




**MINERALS PROGRAM INSPECTION REPORT**  
**PHONE: (303) 866-3567**

The Division of Reclamation, Mining and Safety 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> Riverbend Operation	<b>MINE/PROSPECTING ID#:</b> M-2000-016	<b>MINERAL:</b> Sand and gravel	<b>COUNTY:</b> Weld
<b>INSPECTION TYPE:</b> Monitoring	<b>INSPECTOR(S):</b> Peter Hays	<b>INSP. DATE:</b> June 26, 2020	<b>INSP. TIME:</b> 12:00
<b>OPERATOR:</b> Martin Marietta Materials, Inc.	<b>OPERATOR REPRESENTATIVE:</b> Julie Mikulas	<b>TYPE OF OPERATION:</b> 112c - Construction Regular Operation	
<b>REASON FOR INSPECTION:</b> Normal I&E Program	<b>BOND CALCULATION TYPE:</b> Partial Bond	<b>BOND AMOUNT:</b> \$3,530,500.00	
<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> August 2, 2020	

**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:** Signs & Markers

**PROBLEM:** The mine identification sign was not posted at the entrance of the mine site. This is a problem for failure to post a mine identification sign as required by Rule 3.1.12(1).

**CORRECTIVE ACTIONS:** The Operator shall, at the entrance of the mine site post a sign, which shall be clearly visible from the access road, with a minimum size equaling one hundred and eighty-seven (187) square inches, such as eleven (11) inches in height and seventeen (17) inches in width, with appropriate font size, with the following: the name of the Operator, a statement that a reclamation permit for the operation has been issued by the Colorado Mined Land Reclamation Board; and the permit number.

The Operator shall submit photo documentation that a proper sign has been posted by the corrective action date.

**CORRECTIVE ACTION DUE DATE:** 9/1/20

## OBSERVATIONS

The Riverbend West Operation was inspected by Peter Hays with the Division of Reclamation, Mining and Safety (Division/DRMS) as part of the Division's monitoring inspection program. Mrs. Julie Mikulas with Martin Marietta Materials, Inc. was present during the inspection. The site was previously inspected by the Division on August 29, 2016.

The site is an 112c operation permitted for 1,196 acres with a maximum disturbance acreage of 668 acres. Mining operations started at the site in 2020. The conveyor bridge over Hwy 85, which was approved on June 10, 2019 under TR-03 is complete. The mined material from the site will be conveyed over Hwy 85 for processing at the Riverbend East Operation. Conveyor was installed along the north side of Cell 1. The conveyor bridge over the South Platte River from Cell 1 to Cell 1, Phase 4 was installed to the north side of the river. The Operator intends to install conveyor to the north end of the site over the next two (2) years to allow the site to be mined from north to south.

All current mining activities are contained in Cell 1, therefore the scope of this inspection was limited to Cell 1 only. The current disturbance was accurately depicted on the 2020 Annual Report Map. The eastern half of Cell 1 was stripped of overburden and topsoil, except for the offset area for the overhead powerline. The powerline will be relocated in the future to facilitate mining operation. The overburden and topsoil were stockpiled to the west of the oil and gas facility located within the cell. The stockpiles appeared stable and no erosion was observed during the inspection. The Operator does not intend to vegetate the stockpiles since the materials will be used for concurrent reclamation in less than 180 days. Volunteered vegetation was observed on the stockpiles during the inspection. The cell was being dewatered to allow excavation by an excavator. Mining excavation was occurring in the northwest corner of Cell 1 during the inspection. The mined material was delivered to the conveyor feeder by a front-end loader. The conveyor was being tested and was operational during the inspection.

Permit Stipulation #1 states, prior to mining within 400 feet of the top of the bank of the South Platte River, the Operator will provide and gain approval of a technical revision that includes an evaluation of the stability of riverside berms to be left at the conclusion of mining. The current disturbance in Cell 1 does not extend past the required 400 feet offset from the South Platte River. During the inspection, the Operator stated the bank stabilization analysis and flood analysis plan were being prepared by their consultant. At this time, the Operator does not expect the mining operations to occur within 400 feet of the South Platte River for the life of the mine.

The Division currently holds a financial warranty in the amount of \$3,530,500.00, which is adequate to reclaim the current disturbance in Cell 1 and the anticipated disturbance over the next year.

As cited as a problem on Page 1, the mine identification sign as required by Rule 3.1.12(1) was not observed at the entrance to the site from Weld County Road 6. The Operator stated the sign was removed when a new gate was installed and a new sign would be installed soon.

The approved post-mining land use for the site is developed water resources with the creation of a combination of clay lined reservoirs, open water ponds and silt ponds reclaimed to wetlands. The Operator is currently evaluating the site to determine if slurry walls should be installed to seal the planned reservoirs and

some of the open-water ponds. The Operator is aware of the requirement to submit an amendment application pursuant to Rule 1.10 to revise the approved Reclamation Plan.

Photographs taken during the inspection are attached. 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 x 8124, or by email at [peter.hays@state.co.us](mailto:peter.hays@state.co.us).

#### Inspection Contact Address

Mrs. Julie Mikulas  
Martin Marietta Materials, Inc.  
1800 N. Taft Hill Road  
Fort Collins, CO 80521

### 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>Y</u>	(RD) ROADS----- <u>N</u>
(HB) HYDROLOGIC BALANCE----- <u>Y</u>	(BG) BACKFILL & GRADING----- <u>N</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>N</u>	(RV) REVEGETATION---- <u>N</u>
(SM) SIGNS AND MARKERS----- <u>PB</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>N</u>	(ST) STIPULATIONS----- <u>Y</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

## PHOTOGRAPHS



View of the stripped southern half of Cell 1 from the south side looking north



View of the stockpiled overburden and topsoil from Cell 1





View of conveyor bridge from Cell 1 to Cell 1, Phase 4 over the South Platte River



View of the dewatering pond in the northwest corner of Cell 1





View of the mining activities in Cell 1 from the northeast corner looking southwest



View of the conveyor bridge over Hwy 85