

Groundwater Transfer Review Summary Form

Transfer/PA # T- 14924

GW Reviewer Byron Ebner Date Review Completed: 9/23/2026

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-14924

Applicant Name: Matthew Keegan

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

Reviewer(s): Byron Ebner

Date of Review: 9/21/2026

Date Reviewed by Basin Hydrogeologist and Returned to WRSD: 9/23/2026

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:

T-14924 is the second permit amendment for Permit G-13114. The first permit amendment is T-9433 and a summary of the changes for T-9433 are below followed by a summary of changes associated with the current permit amendment. The period of use for this permit is 3/1 – 9/15.

T-9433: Adds Wells 2 & 3 as APOAs and corrects location description for well 1.

POAs after T-9433

POA number	Well Log ID	Estimated rate (CFS)	Max Rate (CFS)
1	LAKE 2840	2.306	6.92
2	NLOG	2.306	6.92
3	Prop Well	2.306	6.92

T-14924: Proposes to remove POA 2 from the permit and amends POA 3 (LAKE 52528) location to match actual constructed location. POAs 4 (LAKE 52266) and 5 (PROP 880) will be added to the permit. POA 5 is proposed to be constructed 50 ft N of POA 2, effectively replacing it. Additionally, the applicant proposes to alter the construction of POAs 1 & 3 by extending the seal depths to 100 ft BLS and constructing the seal for POA 5 to 100 ft BLS to meet the permit condition requiring that "Groundwater production shall be from no shallower than 100 feet below the land surface".

POAS after T-14924

POA number	Well Log ID	Estimated rate (CFS)	Max Rate (CFS)
1	LAKE 2840	1.73	6.92
3	LAKE 52528	1.73	6.92
4	LAKE 52266	1.73	6.92
5	PROP 880	1.73	6.92

2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
☒ Yes ☐ No Comments: Proposed Well 4 (LAKE 52266) is sealed to 100 feet and sources water from alluvial sediments to the total depth of the well. Proposed Well 5 (PROP 880) has a proposed seal depth of 100 feet and is targeting alluvial sediments at a depth of at least 300 feet, similar to the other drilled wells in this application.
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: All wells with known well reports are completed in the alluvial sediments of the Goose Lake Basin.

 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: LAKE 52528 is closer to LAKE 2851 than the authorized location for POA 3 and the proposed location for POA 5 is moving closer to the POA for Certificate 58667. These reduced distances to nearby groundwater POAs will likely result in an increase in interference.

 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: Drawdown for POAs 3 and 5 were calculated using estimates using the Theis (1940) equation. Transmissivity values used in this estimate range from 3400 – 9080 ft²/day were taken from a pump test from nearby well, LAKE 2851, and from Morgan (1988). The storage coefficient used, 0.0007, was taken from Morgan (1988). A maximum rate of 6.92 CFS was used for 183 days of continuous pumping to provide a conservative estimate of drawdown.

The constructed location for LAKE 52528 is 300 ft closer to LAKE 2851 than the authorized location for POA 3 and results in an additional 1.9 ft of estimated drawdown in affected well. The proposed location for POA 5 is 50 ft closer to the POA for Certificate 58667 and results in an additional 0.58 ft of estimated drawdown in the affected well. This relatively small increase in drawdown would likely not cause injury to nearby groundwater rights and isn't expected to meet the definition of substantial or undue interference.

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: Crane Creek is diverted through this property via canals that run south, west, and northwest. The changes to POAs (POAs 3 & 5) and proposed APOA (POA 4) are all moving further from the diversions of Crane Creek. Additionally, the applicant is proposing to seal every POA down to 100 ft BLS, which would further isolate the more productive, deeper portion of the alluvial aquifer. While withdrawing water from the deeper portion of the alluvial aquifer will not fully eliminate streamflow depletion, the presence of fine sediments between the two water bearing zones may act as a buffer and reduce the impact to surface water sources that are in more direct contact with the shallower water bearing zones.

