



January 26, 2021

James Robinson
Manzanita Hills Subdivision
PO Box 157
Shady Cove, OR 97539

**Re: Arsenic Treatment (PR#4-2021)
Manzanita Hills Subdivision (PWS ID#06155)
Conditional Approval**

Dear James Robinson:

Thank you for your submittal to the Oregon Health Authority's Drinking Water Services (DWS) of plan review information for the arsenic treatment for Manzanita Hills Subdivision. On January 6, 2021, DWS received the necessary plans, specifications and a plan review fee of \$248.

The project includes the installation of a new centralized arsenic oxidation and filtration system at the Manzanita Hills Subdivision Water System. The new arsenic treatment system will replace the existing arsenic treatment system.

The plans are approved with the following conditions:

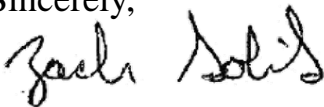
- Per OAR 333-061-0050(10), ensure new and existing water facilities impacted by the new arsenic treatment system are disinfected prior to being put into use.
- Per OAR 333-061-0050(4), please provide detailed calculations showing that the new arsenic treatment system has the capacity to accommodate the peak daily flow demand of the water system. Consideration should be given to times when the water system's four 2500-gallon storage tanks are at a minimum volume or the volume is nonexistent.
- Per OAR 333-061-0050, piping at the arsenic treatment unit shall be built such that untreated water cannot bypass the arsenic treatment unit. Disconnect/remove (pipe

- break) any piping that allows for the arsenic treatment system to be bypassed.
- Per OAR 333-061-0065, provide evidence the water system has an updated operations and maintenance manual in association with the new arsenic treatment system. The updated manual should reflect the required maintenance for the arsenic treatment system, such as the schedule to replace media, chemical dosage/rate guidelines, pH criteria and filter backwash procedures.
 - Per OAR 333-061-0036(10)(d)(B)(ii), the water system must monitor for potential lead and copper water concentration changes during two consecutive 6-month periods no later than 12 months after the deadline for installing treatment in association with the replaced centralized arsenic treatment and its potential water system chemistry change.

Until we receive verification that the conditions have been met and final approval has been issued, the arsenic treatment 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 #4-2021 and can be emailed to me at ZACHARIAH.CUNNINGHAM-GOLIK@dhsosha.state.or.us.

If you have any questions, please feel free to email me call me at 541-913-3683.

Sincerely,



Zach Golik, PE
Regional Engineer
Drinking Water Services

cc: Julie Wray, DWS Portland
Susan Baker, Jackson County Health Department