

# Groundwater Transfer Review Summary Form

Transfer/PA # T- 14754

GW Reviewer Stacey Garrison Date Review Completed: 12/19/2025

## 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.*



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Ground Water Review Form:

- Water Right Transfer
Permit Amendment
GR Modification
Other

Application: T-14754

Applicant Name: Mariah and John DeRosier

- Proposed Changes: POA, APOA, SW to GW, RA, USE, POU, OTHER

Reviewer(s): Stacey Garrison

Date of Review: 12/19/2025

Date Reviewed by GW Mgr. and Returned to WRSD: JTI 3/13/26

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 move a portion of GR 2307 POU and add an APOA, POA 2/Well 2 (LANE 7726), to the POU. GR 2307 authorizes POA 1/Well 1 (LANE 7738) to irrigate 20 ac at a maximum rate of 0.4456 cfs (200 gpm) and a maximum annual volume of 50 AF.

2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
Yes No Comments:

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:

4. a) Is there more than one source developed under the right (e.g., basalt and alluvium)?
Yes No Comments:

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.):

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 proposed APOA, POA 2/Well 2 (LANE 7726) is closer to LANE 7719 than the authorized POA, POA 1/Well 1 (LANE 7738). The reduced intervening distance is likely to increase interference with LANE 7719.
- 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 APOA, POA 2/Well 2 (LANE 7726) is approximately 464 ft north of LANE 7719. The Theis (1935) solution for drawdown in a confined aquifer was used to assess the potential for injury to LANE 7719 from the proposed changes (see attached Theis Interference and Injury Analysis). Results indicate the proposed change is unlikely to result in LANE 7719 not receiving the water to which it is legally entitled.
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: \_\_\_\_\_
- 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: \_\_\_\_\_
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

