




**COLORADO DIVISION OF RECLAMATION, MINING AND SAFETY**  
**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> Bottomless Pit	<b>MINE/PROSPECTING ID#:</b> M-2001-068	<b>MINERAL:</b> Gravel and sand	<b>COUNTY:</b> Las Animas
<b>INSPECTION TYPE:</b> Monitoring	<b>INSPECTOR(S):</b> T C. Wait	<b>INSP. DATE:</b> June 18, 2012	<b>INSP. TIME:</b> 15:00
<b>OPERATOR:</b> Tamrock Gravel	<b>OPERATOR REPRESENTATIVE:</b> Brent Tamburelli	<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> \$41,063.00
<b>DATE OF COMPLAINT:</b> NA	<b>POST INSP. CONTACTS:</b> None	<b>JOINT INSP. AGENCY:</b> None
<b>WEATHER:</b> Clear, hot, dry, breezy	<b>INSPECTOR'S SIGNATURE:</b> 	<b>SIGNATURE DATE:</b> June 25, 2012

**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>NA</u>	(FN) FINANCIAL WARRANTY----- <u>Y</u>	(RD) ROADS----- <u>NA</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>	(SB) COMPLETE INSP---- <u>NA</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>NA</u>	(SC) EROSION/SEDIMENTATION--- <u>NA</u>	(RS) RECL PLAN/COMP-- <u>Y</u>
(AT) ACID OR TOXIC MATERIALS----- <u>NA</u>	(OD) OFF-SITE DAMAGE----- <u>NA</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 conducted by TC Wait of DRMS. The mine operator representative present was Mr. Brent Tamburelli of Tamrock Gravel. Post-mine land use for this site is rangeland.

The permit area is approximately 327 acres and was accessed by vehicle. Mining is currently occurring in phase 3 and 4 of the permit area. Areas 1 and 2 have been mined, graded, topsoiled, and seeded, although the haul road crosses through both sites. Stockpiles of topsoil for road reclamation are located adjacent to the road.

The site was marked with a permit sign and permit boundary markers were in place. The T-posts being used are difficult to distinguish from the surrounding vegetation. The operator should consider increasing the visibility of the marker.

At the time of the inspection, the ground was dry, although evidence of ponding water at the edges of the mined areas was noted. Phases 1 and 2 have been revegetated, however the vegetation is sparse and not well established. Stands of thistles and other weeds were noted. According to Mr. Tamburelli, Tamrock does have a weed mitigation plan. The weeds on site should be dealt with in order to allow the desired vegetation to better establish.

According to Mr. Tamburelli, about 34,000 tons of material is stored in phases 3 and 4 that will be spread during grading prior to placing top soil in the next month. Mining in phase 4 has not been very productive. Mining in phase 3 is now concentrated in two pits about 8-10 ft in depth. As demand for product rises, they will extend mining operations south and west into new phases.

No problems were observed on the site at the time of the inspection.

### Backfilling and Grading:

Grading each phase as it is mined and before progressing to next phase. Phases 1 and 2 have been regraded. Phases 3 and 4 have a large quantity of fines that will be graded out in the next month or so. Graded slopes generally 3.5:1 or flatter.

### Hydrologic Balance:

Site is high and dry. No groundwater encountered during mining. Edges of mined area are bermed to prevent excessive storm runoff. No evidence of excessive erosion.

### Revegetation:

Revegetation in phases 1 and 2 is under way. Vegetation is sparse, and there are some weeds present. Operator states they have a weed mitigation plan in place. Operator was advised to continue weed mitigation to allow desired plants to establish.

### Signs and Markers:

Permit sign and boundary markers are in place. Operator is advised to make boundary markers more visible for future reference.

### Topsoil:

Topsoil stockpiles are present as indicated in the mine plan.

## PHOTOGRAPHS

Photo 1. Permit sign.



Photo 2. Weeds and sparse vegetation in Phase 1 area.

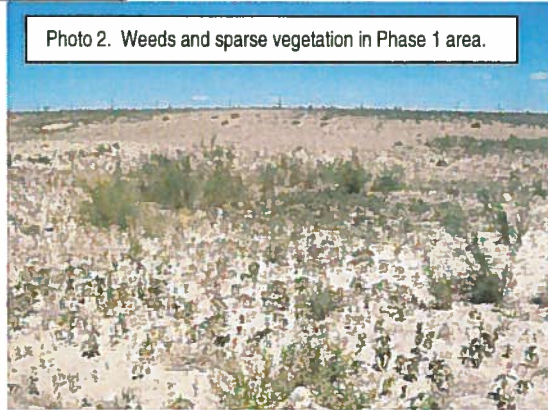


Photo 3. Graded slopes along eastern edge of phase 3.

