




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: North Taft Hill Expansion Site	MINE/PROSPECTING ID#: M-2001-051	MINERAL: Sand and gravel	COUNTY: Larimer
INSPECTION TYPE: Monitoring	INSPECTOR(S): Amy Eschberger	INSP. DATE: May 26, 2021	INSP. TIME: 12:30
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: Complete Bond	BOND AMOUNT: \$940,000.00
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None
WEATHER: Clear	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: June 8, 2021

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: Right of Entry

PROBLEM: The Division has no evidence the operator has the legal right to enter to conduct mining and reclamation for all owners of record of the surface and mineral rights of the affected lands, as required by Rule 6.4.14 and C.R.S. 34-32.5-112(1)(c)(IV).

CORRECTIVE ACTIONS: By the corrective action date, the operator must provide documentation of its legal right to enter to conduct mining and reclamation for all owners of record of the affected land. This may include a copy of a lease, deed, abstract of title, a current tax receipt, or a signed statement by the landowner and acknowledged by a Notary Public stating the operator has the legal right to enter to conduct mining and reclamation.

CORRECTIVE ACTION DUE DATE: July 8, 2021

OBSERVATIONS

This was a normal monitoring inspection of the North Taft Hill Expansion Site (Permit No. M-2001-051) conducted by Amy Eschberger of the Division of Reclamation, Mining and Safety (Division). The operator was represented by Julie Mikulas during the inspection. The site is located approximately 1.5 miles north of Fort Collins, CO in Larimer County. The site is situated just north of and adjacent to the Home Office Mine (Permit No. M-1977-439), also operated by Martin Marietta Materials, Inc. Access to the site is from the east off of N Taft Hill Rd or from the south through the Home Office Mine. **Photos 1-20** taken during the inspection are included with this report.

This is a 112c operation permitted for 51.18 acres (see enclosed Google Earth image of site) to mine sand and gravel for construction material use. The approved mining plan (see enclosed mining plan map) includes mining the site in two phases, with the first phase including dewatering the site and the second phase including mining the site. Water will be pumped into settling ponds located on the pit floor, then conveyed south via an existing dewatering trench to the adjacent Home Office Mine permit area, where the water will ultimately be discharged to the Cache La Poudre River under the operator's CDPHE discharge permit. Salvaged topsoil and overburden will be used to create a temporary visual berm along the eastern edge of the site, along N Taft Hill Rd. The operation will excavate one large pit covering the majority of the permit area (approximately 30 acres in size) and a smaller pit in the southwestern portion of the permit area (approximately 2-3 acres in size), both at a depth of approximately 15-20 feet. Mined material will be crushed on the pit floor then transported to the Home Office Mine permit area for secondary processing, washing, and stockpiling. Mining began at the southern edge of the site and commenced generally northward. An existing residential access road (Seaworth Ln) which runs east-west across the center of the site will be relocated to the northern edge of the site during mining. In 2016, the Division approved Technical Revision No. 1 (TR-1) to allow the conveyor system used for the Home Office Mine to be constructed across the southern edge of this permit area in order to convey material mined east of N Taft Hill Rd to the Home Office Mine's processing plant located west of the road.

The approved post-mining land use for the site is wildlife habitat. The original approved reclamation plan included using the stockpiled overburden material to construct a berm across the center of the larger pit to create two separate groundwater ponds. A smaller groundwater pond would remain in the southwestern portion of the site. TR-1 (approved in 2016) revised the reclamation plan to not construct the berm across the larger pit, and to instead leave this pit as one large unlined pond (see enclosed reclamation plan map). Pit slopes will be graded to 3H:1V or flatter. The temporary overburden stockpiles will be used to backfill pit slopes and the remainder graded to 3H:1V or flatter. The portion of the conveyor system which crosses the southern edge of the site will be removed for reclamation. All compacted areas (e.g., stockpile/equipment storage areas, conveyor area, roads) will be ripped or disked as necessary to eliminate compaction. All disturbed land, including pond shorelines down to the anticipated water level, will be retopsoiled at a depth of approximately one foot and revegetated with a grass, forb, and shrub seed mixture. All roads will be reclaimed except for the existing residential access road (Seaworth Ln), which will be relocated to the northern edge of the permit area.

