

Groundwater Transfer Review Summary Form

Transfer/PA # T- 14915

GW Reviewer Stacey Garrison Date Review Completed: 9/1/2026

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-14915

Applicant Name: Lakebrook Holdings LLC

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

Reviewer(s): Stacey Garrison

Date of Review: 9/1/2026

Date Reviewed by GW Mgr. and Returned to WRSD: 9/1/2026

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 _____

-
1. Basic description of the changes proposed in this transfer: Applicant proposes to add APOA Well 2/**PROP 876**, not yet drilled to **Certificate 95614**. **Certificate 95614** authorizes irrigation of 49.7 ac at a maximum rate of 0.62 cfs (278 gpm) and a maximum annual duty of 124.25 AF by the authorized POA Well 1/**MARI 65741**.
 2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
☒ Yes ☐ No Comments: The authorized POA Well 1/**MARI 65741** develops the Willamette Aquifer from 51 to 160 ft bls [28 to 137 ft amsl]. The proposed APOA Well 2/**PROP 876** is anticipated to develop the same aquifer with an open interval of 50 to 200 ft bls [-15 to 135 ft amsl].
 3. a) Is the existing authorized POA subject to a water level decline condition?
☒ Yes ☐ No Comments: Annual measurement and reporting of March water levels were required for seven years following first year of water use with decline conditions listed below.
(A) An average water level decline of three or more feet per year for five consecutive years;
or
(B) A water level decline of 15 or more feet in fewer than five consecutive years; or
(C) A water level decline of 25 or more feet; or

(D) Hydraulic interference leading to a decline of 25 or more feet in any neighboring well with senior priority.

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: Well 1/MARI 65741 is the only authorized POA with reference level of 37.35 ft bls and most recent spring-high water level of 40.94, a decline of 3.59 ft over six years. This does not exceed any of the decline conditions.

4. a) Is there more than one source developed under the right (e.g., basalt and alluvium)?

☐ Yes ☒ No Comments: Only the alluvial source 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: J. The proposed APOA Well 2/PROP 876 is closer to MARI 4676, a POA on Certificate 34076 with priority date 8/31/1962. The reduced distance is anticipated to increase interference with MARI 4676.

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: The proposed change was analyzed using the Theis (1935) solution for drawdown in a confined aquifer (see attached Theis Well Interference Analysis). Hydraulic parameters used for the analysis were derived from regional data and studies (Pumping Test Reports; Conlon et al., 2005; Iverson, 2002; McFarland and Morgan, 1996; Woodward et al., 1998). Results of the analysis indicate that pumping the proposed APOA Well 2/PROP 876 is not likely to result in injury at the location of MARI 4676.

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 proposed APOA Well 2/PROP 876 is not closer to a surface water source, and so an increase in interference is not 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: Require monitoring and reporting of March water levels from the APOA Well 2/**PROP 876** with same decline conditions as required of the authorized POA Well 1/**MARI 65741**. With start of measurements from APOA Well 2/**PROP 876**, re-start monitoring and reporting of March water levels from the authorized POA Well 1/**MARI 65741**. Reference level in APOA Well 2/**PROP 876** to be set based on first year of water use of the water right (2017) and corresponding to extrapolated water level at location of APOA Well 2/**PROP 876**.
9. Any additional comments: N/A

References

Application File: T-14915

Well logs: MARI 65741, MARI 4676

Pump Tests: MARI 4492, MARI 4614, MARI 6558, MARI 6528, MARI 18385, MARI 4510 MARI 51214, MARI 52920, MARI 4716, MARI 6500, MARI 18321, MARI 56560, MARI 66858, MARI 65741, MARI 70695

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.

