

May 7, 2025

Nancy and Jeff Johnston
Alsea River RV Park
3911 E. Alsea Hwy
Waldport, OR 97394

**Re: Cartridge Filtration (PR# 2023-159)
Alsea River RV Park (PWS ID#92043)
Conditional Approval**

Dear Nancy and Jeff:

Thank you for your submittal to the Oregon Health Authority's Drinking Water Services (DWS) of plan review information for the new cartridge filtration for Alsea River RV Park. Our office received a plan review fee of \$825 on December 8, 2023, and engineered plans were submitted by Boeger & Associates, LLC on April 30, 2025.

The project includes installation of a Harmsco HC/90-LT2 cartridge filter with the Harmsco Hurricane MUNI-90MP housing. The maximum flow through this cartridge filter is 65 gpm, and the maximum allowed pressure differential is 30 psi. If operated within these limits the Harmsco HC/90-LT2 filter is credited with 2.5-log removal of *Giardia* and 2.0-log removal of *Cryptosporidium*.

The plans are approved subject to the following conditions:

1. Pressure gauges must be installed before and after the cartridge filter.
2. The filter must be changed according to the manufacturer's recommended pressure differential. Ensure that the filter is accessible for cleaning and replacement.
3. A pilot study shall be conducted by the water supplier to demonstrate the effectiveness of any filtration method other than conventional filtration. Pilot study protocol shall be approved in advance by the Authority. Results of the pilot study shall be submitted to the Authority for review and approval. In lieu of a pilot study, the new Harmsco cartridge filter can show compliance with the Surface Water Treatment

Rule for 12 consecutive months from the date of installation prior to being granted final approval by DWS.

4. Piping that bypasses required treatment facilities must have a physical gap between pipes that carry treated and untreated water. The ball valve shown in the plans does not provide adequate protection for untreated water bypassing the filter. Approved physical separations of bypasses include a removed spool, blind flanges with slotted pipe, or other “air gap” provisions.

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

1. Add the procedures for changing the cartridge filter and filling in the monthly surface water treatment report to the operations and maintenance manual.

Until we receive verification that the conditions have been met and final approval has been issued, the 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 #2023-159 and can be emailed to me at baxter.call@oha.oregon.gov.

If you have any questions, please feel free to email me or call me at 541-393-4374.

Sincerely,



Baxter Call, PE
Regional Engineer
Drinking Water Services

CC: Julie Wray, DWS
Dennis J Boeger, PE, Boeger & Associates, LLC