

March 31, 2025

Craig Storm
Coos County Parks - Laverne
250 N. Baxter
Coquille, OR 97423

**Re: New Water Treatment Plant (PR#2025-8)
Coos County Parks - Laverne (PWS ID#94557)
Conditional Approval**

Dear Craig Storm:

Thank you for your submittal to the Oregon Health Authority's Drinking Water Services (DWS) of plan review information for the new water treatment plant for Coos County Park - Laverne. On February 18, 2025, our office received a cover letter and construction plans along with a plan review fee of \$825.

The project includes installation of a Harmsco HC/90-LT2 cartridge filter with a Hurricane MUNI 90 MP housing. This cartridge filter will grant the water system 2.5-log removal credit for Giardia and a 2.0-log removal credit for cryptosporidium. The allowable flow rate to meet this log removal credit is no more than 65 gpm. The cartridge filter replacement needs to occur if the pressure differential reaches 30 psi.

There is also a pre-filter membrane unit but no additional log removal credit is granted for this. The system is also installing a chlorine feed pump (a Blue-White A-100NV) for disinfection.

The plans are approved subject to the following conditions:

- OAR 333-061-0050 (4)(c)(C) requires a pilot study must be conducted when using cartridge filtration. The pilot study is required to identify any operational issues such as plugging of the prefilters. Pilot study protocol must be approved in advance. Parameters include (but are not limited to) raw turbidity, filtered turbidity and amount of filtration time for filter to reach maximum pressure drop of 30 psi.

After the pilot study protocol is approved and prior to final approval of this project, results of a completed small scale, filter-to-waste pilot study must be submitted. If the system chooses, a full-scale study during the initial operation period may be approved as an alternative to the small scale, filter-to-waste study.

- OAR 333-061-0050 (5)(i) requires the disinfectant be applied proportional to water flow. Please confirm this is the case.
- OAR 333-061-0050 (5)(e) requires provisions be made to alert the water supplier before the chlorine supply is exhausted. If the plan is to periodically check, please confirm and add to SOPs.

Until we receive verification that the conditions have been met and final approval has been issued, the new water treatment plant 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 #2025-8 and can be emailed to me at rebecca.a.templin@oha.oregon.gov.

In addition to the conditions above, I have the following recommendation/comment:

- DWS recommends adding information to the O & M manual about maintenance for the new cartridge filters and chlorination equipment (e.g., the cartridge filters are changed per manufacturer's recommendation, ordering replacements, monitoring pressures and flow, etc.).
- If the chlorination location has changed or piping layout after the chlorination point is adjusted, please confirm the tracer study is still valid. If a new one is required, please let me know and we can discuss requirements for the tracer study.

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

cc: Kent Downs, OHA/DWS, kent.o.downs@oha.oregon.gov
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