Groundwater Transfer Review Summary Form

Transfer/PA # T- _14764_

GW Reviewer _Jen Woody_ Date Review Completed: _12/24/2025_

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.

OREGON WATER RESOURCES DEPARTMENT

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Ground Water Review Form:

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

Application: T-14764 Applicant Name: Threemile Canyon Farms

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

Reviewer(s): Jen Woody Date of Review: 12/24/2025

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: Certificate 92210 authorizes two wells: UNIO 52441/Well 3 and UNIO 1199/Well 4. Transfer T-14764 proposes to replace UNIO 52441/Well 4 with a proposed 350 foot deep well (Johnson 1R), and to add UNIO 53029/Well 5 as an additional Point of Appropriation (POA).

Well name	LogID	Current POA	Proposed POAs	Well depth (ft)	Seal Depth (ft)
Well 3	UNIO 52441	x	x	455	0-39
Well 4	UNIO 1199	x		300	0-45
Well 5	UNIO 53029		x	323	0-58.2
Johnson 1R	proposed		x	350	0-50

2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
☒ Yes ☐ No Comments: All four wells involved in this transfer access silt, sand, gravel, and sandy clay from land surface to 455 feet below land surface. Well logs UNIO 52441 and UNIO 53029 describe static water levels at the same elevation as reported first water, indicating an unconfined aquifer. This unconfined alluvial aquifer ranges up to 2,500 feet thick in the Grande Ronde Valley (Ferns, 2010).

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

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: see section 2.

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: Johnson 1R, the proposed replacement for UNIO 1199 would be 200 feet closer to the nearest wells, at approximately 2,800 feet away. The approved POA UNIO 1199, is approximately 3,000 feet away from the closest POA. This change will increase interference.

UNIO 53029 is located the same distance as UNIO 52441 (1,650 feet) to the nearest POA. No change in well-to-well pumping interference is expected.

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: Moving pumping from UNIO 1199 to Johnson 1R will result in less than one foot of additional drawdown at nearby UNIO 1209 (see Figure 2), based on Theis distance- drawdown estimates using pump test data from nearby wells (pump test data from UNIO 51275, 51431, 2574, 1198, 1166, 51274 were analyzed to identify the local range of alluvial aquifer parameters). This will not prevent access to groundwater at UNIO 1209, which is 345 feet deep with over 300 feet of water in the well.

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 nearest stream is Ladd Creek, located more than 2 miles away from the subject wells. Johnson 1R will be approximately 200 feet closer to the creek than UNIO 1199, which is will not change stream depletion estimates (Hunt, 1999; see Figure 3).

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

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: none
9. Any additional comments: none

References

Barlow, P.M and Leake, S.A, 2012, Streamflow Depletion by Wells—Understanding and Managing the effects of groundwater pumping on streamflow, U.S. Geological Survey Circular 1376, 84 p.

Ferns, M. L., McConnell, V. S., Madin, I. P., and Johnson, J. A. 2010. Geology of the Upper Grande Ronde River Basin (DOGAMI Bulletin No. 107). Salem, OR: Oregon Department of Geology and Mineral Industries.

Hunt, B., 1999, Unsteady stream depletion from ground water pumping: Ground Water, v. 37, no. 1, p. 98-102.

Oregon Water Resources Department, Groundwater Information System, https://apps.wrd.state.or.us/apps/gw/gw_info/gw_info_report/Default.aspx, accessed 12/24/2025.

Theis, C.V., 1941, The effect of a well on the flow of a nearby stream: Am. Geophys. Union Trans., v. 22, pt.3, p. 734-738.