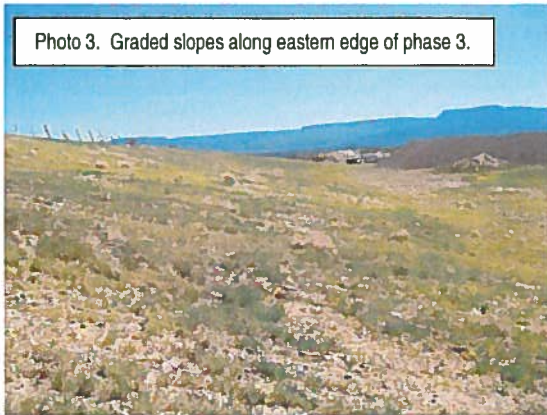


Photo 4. Eroded slopes on western edge of phase 2.

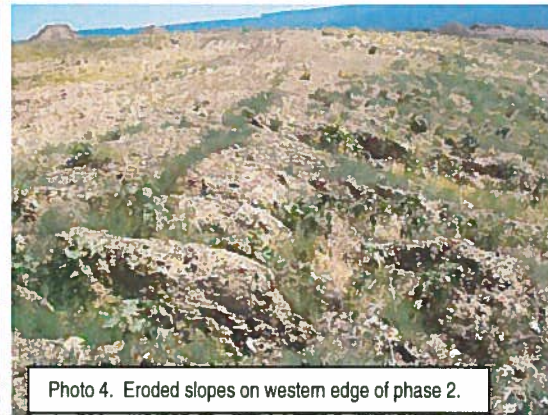


Photo 5. Active excavation in phase 3.



Photo 6. Stockpile of top soil.

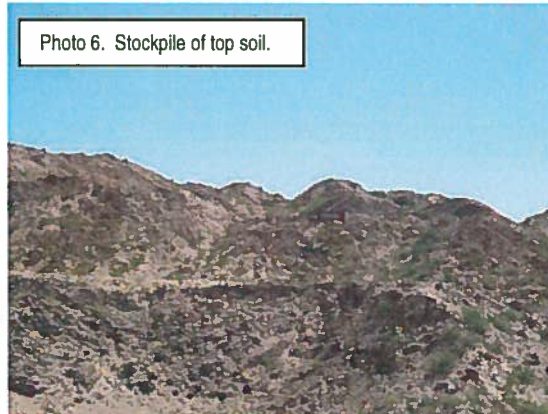


Photo 7. Stockpiles of product.

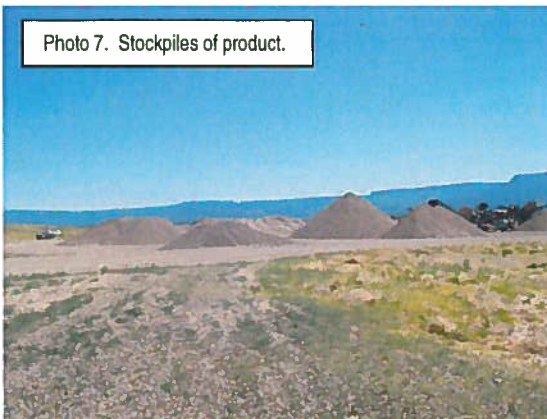
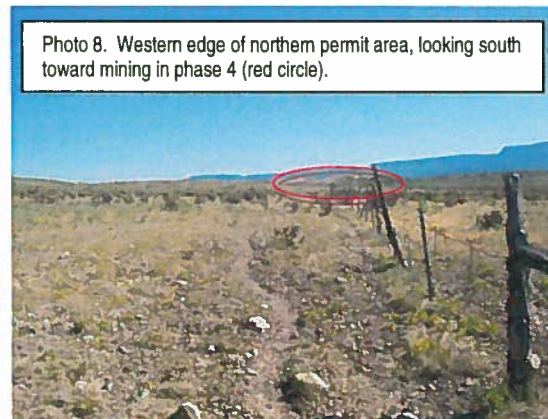


Photo 8. Western edge of northern permit area, looking south toward mining in phase 4 (red circle).



**Inspection Contact Address**

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Enclosure

CC: