



PUBLIC HEALTH DIVISION
Drinking Water Services

Tina Kotek, Governor

Oregon
Health
Authority

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June 25, 2024

Joie Frazee
Lava Lake Lodge
Via email: joief55@gmail.com

**Re: New Well (PR#68-2022)
Lava Lake Lodge (PWS ID#94608)
Final Approval**

Dear Joie:

On June 10, 2024, our office received confirmation that the above project was completed.

The project included installation of well (well ID DESC 63025), drilled to a depth of 266 feet in October 2021. A review of the site plan suggests that the water system has the required 100' radius of control and setback to sanitary hazards. A surface water source (Lava Lake) is within 500' of the well.

Under OAR 333-061-0060(1)(b), submittals must be prepared by a Professional Engineer registered in Oregon, unless exempted by DWS. An exemption was approved for this submittal. Note that by utilizing this exemption, the water system takes full responsibility for the design of the project.

A regional geologist reviewed the well log construction details. He noted that the below ground construction details meet current construction standards. The well is sealed 9.5 feet into consolidated material described by the well driller as "gray basalts". If the well had gone through plan review prior to drilling, DWS would have recommended a seal depth of 152 feet below ground surface.

The depth to the water-bearing zone was measured at 195 feet below ground surface and the static water level rose to 158 feet below ground surface. The rise in the static water level indicates that the aquifer is "locally" confined.

Deschutes County Environmental Health's recent survey indicated remaining above ground

construction details meet standards.

Final approval is issued at this time, and the facility is approved for use.

The water system will need to conduct monthly assessment monitoring (raw water coliform sampling from the well's raw water sample tap) for one year. These samples are in addition to the required distribution coliform samples.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Carrie Gentry". The signature is fluid and cursive, with a large initial "C" and a long, sweeping tail.

Carrie Gentry, PE
Regional Engineer
Drinking Water Services

cc: Chantal Wikstrom, REHS, OHA/DWS
Jeff Freund, REHS, Deschutes County Environmental Health