

Groundwater Transfer Review Summary Form

Transfer/PA # T- 14781

GW Reviewer Byron Ebner Date Review Completed: 1/26/2026

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-14781

Applicant Name: Kittredge Properties LLC

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

Reviewer(s): Byron Ebner

Date of Review: 1/23/2026

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: Proposed changes to GR-1500:

Transferring 96.21 acres, 60.79 acres to unused pivot in T26S-R15E Section 8, and the remaining 35.42 acres to be redistributed to current authorized pivot in a thinner outer rim in T26-R15E Sections 16 and 17. Additionally, the applicant requests to transfer the authorized POA to two proposed POAs in Sections 8 and 17.

Authorized POA: LAKE 406

Proposed POA 1: LAKE 4384 (0.34 miles NW of authorized POA)

Proposed POA 2: LAKE 388 (1.74 miles NW of authorized POA)

2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
☒ Yes ☐ No Comments: Groundwater in the Fort Rock/Christmas Valley area, also referred to as the Fort Rock Classified Area, is viewed as a single flow system. Groundwater is found in both the overlying basin fill sediment as well as the underlying unit, which is predominantly volcanic rock, and occurs in "confined, unconfined and perched conditions that reflect local variations in permeability of overlying rocks" (Miller, 1984). Miller (1984) also notes that groundwater in the Fort Rock Basin consists of "numerous water producing zones in several formations" that generally have common potentiometric level and are very transmissive. These units are all capable of yielding groundwater and are viewed as hydraulically connected to one another.
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: One source developed.
- 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 POAs (LAKE 388 & LAKE 4384) are moving closer to LAKE 389, which is a POA for Certificate No. 53860.
- 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: LAKE 4384 is 6580 ft away from LAKE 389 and LAKE 388 is 5870 ft from LAKE 389. Estimated drawdown from the requested changes was calculated using the Theis equation (attached below) for the projected pumping from the authorized POA, proposed APOA and the affected well using an intermediate storage coefficient of 0.001 and transmissivity of 15,000 ft²/day (McFarland and Ryals, 1991), and assuming constant use at max rate. Using these conservative parameters, maximum drawdown is estimated to be 3.89 ft from LAKE 4384, 4.06 ft from LAKE 388, and 8.69 ft from the affected well which would total of 16.64 ft of drawdown in the affected well, which would not meet the standard 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: Proposed POA is moving further away from perennial surface water sources in the area such as Paulina Marsh and Silver Lake.
- 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: _____

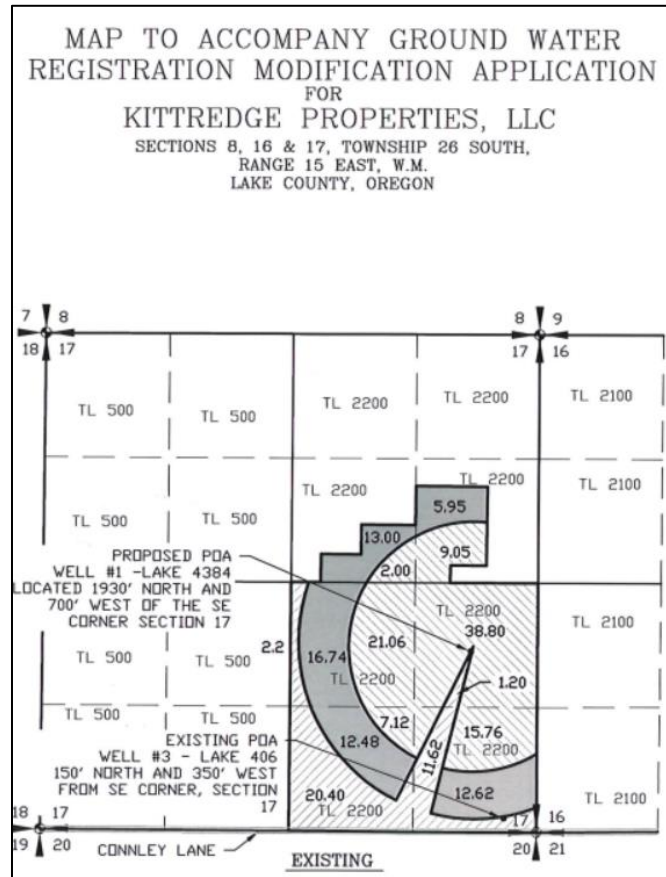
☐ Minimal ☐ Significant

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: The applicant is proposing to transfer 60.79 acres to a pivot that is reported as “not in use”, but satellite imagery from 7/22/2023 suggests that this pivot was being watered in 2023. Imagery from 5/14/2020 shows an unused pivot. Based on this, water was applied to the proposed POU between 5/14/2020 and 7/22/2023.



