

Groundwater Transfer Review Summary Form

Transfer/PA # T- 14913

GW Reviewer Aaron Orr Date Review Completed: 8/25/2026

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-14913

Applicant Name: Fessler Nursery / Marvin Fessler

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

Reviewer(s): Aaron Orr

Date of Review: 8/25/2026

Date Reviewed by GW Lead and Returned to WRSD: Travis Brown, 8/27/2026

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: Applicant proposes adding two additional wells, "Well 1" (MARI 2172, 65100) and "Well 6" (MARI 58521) to Certificate 65931 with the existing POA, "Well 3" (MARI 2170). The proposed APOAs are also permitted for use under G-15676.

2.

Duties	Well 1 (MARI 2172) & Well 6 (MARI 58521)
T-14913 (this transfer: Cert 65931)	39.6 acres + 10.7 acres
G-15676	26.28 acres
Total Acres	76.58 acres
T-14913 (this transfer: Cert 65931)	125.75 acre-feet
G-15676	65.7 acre-feet
Total Volume	191.45 acre-feet
T-14913 (this transfer: Cert 65931)	0.63 cfs
G-15676	0.36 cfs
Total Rate	0.99 cfs
Max duration @ total rate + total volume	96.5 days

3. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
☒ Yes ☐ No Comments: The authorized POA is completed in multiple water-bearing zones within the Willamette Aquifer, and is open to the Middle Sedimentary Unit and Lower Sedimentary Unit (Gannett and Caldwell, 1998; Conlon et al., 2005). Based on unit thicknesses modified from Gannett and Caldwell, 1998, the proposed POA Well 1 (MARI 2172) develops the Middle Sedimentary Unit, and the proposed POA Well 6 (MARI 58521) develops the Lower Sedimentary Unit. Therefore, the APOAs are completed in the same aquifer as the authorized POA, Well 3 (MARI 2172).
4. a) Is the existing authorized POA subject to a water level decline condition?
☐ Yes ☒ No Comments: Only the proposed APOAs are subject to a water level decline condition under Permit G-15676.
- 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: N/A
5. a) Is there more than one source developed under the right (e.g., basalt and alluvium)?
☐ Yes ☒ No Comments: The authorized POA is completed 10-feet into basalt, but in similar scenarios in the Willamette Valley the uppermost, weathered basalt at the contact of the sedimentary system has been considered part of the alluvial aquifer system.
- 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.): N/A

6. 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 nearest groundwater right not owned by the applicant is MARI 2023 (Certificate 36305). Well 6 (MARI 58521) is 700 feet closer to MARI 2023 than the authorized POA. Well 1 (MARI 2172) and the authorized POA are the same distance from MARI 2023.

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: Due to the relatively low transmissivity calculated from the pump test at Well 1 (MARI 2172), increasing the pumping rate from 0.36 cfs to 0.99 cfs increases drawdown-interference at MARI 2023 such that there is a high probability of dewatering the well at the maximum allowable rate and duration (96.5 days) based on a total volume of 191.45 acre-feet. MARI 2023 is assumed to have ~200 feet of water column, and low-storativity modeling scenarios indicate this would be drawn down after pumping the maximum rate for the maximum duration at MARI 2172.

7. 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: No significant increase in interference with another surface water source is expected.

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: N/A

8. 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?

