

December 17, 2024

Ryan Dougherty, PE, RG, CWRE
Hydrogeologist / Water Resources Engineer
Summit Water Resources, LLC
Via email: rdougherty@summitwr.com

**Re: Well #3 (PR#164-2024)
City of Banks (PWS ID#00076)
Site Plan Evaluation**

Dear Ryan:

Thank you for your submittal to the Oregon Health Authority's Drinking Water Services (DWS) of plan review information for the Well #3 project for Banks Water Department. On December 6, 2024, our office received a site plan, well drilling specifications, land use compatibility statement, and water rights information. A plan review fee of \$3,300 was also received.

The project includes drilling a well to an approximate depth of 650 to 750 feet below ground surface. The site plan notes a public roadway within 100' of the well.

A regional geologist in our program reviewed the proposed well construction. He noted the following, which should be shared with the well driller:

- The estimated depth to a water-bearing zone is 355 feet. The aquifer nature is expected to be confined. The proposed seal depth is reasonable.
- The proposed construction appears to be appropriate based on nearby Well #2 (WASH62373).

As noted above, a road is located within 100' of the well site. A waiver for the setback issue cannot be approved prior to drilling a well. If the well is properly drilled into a confined aquifer, then OHA/DWS may be able to waive the requirement. If the well is not drilled into a confining aquifer, then OHA/DWS may not be able to approve the well for use by the water system.

Due to the setback issue, **the site plan/location cannot be approved at this time.** If a properly constructed confined aquifer well is drilled, please submit:

1. The well driller's report (well log).
2. Well pumping test information including static water level, pumping rate, drawdown and rate of recover.
3. Pump information.
4. Raw (Untreated) Water Quality Data including coliform bacteria, IOCs (including nitrate, nitrite and arsenic), SOCs, VOCs and radionuclides. These are to be taken from the new well's raw water sample tap at the wellhead.
5. Engineered plans that show the above-well structure detail including the well house, concrete slab, drainage, pump-to-waste piping and plans and specifications for reconnection of the well to the water system.

A pond NW of the proposed well site is within 500' of the proposed well head location. Based on local geology and proposed well construction, it is less likely that there would be a groundwater under the direct influence of surface water (GWUDI) concern with the proposed well location. Final analysis to determine if there is a GWUDI concern will have to be conducted after the well has been constructed and the well log is submitted to DWS for review.

The above items should reference Plan Review #164-2024 and can be emailed to me at Carrie.L.Gentry@oha.oregon.gov.

If you have any questions, please feel free to call me at (971) 201-9794.

Sincerely,



Carrie Gentry, PE
Regional Engineer
OHA-Drinking Water Services
Carrie.L.Gentry@oha.oregon.gov

cc: Nicole Alfafara, REHS, OHA/DWS
Jolynn Becker, City Manager, City of Banks, jbecker@cityofbanks.org
Paul Sellke, PE, GE, AKS Engineering & Forestry