



PUBLIC HEALTH DIVISION  
Drinking Water Services

Kate Brown, Governor

Oregon  
**Health**  
Authority

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April 6, 2022

Ray Moore, P.E.  
All County Surveyors & Planners, Inc.  
P.O. Box 955  
Sandy, OR 97055

**Re: Dugan Estates Phase 1 & 2 (PR#23-2022)  
City of Estacada (PWS ID#00279)  
Conditional Approval**

Dear Ray:

Thank you for your submittal to the Oregon Health Authority's Drinking Water Services (DWS) of plan review information for Dugan Estates Phase 1 & 2 for the City of Estacada. On February 18, 2022, our office received a set of drawings, a land use compatibility statement, and a plan review fee of \$3,300.

The project includes installation of 8" PVC C900 water lines in a proposed 99 lot subdivision at Dugan Estates.

**The plans are approved with the following conditions:**

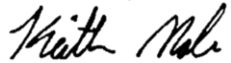
- Air-relief valves, if needed, must be installed at high points where air can accumulate. The breather tube on air-relief valves must be extended above ground surface and provided with a screened, downward facing elbow.
- The distance between tracer wire lead access locations must not be more than 1,000 feet.
- After disinfection of the waterlines is completed according to AWWA C651, results from the coliform sampling must be provided to OHA/DWS.

**Until we receive verification that the conditions have been met and final approval has been issued, Dugan Estates Phase 1 & 2 is not approved for use.** For waterline projects, note that engineers must inspect/be prepared to sign off before burying lines. 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 #23-2022 and can be emailed to me at [keith.male@dhsosha.state.or.us](mailto:keith.male@dhsosha.state.or.us).

If you have any questions, please feel free to call me at (503) 939-1322.

Sincerely,



Keith Male, EIT  
Regional Engineer  
Drinking Water Services

ec: Julie Wray, DWS  
Carrie Gentry, PE, OHA/DWS  
Don DeRosia, Public Works Director, City of Estacada