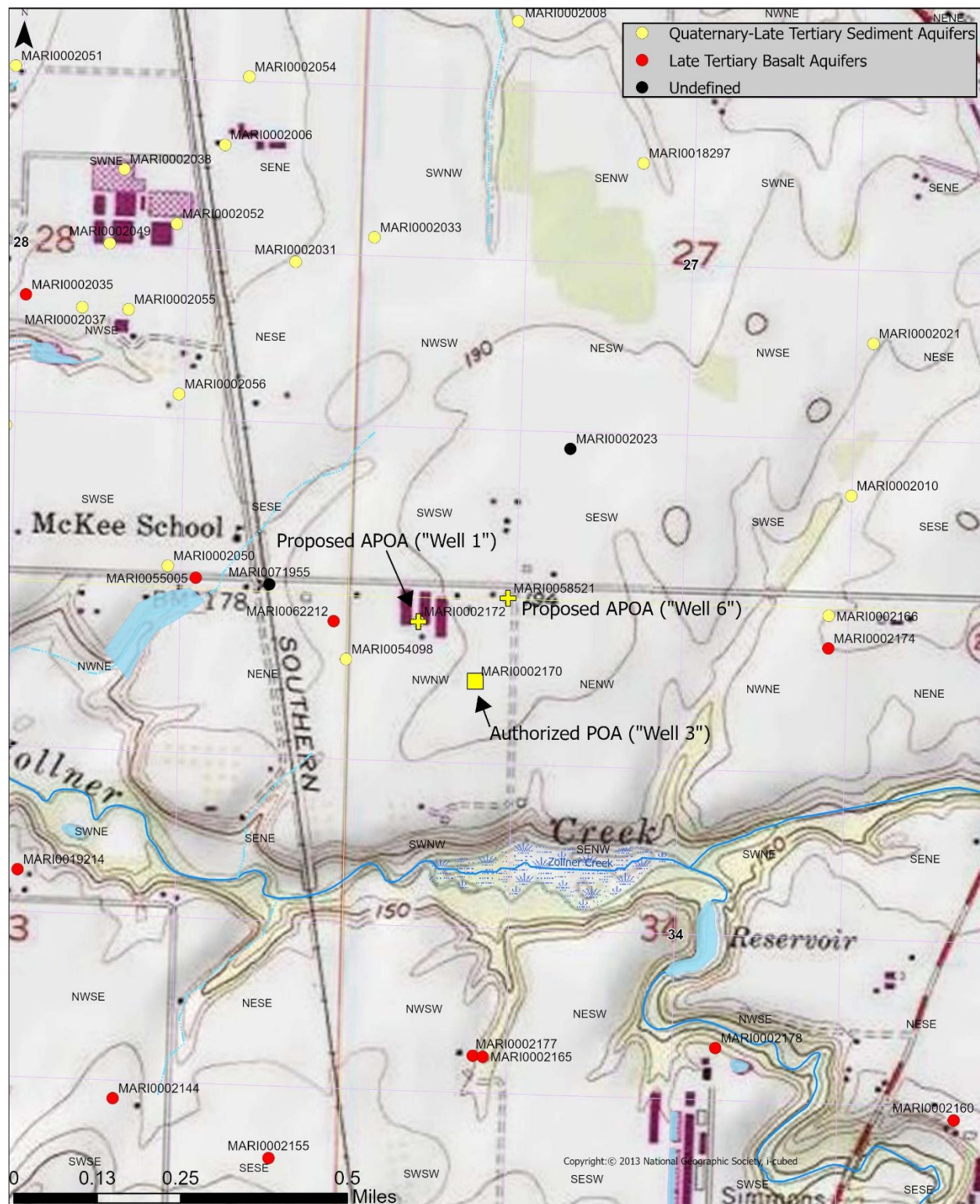
☐ Yes ☐ No Comments: N/A

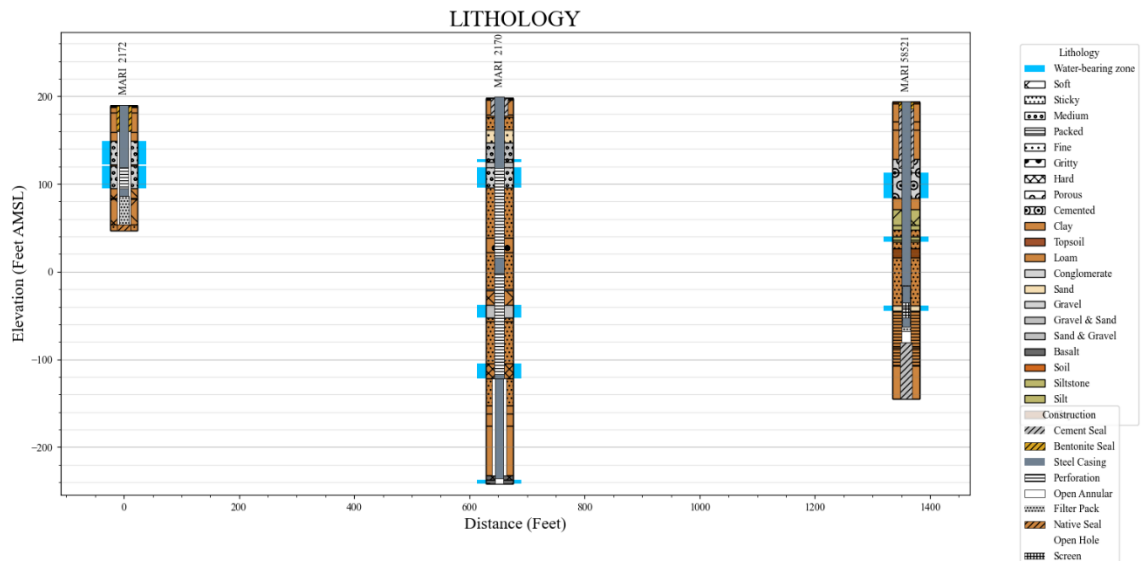
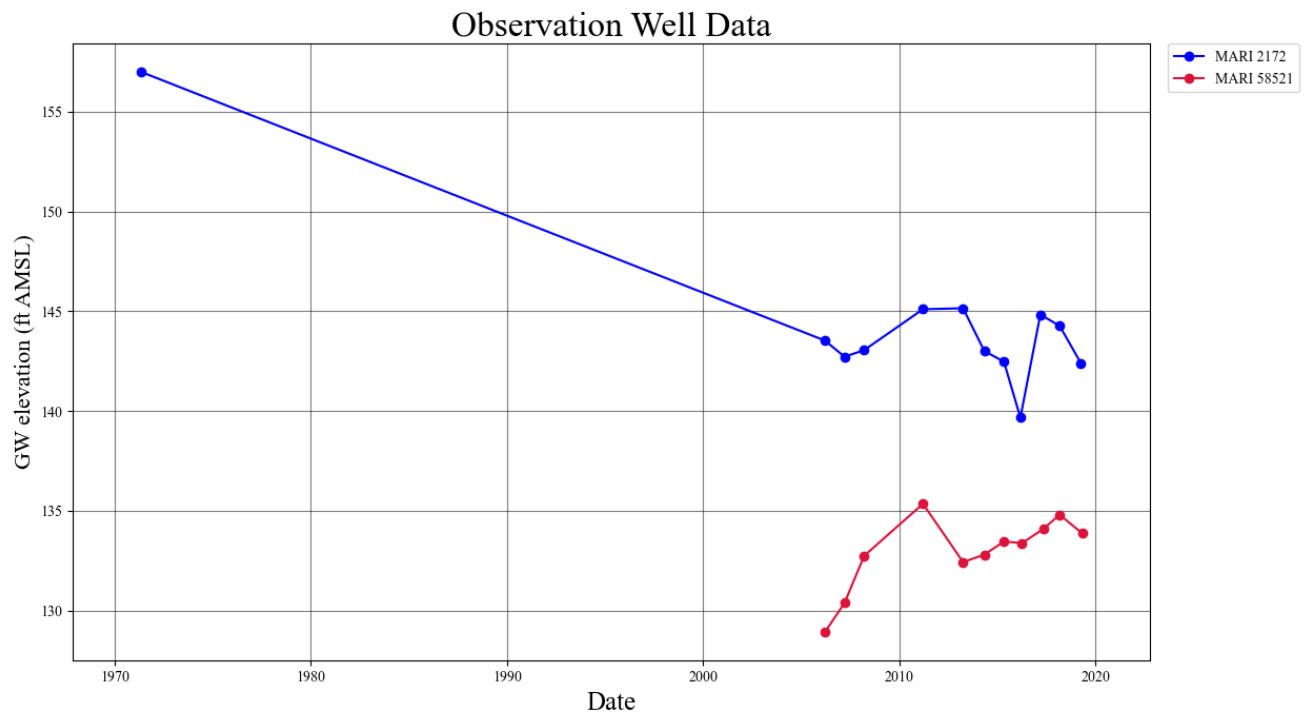
9. What conditions or other changes in the application are necessary to address any potential issues identified above: _____

