

Groundwater Transfer Review Summary Form

Transfer/PA # T- 14580 (RA)

GW Reviewer Stacey Garrison Date Review Completed: 2/10/2025

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-14580

Applicant Name: Jensen Family LLC c/o Mark Tribbett

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

Reviewer(s): Stacey Garrison

Date of Review: 2/10/2025

Date Returned to WRSD: 2/11/2025

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 to add three APOAs to **Certificate 42225**: APOA 2/Well 2 (**PROP 608**), APOA 3/Well 3 (**PROP 609**), APOA 4/Well 4 (**MARI 4749**). The authorized POA on **Certificate 42225** is POA 1/Well 1 (**MARI 6493**), which is authorized to irrigate 42.6 ac at a maximum rate of 0.53 cfs (238 gpm) and a maximum annual volume of 106.5 acre-feet/year. All four POAs are authorized or proposed to be authorized under other transfers: **T-13599** approved on 12/12/2024 added APOA 2/Well 2 (**PROP 608**) and APOA 3/Well 3 (**PROP 609**) to **Claim GR-2579** to irrigate 78.7 ac with a maximum annual duty of 196.75 acre-feet/year* and maximum flow of 1.06 cfs (476 gpm); pending **T-14581** proposes to add POA 1/Well 1 (**MARI 6493**), APOA 2/Well 2 (**PROP 608**), and APOA 3/Well 3 (**PROP 609**) to **Claim GR-859** with authorized POA APOA 4/Well 4(**MARI 4749**) for irrigation of 80 ac with a maximum annual duty of 200 acre-feet/year* and maximum flow rate of 0.7442 cfs (336 gpm). The total maximum combined rates will be used and are summarized in the table below.

Rates and Duties		POA			
		Well 1/POA 1 (MARI 6493)	Well 2/APOA 2 (PROP 608)	Well 3/APOA 3 (PROP 609)	Well 4/APOA 4 (MARI 4749)
POU (ac)	This transfer, T-14580/Certificate 42225	42.6	42.6	42.6	42.6
	Claim GR 2579 per T-13599	NA	78.7	78.7	NA
	Claim GR 859/T-14581	80	80	80	80
	Total	122.6	201.3	201.3	122.6
Authorized duty (AF/year)	This transfer, T-14580/Certificate 42225	106.5	106.5	106.5	106.5
	Claim GR 2579 per T-13599*	NA	196.75	196.75	NA
	Claim GR 859/T-14581*	200	200	200	200
	Total	306.5	503.25	503.25	306.5
Flow rate CFS (gpm)	This transfer, T-14580/Certificate 42225	0.53 cfs (238 gpm)	0.53 cfs (238 gpm)	0.53 cfs (238 gpm)	0.53 cfs (238 gpm)
	Claim GR 2579 per T-13599	NA	1.06 cfs (476 gpm)	1.06 cfs (476 gpm)	NA
	Claim GR 859/T-14581	0.7442 cfs (336 gpm)	0.7442 cfs (336 gpm)	0.7442 cfs (336 gpm)	0.7442 cfs (336 gpm)
	Total	1.2742 CFS (574 GPM)	2.3342 CFS (1,050 GPM)	2.3342 CFS (1,050 GPM)	1.2742 CFS (574 GPM)

*Maximum annual volume as authorized duty per acre not described in Claim GR-2579 or Claim GR-859. Standard maximum duty for Willamette Basin of 2.5 AF/ac/year is applied here.

2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?

☒ Yes ☐ No

Comments: The authorized well, POA 1/Well 1 (MARI 6493), is completed to a depth of 185 ft [27 ft amsl] with a static water level, SWL, of 39 ft bls [173 ft amsl] and utilizes the Middle Sedimentary Unit of the Willamette Aquifer, consisting of slightly to moderately consolidated Pleistocene sands and gravels (Gannett and Caldwell, 1998; Conlon et al., 2005). The constructed APOA, APOA 4/Well 4 (MARI 4749), is completed to a depth of 147 ft [52 ft amsl] with a SWL of 25 ft bls [174 ft amsl]. The proposed APOAs, APOA 2/Well 2 (PROP 608) and APOA 3/Well 3 (PROP 609), are anticipated to be completed to a depth of 200 ft [12 ft and 1 ft amsl, respectively]. The Willamette Aquifer is between 100 and 120 ft thick and overlain by 80 ft of fine-grained, low permeability Willamette Silt Gannett and Caldwell, 1998; MARI 4750 and MARI 6489). The three APOAs are anticipated to produce from the same aquifer is the authorized POA.

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: NA

4. a) Is there more than one source developed under the right (e.g., basalt and alluvium)?

☐ Yes ☒ No

Comments: Only the alluvial source is 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.): 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: Proposed APOA 3/Well 3 (PROP 609) is ~750 ft northwest of MARI 6489, a POA on Certificate 47840 with priority date 5/23/1973. The authorized POA/POA 1 (MARI 6493) is ~1956 ft southwest of MARI 6489. The reduced distance is anticipated to increase interference with MARI 6489.

