




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.

MINE NAME: Riverbend Operation	MINE/PROSPECTING ID#: M-2000-016	MINERAL: Sand and gravel	COUNTY: Weld
INSPECTION TYPE: Monitoring	WEATHER: Clear	INSP. DATE: April 3, 2023	INSP. TIME: 11:00
OPERATOR: Martin Marietta Materials, Inc.	OPERATOR REPRESENTATIVE: Julie Mikulas	TYPE OF OPERATION: 112c - Construction Regular Operation	

REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE:	BOND AMOUNT: \$3,530,500.00
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None
INSPECTOR(S): Peter Hays	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: April 16, 2023

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: Availability Of Records

PROBLEM: On March 26, 2023, the Division of Reclamation, Mining and Safety (Division/DRMS) received the monthly groundwater elevation data with the 2023 Annual Report for the Riverbend Operation. The monitoring well data from the replacement wells; NO- MW06, NO-MW07, RI-MW11 and RI-MW12 were not submitted with the annual report.

CORRECTIVE ACTIONS: Please provide all available groundwater elevation data for the replacement wells with a location map within 14 days from the date of this letter, April 25, 2023.

CORRECTIVE ACTION DUE DATE: 4/25/23

OBSERVATIONS

The Riverbend 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. Ms. Julie Mikulas with Martin Marietta Materials, Inc. was present during the inspection.

On March 26, 2023, the Division received the monthly groundwater elevation data for the Riverbend Operation with the 2023 Annual Report. The monitoring well data from the replacement wells; NO- MW06, NO-MW07, RI-MW11 and RI-MW12 were not submitted with the annual report. The Division cited a problem requiring the Operator to provide all available groundwater elevation data for the replacement wells with a location map within 14 days from the date of the letter, April 25, 2023. The lack of complete groundwater elevation data for the site is cited as a problem in this inspection report.

The site is an 112c regular construction materials operation permitted for 1,196 acres with a maximum disturbance acreage of 668 acres. The mining operations started in 2020 at the site. The conveyor bridge over Hwy 85, which was approved on June 10, 2019 under TR-03, was operational. The mined material from the site is conveyed over Hwy 85 for processing at the Riverbend East Operation. The first section of conveyor is located along the north side of Cell 1. The conveyor bridges over the South Platte River from Cell 1 to Cell 1 / Phase 4 and over WCR 8 are constructed and operational. Additional conveyor was installed to the southeast corner of Cell 1 / Phase 7 since the last monitoring inspection. The Operator intends to install conveyor to the north end of the site (Cell 1 / Phase 8) to allow the site to be mined from north to south.

Cell 1

The overhead powerline dividing the cell from west to east was relocated along the south and east boundaries of the cell. The remaining material was mined from the powerline easement to complete the cell. Mining excavation was close to completion. The cell was being dewatered and prepared for the installation of a clay liner. The mining activities have extended into Cell 1 / Phase 2.

The overburden and topsoil from the cell 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. Material from the overburden stockpile was being transported to the pit floor by a scraper during the inspection.

Cell 1 / Phase 2

The mining activity in the cell was paused because of the amount of clay present in the material. The dewatering pumping was stopped and the cell was full of water at the time of the inspection.

Cell 3 / Phase 5

The cell is being mined by the Operator. The overburden and topsoil were stripped and stockpiled around the perimeter of the cell. A slurry wall was installed around the cell and the cell was dewatered to allow mining activity.

The next planned mining cell is Cell 1 / Phase 8 located in the northwest section of the site.

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

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.

Inspection Contact Address

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

Enclosure – Mining Plan Map

Ec: Jared Ebert, DRMS

PHOTOGRAPHS



Riverbend Operation mine sign off of WCR 7



View of Cell 1 from the west side looking east



View of Cell 1 / Phase 2 from the northwest corner looking southeast



View of Cell 3 / Phase 5 from the north side looking east



View of Cell 3 / Phase 5 from the north side looking southeast



View of Cell 3 / Phase 5 from the north side looking southwest



View of Cell 3 / Phase 5 from the southeast corner looking west



View of Cell 3 / Phase 5 from the southeast corner looking northwest



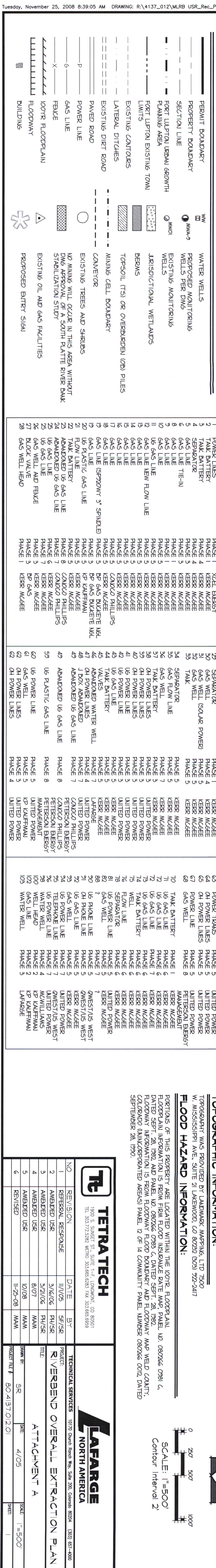
View of Cell 3 / Phase 5 from the southeast corner looking north

GENERAL INSPECTION TOPICS

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

(AR) RECORDS----- PB	(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>N</u>
(PW) PROCESSING WASTE/TAILING---- <u>Y</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>Y</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>N</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



NO		DATE	
1	REVISION	11/05	SV/SR
2	PREPARE RESPONSE	3/6/06	PH/SR
3	AMENDED USER	3/21/06	PH/SR
4	AMENDED USER	8/07	MAAM
5	AMENDED USER	10/08	MAAM
6	REVISED	11-25-08	MAAM

TECHNICAL SERVICES		10710 Church Street, New York 200, Corporate 80294		(204) 551-4000	
PRODUCT: REVEREND OVERALL EXTRACTION PLAN					
TITLE: ATTACHMENT A					
DRAWN BY: SR		DATE: 4/05		SCALE: 1"=500'	
PROJECT FILE: 60415101201		SHEET: 1			