10. Any additional comments: _____

Map

T-14913

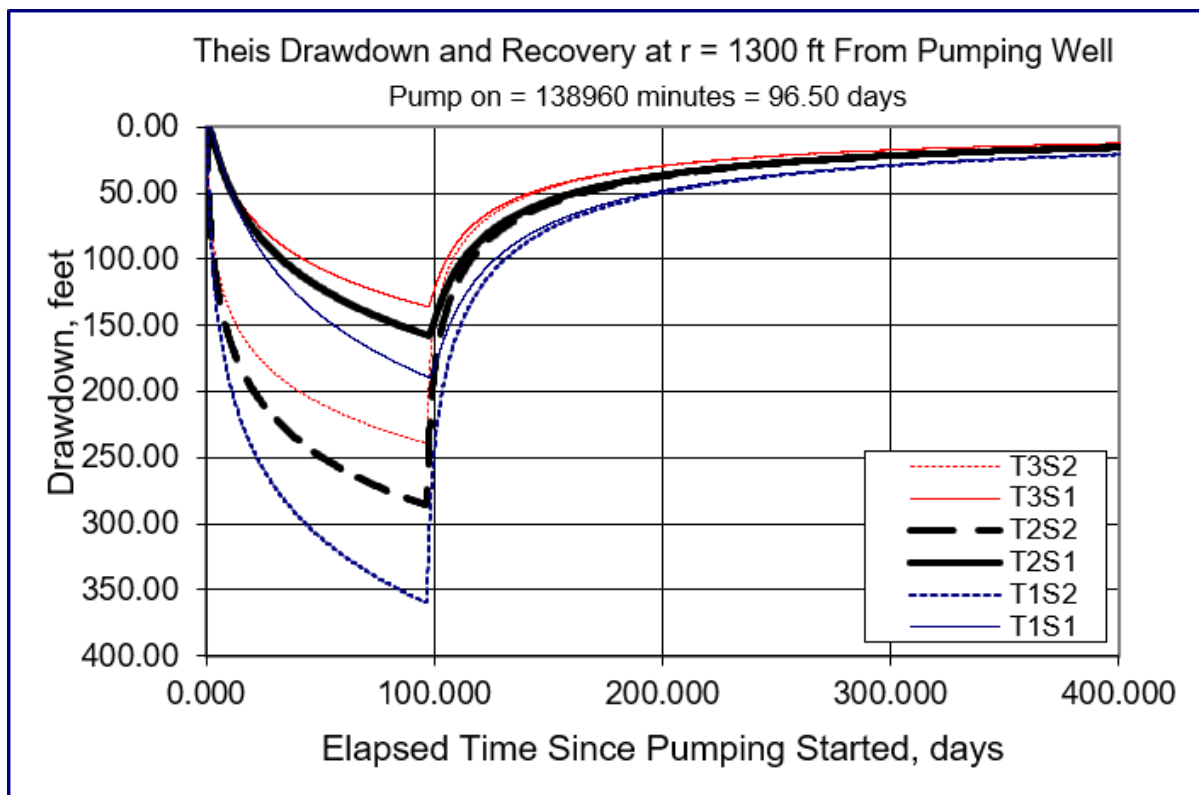


Well Lithology**Hydrograph (annual Spring high) for APOAs**

Interference Analysis (Theis)

Note that the combined authorized rate of 0.99 cfs can only be sustained for 96.5 days before reaching the maximum combined volume of 191.45 acre-feet. Transmissivity values are from the pump test performed at MARI 2172.

Input Data:	Var Name	Scenario 1	Scenario 2	Scenario 3	Units
Total pumping time	t		96.5		d
Radial distance from pumped well:	r		1300		ft
Pumping rate	Q		0.99		cfs
Hydraulic conductivity	K	0.9	1.2	1.5	ft/day
Aquifer thickness	b		100		ft
Storativity	S_1		0.001		
	S_2		0.0001		
Transmissivity Conversions	T_f2pd	90	120	150	ft ² /day
	T_ft2pm	0.0625	0.0833333	0.104167	ft ² /min
	T_gpd/ft	673.2	897.6	1122	gpd/ft



References

Conlon et al., 2005, Ground-Water Hydrology of the Willamette Basin, Oregon, Scientific Report 2005-5168, USGS.

Gannett and Caldwell, 1998, Geologic Framework of the Willamette Lowland Aquifer System, Oregon and Washington, USGS Professional Paper 1424-A.

Woodward et al., 1998, Hydrogeologic Framework of the Willamette Lowland Aquifer System, Oregon and Washington, USGS Professional Paper 1424-B.