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: _____

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: _____

8. What conditions or other changes in the application are necessary to address any potential issues identified above: _____

9. Any additional comments: Annual water use reporting is required by Permit G-13114. Water use under this permit has not been reported to the Department since 2022.

References

Files for T-9433, T-14924, Permit G-13114 and Application G-19363

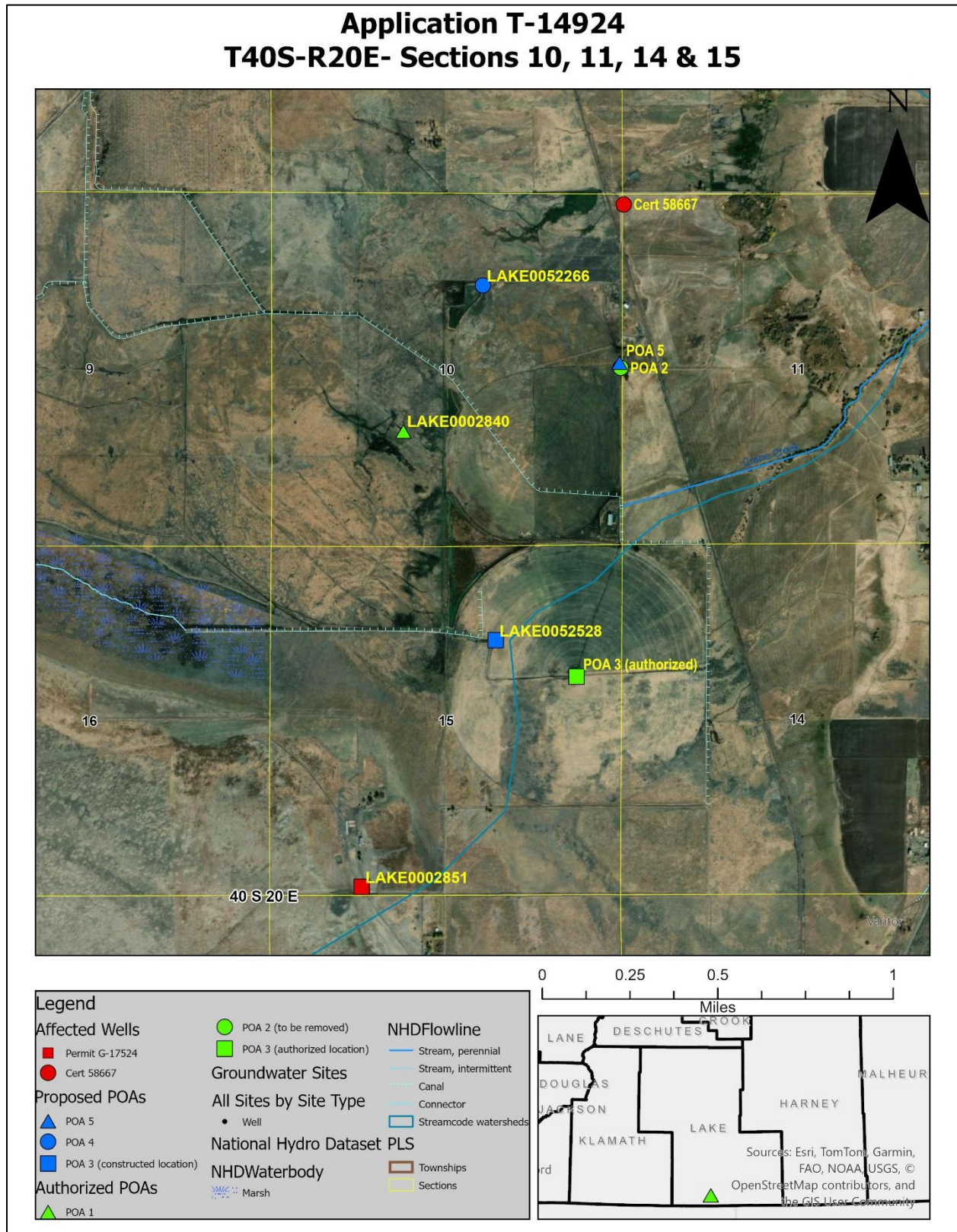
Morgan, D. S. (1988). Geohydrology and numerical model analysis of ground-water flow in the Goose Lake Basin, Oregon and California. In *Water-Resources Investigations Report* (USGS Numbered Series WRIR 87-4058; Water-Resources Investigations Report, p. 92). U.S. Geological Survey,. GW Library (B4). <https://doi.org/10.3133/wri874058>

