



April 24, 2024

Sean Petitmermet  
City of Lakeview  
525 N. 1<sup>st</sup> Street  
Lakeview, OR 97630

**Re: Wells (PR#49-2024)  
City of Lakeview (PWS ID#00464)  
Conditional Approval**

Dear Sean Petitmermet:

Thank you for your submittal to the Oregon Health Authority's Drinking Water Services (DWS) of plan review information for the new and existing groundwater well work for City of Lakeview. On April 19<sup>th</sup>, 2024, DWS received drawings, construction specifications and a plan review fee of \$3,300.

The project includes the rehabilitation of the City of Lakeview's existing groundwater wells, "Well #2" and "Well #6" as well as the construction of a new groundwater well, "Well #10". The rehabilitation will take place at existing locations of the listed wells. The new "Well #10" will be constructed near the northwest side of the City on property owned by the City. All work will be in the vicinity of Lakeview, Oregon.

The project shall adhere to all applicable DWS Oregon Administrative Rules (OAR). The submitted plan review material has been reviewed and the following items were noted as specific conditions of final approval:

*Sampling and Analytical Requirements-*

- Per OAR 333-061-0036, new and rehabilitated groundwater well sources shall be sampled in accordance with the applicable subsection (1) through (11) of this rule prior to being put into active use for human consumption.

*General-*

- Per OAR 333-061-0050(1), only materials designed for potable water service and meeting NSF Standard 61: Drinking Water System Components - Health Effects or equivalent shall be used in those elements of the water system which are in contact with potable water.

*Wells-*

- Per OAR 333-061-0050(2)(a), the newly constructed “Well #10” shall meet all the applicable requirements of subsection (A) through (N) of this rule. The water system shall submit as-built information (i.e., drawings, photos, testing, product data, etc.) demonstrating the applicable construction standards are met.
- If the scope of the rehabilitation work for “Well #2” and “Well #6” involves coordination with the Oregon Water Resource Department (OWRD) and stipulates modifications to existing OWRD well logs, provide updated OWRD well logs.

*Pumping facilities-*

- Per OAR 333-061-0050(7), new and rehabilitated well pumps shall meet the applicable portions of subsection (a) through (e) of this rule.

*Distribution systems-*

- Per OAR 333-061-0050(8), new or modified portions of the distribution associated with any rehabilitated or new well work shall meet the applicable portions of subsection (a) through (l) of this rule.

*Disinfection of facilities-*

- Per OAR 333-061-0050(10), following construction or installation of new facilities and repairs to existing facilities, those portions of the facilities which will be in contact with water delivered to users must be cleaned and flushed with potable water and disinfected according to AWWA Standards C651 through C654 before they are placed into service.

A DWS Hydrogeologist has reviewed the new well’s construction (Well #10) and made the following comments for reference:

*“Water system is proposing to rehabilitate Wells #2 and #6 and construct a new Well #10. Well construction reviews for Wells #2 and #6 are not required for rehabilitation projects unless the well driller is planning on deepening the wells or modifying the casing seals.”*

*“Well #10 Proposed Well Construction Evaluation:*

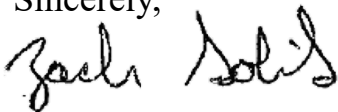
*The area around proposed well #10 is surficially mapped as Quaternary surficial alluvial deposits (Qal/Qs). The proposed well construction plan indicates that the well will be drilled to an estimated depth of 400 ft bgs and the continuous seal will extend to a depth*

*of 200 ft bgs. Based on the material described in the well log for Lake 52105/L94386, the proposed construction should meet Oregon Water Resources Departments (OWRD) minimum well construction for the Sealing of Water Wells in Unconsolidated Formations Without Significant Clay Beds (see OAR 690-210-0130). If the well driller encounters a significant interbed of clay, the casing and seal should extend at least five feet into the clay interval overlying the water-bearing zone (see OAR 690-210-0140). Drinking Water Services recommends that the well driller consult with Oregon Water Resources (OWRD) on the seal depth prior to drilling the new well and seal placement. Please note that seal method E is not allowed for use in a municipal, community, or public water supply wells (see OAR 690-210-0320, Recommended Methods of Placement of Cement Grout, Appendix E).”*

**Until we receive verification that the conditions have been met and final approval has been issued, the rehabilitated and newly constructed well is not approved for use.** Documentation demonstrating how the above conditions were met should reference Plan Review #49-2024 and can be emailed to me at

If you have any questions, please feel free to call me at 541-231-9077.

Sincerely,



Zach Golik, PE  
Regional Engineer  
Drinking Water Services

CC: Julie Wray, DWS Portland  
Russ Kazmierczak, DWS Springfield  
Tommy Laird, OWRD