Figure 1. Well location map

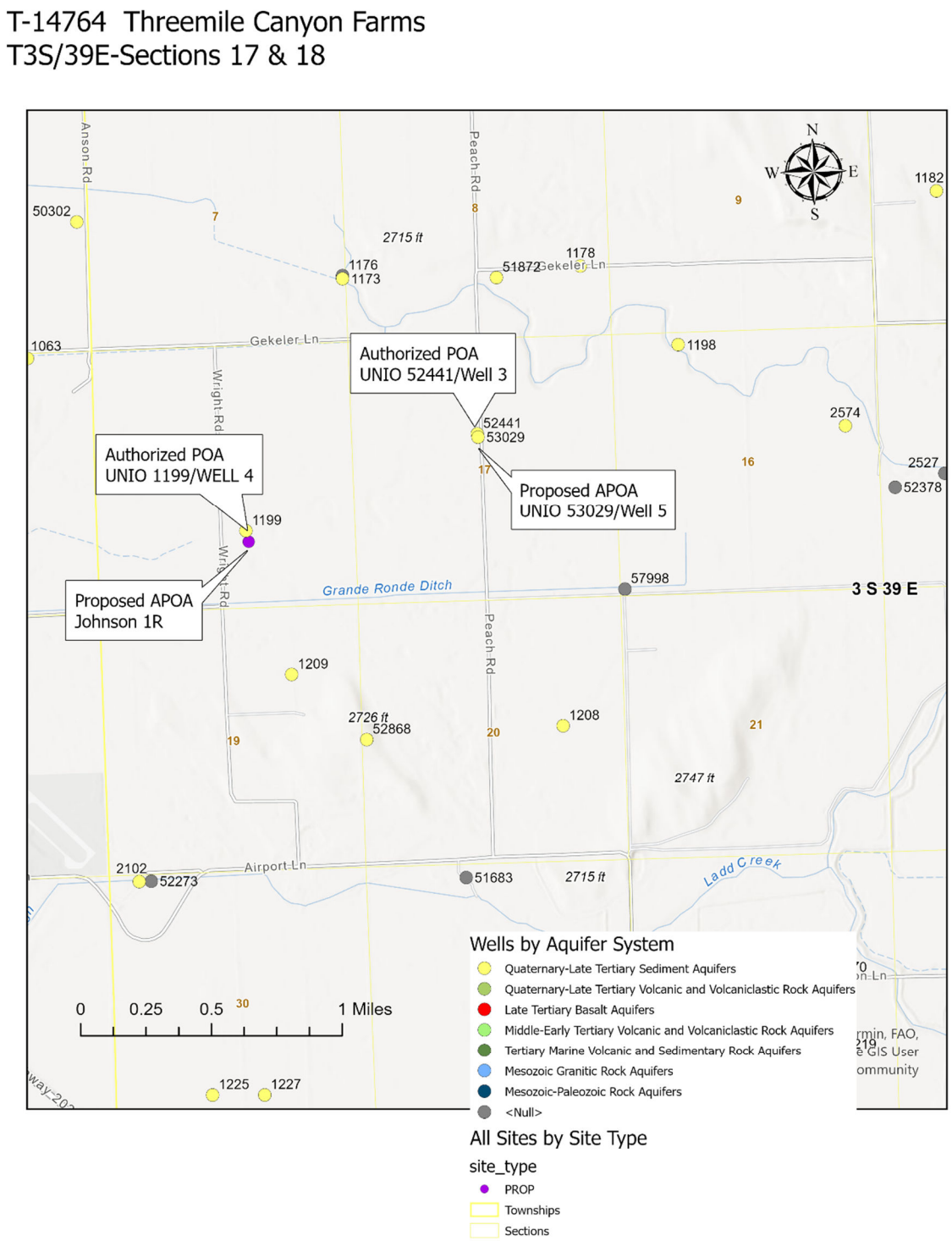
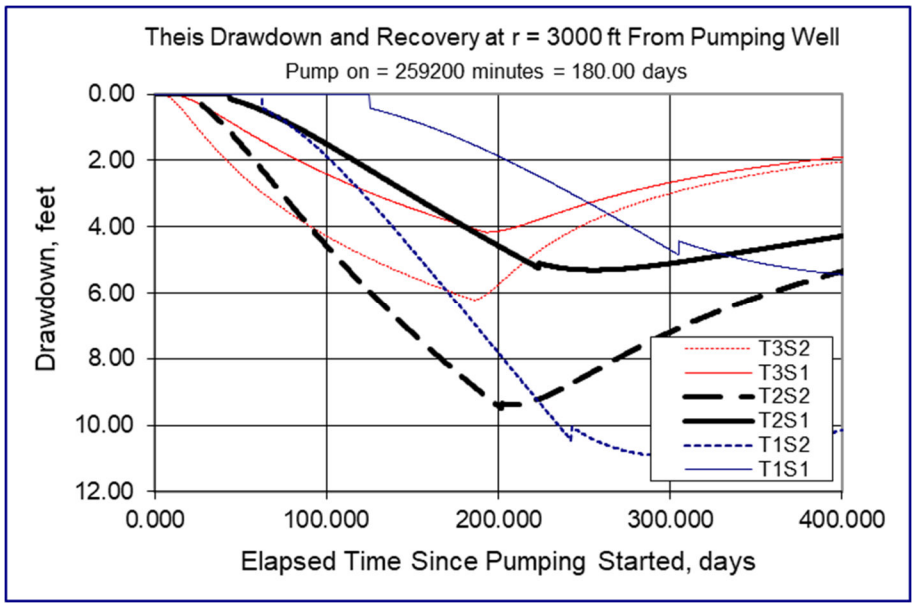


Figure 2. Well-to-well interference estimates, using the Theis model (1941), show less than one foot of increased drawdown at a nearby well resulting from pumping at the proposed APOA (Johnson 1R at 2,800 feet away vs pumping UNIO 1199 at 3,000 feet away).