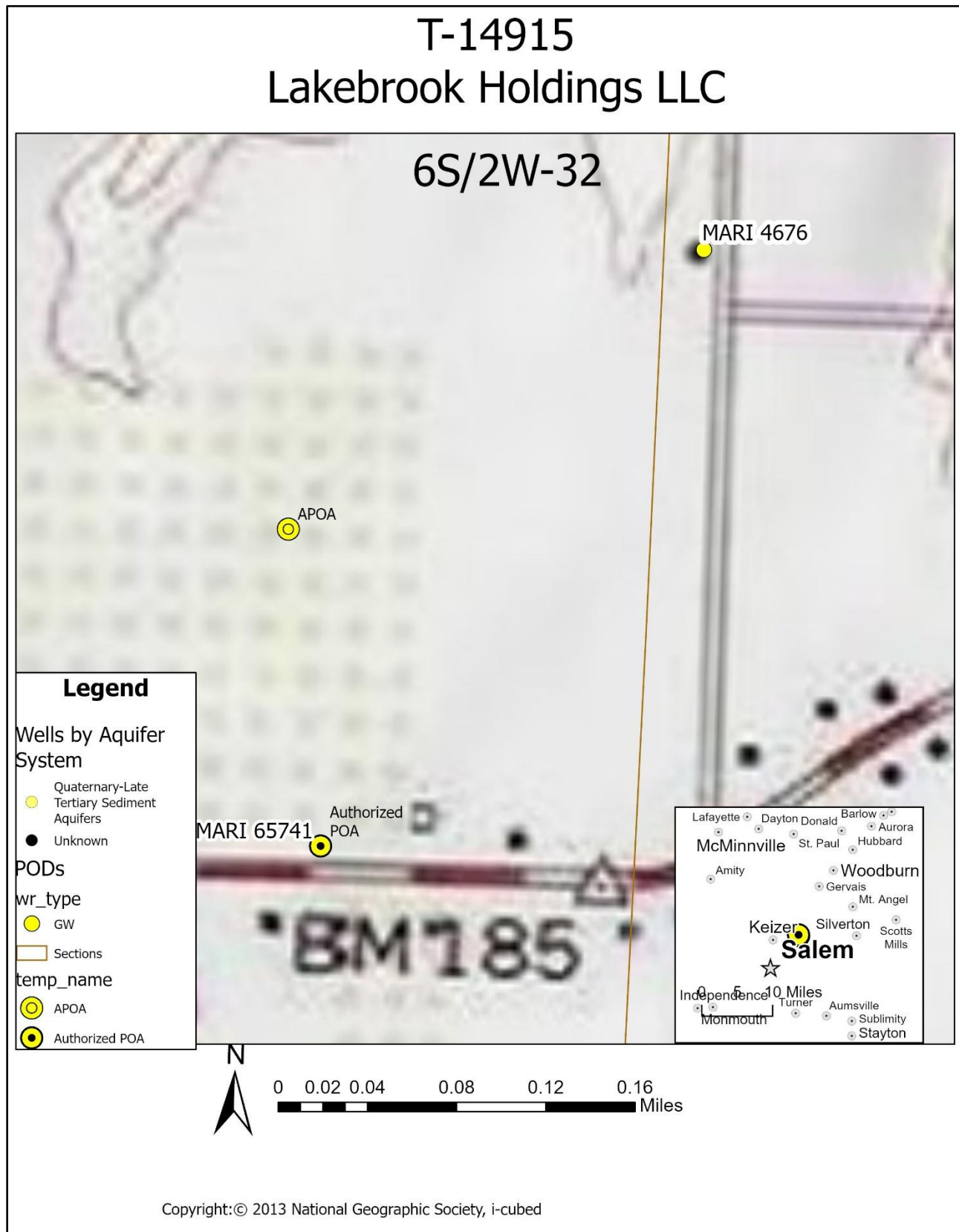
Gannett, M.W. and Caldwell, R., 1998, Geologic framework of the Willamette Lowland aquifer system, Oregon and Washington, Professional Paper 1424-A, 32 p: U. S. Geological Survey, Reston, VA.