According to the permit file, this site was in Temporary Cessation from March of 2005 through August of 2015. At that time, only the southern 1/3 of the permit area had been disturbed. The rest of the larger pit was mined out from 2015 through 2017, after which, the dewatering pumps were removed and the water allowed to fill back into the pits. The site has been in reclamation since that time, except for the conveyor disturbance area.

At the time of the inspection, the weather was partly cloudy, warm and dry. Mining activities are completed at the site, besides the operator's continued use of the conveyor system for its adjacent Home Office Mine permit. The Division estimates approximately 1,130 feet of the conveyor system is present within this permit area, and the conveyor disturbance area covers approximately 2.6 acres. An approximate 5 foot tall berm is constructed

along the northern edge of the conveyor system. The rest of the site disturbance includes a larger unlined pond (estimated to cover 32 acres) and a smaller unlined pond in the southwestern portion of the permit area (estimated to cover 2.7 acres). The pond shorelines have been graded to 3H:1V or flatter and appeared to be stable with good vegetative cover. Land surrounding the larger pond was well-vegetated, except for the area located east and southeast of the pond (covering approximately 4.7 acres), where vegetative cover was fairly sparse. The operator indicated this area has been reseeded multiple times in recent years. There is a slight ridge along the eastern edge of the permit area where the remaining overburden stockpiles were graded to 3H:1V or flatter. The existing residential access road has been relocated to the northern edge of the site. An additional road has been constructed around the smaller southwestern pond.

According to the original permit application, the affected lands are owned by Western Mobile Northern, Inc. However, the county website shows the landowners of the affected lands to be Ronny and Billy LLC and William O. and Paulette M. Seaworth. The Division was unable to find an updated right of entry document in the permit file after Martin Marietta Materials, Inc. took over the permit in 2012. **This is cited as a problem in this report (see page 1), requiring the operator to provide evidence of its legal right to enter to conduct mining and reclamation for all owners of record of the affected lands. This may include a copy of a lease, deed, abstract of title, a current tax receipt, or a signed statement by the landowner and acknowledged by a Notary Public stating the operator has the legal right to enter to conduct mining and reclamation.**

The Division currently holds a financial warranty for the site in the amount of \$940,000.00, which was increased to this amount in 2016 to include the installation of a slurry wall liner around the perimeter of the groundwater ponds. This was due to the operator not having obtained a water court approved permanent augmentation plan for the exposed groundwater at the site. In its 2019 annual report submittal, the operator informed the Division the permit is no longer covered under their Substitute Water Supply Plan, and the landowner (Bill Seaworth) had obtained a water court approved augmentation plan for the site. A copy of this decree was provided to the Division. Because the operator has demonstrated the appropriate water rights are in place for the exposed groundwater on site, the Division no longer requires the financial warranty to include costs for installing a slurry wall around the ponds.

The Division estimates remaining reclamation at the site to include removal and disposal of the 1,130 foot section of the conveyor located within the permit area, grading out the berm located north of the conveyor to 3H:1V, ripping 4.8 acres of compacted areas, retopsoiling and revegetating 4.8 acres of disturbed land, and reseeding 4.7 acres of land located east and southeast of the large pond (with sparse vegetative cover). The currently held financial warranty is considered adequate to complete reclamation of the site in accordance with the approved plan. The operator could request a surety reduction to remove costs for installing a slurry wall since the appropriate water rights have been obtained to cover the exposed groundwater at the site.

Given that mining is complete at this site and current activities include operating a conveyor system which supports another mine operation (Home Office Mine), the Division strongly recommends the operator either incorporate this entire permit into the Home Office Mine permit then request a release of this permit, or incorporate the conveyor disturbance into the Home Office Mine permit then request a release of this permit once the eastern portion has been successfully revegetated.

This concludes the report.

