

STATE OF
COLORADO

Cazier - DNR, Tim <tim.cazier@state.co.us>

Re: Daniels Monthly Report

1 message

Wyatt WEBSTER <wyatt.webster@holcim.com>
To: "Cazier - DNR, Tim" <tim.cazier@state.co.us>

Thu, Sep 14, 2023 at 12:26 PM

Hi Tim,

Attached September 2023 report for Daniels. Planning seeding these filled areas next spring.

Thanks again,

Wyatt Webster | Environmental and Land Manager
Holcim Group | Holcim - WCR, Inc.
Address: 1687 Cole Blvd., Suite 300
Golden, CO 80401
Office & Mobile: (702) 379-4623
Email: Wyatt.Webster@holcim.comOn Tue, May 16, 2023 at 2:43 PM Cazier - DNR, Tim <tim.cazier@state.co.us> wrote:
Thank you sir!**Tim Cazier, P.E.**
Environmental Protection Specialist III - Engineering
Mobile: 303-328-5229**COLORADO**
Division of Reclamation,
Mining and Safety
Department of Natural ResourcesP [303.866.3567](tel:303.866.3567) x8169 | F [303.832.8106](tel:303.832.8106) | C [303.328.5229](tel:303.328.5229)

Mailing Address: Division of Reclamation, Mining & Safety, Room 215, (optional: c/o: Tim Cazier), 1001 E 62nd Ave., Denver, CO 80216

Physical Address: 1313 Sherman St., Room 215, Denver, CO 80203

tim.cazier@state.co.us | <https://drms.colorado.gov>On Tue, May 16, 2023 at 2:38 PM Wyatt WEBSTER <wyatt.webster@holcim.com> wrote:
Attached edited version.**Wyatt Webster** | Environmental and Land Manager
Holcim Group | Holcim - WCR, Inc.
Address: 1687 Cole Blvd., Suite 300
Golden, CO 80401
Office & Mobile: (702) 379-4623
Email: Wyatt.Webster@holcim.comOn Tue, May 16, 2023 at 2:31 PM Cazier - DNR, Tim <tim.cazier@state.co.us> wrote:
Thanks Wyatt.As I reviewed the report I noticed it states Lithos visited the site on **March** 14th. I'm assuming this is a typo. Can you ask Lithos to revise the letter with the date they visited the site this month?

I didn't get the report into the system yesterday afternoon, so Neil received a late notice early this morning. If he passed that on to you, rest assured

September 5, 2023
Project No.: 19125

2750 S. Wadsworth Blvd, Suite D-200
Lakewood, Colorado 80227
303.625.9502
www.LithosEng.com

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 has begun 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 Engineering (Lithos) visited the site on September 5, 2023. And notes the following observations.

- 1) The majority of the ditch road has been repaired and the berm height between the access road and the ditch has been heightened. One erosion gully has reached the ditch road (eastern portion of the buttress).
- 2) At several locations, erosion gullies have been repaired. However, erosion gullies still exist within the embankment slope. We recommend those areas be reconstructed ASAP and that the areas be seeded per the reclamation plan.
- 3) Weather: 50-79°, sunny, winds 10 - 15 mph
- 4) 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) No water flowing in ditch.
 - d) The condition of the ditch bottom is stable, the ditch berm stability is in question.
- 5) Visual observations of the Buttress Slope
 - a) The buttress slope varies from 3H:1V to 4H:1V.
 - b) Vegetation (mainly weeds) are growing in some locations on the buttress.

- 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/buttress crest near the ditch access road.



Photo 1. Dry ditch invert with vegetation



Photo 2. Erosion gully on ditch access road



Photo 3. Tree south of access road and on crest of buttress slope



Photo 4. Erosion gullies 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. Recent repair on western portion of buttress



Photo 8. Repair on eastern portion of buttress



Photo 9. Ditch and access road looking east



Photo 10. Ditch and access road looking west

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

Sincerely,
Lithos Engineering

Benny Siljenberg, PE
Vice President
303.590.8306



Sarah Myers

Sarah Myers
Project Engineer