



STATE OF
COLORADO

Ebert - DNR, Jared <jared.ebert@state.co.us>

Henderson Development M-1980-110

Derek Slack <dslack@e-470.com>

Tue, Oct 29, 2019 at 9:37 AM

To: "Ebert - DNR, Jared" <jared.ebert@state.co.us>

Cc: Neil Thomson <NThomson@e-470.com>

Jared,

Here is our response on the water at Sandy Acres, you will also be getting a hard copy. Let me know if you have any questions or concerns.

Derek Slack, P.E.

Roadway Maintenance Manager

E-470 Public Highway Authority

22470 E. Stephen D. Hogan Parkway, Suite 100

Aurora, CO 80018

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Ltr Dept of Natural Resources Jared Ebert 10.29.19.pdf

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October 29, 2019

Department of Natural Resources
Attn: Jared Ebert
Colorado Division of Reclamation, Mining & Safety
1313 Sherman Street Room 215
Denver, CO 80203-2243

Re: Sandy Acres Pit, DRMS Permit No. M-1980-110
Hydrologic Balance response

Dear Mr. Ebert:

This is in response to the Hydrologic Balance topic in the Minerals Program Inspection Report from July 17, 2019.

In the spring of 2016 the pond was backfilled to a depth of 4 feet above the pond water elevation at a cost of just under \$3 million. All parties involved at that point in time concurred that backfilling to that elevation should eliminate issues with ground water causing a pond. Initially after the backfill was completed the pond bottom was dry but as time has progressed more of the area is being covered by water. At two points in time, July 1, 2016 and September 19, 2019, test pits were dug in the bottom of the backfilled pond area in an effort to determine if the water was ground water or ponding storm water. Both times pits were excavated to a depth of 4-5 feet below the water surface elevation and no water was encountered even though the pits were less than 100 feet laterally from the surface water. That would lead one to believe that the ponding water is storm water but we have observed that the area covered by water has continued to increase even during periods with little to no precipitation. It also appears that the area being covered by water is expanding from the south to the north. Because of these observations we have also met with the water district that has a 36 inch waterline traversing around the southern end of the pond. A site investigation did not uncover any telltale signs that the line is leaking.



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In an effort to determine a solution to the ponding water we have engaged our water consultant and water attorney, dug test pits, and met with the waterline owner. To date we have not been able to determine the source of the water and therefore have not been able to determine the appropriate solution. We have included funding in our proposed 2020 budget to implement or begin to implement a solution in 2020 if a solution is found. We believe we have been diligent in working toward finding a solution but determining the source of the water has proven to be very complex. We are therefore requesting that we be allowed to continue to investigate and observe the area to determine the source of the water and report back on our findings on or before July 1, 2020.

If you have any other questions or need more information, please call me at (303) 537-3710.

Sincerely

A handwritten signature in cursive script that reads "Derek Slack".

Derek Slack, P.E.
Roadway Maintenance Manager