Public Health Division

Center for Health Protection, Drinking Water Services

Tina Kotek, Governor

July 15, 2025

John Woody
Steamboat Inn
42705 N. Umpqua HWY
Idleyld Park, OR 97447

s*ent by email only*

Re: Tanks/Spring (PR#34-2025)
Steamboat Inn (PWS ID#92135)
Conditional Approval

Dear John Woody:

Thank you for your submittal to the Oregon Health Authority's Drinking Water Services (DWS) of plan review information for the new water storage, UV disinfection and groundwater source information for Steamboat Inn. On May 28th, the Oregon Healthy Authority Drinking Water Services was able to obtain the necessary site information in addition to drawing, product data, photos and a plan review fee of $825.

The project included the replacement of groundwater source infrastructure, waterlines, storage tanks that were destroyed with a 2020 wildfire in the water source tributary. As part of the replacement project, new UV disinfection was added. The project was installed without prior coordination and review by DWS. The installed work is located near the Steamboat Inn in the unincorporated community of Steamboat, Oregon.

The plans are approved subject to the following conditions:

Springs-

- The area within 100 feet of the spring groundwater collection point shall be owned by the water supplier, or a perpetual restrictive easement shall be obtained by the water supplier for all land (with the exception of public rights-of-way) within 100 feet of the well. The easement shall be recorded with the county in which the well is located and with the recorded deed to the property. A certified true copy shall be filed with the Authority. Refer to OAR 333-061-0050(2)(b)(A) and OAR 333-061-0050(2)(a)(B).

- Sanitary hazards are not allowed within 100 feet of a spring which serves a public water system unless waived by the Authority. Provide verification the landowner the spring is on is not applying chemicals (i.e., herbicides, pesticides and fertilizers) within a 100-foot radius of the spring groundwater collection device. Refer to OAR 333-061-0050(2)(b)(A) and OAR 333-061-0050(2)(a)(E).
- Springs shall be constructed in accordance with the general standards for the construction and maintenance of water wells in Oregon as prescribed in OAR chapter 690, divisions 200 through 220. Coordinate with the Oregon Water Resource Department (OWRD) on the construction of the groundwater source. Have the OWRD provide verification, approval and a groundwater source identification number for the spring groundwater source. Refer to OAR 333-061-0050(2)(b)(A) and OAR 333-061-0050(2)(a)(G)
- The area in the vicinity of a spring, particularly the area uphill or upstream, shall be surveyed by the water supplier to determine the location and nature of any existing or potential public health hazards (i.e., landslides, fallen trees, etc.). With the 2020 wildfire in the area, steep embankments and exposed soils which can lead to landslides. With the 2020 wildfire damage, many dead or dying trees were noted up gradient of the source location. Refer to OAR 333-061-0050(2)(b)(A) and OAR 333-061-0050(2)(a)(M).
- An intercepting ditch shall be provided above the spring to effectively divert surface water away from the ground water collection device location. Refer OAR 333-061-0050(2)(b)(A)(i).
- A fence shall be installed around the spring collection area unless other provisions are made to effectively prevent access by animals and unauthorized persons. Refer OAR 333-061-0050(2)(b)(A)(ii).
- The springbox shall be constructed of concrete or other impervious durable material and shall be installed so that surface water is excluded. During the May 28th, 2025 inspection of the springbox, plant roots were noted to be growing at the box's outlet screen. If roots can grow into the springbox, it is not considered to have the ability to exclude surface water. Refer OAR 333-061-0050(2)(b)(A)(iii)
- Reports on flow tests shall be provided to establish the yield of the spring. Refer to OAR 333-061-0050(2)(b)(B).

Facilities for disinfection and disinfectant residual maintenance-

- Sample taps shall be provided before and after the UV disinfectant application. Provide verification the UV disinfection have sample taps before and after the elective disinfection. Refer to OAR 333-061-0050(5)(f).

- The treatment unit must have an upstream valve or device that prevents flows from exceeding the manufacturer's maximum rated flow rate, a UV sensor that monitors light intensity through the water during operation, and a visual and audible alarm. Provide verification that flows through lamps are known and flow controls are present. Refer to OAR 333-061-0050(5)(k)(C).
- The lamps, lamp sleeves, housings and other equipment must be able to withstand the working pressures applied through the unit. Provide verification the pressure is known at the lamps and is within the manufacturer's specifications. Refer to OAR 333-061-0050(5)(k)(E).

Finished Water Storage-

- Ground-level reservoirs shall be constructed on undisturbed soil, bedrock or other stable foundation material capable of supporting the structure when full. Provide verification the foundation material is capable of supporting full tanks under all conditions. It was noted during the plan review site inspection that tank overflow discharge pipe flows onto the embankment just below the tank foundation material. Considering the steepness of the embankment, it is suggested to move the overflow discharge point as far away from the tanks as possible help avoid undermines tank foundation material. Refer to OAR 333-061-0050(6)(a)(B).
- If applicable, verify the storage tanks are appropriately sized to accommodate fire flows at the Inn and adjacent cabins. Refer to OAR 333-061-0050(6)(a)(H).
- Screened vents shall be provided above the highest water level to permit circulation of air above the water in finished water storage facilities. Per the May 28th, 2025 plan review inspection, the tank factory installed vents do not have screened vents in them. Retrofit existing vents with screens or install new screened vents. Refer to OAR 333-061-0050(6)(a)(L).
- A drain shall be provided at the lowest point in the bottom of the storage facility. Verify the two storage tanks be isolated from the source and distribution system locally drained. Refer to OAR 333-061-0050(6)(a)(M).
- Verify a silt stop is provided at the outlet pipe. Refer to OAR 333-061-0050(6)(a)(N).
- A fence or other method of vandal deterrence shall be provided around distribution reservoirs. Refer to OAR 333-061-0050(6)(a)(P).

A DWS Hydrogeologist has reviewed the groundwater source construction and has provided the following comments:

"*Springbox construction is currently unknown and roots were noted as growing in the box during the site visit. This suggest that the springbox may not be water tight. There, sensitivity analysis results suggest that the springbox is highly sensitive to contamination.*"

"*Aquifer nature is unknown. However, water emerging at the spring is likely to originate in the underlying basalt. The distance traveled, if at all, through the tallis/regolith that mantles the bedrock is unknown without further on-site examination or submission of construction plans indicating that the loose material present at the surface was removed to bedrock before placement of the collection pipe, backfill material and impermeable barrier. Sensitivity analysis results suggest that the aquifer is moderately sensitive to contamination.*"

The DWS Region Two Plan Review Coordinator has reviewed the water system's waiver request for the plan review documents to be generated by a licensed professional and granted a waiver from this requirement.

Until we receive verification that the conditions have been met and final approval has been issued, the project is not approved for use. 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 #34-2025 and can be emailed to me at zachariah.cunningham-golik@oha.oregon.gov.

If you have any questions, please feel free to call me at 541-231-9077.

Sincerely,

Zach Golik, PE
Regional Engineer
Drinking Water Services

CC: Kimberly Tanner, Douglas County Environmental Health