Groundwater Transfer Review Summary Form

Transfer/PA # T- _14542_

GW Reviewer _Stacey Garrison/Travis Brown_ Date Review Completed: _11/6/2024_

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 Water Level Decline Condition Review:

☐ Water levels at the original point(s) of appropriation have exceeded the allowed decline threshold defined by conditions in the originating water right.

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-14542 Applicant Name: Patrick and Denise Beggs

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

Reviewer(s): Stacey Garrison/Travis Brown Date of Review: 11/6/2024

Date Returned to WRSD: 11/12/2024

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: Applicant proposes to add an APOA (**PROP 556**) to 54.8 ac of **Certificate 56439**. **Certificate 56439** authorizes POA 1 (**MARI 8825/8812**) to irrigate 100.4 ac at a maximum rate of 0.78 cfs and a maximum annual duty of 251 AF. The maximum rate is split by priority date: 0.67 cfs with priority date of July 6, 1973, and 0.11 cfs with priority date of December 13, 1974. The transfer to the APOA (**PROP 556**) is evaluated at the maximum split, proportioned rate of 0.4257 cfs (0.366 cfs with priority date of July 6 1973, 0.060 cfs with priority date of December 13 1974) and a maximum annual duty of 137 AF.

2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
☒ Yes ☐ No Comments: The authorized POA (**MARI 8825/8812**) develops the weathered top of the Sand Hollow Basalt belonging to the Frenchman Springs member of the Wanapum Basalt Formation (Tolan and Beeson, 1999), part of the Columbia River Basalt Group, CRBG. The well is completed to 600 ft bls [-136 ft amsl], with water-bearing zones (WBZs) from 23 ft bls [441 ft amsl] to 350 ft bls [114 ft amsl]; when the well was deepened to 600 ft bls [-136 ft amsl], the driller noted "No water encountered". The proposed APOA (**PROP 556**) would likely develop the same Sand Hollow Basalt, with proposed casing and surface seal to 30 ft bls [543 ft amsl] and a maximum depth of 250 ft bls [323 ft amsl]. It is anticipated that the proposed APOA (**PROP 556**) will develop the same aquifer as the authorized POA (**MARI 8825/8812**).

3. a) Is the existing authorized POA subject to a water level decline condition?
☐ Yes ☒ No Comments: _____

b) If yes, for each POA identify the reference level, most recent spring-high water level, and whether an applicable permit decline condition has been exceeded: N/A

4. a) Is there more than one source developed under the right (e.g., basalt and alluvium)?
☐ Yes ☒ No Comments: Only the Frenchman Springs member of the CRBG is developed.

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.): N/A

5. 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: The authorized POA (**MARI 8825/8812**) is closer to the nearest ground water user than the proposed APOA (**PROP 556**). A decrease in interference with other ground water users is anticipated.

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

6. 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 authorized POA (**MARI 8825/8812**) is closer to the nearest surface water source than the proposed APOA (**PROP 556**). A decrease in interference with surface water is anticipated.

