



STATE OF
COLORADO

Ridley - DNR, Hunter <hunter.ridley@state.co.us>

Compliance Requirement Past Due

Wyatt WEBSTER <wyatt.webster@holcim.com>

Mon, Jun 17, 2024 at 8:02 AM

To: "DRMS_PermitAdmin - DNR, DNR_" <dnr_drms_permitadmin@state.co.us>, Hunter Ridley - DNR <hunter.ridley@state.co.us>

Attached

Wyatt Webster | Environmental and Land Manager

Holcim Group | Holcim - WCR, Inc.

Address: [1687 Cole Blvd., Suite 300](#)

[Golden, CO 80401](#)

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Daniels Sand Pit 2 - June 2024 Observation.pdf

3635K

June 13, 2024
Project No.: 19125

350 Indiana Street, Suite 750
Golden, Colorado 80401
303.625.9502

Holcim
1687 Cole Boulevard, Suite 300
Golden, CO 80401

Attention: Wyatt Webster & Neil Whitmer
Environmental and Land Managers

Regarding: Daniels Sand Pit 2, Permit No. M-1973-007-SG
Slope Stability Monthly Monitoring Report

Mr. Webster and Mr. Whitmer,

Lithos Engineering (Lithos) has been retained by Holcim to implement a slope stability monitoring plan for the Fountain Mutual Ditch within Daniels Sand Pit 2. As required, Lithos is performing quarterly monitoring at the site. Stability monitoring is to occur as shown in the table below pending the State's review of these monitoring reports.

Monitoring Year	Reporting Frequency	Monitoring Report Due Dates
Year 1	Monthly	15 th of July 2022 through 15 th of June 2023
Year 2	Quarterly	9/15/2023, 12/12/2023, 3/15/2024, 6/15/2024
Year 3	Bi-Annual	December 15, 2024 and June 15, 2025
Final Report	One time	July 15, 2025

Lithos visited the site on June 12, 2024. And notes the following observations.

- 1) Several erosion gullies exist within the embankment slope. We recommend those areas be reconstructed ASAP and that the areas be seeded per the reclamation plan.
- 2) Weather: 85°, sunny, slight wind
- 3) Visual observation of the Fountain Mutual Ditch and ditch road:
 - a) No tension cracks.
 - b) Vegetation growing on banks of ditch and on invert.
 - c) Flowing water.
- 4) Visual observations of the Buttruss Slope
 - a) The buttress slope varies from 3H:1V to 4H:1V.
 - b) It is our understanding that seeding of the buttress will take place this summer. Majority of the buttress is covered in natural vegetation/weeds.
 - c) Several locations show visible evidence of surface water runoff and expanding erosion gullies throughout the buttress.
 - d) Several broken trees exist on the slope/buttruss crest near the ditch access road.



Photo 1. Water flowing in ditch



Photo 2. Erosion gullies in western area of buttress



Photo 3. Erosion gullies in western area of buttress



Photo 4. Erosion gully in eastern portion of buttress



Photo 5. Erosion gullies in central area of buttress



Photo 6. Erosion gullies in central area of buttress



Photo 7. Toe of buttress slope



Photo 8. Deer in ditch



Photo 9. Ditch and access road looking east



Photo 10. Ditch and access road looking west



Photo 11. Ditch looking north

If you have any questions regarding the contents of this report, please contact Lithos Engineering.

Sincerely,

Lithos Engineering/GEI Consultants



Steve Kuehr, PE
Senior Consultant

A handwritten signature in blue ink that reads "Sarah Myers".

Sarah Myers
Project Manager