

Tina Kotek, Governo

June 11, 2025

Craig Storm – [cstorm@co.coos.or.us](mailto:cstorm@co.coos.or.us)  
Coos County Parks – West Laverne  
250 N. Baxter  
Coquille, OR 97423

**Re: New Cartridge Filter (PR#2025-66)**  
**Coos County Parks – West Laverne (PWS ID#94558)**  
**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 cartridge filter for Coos County Parks – West Laverne. On May 22, 2025, our office received the plans, specifications and LUCS form and 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 of 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 (Blue White A1N-100) for disinfection.

The plans are approved subject to the following condition:

- 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.

**Until we receive verification that the conditions have been met and final approval has been issued, the new cartridge filter 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 #2025-66 and can be emailed to me at [rebecca.a.templin@oha.oregon.gov](mailto:rebecca.a.templin@oha.oregon.gov).

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

- DWS recommends adding information to the Operations and Maintenance manual about maintenance for the new cartridge filter and chlorination equipment (e.g., the cartridge filters are changed per manufacturer's recommendations, ordering replacements, monitoring chlorine levels, 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 tracer study is required, please let me or Kent Downs (your DWS regulator) 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](mailto:rebecca.a.templin@oha.oregon.gov) or call me at (541) 650-4868.

Sincerely,



Rebecca Templin, PE  
Regional Engineer  
Drinking Water Services

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