

November 26, 2024

Michael Brady
Linn-Benton Community College
6500 Pacific Blvd
Albany, OR 97321

Sent by email only

Re: **Water System (PR#137-2024)**
Linn-Benton Community College (PWS ID#95748)
Site Plan Evaluation

Dear Michael Brady:

Thank you for your submittal to the Oregon Health Authority's Drinking Water Services (DWS) of plan review information for the new water system for Linn-Benton Community College. On November 6, 2024, our office received drawings and a Land Use Capability Statement (LUCS) and a plan review fee of \$825.

The project includes drilling a new well, construction of a new water distribution system and the possibility of new water treatment and/or storage depending on new well water quality and quantity.

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

- The well is proposed to be sealed to a minimum depth of 18 feet according to submitted plans. The casing seal shall be placed as per OAR 690-210-0140 and/or the applicable standard based upon lithology encountered during drilling.
- The proposed well location is surficially mapped as the Willamette Silt (Qwst) draped over terrace gravel deposits. Based upon the shallow proposed depth of 80ft, the target aquifer appears to be the Willamette Aquifer. Wells in the area appear to produce from sand and gravel deposits overlain by silt and clay. Based upon

neighboring well logs, the aquifer appears to be shallow semi-confined to confined. Thin silt layers appear to be somewhat confining in neighboring wells.

- The well location shall meet the 100 ft setback to all sanitary hazards, including but not limited to stormwater facilities, fertilizer and pesticide application and any sources of pathogenic organisms, as per OAR 333-061-0050 (2)(a)E. A formal waiver from construction standards shall be required if sanitary setbacks cannot be maintained and based upon as-built well construction. In the event of pathogenic contamination confirmation in the source, the waiver will be subject to possible revocation and the well may be required to be reconstructed.

The preliminary chosen well location appears it will not meet required setbacks from property lines, roadways and stormwater disposal areas. A waiver for the setback and/or radius of control 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.

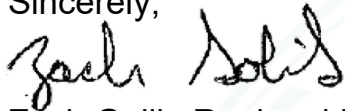
Due to the setback and/or radius of control issue, **the site plan/location cannot be approved at this time.** If a properly constructed confined aquifer well is drilled, please submit:

1. The well driller's report (well log).
2. A waiver request for the above noted setback issues, as appropriate.
3. Well pumping test information including static water level, pumping rate, drawdown and rate of recover.
4. Pump information.
5. 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.
6. 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.
7. A copy of the Water Right Permit from WRD, if a water right permit is required.

The above items should reference Plan Review #137-2024 and can be emailed to me at zachariah.cunningham-golik@oha.oregon.gov.

If you have any questions, please feel free to call me at 541-231-9077.

Sincerely,



Zach Golik, Regional Engineer
OHA-Drinking Water Services

CC:

- Stephen Kirkley, Linn County Health Department