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

Provide context for minimal/significant impact: N/A

7. 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

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

9. Any additional comments:_____

References

Transfer File: T-14542, Certificate 56439

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

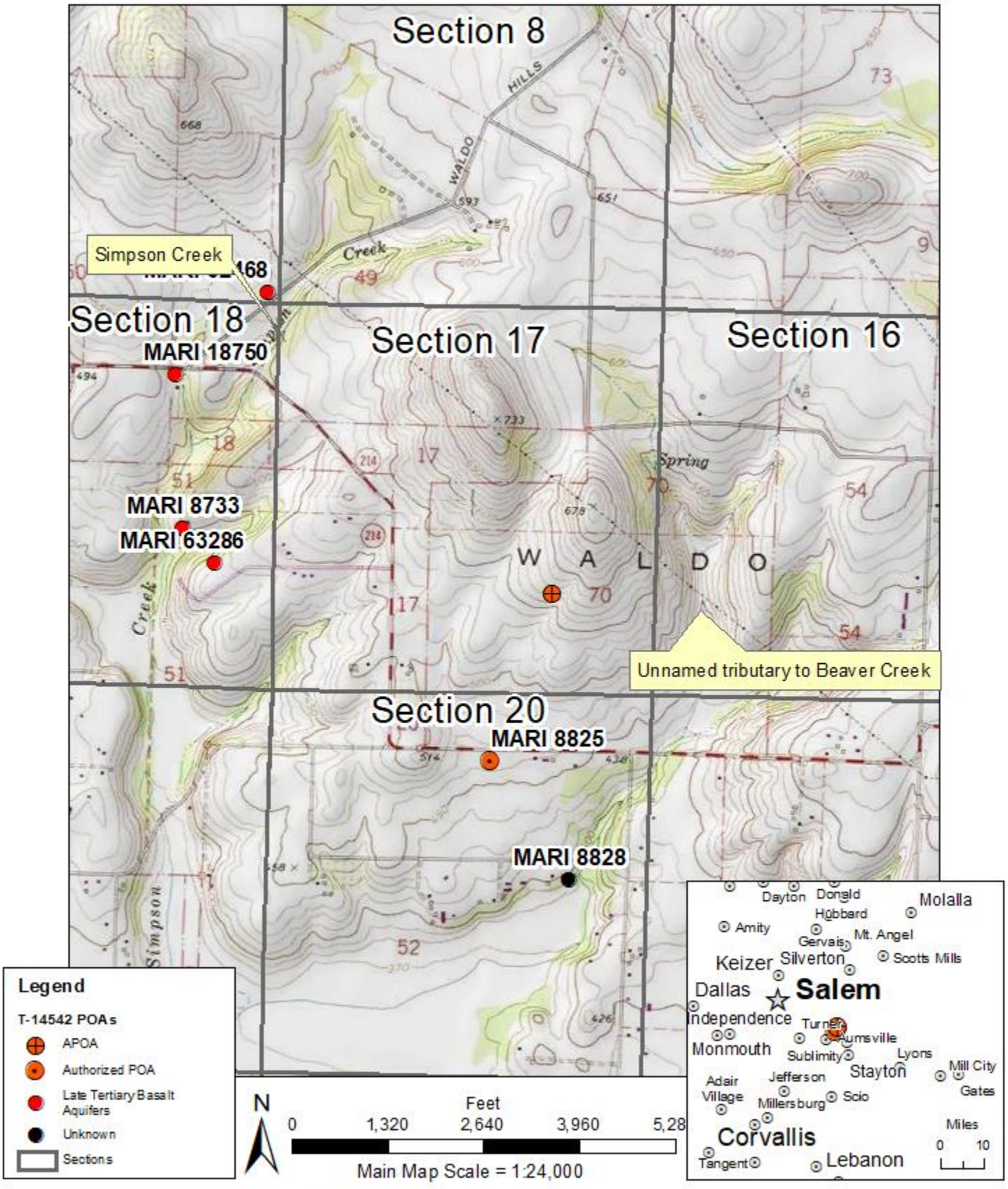
Gannett, M.W. and Caldwell, R., 1998, Geologic framework of the Willamette Lowland aquifer system, Oregon and Washington, Professional Paper 1424-A, 32 p: U. S. Geological Survey, Reston, VA.

Herrera, N.B., Burns, E.R., and Conlon, T.D., 2014, Simulation of groundwater flow and the interaction of groundwater and surface water in the Willamette Basin and Central Willamette subbasin, Oregon: U.S. Geological Survey Scientific Investigations Report 2014–5136, 152 p.

Theis, C.V., 1935, The relation between the lowering of the piezometric surface and the rate and duration of discharge of a well using groundwater storage, American Geophysical Union Transactions, vol. 16, p. 519-524.

Map

T-14542 Beggs



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