Any questions or comments regarding this inspection report should be forwarded to Amy Eschberger at the Colorado Division of Reclamation, Mining and Safety, 1313 Sherman Street, Room 215, Denver, CO 80203, via telephone at 303-866-3567, ext. 8129, or via email at amy.eschberger@state.co.us.

PHOTOGRAPHS



Photo 1. View looking north across southwestern edge of large pond, showing slopes graded to 3H:1V or flatter and stable with good vegetative cover. Some weed control is needed in this area.



Photo 2. View looking north across southwestern shoreline of large pond, showing slopes graded to 3H:1V or flatter and stable with good vegetative cover. Some weed control is needed in this area.



Photo 3. View looking west across southwestern portion of large pond, showing slopes graded to 3H:1V or flatter and stable with good vegetative cover.



Photo 4. View looking southeast across southern shoreline of large pond, showing slopes graded to 3H:1V or flatter and stable with good vegetative cover. Some weed control is needed in this area. Note approx. 5 foot tall berm (indicated) constructed along northern edge of conveyor.



Photo 5. View looking west at conveyor system installed along southern edge of permit area, which supports Home Office Mine permit.



Photo 6. View looking west across area located southeast of large pond which requires additional revegetation efforts and some weed control.



Photo 7. View looking southwest across southeastern shoreline of large pond, showing slopes graded to 3H:1V or flatter and stable with good vegetative cover. Area located just east of shoreline (in foreground) requires additional revegetation efforts and some weed control.



Photo 8. View looking north across eastern shoreline of large pond, showing slopes graded to 3H:1V or flatter and stable with good vegetative cover. Area located just east of shoreline (in foreground) requires additional revegetation efforts and some weed control.



Photo 9. Ground view in area located east of large pond, showing sparse vegetative cover present in this area.



Photo 10. View looking north across area located east of large pond which requires additional revegetation efforts and some weed control. Note berm left along eastern edge of permit area (indicated) where remaining overburden stockpiles were graded to 3H:1V or flatter.



Photo 11. View looking north from eastern permit boundary across area located east of large pond which requires additional revegetation efforts and some weed control. Note slopes graded to 3H:1V or flatter.



Photo 12. View looking south across area located northeast of large pond which requires additional revegetation efforts and some weed control.



Photo 13. View looking northeast across area located northeast of large pond which requires additional revegetation efforts and some weed control.



Photo 14. View looking southeast across northeastern shoreline of large pond, showing slopes graded to 3H:1V or flatter and stable with good vegetative cover.



Photo 15. View looking east across northern shoreline of large pond, showing slopes graded to 3H:1V or flatter and stable with good vegetative cover.



Photo 16. View looking south across western shoreline of large pond, showing slopes graded to 3H:1V or flatter and stable with good vegetative cover.



Photo 17. View looking north across area located west of large pond, showing well established grasses in this area.



Photo 18. View looking southeast at western shoreline of large pond, showing slopes graded to 3H:1V or flatter and stable with good vegetative cover.



Photo 19. View looking south across area located west of large pond, showing well-established grasses in this area.



Photo 20. View looking northwest at residential access road which was relocated to northern edge of permit area per the approved reclamation plan. Note fence (in background) which delineates northern permit boundary.

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>Y</u>
(HB) HYDROLOGIC BALANCE----- <u>Y</u>	(BG) BACKFILL & GRADING----- <u>Y</u>	(EX) EXPLOSIVES----- <u>NA</u>
(PW) PROCESSING WASTE/TAILING---- <u>N</u>	(SF) PROCESSING FACILITIES----- <u>Y</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>Y</u>	(RS) RECL PLAN/COMP-- <u>Y</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>NA</u>	(SC) EROSION/SEDIMENTATION--- <u>Y</u>	(ST) STIPULATIONS----- <u>N</u>
(AT) ACID OR TOXIC MATERIALS----- <u>NA</u>	(OD) OFF-SITE DAMAGE----- <u>N</u>	(RE) RIGHT OF ENTRY-- <u>PB</u>

