



PUBLIC HEALTH DIVISION
Drinking Water Services

Kate Brown, Governor

Oregon
Health
Authority

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February 19, 2016

Rob Henry, PE
HBH Consulting Engineers
2316 Portland Road
Suite H
Newberg, OR 97132

Re: **Air Stripping Tower Project (PR#179-2015)**
Manzanita Water Department (PWS ID#00505)
Wheeler Water System (PWS ID#00952)
Conditional Approval

Dear Rob:

Thank you for your submittal to the Oregon Health Authority's Drinking Water Services (DWS) of plan review information for the air stripping tower project for Manzanita Water Department and Wheeler Water System. On December 3, 2015, our office received a set of plans and specifications, pilot study results and a plan review fee of \$150. A signed land use compatibility statement was received December 28, 2015.

The project includes installation of an air stripping tower, booster pumps and replacement pumps for the existing wells.

The plans are approved with the following condition:

- All items in contact with potable water must meet NSF Standard 61 or equivalent.

Lead and copper sampling will change for both systems as detailed below.

Lead and Copper Sampling: Two round of lead and copper sampling will need to be taken 6 months apart. For Wheeler, samples must be taken from 10 Tier 1 sample sites (based on a population of 360). For Manzanita, samples must be taken from 20 Tier 1 sample sites (based on a population of 3,200. Please note that if the population has increased to at least 3,301, then 40 Tier 1 samples sites are required.) The first round shall be taken within 6 months of placing the air stripping tower into service and the second round shall be taken 6 months after the 1st round. One of the rounds should be taken between June 1st and September 30th, 2016.

Note that the two 6-month sampling periods are from January 1st to June 30th and from July 1st to December 30th. Results of these two rounds of sampling will be used to determine future sampling requirements. If insufficient Tier 1 sites are available, please contact Gregg Baird at (971) 673-0410 for assistance in choosing appropriate sample sites.

Distribution and entry point sampling for water quality parameters must be taken during this sampling as detailed below.

pH sampling: For Wheeler, pH (corrected for temperature) must be sampled at 1 site in the distribution system with 2 rounds of samples taken at the time of each of the two 6-month lead and copper sampling events. Sampling may done at a coliform sampling site. Similarly, Manzanita must sample pH at 2 sites in the distribution system with 2 rounds of samples taken at the time of each of the two 6-month lead and copper sampling events. If Manzanita's population has reached at least 3,301 then samples must be taken at 3 sites. Entry point pH sampling must be taken at each active entry point for Wheeler and Manzanita during each 6-month round.

Until we receive verification that the condition has been met and final approval has been issued, the facility 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 #179-2015 and can be emailed to me at Carrie.L.Gentry@state.or.us or mailed to:

Attn: Carrie Gentry
OHA-Oregon Drinking Water Services
PO Box 14450
Portland, OR 97293-0450

If you have any questions, please feel free to call me at (971) 673-0191.

Sincerely,



Carrie Gentry, PE
Regional Engineer
Drinking Water Services

cc: Gregg Baird, OHA/DWS
Annette Pampush, Tillamook County Health Department
Daniel Weitzel, Wheeler Water System and Manzanita Water Department