

24 September 2015

COPY

Todd Thompson
Shangri-La Water Board
88143 Tiki Lane
Springfield, OR 97477

**RE: Self-Declaration of GWUDI Status
Shangri La Water District (PWS OR4100835)**

Dear Mr. Thompson:

Oregon Health Authority Drinking Water Services (DWS) received an email, via Lane County, from you as representative of the Shangri La Water District (Shangri La) stating Shangri La self-declares as Ground Water Under the Direct Influence of surface water (GWUDI). The email also states Shangri La intends to provide filtration and disinfection treatment, which is required by Oregon Administrative Rule (OAR) 333-61-0032 for water systems determined as GWUDI.

Even though Shangri La has elected to self-declare and provide surface water treatment, its alternatives are reiterated here:

1. Provide filtration and disinfection treatment as required by OAR 333-61-0032.
2. Develop a new source outside the distance-hydrogeologic setting criteria, as outlined in OAR 333-61-0032 (8)(a)(A)(i-v). Wells located outside the distance criteria are typically classified as groundwater.
3. Demonstrate that the water produced from Well #1 (LANE911/SRC-AA) can meet the criteria for exemption from filtration as outlined in OAR 333-61-032 (2) and (3). Meeting the filtration exemption criteria involves continually meeting the source water standards for total and fecal coliform, turbidity, 3-log inactivation of giardia and 4-log inactivation of viruses, 2-log removal of cryptosporidium, and a watershed control program or a certified drinking water protection plan (see OAR 340-040-0160 to 340-040-00180) that addresses both the groundwater and surface water (see OAR 333-61-032 (2)(c)(B)).

4. Suspend the use of Well #1 (LANE911/SRC-AA) and purchase water from a nearby approved system.

Given that Shangri La has chosen option 1 above, it has 18 months from the date of this letter to meet the requirements stated in OAR 333-061-0032(1) to (5). The necessary water system modifications must be operational by 24 March 2017. If these requirements are not met by that date, Shangri La may be subject to formal enforcement.

Prior to implementation of treatment, plans shall be submitted to DWS (see <http://public.health.oregon.gov/HealthyEnvironments/DrinkingWater/PlanReview/Pages/index.aspx>). The plans submitted to DWS must be prepared by an Oregon registered Professional Engineer.

Interim Operation Plan: Water system sources determined as GWUDI that have 18 months to meet the requirements of the Surface Water Treatment Rule (SWTR) must also meet the following Interim Standards (see OAR 333-061-0032 (1)(c)):

1. The turbidity of water entering the distribution system must never exceed 5 NTU. Turbidity measurements must be taken a minimum of once per day. If continuous turbidimeters are in place, measurements should be recorded every four hours water that is produced from the source(s).
2. Disinfection must be sufficient to reliably achieve at least 1.0 log inactivation of *Giardia lamblia* cysts prior to the first user. Disinfection "CT" values must be calculated and recorded daily, which requires pH, temperature, and disinfection residual measurements at the entry point or first customer. I have attached a copy of a report form, which also available electronically at:

<http://public.health.oregon.gov/HealthyEnvironments/DrinkingWater/Monitoring/Documents/turb-alt-unfiltered.xls>

Reports must be submitted to DWS monthly as prescribed in OAR 333-061-0040.

Please send reports to:

Drinking Water Services
PO Box 14350
Portland, OR 97293-0350

*Self-Declaration of GWUDI Status
Shangri La Water District (PWS OR4100835)*

24 September 2015

Or email reports to dwp.dmce@state.or.us which results in a confirmation email from DWS that the message was received. This confirmation email is evidence of when reports are submitted.

If the interim standards (turbidity and CT monitoring and reporting) are not met, the owner or operator of the water system must notify customers of the failure as required in OAR 333-061-0042(2)(b)(A).

If you have any questions regarding the GWUDI determination, please contact Russ Kazmierczak at (541) 726-2587 ext. 26 or email at russell.a.kazmierczak@state.or.us. For questions regarding compliance with the SWTR, compliance with the interim operational measures, or the plan review process please contact me at (541) 726-2587 ext. 57 or via email at james.r.macpherson@state.or.us.

Sincerely,



James "Jay" MacPherson, Ph.D., P.E.
Region 2 Plan Review Coordinator
OHA Drinking Water Services

cc: File, DWS Portland
Russ Kazmierczak, DWS Springfield

