Groundwater Transfer Review Summary Form

Transfer/PA # T- _14360_

GW Reviewer _Dennis Orlowski_ Date Review Completed: _December 27, 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-14360 Applicant Name: Metro

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

Reviewer(s): Dennis Orlowski Date of Review: December 27, 2023

Date Reviewed by GW Mgr. and Returned to WRSD: December 27, 2023

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: This proposed transfer relates to certificate 34919, which authorizes the use of groundwater from a single POA (MULT 2527) for "park" uses (0.30 cfs, no duty, year-round) at the Oxbow Regional Park adjacent to the Sandy River in eastern Multnomah County.

   This transfer application proposes the following changes to certificate 34919:

   - **Add two APOA ("Well 4" and "Well 5", not yet drilled).**
   - **Change the character of use to Municipal, which more closely describes the current and proposed uses at the park** (certificate 34919 indicates "park use in Oxbow Park" which is not defined by Oregon Administrative Rules. Currently WRIS indicates use as being "recreational", but that use type does not match the intended use of groundwater at the park).

2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
   ☒ Yes ☐ No Comments: The authorized POA, MULT 2527, is 107 feet deep and obtains groundwater from water-bearing sand and gravel deposits; these deposits are likely Quaternary terrace deposits and/or underlying water-bearing portions of Confining Unit 2 or the Sand and Gravel Aquifer (SGA) (Swanson and others, 1993; Wells and others, 2020; Gannett and Caldwell, 1998). The two proposed APOA are planned to be between about 100 and 150 feet deep, located in a similar terrace setting with similar ground surface elevations, and will thus be expected to obtain groundwater from the same aquifer source.

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

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

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: The locations for the proposed APOA are within the Oxbow Regional Park. While there are no other know groundwater users nearby, it is possible that rural residences in the upland area adjacent to the south of the Park use domestic wells, although specific well locations are not known. The OWRD well log database indicates that wells located generally in this upland area range from about 60 to over 600 feet deep, with the ground surface elevation about 150 to 250 feet above the surface at the APOA locations; thus, while it is possible that some of these wells obtain groundwater from the same water-bearing units that will be accessed by the proposed APOA, the lack of specific well location information precludes the ability to assess potential interference for a particular well(s). Furthermore, the relatively-low authorized allocation and the APOA's proximity to a likely recharge source (Sandy River) will also mitigate interference concerns due to excessive drawdown. Consequently, it is unlikely that the proposed use will result in an increase in interference with these other groundwater rights.

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 authorized POA, MULT 2527, is about 500 feet from the Sandy River. The proposed APOA locations are farther from the stream, ranging from about 1200 to 1300 feet away. Consequently, due to the relatively-greater distances between the two APOA to the Sandy River, it is unlikely that the proposed use will result in an increase in interference with that surface water source.

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: None

8. Any additional comments: None

References

Application: T-14360; certificate 34919

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.

Swanson, R. D., McFarland, W. D., Gonthier, J. B., and Wilkinson, J. M., 1993, A description of hydrogeologic units in the Portland Basin, Oregon and Washington, Water-Resources Investigations Report 90-4196, 56 p.: U. S. Geological Survey, Reston, VA.

United States Geological Survey, 2013, National Elevation Dataset (NED) [DEM geospatial data]. 1/9th arc-second, updated 2013.

United States Geological Survey, 2014, National Hydrography Dataset (NHD), 1:24,000, U. S. Department of the Interior, Reston, VA.

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Watershed Sciences, 2009, *LIDAR remote sensing data collection, Department of Geology and Mineral Industries, Willamette Valley Phase I, Oregon*: Portland, OR, December 21.

Wells, R.E., Haugerud, R.A., Niem, A.R., Niem, W.A., Ma, L., Evarts, R.C., O'Connor, J.E., Madin, I.P., Sherrod, D.R., Beeson, M.H., Tolan, T.L., Wheeler, K.L., Hanson, W.B., and Sawlan, M.G., 2020, Geologic map of the greater Portland metropolitan area and surrounding region, Oregon and Washington: U.S. Geological Survey Scientific Investigations Map 3443, pamphlet 55 p., 2 sheets, scale 1:63,360, https://doi.org/10.3133/sim3443.

Application T-14360 Metro
T1S, R4E, S10 and S15