Additionally, applicant is requesting to transfer places of use from the SW pivot corner totaling 35.42 acres (map and screenshots below) to within the pivot that seemingly haven't had water applied since 1985 according to satellite imagery from Google Earth. Transferring this POU to the new pivot may result in enlargement and should be reviewed by the watermaster. Imagery from 1985, 1994, 2000, 2003, 2005, 2006, 2011, 2012, 2014, 2020 and 2023 shows possible nonuse for that portion of GR-1500.



T-14781 Application Map



2020 imagery (Google Earth)



2014 imagery (Google Earth)



1985 imagery (Google Earth)

References

Application T-14781 file

Google Earth

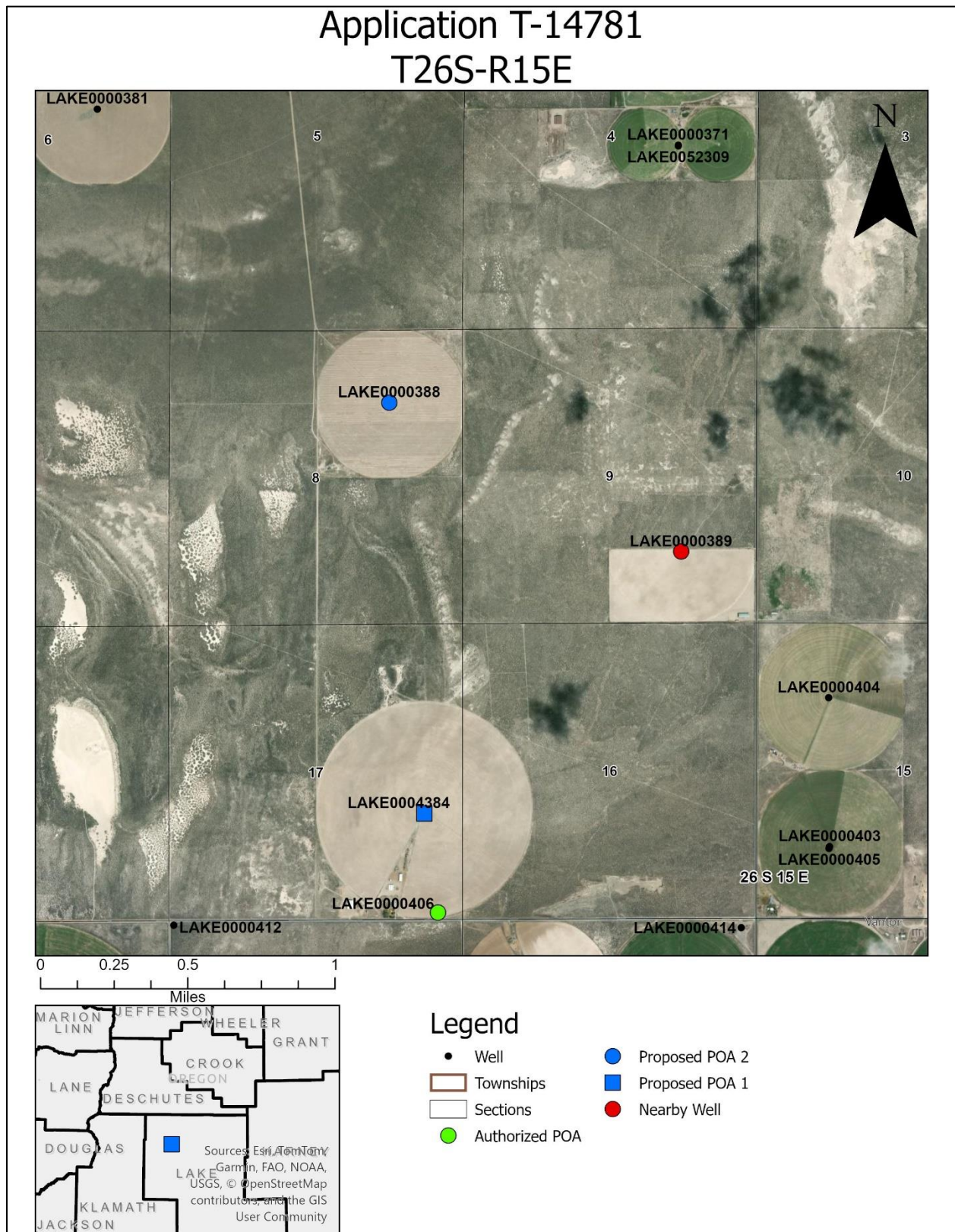
McFarland, W. D., & Ryals, G. N. (1991). Adequacy of available hydrogeologic data for evaluation of declining ground-water levels in the Fort Rock Basin, south-central Oregon. In *Water-Resources Investigations Report* (B4; USGS Numbered Series Nos. 89–4057; Water-Resources Investigations Report, p. 47). U.S. Geological Survey ; Books and Open-File Reports Section [distributor],; GW Library. <https://doi.org/10.3133/wri894057>

