

Groundwater Transfer Review Summary Form

Transfer/PA # T- 14661

GW Reviewer Byron Ebner Date Review Completed: 6/25/2025

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-14661

Applicant Name: Dinsdale Farm & Equipment LLC

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

Reviewer(s): Byron Ebner

Date of Review: 6/23/2025

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 _____

-
1. Basic description of the changes proposed in this transfer: Transfer to replace collapsed well. From POA- LAKE 4379 (Deepening Log: LAKE 394). To-POA: not yet constructed. Proposed well location is 50 ft east of current POA. The authorized and proposed well are in the Fort Rock Classified Area. Certificate 48736: Primary Water Right for 123.8 acres. Rate = 1.55 CFS, Duty = 3 AF/acre.
 2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
☒ Yes ☐ No Comments: From POA (LAKE 4379) has been deepened into the basalt below the alluvium in the Fort Rock Valley and is completed in the Fort Rock Formation, which is thought to be as thick as 1500 ft in the area (McFarland & Ryals, 1991).
 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: From-POA (LAKE 4379) was sealed 35 feet deep into gray clay with 14" casing extended 80 ft deep with multiple unconsolidated formations present until basalt (and water) was encountered at 130 ft and well was completed to a depth of 161 ft. From-POA was then deepened (LAKE 394) to a depth of 285 ft. Pre and post deepening, the SWL of the well was 20 ft BLS. LAKE 393 is a 85 ft deep nearby stock well with 13 in casing set 6 ft below land surface and a measured SWL of 24 ft BLS on 3/23/1951. This well indicates that there is some water from alluvial formations (fine black sand) but does not include additional formations or well test information. The noted static water level for this well completed in the alluvium is similar to deeper wells completed in the Fort Rock Formation, such as LAKE 504, which was drilled to 1480 ft with a SWL of 32 ft BLS. According to McFarland & Ryals (1991), in general, wells in the basin are completed in multiple formations and all formations have similar potentiometric levels.

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: To-POA is moving further away from wells Certificate 47720, 47721, and 47723 POAs. To-POA is moving closer to Certificate 47722, 92116, 61539, and 61538 POAs. The applicant is the landowner associated with Certificates 47720, 47721, 47723, 47722, and 92116.

From-POA is 5891 ft and To-POA is 5867 ft away from Certificate 92116 POA. From POA is 7478 ft and To-POA is 7442 away from Certificate 47722 POA. From-POA is 8437 and To-POA is 8388 ft from Certificate 61539 POA. From-POA is 8937 ft and To-POA is 8895 ft from Certificate 61538 POA.

Assuming constant use at max rate for 245 days, the drawdown associated would likely result in marginal increases in drawdown for Certificates 92116, 47722, 61539, and 61538 since the To-POA is moving closer to the POAs for those certificates. Using the most conservative parameters, simulated increase in drawdowns associated with this change in POA will be less than 0.1 ft. LAKE 504 shows a record of measurements from 1985 to 2017 with a 0.4 ft/yr decline. Additionally, the To-POA will only be located 50 ft east of the existing From-POA, so increased impact to nearby wells should be minimal with a very low risk of injury. Hydraulic parameters used in drawdown analysis taken from McFarland and Ryals (1991).

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: _____

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: POA is moving further away from closest perennial streams. Silver Creek is over 10 miles away from POAs.

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:

References:

- Application T-14661 File
- Well Reports LAKE 4379, LAKE 504, LAKE 394, LAKE 393
- Hydrograph for LAKE 504
- Walker, G.W., (1977). Geologic Map of Oregon East of the 121st Meridian. In *Miscellaneous Investigations Series Map I-902*. U.S. Geological Survey
- 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. W. (1986). *Ground Water Conditions in the Fort Rock Basin, Northern Lake County, Oregon* (A3; No. 31; Ground Water Report, p. 196). Oregon Water Resources Department; GW Library.

