

September 9, 2024

Will Kirby, PE  
Consor Engineering  
Via email: Will.Kirby@consoreng.com

**Re: Well #9 (PR#150-2022)  
Redmond Water Department (PWS ID#00693)  
Conditional Approval**

Thank you for your submittal to the Oregon Health Authority's Drinking Water Services (DWS) of additional plan review information for the Well#9 project for Redmond Water Department, including information on the residual maintenance equipment for the new well site.

A regional geologist reviewed the well log construction details for the new well (Well ID DESC 64783, drilling completed in April 2024.) He noted the following:

- The below-ground construction meets current construction standards.
- Based on the information provided on the well log, an adequate amount of sealant and the proper method was used to seal the well. The cement/bentonite seal extends to a depth of 337 feet below ground surface into consolidated material consisting of what the driller described as "sandstone, dark, grey, medium".
- The area around the well is surficially mapped as volcanic rocks (Basalt of Redmond) of the Deschutes Formation. The well is construction into an unconfined aquifer most likely composed of layered volcanics of the Deschutes Formation.
- The depth of the water-bearing zone was measured at 265 feet below ground surface and the static water level was also measured at 265 feet. The lack of a rise in the static water level indicates that the aquifer is likely unconfined.

**The plans are approved with the following conditions:**

- As noted in the site plan approval letter, an additional fee of \$825 is required as this is a combined-review project (source and treatment). Please reference the plan review number (PR 150-2022) when paying the additional fee.
- Coliform bacteria, IOC, SOC, VOC and radionuclide sample results must be submitted. These samples must be obtained from the well head raw water sample

tap.

**Until we receive verification that the conditions have been met and final approval has been issued, the facility is not approved for use.** Upon completion of the project, the engineer must verify in writing that construction was completed according to the submitted plans. If substantial changes are made, a set of as-built drawings must be submitted. Documentation demonstrating how the above conditions were met should reference Plan Review #150-2022 and can be emailed to me at Carrie.L.Gentry@oha.oregon.gov.

Note that the water system will need to conduct two 6-month rounds of lead and copper sampling at the increased number of sampling sites (60) once the new well is in use.

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

Sincerely,



Carrie Gentry, PE  
Regional Engineer  
Drinking Water Services

cc: Chantal Wikstrom, REHS, OHA/DWS  
Lindsey Crowsigt, PE, Assistant City Engineer, City of Redmond