



STATE OF  
COLORADO

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

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## Daniels Sand Pit 2, Permit No. M-1973-007-SG

1 message

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**Jeremy PRITCHETT** <jeremy.pritchett@lafargeholcim.com>  
To: "Cazier - DNR, Tim" <tim.cazier@state.co.us>  
Cc: Kimberly DENNIS <kimberly.dennis@lafargeholcim.com>

Wed, Sep 15, 2021 at 10:14 AM

Good morning Tim,

We contracted a registered PE to conduct the monthly post-construction monitoring of the slope stability project at Daniels Sand Pit 2. Attached is the monitoring report for September. Please let me know if you have any questions.

Thanks,

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**Jeremy Pritchett** | Environmental and Land Manager  
LafargeHolcim | Aggregate Industries  
Address: [1687 Cole Blvd., Suite 300 Golden, CO 80401](#)  
Office & Mobile: (970) 396-5252  
Email: [Jeremy.Pritchett@lafargeholcim.com](mailto:Jeremy.Pritchett@lafargeholcim.com)



**Daniels Sand Pit 2 - September 2021 Monitoring.pdf**  
893K

September 14, 2021

Project No.: 191

Aggregate Industries – WCR, Inc  
1687 Cole Boulevard, Suite 300  
Golden, CO 80401

Attention: Jeremy Pritchett  
Environmental and Land Manager

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

Mr. Deuto,

Lithos Engineering (Lithos) has been retained by Aggregate Industries to implement a slope stability monitoring plan for the Fountain Mutual Ditch within Daniels Sand Pit 2. Monthly monitoring will occur for the first year after construction completion. Lithos Engineering (Lithos) visited the site on September 14, 2021 and was escorted by Grant Smith (Daniels Sand Plant Manager). Site notes and photographs are presented below:

- Weather: 50-77°, partially cloudy, wind 5-10 mph, light rain
- Visual observation:
  - No tension cracks
  - No toe erosion
  - No moisture changes
  - No sloughed slope surfaces
- Construction sequence discussion
  - Onsite recycled concrete was pushed into the New Wash Fines Ponds up to 80 feet



Photo 1. Recycled concrete

- Vegetation (including Cotton Wood Trees) was removed from the mine slope
- Woven geotextile (WinFab 450N 15ftx360ft NTPEP) was placed over the recycled concrete (overlay approximately 2 ft)



Photo 2. Onsite geotextile

- Sand was placed in 12 to 18 inch loose lifts. Mostly onsite sand, some imported native sand (located on other side of the property)
- Compaction with dozer



Photo 3. Buttress slope with equipment tracks



- At this time, the buttress slope varies from 3H:1V to 4H:1V
- Preparation for final lift
  - Stockpiled sand located at crest of embankment
  - Will be completed within a month
  - Working on obtaining materials for seeding



Photo 4. Stockpiled sand for final lift

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

Sincerely,

**Lithos Engineering**



Steve Kuehr, PE  
Senior Consultant

Sarah Myers, EIT  
Project Engineer