




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: Yetter Pit	MINE/PROSPECTING ID#: M-1996-050	MINERAL: Sand and gravel	COUNTY: Logan
INSPECTION TYPE: Monitoring	INSPECTOR(S): Patrick Lennberg and Jared L. Ebert	INSP. DATE: October 17, 2018	INSP. TIME: 12:50
OPERATOR: R & J Yetter Sand & Gravel LLC	OPERATOR REPRESENTATIVE: Russ and Jewleie Yetter	TYPE OF OPERATION: 110c - Construction Limited Impact	
REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: Complete Bond Calculation	BOND AMOUNT: \$17,500.00	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None	
WEATHER: Clear	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: October 23, 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>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>Y</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>NA</u>	(OD) OFF-SITE DAMAGE----- <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 an inspection of the Yetter Pit, Division of Reclamation, Mining and Safety (DRMS or Division) permit number M-1996-050, operated by R & J Yetter Sand & Gravel LLC. I, Patrick Lennberg along with Jared Ebert with DRMS conducted the inspection. Russ and Jewleie Yetter accompanied us during the inspection. The site was not currently being mined at the time of inspection but there was evidence of recent mining activities and a large stockpile was located in the northeastern portion of the site. The weather was clear and warm.

The Yetter Pit is a 110c operation with an approved post mining land use of Wildlife Habitat with an unlined pond with a vegetated shoreline. The permit anniversary is November 25th.

General Compliance with Mine Plan:

Mining is being conducted within the permit boundary. All permit boundary markers, 2-inch PVC, are clearly visible along perimeter of the site. The mine permit sign is clearly visible at the entrance.

Backfilling and Grading:

The shoreline around the western portion of the pond has been graded to a minimum of 3H:1V slope and appear to be stable. There are a couple of young cottonwood trees in the area that are trying to become established. Further along the northwest shoreline there is an established stand of willows. The operators are gradually beginning reclamation efforts in the western portion and will move around the lake as time allows. The east bank of the pond were near vertical as a result of undercutting from dredging activities along this area. The operators stated that the banks will be recontoured after winter shut down to minimize hazards and erosion. The banks along the southern portion of the pond were near the angle of repose. The operators mentioned that as reclamation activities progress the banks will be flattened out to the required 3H:1V slope. Currently there is a berm along the banks to minimize the risk of a truck accidentally driving into the pond.

Pond:

The pond is approximately 4.7 acres in size, estimated from Google Earth imagery from 2016, and is covered by a permanent augmentation plan through Logan Well Users – Case #07CW0330 page #7 and there is also a permit for the pit #69033 – F.

Fish and Wildlife:

During this inspection an osprey was observed taking a fish from the pond. The operators noted that geese and eagles are commonly seen in and around the pond. The pond has been stocked with largemouth bass, bluegill and a few catfish.

Hydrologic Balance:

The South Platte River borders the property to the north. A safety berm has been installed by the Operators that runs along the west and wraps around to the north to help mitigate flooding of the property which has occurred a couple of times during flooding in 2013 and 2015. The berm is outside the permit boundary and was constructed using import fill.

Roads:

The access road to and around the pond has been approved to remain after reclamation (TR-01).

Financial Warranty:

The Division evaluated the current bond amount held of \$17,500.00 for site reclamation and found it to be adequate at this time.

Reclamation:

The pond banks, stockpile and processing areas and areas between the access road and permit boundary will have 6-inches of topsoil placed, tilled, seeded and mulched. There is a beet tare pile that is located outside the permit boundary to the northeast that is staged on property owned by the operators. The pile may be used as top soil as needed during reclamation. The operators should be aware that if at any time during reclamation they determine they will need to use the beet tare pile they will have to submit a Technical Revision prior to using the material. Use of beet tare material is not in the approved reclamation plan and will require certification that it is clean and inert material. Additionally a sample will have to determine its agronomic properties for use as top soil. The Technical Revision will need to address the requirements of Rule 3.1.5(9).

The approved seed mixture will be drilled at the following rates (pounds per acre):

- Alkali Sacaton 0.375
- Prairie Cordgrass 0.25
- Switchgrass 0.90
- Western Wheatgrass 3.22
- Big Bluestem 1.10
- Select areas chosen by landowner for Kentucky Blue Grass 2 lbs/acre

The seeded areas will be mulched and crimped at a rate of 2,000 lbs of straw per acre.

The pond reclamation requires a maximum underwater slopes no steeper than 2H:1V and shoreline slopes no steeper than 3H:1V. Shoreline slopes also include those slopes within 10 feet below the water line per the requirements of Rule 3.1.5(7).

The site was found to be in very good and clean condition with no problems or violations that were observed.

PHOTOGRAPHS



Photo 1: SW corner of site looking to NE with permit boundary with marker in foreground



Photo 2: SW corner of pond that has had some reclamation work performed



Photo 3: Flood control berm on the west side looking south



Photo 4: Dredge and processing plant



Photo 5: NE permit boundary marker



Photo 6: Beet tare pile



Photo 7: Stockpile of material and current above water face of mining operations



Photo 8: SE corner of permit area looking west with topsoil piles



Photo 9: Area map of Yetter Pit M1996-050

Inspection Contact Address

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16757 CR 16
Atwood, CO 80722

Enclosure

CC: