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<http://healthoregon.org/dwp>

September 9, 2016

David Jacob, P.E.
Hydra Engineering
P.O. Box 327
Rhododendron, OR 97049

**Re: Water System Improvements, Plan Review # 206-2015
Columbia Hills Homeowners Association, PWS ID #41 06118
Request for Additional Information**

Dear Mr. Jacob:

Thank you for your submittal of plan review information for the proposed water system improvements to the Columbia Hills Homeowners Association to the Oregon Health Authority's Drinking Water Services (DWS). On December 31, 2015, our office received a narrative of the project, a proposed system map, plans for the new reservoir site, a plan for the new spring, and approximate locations of the spring and two new wells. A plan review fee of \$750 was also received.

The project consists of two additional wells and a spring, a new reservoir site with five 5,000 gallon plastic water tanks, additional booster pumping capacity, and new transmission and distribution piping. The improvements will combine the water system with the separate water system nearby, Columbia Hills HOA Upper, PWS ID # 06211.

At this time, DWS does not have enough information to review the project. Please provide the following information to begin the review:

- A Columbia County-approved land use compatibility statement (LUCS) for the wells, spring and new reservoir, see template attached. Alternatively, if the new sources or storage will not trigger a new LUCS by the local land use regulatory agency, submit a copy of the existing LUCS for the water system;
- An Oregon Water Resources Department water rights permit, if the wells or spring will have a use of greater than 15,000 gallons per day;
- A site plan with the exact location for both wells and the spring, showing the ownership, and location and distance to any nearby potential contaminant sources, such as septic tanks and drainfields, or surface water bodies, within a 100-foot radius around each source;
- Construction specifications for each well, including the casing and borehole

diameter, depth of well, depth and amount of sealant to be used in the annular seal outside of the well casing and inside the borehole;

- Specifications for the 5,000 gallon plastic water storage reservoirs, including make and model, any National Sanitation Foundation Standard 61 certification, the presence of a screened vent, screened overflow, water level measuring ability, and hatch detail;
- Any plans and specifications for the new booster pump stations; and
- Plans and specifications, such as depth to top of water line, and piping material, for the transmission and distribution piping.

Supplemental plan review materials can be e-mailed to me at james.b.nusrala@state.or.us or mailed to:

Attn: James Nusrala
OHA- Drinking Water Services
800 N.E. Oregon Street, Suite 640
Portland, OR 97232-2162

If you have any questions, please feel free to e-mail me at james.b.nusrala@state.or.us or call me at (971) 673-0459. I have attached DWS' plan review packets for new wells and reservoirs. Your cooperation is appreciated.

Sincerely,

James Nusrala, PE
Regional Engineer

Drinking Water Services

Enclosures: New well and reservoir plan review packets, template land use compatibility statement

cc:

Mike Stone, Operator; Columbia Hills HOA Upper; 50606 Crystal Ridge Drive;
Scappoose, OR 97056

Joel Ferguson, REHS, Columbia County Public Health