

9 September 2021

John Yost  
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<http://healthoregon.org/dwp>

**RE: Well #1 (PR 2021-74)**  
**Silver Springs RV Park (OR4105749)**  
***Conditional Approval***

Dear Mr. Yost:

Thank you for submitting materials for plan review on a new well (well #1; L110222) at Silver Springs RV Park north of Port Orford, Oregon. Oregon Health Authority, Drinking Water Services (DWS) received site location maps, well log, and photos May 11<sup>th</sup> and 14<sup>th</sup> 2021 and a plan review fee of \$825. DWS grants the well conditional approval.

The plans are approved with the following conditions:

1. Based on the information provided, it appears one or more gravity drain sewer lines are within 50 feet of the well, which does not meet the setback and requires an approved waiver from construction standards to obtain "final approval" (Oregon Administrative Rule (OAR) 333-061-0050(2)(a)(E) "*No gravity sewer line or septic tank shall be permitted within 50 feet of a well which serves a public water system.*"). A waiver application can be obtained at <https://www.oregon.gov/oha/PH/HEALTHYENVIRONMENTS/DRINKINGWATER/PLANREVIEW/Documents/WAIVER.doc>. The application needs to provide a written rationale as to:
  - a. Why not meeting the construction standard is highly burdensome or impractical; and
  - b. The proposed alternate measure(s) that provide adequate protection to public health and safety.

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2. While there is a hose bib located before the first user, the fixture is restrictive to flow from the well pump. A discharge to waste is needed that does not restrict flow from the well pump (OAR 333-061-0050(2)(a)(K)(vi) *"Piping arrangements shall include provisions for pumping the total flow from the well to waste"*).
3. A means to measure flow is provided (e.g. a flow meter; OAR 333-061-0050(2)(a)(K)(vii) *"A method of determining the total output of each well shall be provided"*).
4. The well casing is extended to at least 12" above grade (OAR 333-061-0050(2)(a)(K)(x) *"The top of the well casing shall extend at least 12 inches above the concrete slab"*).

A DWS regional geologist reviewed the proposed well construction and noted the following:

*The well was drilled to a depth of 61 feet in December 2013. A 6-inch protective casing extends to a depth of 4 feet. A 5-inch SDR-26 plastic casing extends to a depth of 55.33 feet. Note: the annulus between casings is only 1 inch and does not meet current written standards as per OAR 690-210-0210 (4) (a) by use of an upper protective steel casing meeting the requirements of OAR 690-210-0190. The protective steel casing shall be a minimum of 2 inches larger in diameter than the PVC casing and shall overlap the PVC casing. The driller has been allowed to construct wells in this manner with a special standard as of 2020. Therefore, that special standard applies to previously constructed wells by that same driller, Oregon Water Resources Department was consulted 25 May 2021. The plastic casing is screened from 55.33 to 60.33 feet in depth. A filter pack consisting of 10/20 sand is present from 32-61 feet in depth. A bentonite casing seal was poured from the surface to a depth of 32 feet utilizing 22 sacks of bentonite and 18.67 were calculated as required. The well is considered to meet standards in terms of casing depth, casing seal depth, and sealant volume. The well does not appear to meet setbacks to RV septic/sewer.*

*Triggered monitoring shall apply on the basis the source remains untreated, if residual maintenance disinfection is applied the monthly assessment monitoring shall be required.*

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*The well appears to produce from terrace deposits from the Quaternary Period consisting of sand and gravel. The aquifer is considered unconfined <100 feet deep with no significant clay layers, and therefore highly sensitive.*

Documentation demonstrating how the above conditions were met should reference "Plan Review #2021-74" and may be emailed to me at [james.r.macpherson@dhsosha.state.or.us](mailto:james.r.macpherson@dhsosha.state.or.us) or mailed to:

Attn: Jay MacPherson  
OHA-Oregon Drinking Water Services  
444 A Street  
Springfield OR 97477

If you have questions, please contact me at (541) 231-0762 or via email at the above address.

Sincerely,



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

ec: Plan Review, DWS Portland  
Kent Downs, DWS  
Scott Ceciliani, OWRD (OWRD.District14@oregon.gov)