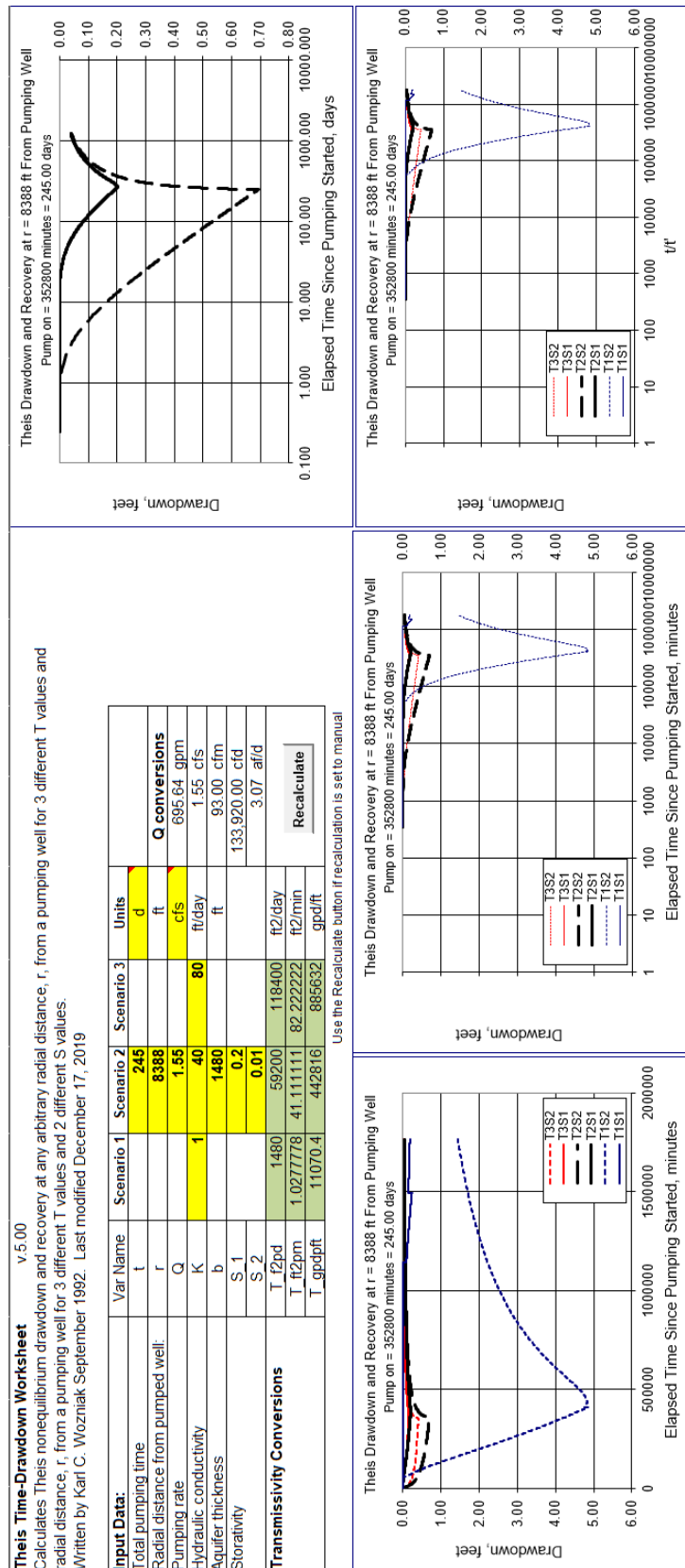


Figure 1: Drawdown simulation for Certificate 61539 using hydraulic parameters from McFarland & Ryals, 1991

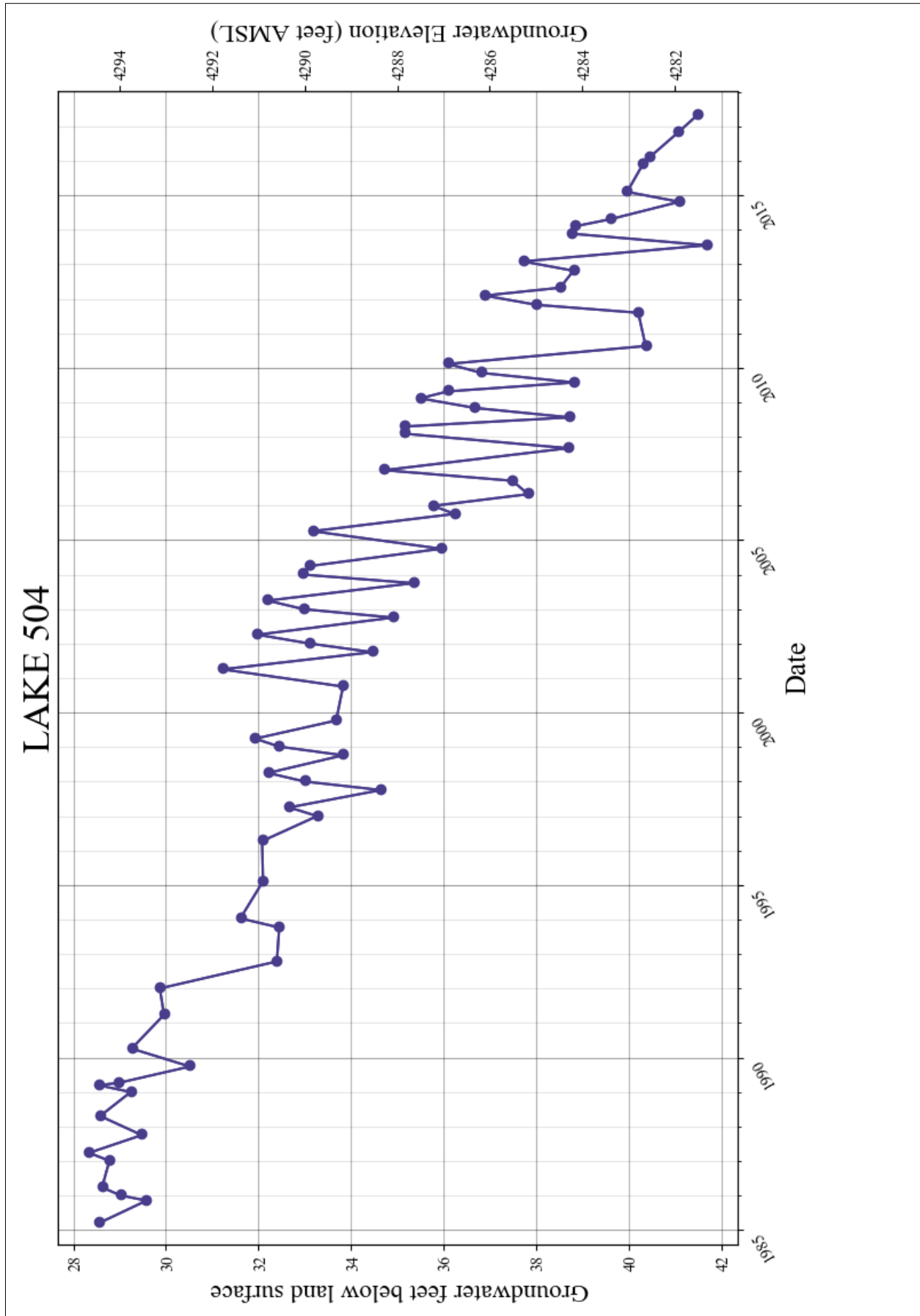
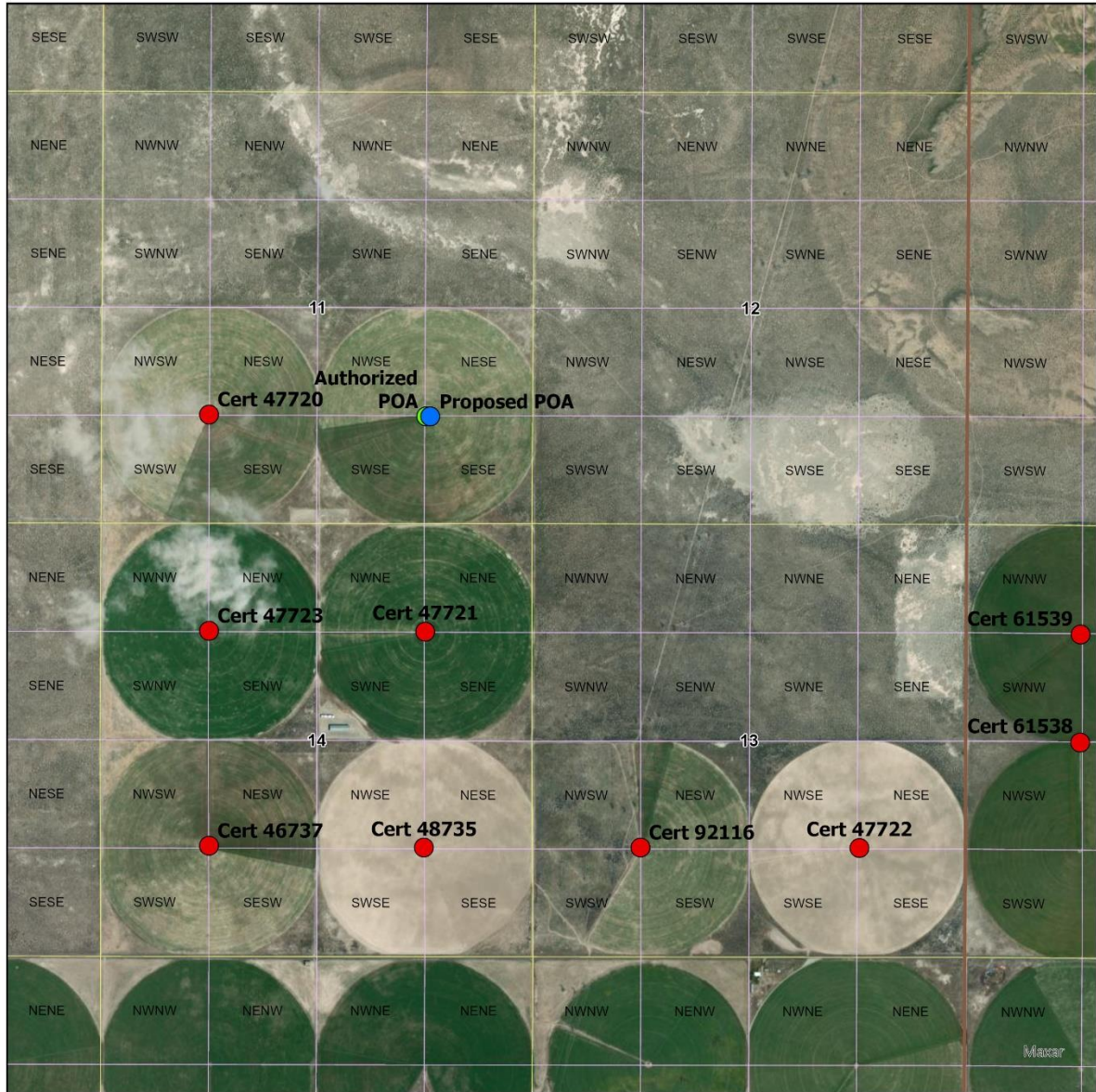


Figure 2: Hydrograph for LAKE 504

Figure 3: Map of Application T-14661

Application T-14661 (T26S-R15E, Section 11)



- Nearby Irrigation POAs
- Proposed POA
- Authorized POA
- Townships
- Sections
- Quarter quarters