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 maximum drawdown produced by APOA 3/Well 3 (PROP 609) is not anticipated to result in MARI 6489 not receiving the water to which it is legally entitled.

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 APOA 3/Well 3 (PROP 609) is ~1680 ft northwest of Howell Prairie Creek. The authorized POA/POA 1 (MARI 6493) is ~2300 ft west Howell Prairie Creek. The reduced distance is anticipated to increase interference with Howell Prairie Creek.

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: Howell Prairie Creek ☒ Minimal ☐ Significant

Provide context for minimal/significant impact: The Willamette Aquifer in this area is overlain by about 80 ft of the Willamette Silt Unit (WSU). Howell Prairie Creek is partially incised into the WSU and appears to be underlain by about 40-50 ft low permeability sediments from the WSU. Given the confined nature of the aquifer and presence of a thick sequence of low permeability sediments, interference with surface water sources is assumed to be minimal.

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: NA

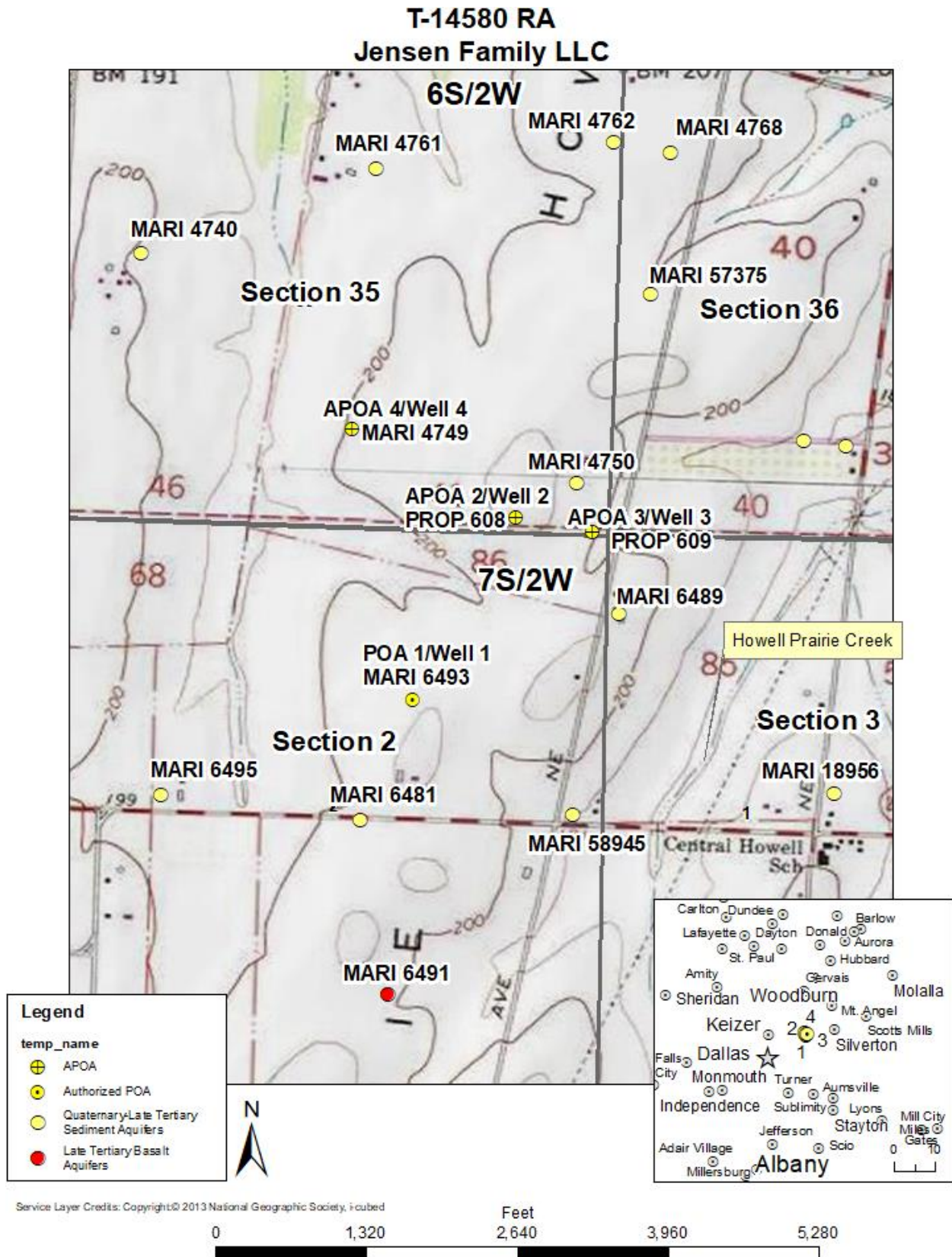
9. Any additional comments: _____

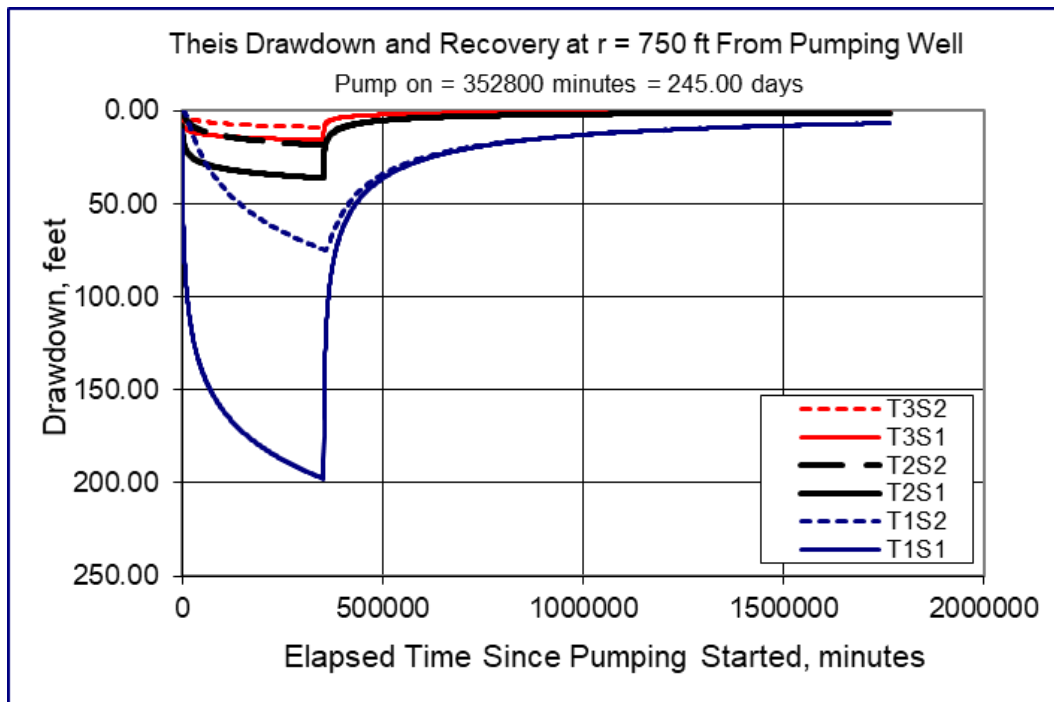
References

Transfer File: T-14581, Certificate 42225, T-13599, Claim GR 2579, T-14851, Claim GR 859

Conlon, T.D., Wozniak, K.C., Woodcock, D., Herrera, N.B., Fisher, B.J., Morgan, D.S., Lee, K.K., and Hinkle, S.R., 2005, Ground-water hydrology of the Willamette Basin, Oregon, Scientific Investigations Report 2005-5168: U. S. Geological Survey, Reston, VA.

