

# Groundwater Transfer Review Summary Form

Transfer/PA # T- 14642

GW Reviewer Joe Kemper Date Review Completed: 6/24/2025

## 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.*



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## Ground Water Review Form:

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

Application: T-14642

Applicant Name: Oregon State University Cascades

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

Reviewer(s): Joe Kemper

Date of Review: 6/24/2025

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 \_\_\_\_\_

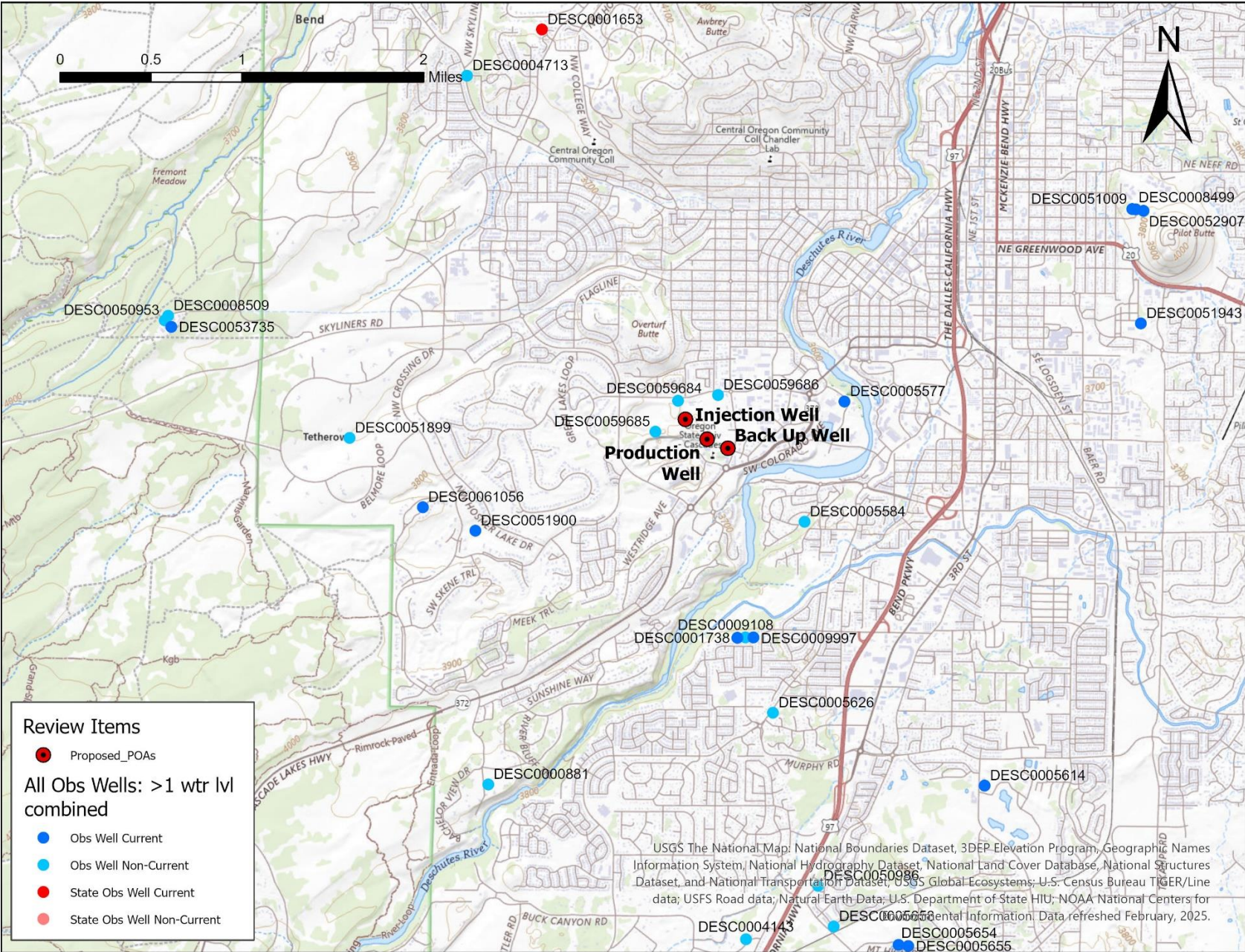
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1. Basic description of the changes proposed in this transfer: Permit G-18687 authorizes 2.23 cfs of geothermal use (heat exchange) from two POAs (DESC 62359 & DESC 61926). The use is non-consumptive where all extracted water is reinjected into the groundwater system. This transfer application proposes to 1) add an undrilled APOA as a back up well if/when the current production well fails and 2) expand the place of use to include other parts of the OSU Cascade Campus. Because the permit use is non-consumptive, the expansion of the POU is not considered to be enlargement by the groundwater portion of this review.
  2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?  
☒ Yes ☐ No Comments: The current POAs access the Deschutes regional aquifer where it is hosted in Quaternary-aged lavas and tuffs erupted from the Cascades. The proposed POA is only 650 feet away from the current production well and will access the same geology and groundwater source.
  3. a) Is the existing authorized POA subject to a water level decline condition?  
☒ Yes ☐ No Comments: Permit G-18687 indicates that the reference level for both POAs shall be the first measurement submitted for the wells.  
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:

LOGID	Ref. Level (ft blsd)	RL Date	Recent WL	WL Date	Decline (ft)	Exceeded:
DESC 61926	245.5	5/3/2023	NA	NA	NA	No
DESC 62359	257.7	3/30/2022	257.4	5/3/2023	0.3	No

