



STATE OF  
COLORADO

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

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## M1973007SG Daniels Quarterly Report

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**Ridley - DNR, Hunter** <hunter.ridley@state.co.us>  
To: Wyatt WEBSTER <wyatt.webster@holcim.com>

Fri, Mar 15, 2024 at 11:32 AM

Received, thank you Wyatt. I will follow up with any questions or concerns.

Best,  
Hunter Ridley (she/her/hers)  
Environmental Protection Specialist I



**COLORADO**  
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March 13, 2024  
Project No.: 19125

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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 <sup>th</sup> of July 2022 through 15 <sup>th</sup> 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 March 12, 2024. And notes the following observations.

- 1) Some erosion gullies have been repaired. However, several 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.
- 2) It is our understanding that seeding of the buttress will take place early this summer.
- 3) Weather: 35-61°, cloudy, winds 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, ditch is dry.
- 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. Recent repair





Photo 2. Recent repair



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





Photo 4. Erosion gully in eastern portion of buttress





Photo 5. Erosion gullies in central area of buttress, note sand at toe of slope





Photo 6. Erosion gullies in central area of buttress





Photo 7. Erosion gullies



Photo 8. Pumping operations near toe of impoundment pond embankment





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**

Benny Siljenberg, PE  
Vice President  
303.590.8306



*Sarah Myers*

Sarah Myers  
Project Engineer