PUBLIC HEALTH DIVISION
Drinking Water Services
Tina Kotek, Governor

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December 4, 2023

Brandon Mahon, PE
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P.O. Box 1107
La Grande, Oregon 97850

Re: New Well #1A, Pump Station, and Chlorination, Plan Review #131-2020, Rees Training Center, PWS ID# 4101136
Final Approval

Dear Brandon:

Thank you for your submittal confirming the above project was completed according to the approved plans. On September 4, 2020, a site map, details of the proposed well construction and pump station, a Land Use Compatibility Statement, and the plan review fee of $825 were received. The project consisted of drilling a new well No. 1A and constructing an associated pump station and hypochlorination system. **Final approval is granted for the project and the new well may be placed into service.**

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

> Well UMAT 58867/L138330's 16-inch casing is sealed from ground surface to 146 feet below ground surface (ft bgs) with 162 sacks of cement. A second seal interval and 12-inch casing extends from 122 to 252 ft bgs and is sealed with 85 sacks of cement. The well driller used more than the calculated amount of cement to seal the well. The well construction appears to meet OWRD's minimum well construction standards. The well was drilled to a depth of 368 ft bgs and is sealed 40 ft into unfractured basalt. The well produces water from the Columbia River Basalt aquifer which is under hydrostatic pressure. The two water bearing zones were noted below the seal which extends to a depth of 252 ft bgs. The first water bearing zone was encountered at 295 ft bgs and extends to a depth of 316 ft bgs. The second water bearing zone extends from 352 ft bgs to 360 ft bgs. The static water level for both zones was measured at 96 ft bgs. The rise in static water level is an indication the aquifer is confined.

The initial water quality monitoring requirements for the new well per OAR 333-061-0036(3) are annual sets of SOCs and VOCs for three years (2024, 2025, and 2026). If possible, these samples should be collected at Entry Point B (EP-B) downstream of the chlorine injection point while both wells #2 and #1A are running. If the piping configuration and controls do not allow this, the samples should be collected while well #1A is running. The sample results will be reviewed after they are received, and a long-term sampling schedule implemented.

In addition, two sets of five lead & copper samples must be collected to confirm water from the new well does not cause increased corrosion. One set must be collected between January and June 2024 and the second set between July and December 2024. Well #1A should be in use when these samples are collected. The revised sampling schedules will appear online here after January 1, 2024: https://yourwater.oregon.gov/schedule_status.php?pwsno=01136

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, PE
Regional Engineer

c: Julie Wray, OHA – Drinking Water Services, Portland
Chris Richardson, PE, Oregon Military Department, (pdf copy only)
Jim Wenzl, Oregon Military Department, (pdf copy only)
Tommy Laird, Oregon Water Resources Department (pdf copy only)
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