

STATE OF  
COLORADO

Cazier - DNR, Tim &lt;tim.cazier@state.co.us&gt;

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

1 message

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**Jeremy PRITCHETT** <jeremy.pritchett@lafargeholcim.com>

Tue, Mar 15, 2022 at 1:54 PM

To: "Cazier - DNR, Tim" &lt;tim.cazier@state.co.us&gt;

Cc: Neil Whitmer &lt;neil.whitmer@lafargeholcim.com&gt;, Grant SMITH &lt;Grant.Smith@transitmix.com&gt;

Hi Tim,

Attached is the Daniels Pit 2 monthly slope stability monitoring report for March, 2022. Please let me know if you have any questions or concerns.

Thanks,

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**Jeremy Pritchett** | Environmental and Land Manager

LafargeHolcim | Aggregate Industries

Address: [1687 Cole Blvd., Suite 300 Golden, CO 80401](#)

Office &amp; Mobile: (970) 396-5252

Email: [Jeremy.Pritchett@lafargeholcim.com](mailto:Jeremy.Pritchett@lafargeholcim.com)**Daniels Sand Pit 2 - March 2022 Observation .pdf**

3482K



March 11, 2022  
Project No.: 19125

2750 S. Wadsworth Blvd, Suite D-200  
Lakewood, Colorado 80227  
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[www.LithosEng.com](http://www.LithosEng.com)

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. Pritchett,

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 March 11, 2022. The ditch and the condition of the buttress slope are stable. Site notes and photographs are presented below:

- Weather: 18-33°, sunny, winds 5-10 mph, snow cover
- Visual observation of the Fountain Mutual Ditch:
  - No tension cracks
  - No toe erosion that was visible due to the presence of water
  - Water flowing, approximately 3 feet deep
  - No sloughed slope surfaces
  - Several broken branches near crest
  - The condition of the ditch is stable



Photo 1. Fountain Mutual Ditch looking east with buttress slope





Photo 2. Fountain Mutual Ditch looking west





Photo 3. Fountain Mutual Ditch looking north





Photo 4. Fountain Mutual Ditch invert with water

- Construction sequence
  - At this time, the buttress slope varies from 3H:1V to 4H:1V
  - Approximately 110 LF (from the west) has been placed for the final lift, slope is approximately 3H:1V
  - Stockpiled sand located at the crest of the embankment for the remainder of the length in preparation for the final lift, some snow cover on the stockpiles



Photo 5. Stockpiled sand for final lift, access road and ditch (looking west)





Photo 6. Buttress slope looking east





Photo 7. Buttress slope looking west



Photo 8. Buttress slope looking south (zoomed in)





Photo 9. Buttress slope looking south

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