

October 31, 2024

Brad Baird, PE
Anderson Perry & Associates
PO Box 1107
La Grande, Oregon 97850

**Re: New Well #4, Plan Review #97-2024, Town of Lexington, PWS ID #4100479
Site Plan Approval**

Dear Brad:

Thank you for your submittal of plan review information to the Oregon Health Authority's Drinking Water Services (DWS). On July 31, 2024, our office received a site plan and proposed well drilling specifications. The plan review fee of \$825 was received on August 5, 2024. A Land Use Compatibility Statement was received on October 30, 2024. The project consists of drilling a new well located near the intersection of SW B Street and E West Street to an approximate depth of 700 feet below ground surface (bgs). **The site plan is approved.**

The proposed well construction was reviewed by our staff hydrogeologist who provided the following comments:

The estimated depth to the water-bearing zone is ~380 feet bgs based on well MORR 57. The submitted plans indicate the well will be sealed to a depth of ~525 feet bgs. The estimated nature of the aquifer is confined. Please note that if multiple water bearing zones are encountered during the drilling process or the well extends to beyond the proposed depth of 700 feet, the static water level (SWL) for individual water bearing zones will need to be measured in order to determine if separate aquifers are present. If the SWL changes between water-bearing zones, the well constructor shall consult with Oregon Water Resources Department (OWRD) regarding the seal depth and method of placement. For information regarding the well construction into consolidated formations and confined/artesian aquifers, see OWRD Administrative Rules 690-210-0150 for Sealing of Water Supply Wells in Consolidated Formations and 690-210-0155 for Additional Standards for Artesian Water Supply Wells.

I also have the following comments:

1. I recommend a pump test be conducted on the new well. Details are available online here:
<https://www.oregon.gov/OWRD/programs/GWWL/GW/Pages/PumpTestProgram.aspx>
2. A chlorination system will need to be installed at the new well to maintain a chlorine residual in the distribution system.
3. It is my understanding that plans for the well head piping and appurtenances that show how the required provisions of OAR 333-061-0050(2)(a)(K) will be met, including a raw water sample tap, totalizing flow meter, ability to pump to waste, and for the required chlorination system will be submitted in the future.
4. It is my understanding the city will coordinate with OWRD to use their existing water right permit G-15579 for the new well.

After the proposed well is drilled, please submit the following:

1. The well driller's report (well log).
2. Pump test information including static water level, pumping rate, and drawdown/rate of recovery information.
3. The make/model of the well pump and the depth the pump bowls are set.
4. Reports from an Oregon certified lab of raw (untreated) water quality data, including: coliform bacteria, Inorganic Chemicals (IOCs) including nitrate and arsenic, Volatile Organic Chemicals (VOCs), Synthetic Organic Chemicals (SOCs) and Radionuclides. These samples are to be collected from the new well's raw water sample tap at the well head.

Until it is verified that the project meets the construction standards in OAR 333-061-0050 and Final Approval is granted for the project, the new facilities are not approved for use. If you have any questions or would like this in an alternate format, please feel free to call me at (541) 966-0900 or email at william.h.goss@oha.oregon.gov .

Sincerely,



William Goss, P.E.
Regional Engineer

c: Julie Wray, OHA–DWS, Portland, OR
Veronica Ferguson, Town of Lexington
Ken Thiemann, Oregon Water Resources Department, Condon (pdf copy only)
Tommy Laird, Oregon Water Resources Department, Salem (pdf copy only)