affected land. This pile is stable and vegetated.

PHOTOGRAPHS



Figure 1. Excavation in the M1/M2 area.



Figure 2. Excavation in the M2/M3 area.



Figure 3. East of the M2/M3 area, gully observed.



Figure 4. M1, 2 and 3 Pit Floor.

Inspection Contact Address

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