Miller, D. (1984). *Appraisal of Ground Water Conditions in the Fort Rock Basin, Lake County, Oregon*. Retrieved October 30, 2020, from <https://www.oregon.gov/owrd/wrdreports/OpenFileAppraisalofGWConditionsFortRockBasin1984.pdf>

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

OWRD Water Right Information Search Query: <https://apps.wrd.state.or.us/apps/wr/wrinfo/>

T-14731 & T-14780 Reviews

T-14781 Map

Drawdown from Proposed POA 1**Theis Time-Drawdown Worksheet v.5.00**

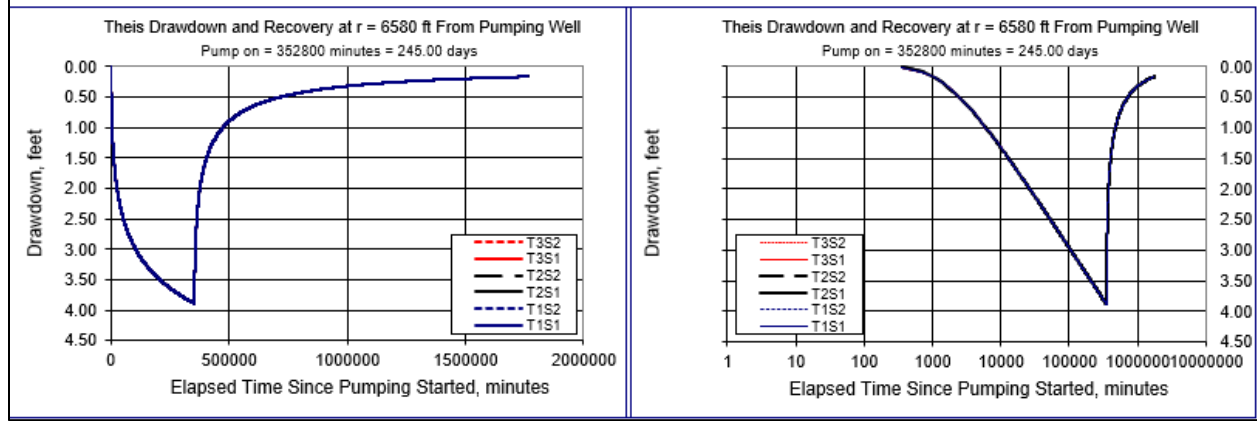
Calculates Theis nonequilibrium drawdown and recovery at any arbitrary radial distance, r , from a pumping well for 3 different T values and radial distance, r , from a pumping well for 3 different T values and 2 different S values.