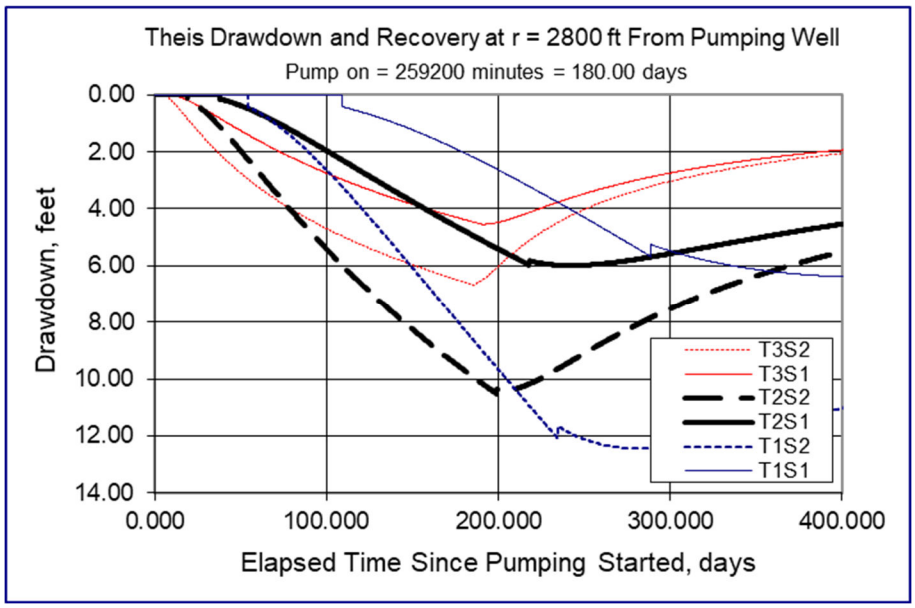
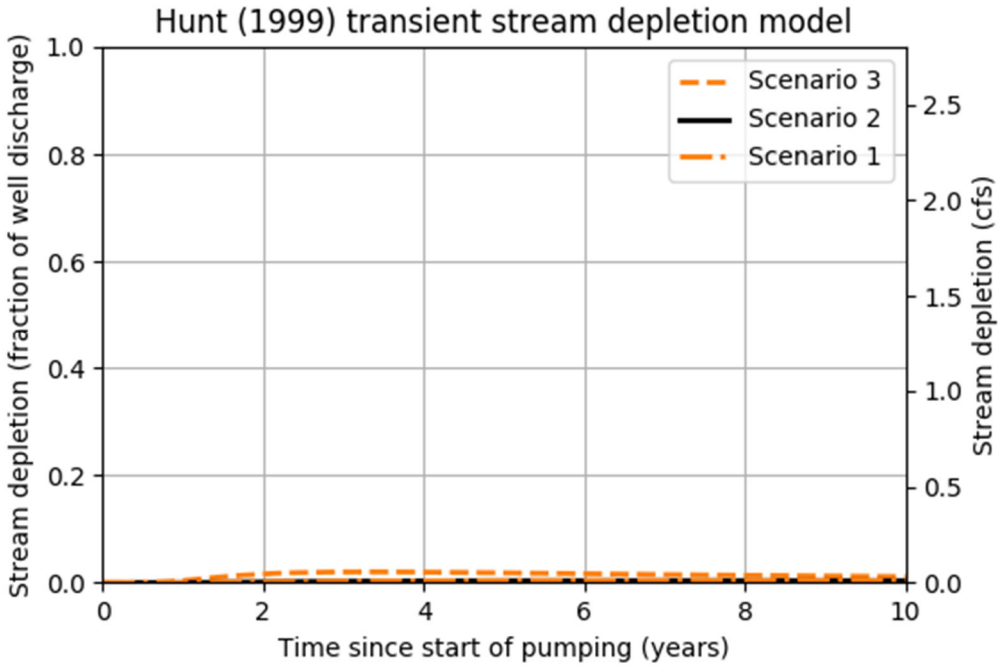


Figure 3. Stream depletion impacts to Ladd Creek modeled using Hunt (1999) show no change resulting from the APOA and POA changes proposed by this transfer application.



Application type:	T
Application number:	14764
Well number:	1
Stream Number:	1
Pumping rate (cfs):	2.8
Pumping duration (days):	180
Pumping start month number (3=March)	3.0
Plotting duration (days)	3650

Parameter	Symbol	Scenario 1	Scenario 2	Scenario 3	Units
Distance from well to stream	a	11000	11200	11200	ft
Aquifer transmissivity	T	3000	3000	4500	ft2/day
Aquifer storativity	S	0.15	0.15	0.15	-
Aquitard vertical hydraulic conductivity	Kva	0.01	0.01	0.1	ft/day
Not used		10.0	20.0	30.0	
Aquitard thickness below stream	babs	3	3.0	3	ft
Not used		0.2	0.2	0.2	
Stream width	ws	50	50	50	ft