Y = Inspected / N = Not inspected / NA = Not applicable to this operation / PB = Problem cited / PV = Possible violation cited

Inspection Contact Address

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

Encls: Google Earth image of site
Mining Plan Map
Reclamation Plan Map

CC: Michael Cunningham, DRMS

M-2001-051 / North Taft Hill Expansion Site / Martin Marietta Materials, Inc. (112c)

Red outline = 51.18 acres = Approved permit area (location approximated based on permit maps)

Blue outline = 34.7 acres = Total estimated pond surface area (32 acres + 2.7 acres)

Yellow line = 1,130 feet = Approximate length of conveyor located within permit area
(Image data from 7/17/2019)



John F. & Gary T. Stegner

EXISTING SAND AND GRAVEL
EXTRACTION AND PROCESSING
UNDER DMG PERMIT #M 99-021

TAYLOR AND GILL DITCH
COMPANY WATER SUPPLY DITCH
(EXISTING)

PROPOSED LANDSCAPE CLUSTER
(TYP.)

Ira Ray
& Kenneth Stegner

David Slatten

David Slatten

58' EXIST. ROW

W. FORT COLLINS
W.D. 6" W/L
High Country Electric/Mike A

Darwin Roe

Steven Kuhlman

EXISTING POWER LINE

Bill Martin

CONVEYOR
BRIDGE

OPEN CONVEYANCE FOR
DEWATERING RETURN
1.5' DEEP, 3:1 SIDESLOPES

M-1977-439
MARTIN MARIETTA

EXISTING SAND AND GRAVEL
EXTRACTION AND PROCESSING
UNDER DMG PERMIT #M 77-439

MARTIN MARIETTA

PROPOSED CONVEYOR

PHASE 1:
DEWATERING
MINING AREA: 14.62 AC

MARTIN MARIETTA

PHASE 2: MINING
AREA: 28.26 AC

IRRIGATION DITCH TO BE
REMOVED (TYP.)

SETTLING POND

OVERBURDEN STOCKPILE/LANDSCAPE BERM

SETTLING POND

OVERBURDEN STOCKPILE/LANDSCAPE BERM

EXISTING ROAD TO BE REMOVED
AND RELOCATED TO NORTH END
OF PROPERTY

OVERHEAD SERVICE & FENCE TO
BE REMOVED AND RELOCATED

PROPERTY
BOUNDARY

PERMIT
BOUNDARY

William Seaworth

FENCE (TYP.)

Shirley Todd

CALLAHAN DRAIN
DITCH RETURN

William Seaworth

LEGEND

- Existing Topography
- Property Line
- Permit Boundary
- Dirt Road
- Paved Road
- Trail
- Building
- Fence
- Transmission Line
- Mining Area
- Tree/Vegetation
- Underdrain
- Irrigation Ditch
- Water Edge

AREAS

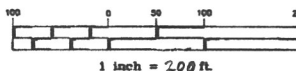
TOTAL PERMIT AREA: 51.18 AC
AREA TO BE MINED (PHASES 1&2): 42.88 AC

OPERATION PHASES

DESCRIPTION	NUMBER OF YEARS FOR MINING
PHASE 1	0.5-1
PHASE 2	2-4

APPLICANT: MARTIN MARIETTA
WESTERN MOBILE NORTHERN, INC. dba LAFARGE
1800 N TAFT HILL ROAD
P.O. BOX 2187
FORT COLLINS, CO 80522
PHONE: (970) 407-3600
FAX: (970) 407-3900

OWNER: MARTIN MARIETTA
WESTERN MOBILE NORTHERN, INC. dba LAFARGE
1800 N TAFT HILL ROAD
P.O. BOX 2187
FORT COLLINS, CO 80522
PHONE: (970) 407-3600
FAX: (970) 407-3900



NORTH TAFT HILL EXPANSION SITE

EXHIBIT C
PRE-MINING AND MINING PLAN MAP

JOB NO. 864-040

SCALE 1"=200'

DATE 11/02/16

SHEET

1 OF 1