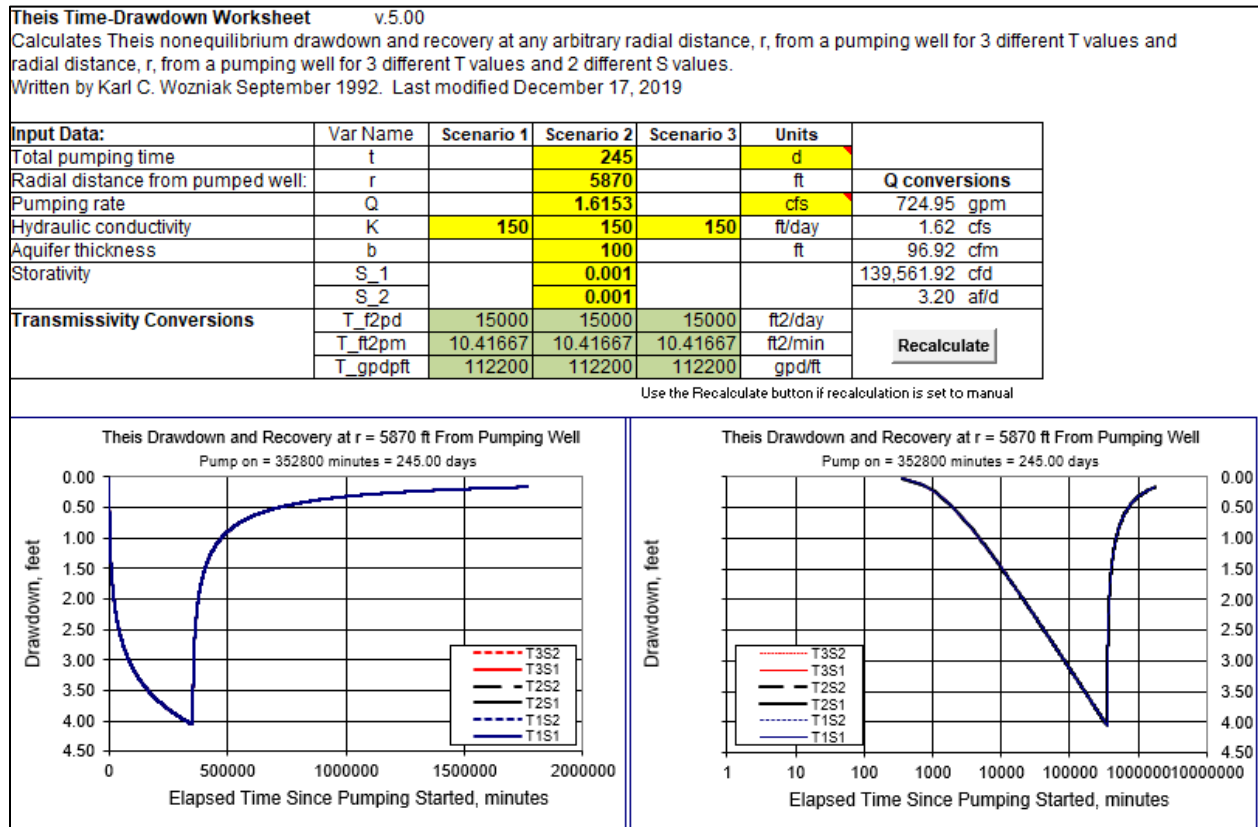
Written by Karl C. Wozniak September 1992. Last modified December 17, 2019

Input Data:	Var Name	Scenario 1	Scenario 2	Scenario 3	Units	
Total pumping time	t		245		d	
Radial distance from pumped well:	r		6580		ft	Q conversions
Pumping rate	Q		1.6153		cfs	724.95 gpm
Hydraulic conductivity	K	150	150	150	ft/day	1.62 cfs
Aquifer thickness	b		100		ft	96.92 cfm
Storativity	S_1		0.001			139,561.92 cfd
	S_2		0.001			3.20 af/d
Transmissivity Conversions	T_ft2pd	15000	15000	15000	ft2/day	
	T_ft2pm	10.41667	10.41667	10.41667	ft2/min	
	T_gpdft	112200	112200	112200	gpd/ft	

Recalculate

Use the Recalculate button if recalculation is set to manual



Drawdown from Proposed POA 2

Drawdown from nearby affected well