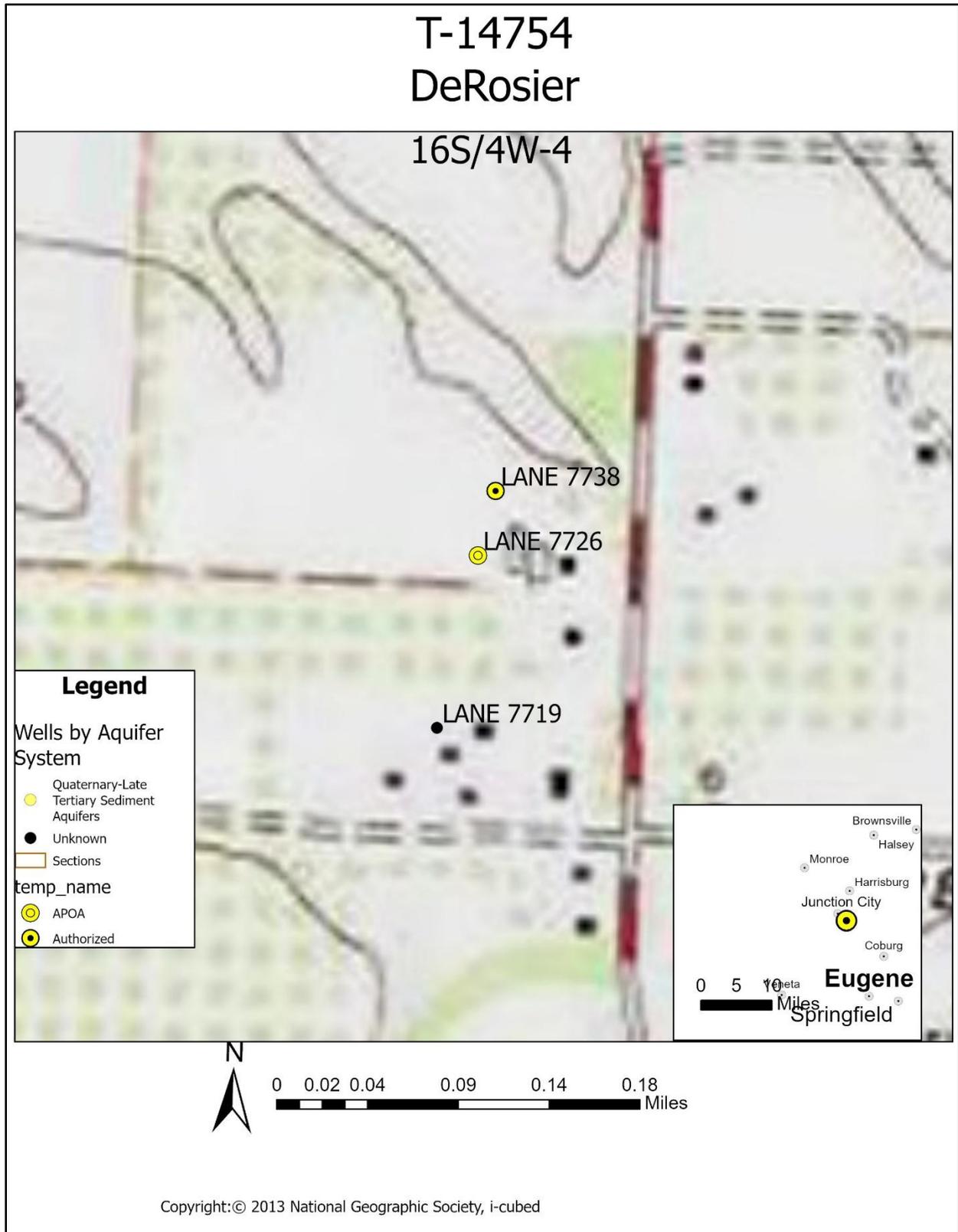
Application File: T-14754

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.

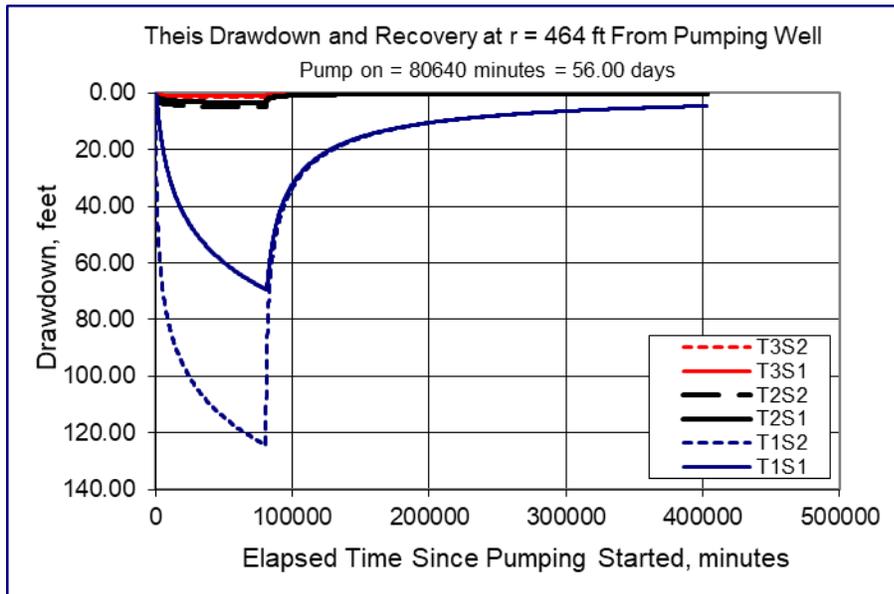
Theis, C.V., 1935, The relation between the lowering of the piezometric surface and the rate and duration of discharge of a well using groundwater storage, American Geophysical Union Transactions, vol. 16, p. 519-524.

Map



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Theis Interference and Injury Analysis: POA 2/Well 2 (LANE 7738)-LANE 7719



Radius,  $r=464$  ft [approximate distance from Well 2 to LANE 7719]

Pumping time,  $t=56$  days [approximate time to exhaust duty at max rate]

Pumping rate,  $Q=0.4456$  cfs [max rate]

Transmissivity:  $T1=150$  ft<sup>2</sup>/day,  $T2=6,000$  ft<sup>2</sup>/day,  $T3=24,542$  ft<sup>2</sup>/day [Pumping Test Reports]

Storativity:  $S1=0.003$ ,  $S2=0.0002$  [Conlon et al., 2005]

	333 ft amsl	elevation
SWL	15 ft bls	LANE 7719 well log
Aquifer Bottom	260 ft bls	Gannett & Caldwell 1998
Available Water Column	245 ft	Aquifer Bottom - SWL
Pump Height Above Bottom	5 ft	Estimate
NPSHa	5 ft	Estimate
Drawdown	8 ft	LANE 7719 bailer test on well log
Minimum Water Column	18 ft	Estimated Drawdown + NPSHa + Pump Height
Injury	227 ft	Available Water Column-Minimum Water Column