

November 17, 2025

Maya Bashoury (mbashoury@rcparish.org)
Church of the Resurrection
21060 SW Stafford Road
Tualatin, OR 97062

Re: New Well (PR#62-2025)
Church of the Resurrection (PWS ID#95124)
Conditional Approval

Dear Maya:

Thank you for your submittal to the Oregon Health Authority's Drinking Water Services (DWS) of plan review information for the new well for the Church of the Resurrection. On April 29, 2025, our office received a site map and a site plan review application. A plan review fee of \$825 was received on May 5, 2025.

The project includes drilling a well (well log CLAC79382) on the church property with a seal extending into an expected basalt confined aquifer. The well head has a pitless adapter and a nearby pumphouse constructed.

The plans are approved subject to the following conditions:

- Provisions must be made for determining the depth to water surface in the well under pumping and static conditions.
- A raw water sample tap is required close to the well head, prior to any storage or treatment.
- Piping arrangements must include provisions for pumping the total flow from the well to waste.
- A method of determining the total output of the well must be provided (typically a flowmeter is used for this purpose).
- A casing vent must be provided and must be fitted with a screen.
- IOC, SOC, and VOC sample results must be submitted. These samples must be obtained from the well head raw water sample tap.

- Since the well is drilled in a confined aquifer and located near a road, OAR 333-061-0050(2)(a)(D) applies. This rule allows DWS to waive the setback requirement for a road that is located within 100' of a well. In order to approve this setback issue, information must be submitted that demonstrates how the well is "...protected against contamination from surface runoff or hazardous liquids which may be spilled on the roadway and is protected from unauthorized access".

A regional geologist in our program review the below ground well construction. He noted the following:

- This well was drilled to a depth of 323 ft. The casing and seal extend to a depth of 138 ft below ground, 10 ft into a competent basalt of low permeability. A narrow diameter liner and liner screen extend to the bottom of the well and help keep the hole open. Water can enter the well through the unsealed portion of the hole below the bottom of the casing and then through the liner screen from 283 to 323 ft. Sensitivity Analysis results suggest that well construction does not contribute to the overall sensitivity of the water source to nearby land use practices.
- This well draws water from a deep confined layered basalt aquifer. The water-bearing zone occurs at a depth of 230 ft below ground level. The water-bearing zone is overlain by 102 ft of basalt of low permeability that acts as a confining layer. The static is reported to be 212 ft below ground level, rising 18 ft above the water-bearing zone, indicating that water in the aquifer is under pressure. Sensitivity Analysis suggest the aquifer is not highly sensitive to nearby land use practices.
- SW Elk Road is within 65 ft of the wellhead. This well is adequately constructed into a confined aquifer. In addition, Sensitivity Analysis results suggest that well construction and aquifer characteristics have a low sensitivity to activities within the 100 ft sanitary setback such as the roadway. Therefore, water from this well is considered to have low susceptibility to SW Ek Road.

Until we receive verification that the conditions have been met and final approval has been issued, the well 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 #62-2025 and can be emailed to me at keith.male@oha.oregon.gov.

If you have any questions, please feel free to email to me at keith.male@oha.oregon.gov or call me at 503-939-1322.

Sincerely,



Keith Male, PE
Regional Engineer
Drinking Water Services

cc: Julie Wray, DWS
Joel Ferguson, REHS, Clackamas County Health Department
Amy Landvoigt, District 20 Watermaster
Tommy Laird, Well Construction Program Coordinator, OWRD