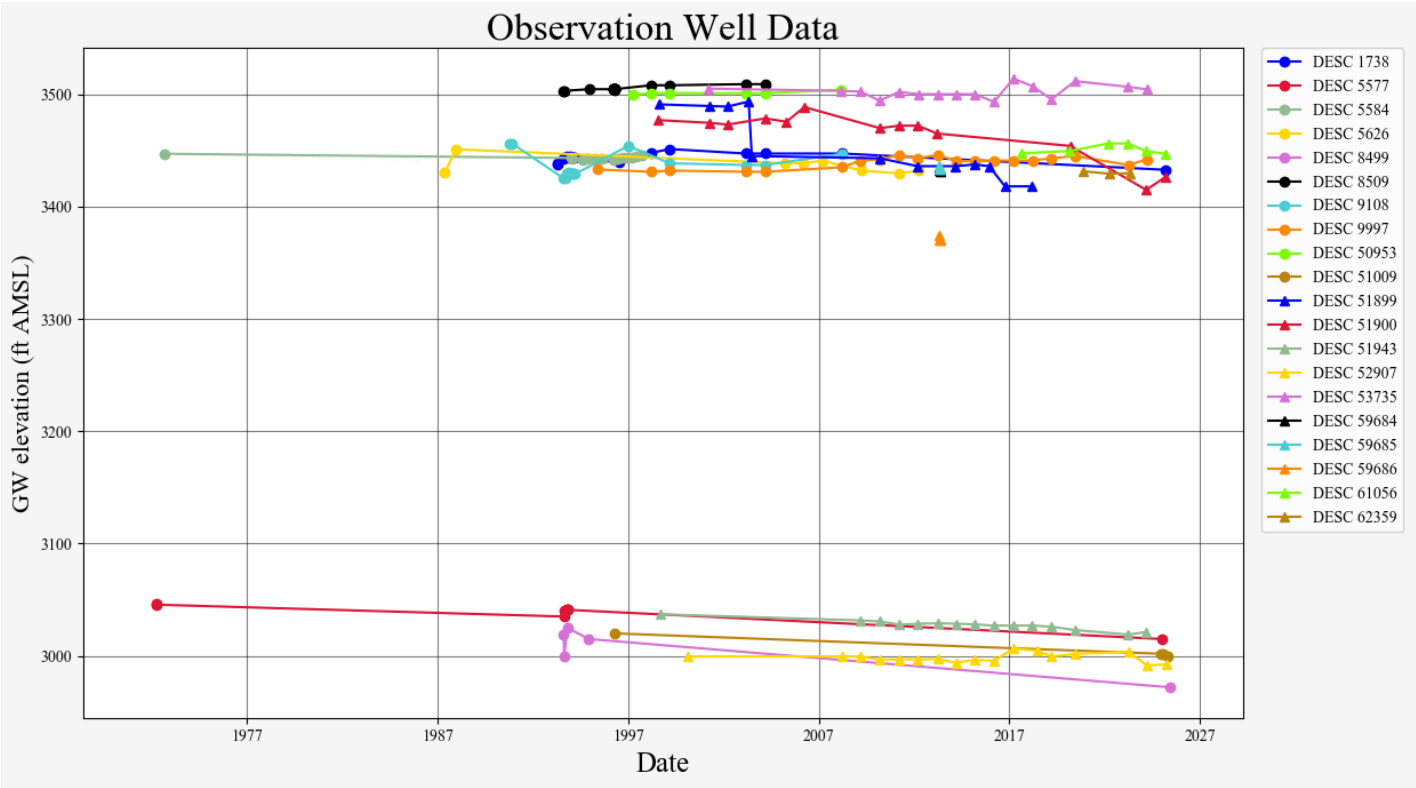
4. a) Is there more than one source developed under the right (e.g., basalt and alluvium)?  
☐ Yes ☒ No Comments: \_\_\_\_\_
- b) If yes, estimate the portion of the right supplied by each of the sources and describe any limitations that will need to be placed on the proposed change (rate, duty, etc.): NA
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: There may be short periods of time in which the production well pumps groundwater out of the aquifer that causes some well-to-well interference before the injection well returns that water to the aquifer. The proposed APOA is 650 feet away from the existing production well. The proposed change in pumping location may result in a small change in location of the cone of depression caused by this permit.
- 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 permitted use is non-consumptive so any well-to-well interference that results from this permit or the change in production well location is expected to be short-term. Furthermore, the target aquifer at this location is highly permeable and has a saturated thickness of more than 750 feet, so any short-term interference would be very small in magnitude compared to the overall aquifer capacity.
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 is 650 from the current production well. The target aquifer is disconnected from adjacent surface water sources until groundwater begins flowing into the Deschutes and Crooked rivers in the confluence zone (located ~25 miles to the north). The change in well location is negligible when considering the distance to the next point of GW-SW interaction. Additionally, the permitted use is non-consumptive, so there is not expected to be a resulting stream depletion signal.
- 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: NA ☐ Minimal ☐ Significant  
Stream: NA ☐ Minimal ☐ Significant  
Provide context for minimal/significant impact: NA
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: NA
8. What conditions or other changes in the application are necessary to address any potential issues identified above: \_\_\_\_\_
9. Any additional comments: \_\_\_\_\_



Transfer Map



Hydrograph One: Water Levels Across the Bend Area



Hydrograph Two: Water Level Trend for the Wells in T-14642

