



May 11, 2022
Project No.: 19125

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Aggregate Industries – WCR, Inc
1687 Cole Boulevard, Suite 300
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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 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 May 6, 2022. The ditch and the condition of the buttress slope are stable. Site notes and photographs are presented below:

- Weather: 53-80°, sunny and clouds mixed, winds 10 mph
- Visual observation of the Fountain Mutual Ditch:
 - No tension cracks
 - No toe erosion that was visible
 - Water flowing in the ditch (~2 feet depth)
 - 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 looking north with branches

- Construction sequence
 - At this time, the buttress slope varies from 3H:1V to 4H:1V
 - Approximately 20 LF from the east needs to be placed for the final lift
 - The fallen tree has been removed from the stockpile material, however several branches remain on the eastern end of the buttress
 - Approximately 40 LF needs to be regraded near the fallen tree location



Photo 5. Buttress slope/stockpile, access road and ditch (looking west)



Photo 6. Buttress slope looking east from crest



Photo 7. Butress slope looking south (note branches)



Photo 8. Buttress slope looking south



Photo 9. Butress slope looking south, area needs regrading



Photo 10. Buttress slope looking east, branches near stockpiled material and buttress slope

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