

Groundwater Transfer Review Summary Form

Transfer/PA # T- 14077

GW Reviewer Joe Kemper Date Review Completed: 6/20/2025

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 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-14077

Applicant Name: Randall W. and Laura J. Shepard

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

Reviewer(s): Joe Kemper

Date of Review: 6/20/2025

Supersedes Review from 1/20/2023

Date Reviewed by GW Mgr. and Returned to WRSD: _____

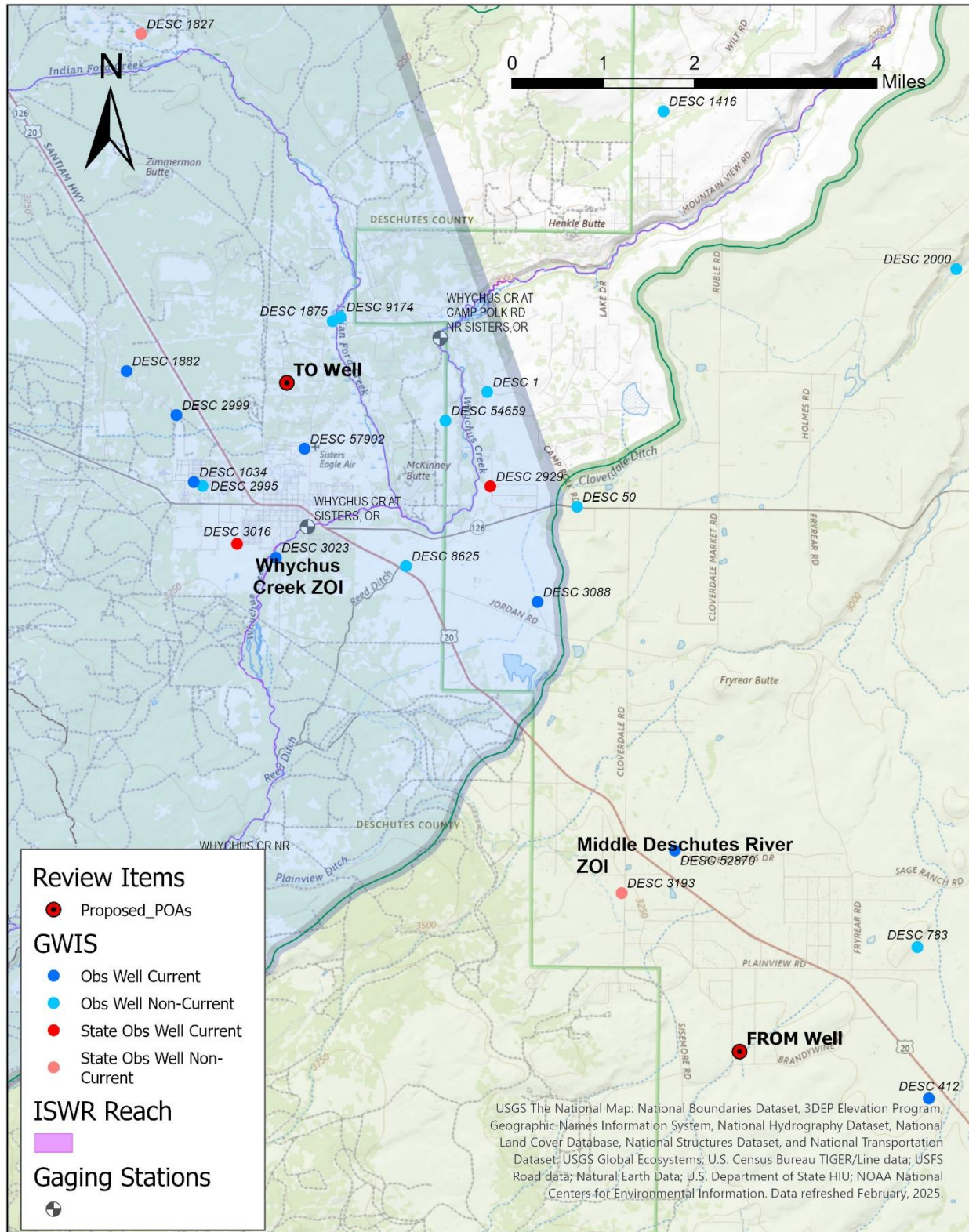
The information provided in the application is insufficient to evaluate whether the proposed transfer may be approved because:

- ☐ 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 95328 authorizes irrigation of 4.19 acres with a maximum rate of 0.052 cfs from a single POA (DESC 52803). This transfer would move 1.5 acres from certificate 95328 to a new POU in TRS 14S/10E-33 and to POA DESC 1906.
2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
☒ Yes ☐ No Comments: The applicant included the well log DESC 52849 for the TO Well, which did not include well dimensions, construction, or lithology information. Further research by OWRD staff concluded that DESC 1906 is the original log that corresponds to the address of the TO POA. DESC 1906 is drilled to a depth of 90 feet and accesses ~ 60 feet of Deschutes regional aquifer where it is hosted in unconsolidated glacial outwash sediments in the Sisters area. The FROM well is drilled to 420 feet and accesses the Deschutes regional aquifer where it is hosted in Cascade-sourced tuffs and lavas. Although the wells are more than 8 miles apart, they both access the Deschutes regional aquifer.
3. a) Is there more than one source developed under the right (e.g., basalt and alluvium)?
☐ Yes ☒ No Although the TO and FROM wells access different lithologies, both are considered to be producing from the Deschutes regional aquifer which is considered a single source in this area.

- 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.): NA
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 proposed change will increase groundwater pumping at DESC 1906 by approximately 4.5 AF/year. Any increase in groundwater pumpage will increase interference with adjacent wells.
- 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: Considering the small magnitude increase in use with the high permeability and thickness of the target aquifer, the increase in interference with adjacent wells is unlikely to exceed 1 foot. This does not reach the threshold of injury.
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 FROM well is located in the Middle Deschutes Zone of Impact. Pumpage at the FROM well is expected to interfere with the Deschutes River downstream of Lower Bridge where the regional aquifer begins to discharge into the stream.
- The TO well is located within the Whychus Creek Zone of Impact. Multiple seepage runs have documented an increase of ~6 cfs in Whychus Creek from springs along the eastern flank of McKinney Butte. It is 3,600 feet from Indian Ford Creek and 10,000 feet from Whychus Creek where it begins gaining flow from springs along McKinney Butte. Pumpage at the TO well will cause interference with Whychus Creek that would not occur from pumping at the FROM well.
- 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: Whychus Creek ☐ Minimal ☒ Significant
Stream: NA ☐ Minimal ☐ Significant
Provide context for minimal/significant impact: The stream depletion caused by increased groundwater pumping at DESC 1906 would decrease groundwater discharge to Whychus Creek east of McKinney Butte. This would reduce the time that the instream right on Whychus Creek (certificate 73223) is met.
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: NA
7. What conditions or other changes in the application are necessary to address any potential issues identified above:
8. Any additional comments:

Transfer Map



Groundwater Level Measurements

