Groundwater Transfer Review Summary Form

Transfer/PA # T- _14239_

GW Reviewer _Gabriela Ferreira_ Date Review Completed: _December 19, 2023_

Summary of Same Source Review:

☐ The proposed change in point of appropriation is not within the same aquifer as per OAR 690-380-2110(2).

Summary of Injury Review:

☐ The proposed transfer will result in another, existing water right not receiving previously available water to which it is legally entitled or result in significant interference with a surface water source as per 690-380-0100(3).

Summary of GW-SW Transfer Similarity Review:

☐ The proposed SW-GW transfer doesn't meet the definition of "similarly" as per OAR 690-380-2130.

This is only a summary. Documentation is attached and should be read thoroughly to understand the basis for determinations.

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Ground Water Review Form:

☐ **Water Right Transfer**
☐ **Permit Amendment**
☒ **GR Modification**
☐ **Other**

Application: T-14239 Applicant Name: Westwood Farms, Inc

Proposed Changes: ☒ POA ☒ APOA ☐ SW→GW ☐ RA
☐ USE ☐ POU ☐ OTHER

Reviewer(s): Gabriela Ferreira Date of Review: December 19, 2023

Date Reviewed by GW Mgr. and Returned to WRSD: _____

The information provided in the application is insufficient to evaluate whether the proposed transfer may be approved because:

☐ The water well reports provided with the application do not correspond to the water rights affected by the transfer.

☐ The application does not include water well reports or a description of the well construction details sufficient to establish the ground water body developed or proposed to be developed.

☐ Other _____

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1. Basic description of the changes proposed in this transfer: The proposed transfer modifies POAs authorized under GR Claim 2814. GR Claim 2814 has a priority date of March 31, 1950 for irrigation of 48.0 acres by the currently authorized POA (Well 1, MARI 4850) and maximum rate of 0.668 cfs (300 gpm). GR Claim 2814 was modified by T-12494 (final order dated August 28, 2018) to add one additional POA (Well 2; not yet constructed).

   The proposed transfer would add one additional POA (Pump Well, MARI 4848) and move the authorized location of Well 2. APOA MARI 4848 is also an authorized POA on GR Claim 533 with a priority date of May 31, 1954 and maximum rate of 0.0668 cfs.

2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
   ☒ Yes ☐ No Comments: Depth to bedrock (Columbia River Basalt) near the POAs is approximately 600 to 650 feet below land surface (bls). The currently authorized POA, MARI 4850 is completed to a depth of 44 feet bls. Proposed APOA MARI 4848 is completed to a depth of 40 feet bls. The proposed construction for Well 2 would be to a total depth of 110 feet bls and is not changed by the proposed new location. The authorized POAs, MARI 4850 and Well 2, obtain groundwater from the alluvial aquifer system, more specifically the Willamette aquifer or water-bearing zones within the upper Willamette confining unit which are considered to be part of a single alluvial aquifer system within this area of the Willamette Basin (Gannett and Caldwell, 1998). The proposed APOA MARI 4848 would similarly develop the Willamette aquifer,

3. a) Is there more than one source developed under the right (e.g., basalt and alluvium)?
☐ Yes ☒ No _____

b) If yes, estimate the portion of the right supplied by each of the sources and describe any limitations that will need to be placed on the proposed change (rate, duty, etc.): _____

4. a) Will this proposed change, at its maximum allowed rate of use, likely result in an increase in interference with **another ground water right**?
☐ Yes ☒ No Comments: Several wells were identified near the proposed POAs that could be affected by the proposed change, including MARI 4801, MARI 4851, and MARI 4799, which are all completed to depths less than 50 feet bls. The currently authorized POAs, MARI 4850 and proposed APOA MARI 4848 are completed to depths of 44 and 40 feet bls respectively. The proposed POA Well 2 would be completed to a depth of 110 feet bls. Therefore, the POAs and nearby wells that will likely be affected by the proposed use do not fully penetrate the sedimentary aquifer in this area, which the USGS estimates at ~600-650 feet thick (Gannett and Caldwell, 1998). Consequently, injury due to the proposed change would not be found because the potentially-affected well(s) do not fully penetrate the shared aquifer (OAR 690-008-0001(8)(c)).

b) If yes, would this proposed change, at its maximum allowed rate of use, likely result in another groundwater right not receiving the water to which it is legally entitled?
☐ Yes ☐ No If yes, explain: N/A

5. a) Will this proposed change, at its maximum allowed rate of use, likely result in an increase in interference with **another surface water source**?
☐ Yes ☒ No Comments: The currently authorized POA MARI 4850 is approximately 8,000 ft from the nearest perennial surface water source (Willamette River). The proposed modification to the location of Well 2 is approximately 250 feet east of the currently authorized location; proposed APOA MARI 4848 is approximately 650 feet southeast of authorized POA MARI 4850. The shallow wells (MARI 4848 and MARI 4850) are constructed within Holocene gravel deposits from the Willamette River floodplain. In general, these deposits have a saturated thickness of 20-40 feet and the water level is closely tied to stream stage in the Willamette River (Conlon et al., 2005). The relatively small changes in distance between authorized POAs and proposed POA locations to the nearest perennial surface water source, at the maximum rate authorized (300 gpm), is unlikely to result in an increase in interference with nearby surface water sources.

b) If yes, at its maximum allowed rate of use, what is the expected change in degree of interference with any **surface water sources** resulting from the proposed change?
Stream: _____ ☐ Minimal ☐ Significant
Stream: _____ ☐ Minimal ☐ Significant
Provide context for minimal/significant impact: N/A

6. For SW-GW transfers, will the proposed change in point of diversion affect the surface water source similarly (as per OAR 690-380-2130) to the authorized point of diversion specified in the water use subject to transfer?
☐ Yes ☐ No Comments: N/A

7. What conditions or other changes in the application are necessary to address any potential issues identified above: _____

8. Any additional comments:None

References

Application file: T-14239, and related files GR Claim 2814 and T-12494

Conlon, T. D., Wozniak, K. C., Woodcock, D., Herrera, N.B., Fischer, B.J. Morgan, D.S., Lee, K.K., and Hinkle, S.R., 2005, Ground-Water Hydrology of the Willamette Basin, Oregon: U. S. Geological Survey Scientific Investigations Report 2005-5168.

Gannett, M.W. and Caldwell, R., 1998, *Geologic framework of the Willamette Lowland aquifer system, Oregon and Washington*, Professional Paper 1424-A, 32 p: U. S. Geological Survey, Reston, VA.

T-14239, Westwood Farms, Inc.
T6S, R3W