Theis, C. V. (1940). The Source of Water Derived from Wells Essential Factors Controlling the Response of an Aquifer to Development. *American Society of Civil Engineers*, p. 277-280

OWRD Well Report Query: https://apps.wrd.state.or.us/apps/gw/well_log/Default.aspx

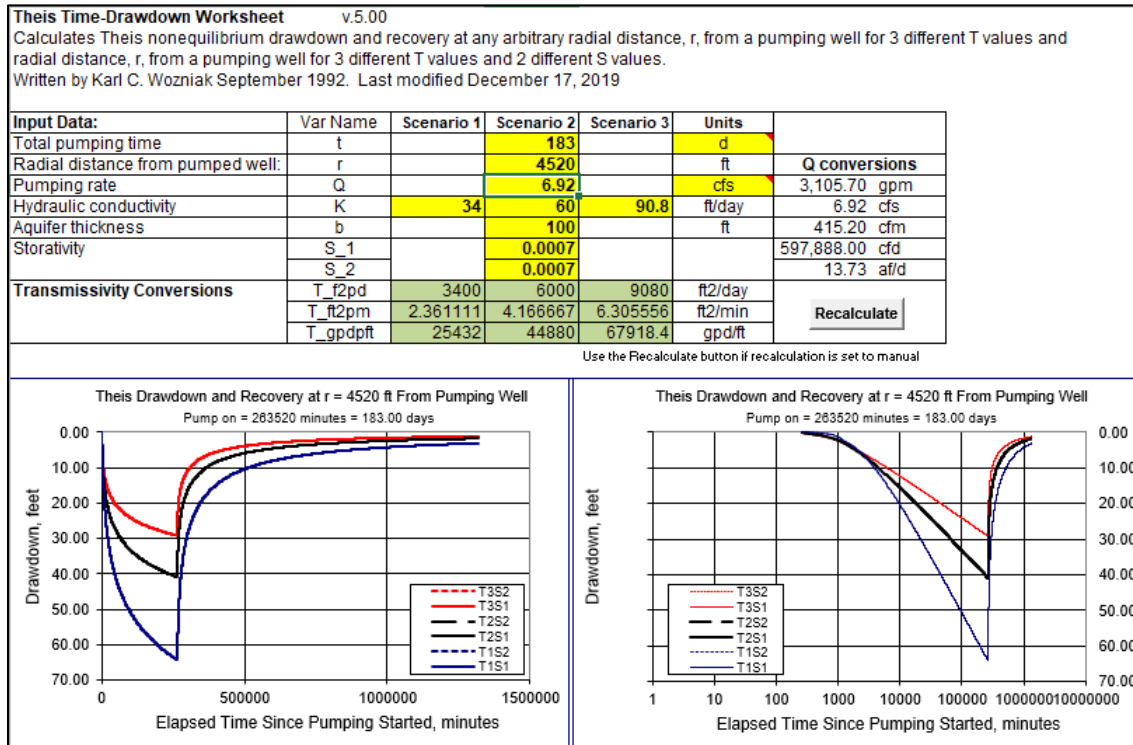
Pump Test for LAKE 2851

Map



Calculated Drawdown

LAKE 52528 pumping effects on LAKE 2851



POA 5 pumping effects on Certificate 58667 POA

