Groundwater Transfer Review Summary Form

Transfer/PA # T- _14266_

GW Reviewer _Gabriela Ferreira_ Date Review Completed: _January 3, 2024_

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-14266 Applicant Name: Thomas G. Johnson and Kirk A. Hansen

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

Reviewer(s): Gabriela Ferreira Date of Review: January 3, 2024

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 _____

Basic description of the changes proposed in this transfer: The proposed transfer modifies POAs authorized under GR Claim 1550. GR Claim 1550 has a priority date of May 31, 1947 for irrigation of 30.0 acres by the currently authorized POA (1550 Well, MARI 4573) and maximum rate of 0.557 cfs (~250 gpm).

The proposed transfer would add three additional POAs (Well 1, MARI 4510; Well 2, 59174; Well 3, MARI 4548) and modify the POU. APOA MARI 4510 is also an authorized POA on Certificate 48476 (irrigation of 8.6 acres with a maximum instantaneous rate of 0.11 cfs and priority date of June 6, 1972) and Certificate 85154 (nursery use of 6.6 acres with a maximum instantaneous rate of 0.167 cfs and priority date of March 19, 1998). The proposed transfer would increase the combined maximum instantaneous rate for MARI 4510 to 0.834 cfs (~375 gpm).

1. 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 650 to 700 feet below land surface (bls). The currently authorized POA, MARI 4573 is completed to a depth of 74 feet bls. The proposed APOAs are completed to depths between 93 and 173 feet bls. The authorized POA, MARI 4573, obtain groundwater from the alluvial aquifer system, more specifically the Willamette aquifer (Gannett and Caldwell, 1998). The proposed APOAs would similarly develop the Willamette aquifer.

2. 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.): _____

3. 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 4559, MARI 4537, and MARI 4576, which are all completed to depths less than 150 feet bls. The currently authorized POA, MARI 4573 is completed to a depth of 74 feet bls. The proposed APOAs are completed to depths between 93 and 173 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 ~650-700 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

4. 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 nearest perennial stream reach is an unnamed tributary to the Little Pudding River located approximately 4,600 ft southeast of the nearest proposed APOA (MARI 4510). The authorized POA, MARI 4573, is approximately 4,900 feet northwest of the unnamed tributary. The relatively small change in intervening distance is not likely to result in an increase in surface water interference.

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

5. 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

6. What conditions or other changes in the application are necessary to address any potential issues identified above: N/A

7. Any additional comments: None

References

Application file: T-14266, and related files GR Claim 1550, Certificates 48476 and 85154

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-14266, Johnson and Hansen
T6S, R3W, Sections 29 & 30