

September 4, 2025

Jason Owens – Jason.L.Owens@usace.army.mil

COE Lookout Pt. – PH/Dexter

211 E. 7th Ave., Suite 480

Eugene, OR 97401

**Re: Project Name (PR#2025-97)
New Residual Maintenance (PWS ID#95128)
Conditional Approval**

Sent by email only

Dear Jason Owens:

Thank you for your submittal to the Oregon Health Authority's Drinking Water Services (DWS) of plan review information for the new residual maintenance for COE Lookout Pt. – PH/Dexter. On July 31, 2025, our office received the plans and specifications and a plan review fee of \$248.

The project includes the installation of a chlorination system for residual maintenance. The disinfectant feed pump is a Pulsafeeder Pulsatron Series A Plus PVDF pump and chemical used is Hasa Multi-Chlor hypochlorite solution from a 50-gallon day tank.

The plans are approved subject to the following conditions:

1. Sample taps shall be provided before and after disinfection application (OAR 333-061-0050(5)(f)). The plans show sample taps after the disinfection injection point, but there was no sample tap labeled prior to disinfection (a raw sample tap).
2. Provisions shall be made to alert the water supplier before the chlorine supply is exhausted (OAR 333-061-0050(5)(e)). Please confirm how the system plans to monitor the chlorine levels in the 50-gallon day tank.
3. Testing equipment shall be provided to determine the chlorine residual (OAR 333-061-0050(5)(g)). Please confirm the equipment that will be used to monitor the chlorine residual.

4. Chlorinator piping shall be designed to prevent the contamination of the potable water system by backflow of untreated water or having excessive concentrations of chlorine (OAR 333-061-0050(5)(h)). When installing the piping, please confirm there is no by-pass piping or cross connection.

Until we receive verification that the conditions have been met and final approval has been issued, the new chlorination system 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 #2025-97 and can be emailed to me at rebecca.a.templin@oha.oregon.gov.

In addition to the above conditions, I have the following comments/recommendations:

- Recommend updating the operations and maintenance manual to include procedures for adjusting the chemical feed pump dosage, mixing the chlorine in the day tank, how to measure the chlorine levels, etc.
- Addition of residual maintenance to a water system requires the system to monitor the chlorine residual in the distribution system at least twice per week. The residual should be recorded, with the records made available to the Lane County Environmental Health Department during their inspections.
- Under the Ground Water Rule, an annual raw source sample from the source must be taken and analyzed for coliform bacteria once per year. This sample must be taken from the raw water sample tap at the wellhead. The samples should be marked "assessment" under the source section of coliform reporting form.

If you have any questions, please feel free to email me at rebecca.a.templin@oha.oregon.gov or call me at (541) 650-4868.

Sincerely,



Rebecca Templin, PE
Regional Engineer
Drinking Water Services

ec: File, DWS
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