



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.

<b>MINE NAME:</b> Debetz Pit	<b>MINE/PROSPECTING ID#:</b> M-1977-283	<b>MINERAL:</b> Sand and gravel	<b>COUNTY:</b> Adams
<b>INSPECTION TYPE:</b> Monitoring	<b>INSPECTOR(S):</b> Jared L. Ebert	<b>INSP. DATE:</b> December 20, 2017	<b>INSP. TIME:</b> 11:50
<b>OPERATOR:</b> Adams County	<b>OPERATOR REPRESENTATIVE:</b> Kurt Carlson and Jennifer Rutter	<b>TYPE OF OPERATION:</b> 112c - Construction Regular Operation	

<b>REASON FOR INSPECTION:</b> Normal I&E Program	<b>BOND CALCULATION TYPE:</b> None	<b>BOND AMOUNT:</b> No Bond Held
<b>DATE OF COMPLAINT:</b> NA	<b>POST INSP. CONTACTS:</b> None	<b>JOINT INSP. AGENCY:</b> None
<b>WEATHER:</b> Clear	<b>INSPECTOR'S SIGNATURE:</b> 	<b>SIGNATURE DATE:</b> January 3, 2018

**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:** Backfilling & Grading

**PROBLEM:** Erosion and shoreline destabilization was observed along the western pond slopes in area approved in TR02 to be repaired and stabilized. This is a problem at this time for failure to protect the affected land from erosion pursuant to C.R.S. 34-32.5-116 (4) (j) and for failure to follow the approved reclamation plan pursuant to C.R.S. 34-32.5-116(1).

**CORRECTIVE ACTIONS:** The Operator shall provide photo documentation to the Division verifying shoreline erosion has been repaired, and that the sites approved with TR02 to be stabilized have been reconstructed and stabilized to prevent erosion damage by the corrective action date.

**CORRECTIVE ACTION DUE DATE:** 5/30/18

### **OBSERVATIONS**

This was a monitoring inspection of the Debetz Pit, DRMS permit number M-1977-283 operated by Adams County. I, Jared Ebert with the Colorado Division of Reclamation, Mining and Safety (DRMS or Division) conducted the inspection. Mr. Kurt Carlson and Mrs. Jen Rutter with Adams County accompanied me during the inspection. This is a 40 acre 112c operation located in Adams County.

#### **Acid And Toxic Materials:**

The Operator is approved to backfill a portion of the pit area with inert material. The insert fill operation is complete, however Mr. Carlson indicated that they may bring in more fill in the future if possible. The fill material that was visible appeared to be clean fill dirt.

#### **Backfilling and Grading:**

The inert fill area was graded to a gentle slope and appeared stable. The area was recently seeded and mulched. It was noted during the last Division inspection in 2014 that there were portions of the southern and western pond slopes that have been graded steeper than a 3H:1V ratio and some bank erosion and sluffing was occurring. Adams County submitted and received approval of TR02 in 2014. TR02 provided a description of how localized areas of the pond shoreline will be re-graded and stabilized along the edge of the golf course and southern shoreline and other area will remain "as is". Figure 2 submitted with TR02 depicts where select areas of the shoreline were to have been stabilized. The 150' section along the southern shoreline has been stabilized with rip-rap. It does not appear that the three areas along the western pit slope where stabilization activities were planned have occurred. The 100' section on the north end of the western slope was very steep and appears to continue to erode. Stabilization of the designated areas will need to occur. This issue is cited as a problem at the beginning of this report.

#### **Hydrologic Balance:**

On May 17, 2010, the Division received a letter from the water counsel to the Adams County Board of County Commissioners. According to this letter the Debetz Gravel Pit is included in the plan for augmentation approved by the District Court, Water Division 1 in Case No. 02CW335.

#### **Reclamation Success:**

The post mine land use for the site is designated as recreation and nature preserve. Overall, the site is currently being used for recreational purposes. Adams County has built a concrete path along the south and east sides of the site and has constructed several wooden decks along the southern shoreline. According to Mr. Carlson, the pond is stocked with fish. The western pond slope is adjacent to the County golf course. Some additional slope stabilization efforts will need to occur along the western slope.

#### **Revegetation:**

Dense native vegetation has established around the pond. The recently backfilled area on the north end of the pond was seeded and some grassy vegetation has begun to germinate. Adams County has recently planted a row of trees along the northern end of the pond and in several places along the southern end of the site.

Tamarisk trees have begun to establish along the northern shoreline where the inert filling operation occurred. Mr. Carlson indicated the County plans to conduct weed control measures for the tamarisks.

**PHOTOGRAPHS**



Figure 1. From the north end of the site looking southwest.



Figure 2. From the north end of the site looking south, inert fill area.





Figure 3. Shoreline sluffing and erosion on western slope, approximate 100' section shown on TR02 Figure 2 Map.



Figure 4. Northern pond slope looking east.



Figure 5. Shoreline stabilization along the southern shore. Looking west.

### GENERAL INSPECTION TOPICS

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

(AR) RECORDS----- <u>Y</u>	(FN) FINANCIAL WARRANTY----- <u>NA</u>	(RD) ROADS----- <u>NA</u>
(HB) HYDROLOGIC BALANCE----- <u>Y</u>	(BG) BACKFILL & GRADING----- <u>PB</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>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>NA</u>	(SC) EROSION/SEDIMENTATION--- <u>Y</u>	(ST) STIPULATIONS----- <u>NA</u>
(AT) ACID OR TOXIC MATERIALS----- <u>Y</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

#### Inspection Contact Address

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Enclosure

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