

11.13.2021

Memo

CROOK COUNTY
NOV 15 2021
PLANNING DEPT



To
Matt Ropp
Knife River

From
Amber L. Hudspeth
Hudspeth
Land+Water

Re
Woodward Site
Monitoring Well
Access

On November 10, 2021 at approximately 12:00 PM, I accompanied Jim Newton of Cascade Geoengineers LLC (Cascade) on a site visit to the Woodward property. Also present were Bill Gibson of Knife River, Emily Wells of Hudspeth Land+Water (HLW) and Dick Zimmerlee. The purpose of the site visit was to measure static water levels in three on-site monitoring wells.

Monitoring well background: Three monitoring wells were constructed at the direction of Knife River, under the supervision of Stantec, in February 2021. HLW has been monitoring water levels and fluctuations since the time of construction.

As requested by Knife River, Mr. Newton shared his static water level measurement (top of well head measurement) with HLW. They are as follows:

Well WW 1: 21.25'

Well WW 2: 20.41'

Well WW 3: 17.14'

HLW also took measurements of static water levels during the site visit (top of wellhead measurement). HLW's measurements are as follows:

Well WW 1: 21.3'

Well WW 2: 20.6'

Well WW 3: 17.2'

HLW's static water level measurements on October 29, 2021 are as follows:

Well WW 1: 20.8'

*Well WW 1 is the southern most well/nearest Stahancyk Lane

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For comparison, HLW's static water level measurements upon completion of construction of the monitoring wells in February 2021 are as follows:

Well WW 1: 24.8'

Conclusion: Water level measurements by HLW and Cascade were consistent. As was expected, based on my experience with the surrounding area and knowledge of the water table, water levels since the construction of the monitoring wells reflect normal seasonal fluctuations, drought conditions, and minor influence of irrigation water delivered through the unlined irrigation canal and ditch system. I have not observed any evidence that suggests water levels have been impacted by Knife River's activities on the Woodward property.
