

November 7, 2011

Carl Anderson
15321 NE North Valley Rd
Newberg, OR 97132

**Re: Tikikum Retreat Center – Water System Improvements
(PR #184-2011; PWS #91967)
Conditional Approval**

The Oregon Drinking Water Program (DWP) has received construction plans and specifications for the referenced project. The information was submitted on your behalf by Bradley J. Crement, P.E. of HBH Consulting Engineers on November 1 2011, with revisions submitted on November 2, 2011. Also received was the required \$150 plan review fee and Land Use Compatibility Statement.

We note that the project consists of replacement of the existing water treatment system with a new slow-sand-filter water system. The proposed slow-sand-filter system includes the installation of a pressure tank from the existing raw water intake pump, an upflow roughing filter, two new sand filters (SSF-6; Blue Future Filters, Inc), two disinfection contact tanks, and two storage tanks. The specifications indicate that all materials in contact with potable water will meet NSF Standard 61, all chemicals used in water treatment will meet NSF Standard 60, and that following construction the system, the system will be disinfected per AWWA Standard C651.

The project is approved for construction provided the following condition is met:

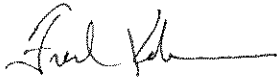
Following construction, a tracer study is required to determine the disinfection contact time achieved by the contact chambers under peak flow conditions. The procedure for the tracer study must be submitted for DWP review and approval prior to conducting the study.

In addition, DWP strongly recommends including an additional control tank to allow independent operational control of each of the sand filters.

Final plan review approval will be granted upon completion of the project, certification by the engineer-of-record that the project was completed according to the submitted plans and specifications, and that the condition in this letter has been addressed.

If you have any questions, please contact me at 971.673.0406, or via email at fred.n.kalish@state.or.us.

Sincerely,



Fred Kalish, P.E.
Regional Engineer
Drinking Water Program

Cc: Marsha Fox, DWP Portland
Brad Daniels, DWP Portland
Gary Van Der Veen, Yamhill County
Brad Crement, P.E., HBH Consulting Engineers (*via email*)