O'Connor, J.E., Sarna-Wojcick, A., Wozniak, K.C., Polette, D.J., Fleck, R.J., 2001, Origin, Extent, and Thickness of Quaternary Geologic Units in the Willamette Valley, Oregon; U.S. Geological Survey, Professional Paper 1620, 51 p.

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

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

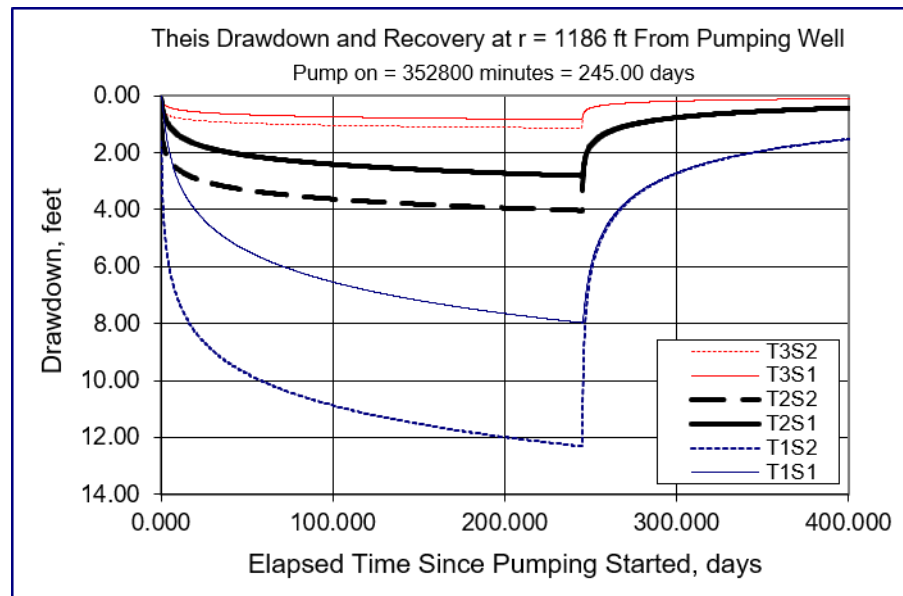
Woodward, D.G., Gannett, M.W., and Vaccaro, J.J., 1998, Hydrogeologic framework of the Willamette Lowland aquifer system, Oregon and Washington: U.S. Geological Survey Professional Paper 1424-B, 82 p

Map

Theis Interference Analysis

Input Data:	Var Name	Scenario 1	Scenario 2	Scenario 3	Units	
Total pumping time	t		245		d	
Radial distance from pumped well:	r		1186		ft	Q conversions
Pumping rate	Q		0.255685		cfs	114.75 gpm
Hydraulic conductivity	K	7.3	26	107	ft/day	0.26 cfs
Aquifer thickness	b		150		ft	15.34 cfm
Storativity	S 1		0.003			22,091.18 cfd
	S 2		0.0002			0.51 af/d
Transmissivity Conversions	T_f2pd	1095	3900	16050	ft ² /day	Recalculate
	T_ft2pm	0.76041667	2.70833333	11.1458333	ft ² /min	
	T_gpdft	8190.6	29172	120054	gpd/ft	

The full rate of 0.62 cfs (278 gpm) could not be used over the full 245-day irrigation season without exceeding the 124.25 AF annual volume. For the duration of the 245-day irrigation season, the average rate of 0.255685 cfs (115 gpm) could be used without exceeding the 124.25 AF annual volume.



SWL	43 ft bls	MARI 4676
Aquifer Bottom	440 ft bls	Woodward et al, 1998
Available Water Column	397 ft	Aquifer bottom-SWL
Pump Height Above Bottom	5 ft	Estimate
NPSHa	5 ft	Estimate
Drawdown	36 ft	Estimate
Minimum Water Column	46 ft	Estimated Drawdown + NPSHa + Pump Height
Injury	351 ft	Available Water Column-Minimum Water Column