O'Connor, J.E., Sarna-Wojcick, A., Wozniak, K.C., Polette, D.J., Fleck, R.J., 2001, Origin, Extent, and Thickness of Quaternary Geologic Units in the Willamette Valley, Oregon; U.S. Geological Survey, Professional Paper 1620, 51 p.

Map

Injury Analysis

Radial distance from pumping well (r)=750 ft [estimated radial distance to nearest user, MARI 6489]

Pumping Rate (Q)= 1.0356 cfs (~464.78 gpm)*

Aquifer Transmissivity (T1)= 1,497 gpd/ft (200 ft²/day), (T2)= 4,115 gpd/ft (550 ft²/day), (T3)= 32,060 gpd/ft (4,286 ft²/day)

Storativity (s1) = 0.0003, (s2) = 0.02 [Conlon et al 2005, Table 1 values for MSU]

Total pumping time= 245 days [March 1-October 31]

*The full pumping rate could not be utilized continuously for the entire 245-day period of use without exceeding the 503.25 ac-ft maximum allowed duty. For the maximum allowed duty of 503.25 ac-ft, continuous pumping would occur for 245 days at a rate of 1.0356 cfs (~464.78 gpm)

	208	ft amsl	elevation
SWL	35	ft bls	MARI 6489
Aquifer Bottom	200	ft bls	Gannett & Caldwell 1998 (MARI 6489 is 195 ft depth, essentially fully penetrates the aquifer)
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Available Water			
Column	165	ft	Aquifer Bottom - SWL
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Pump Height Above			
Bottom	5	ft	Estimate
NPSHa	5	ft	Estimate
			Driscoll estimate, Drawdown=Pumping Rate/Specific Capacity.
			For Cert 47840, rate is 0.84 cfs (377 gpm). From MARI 6489
			well log, drawdown at 400 gpm was 66 ft and at 540 gpm was
			95 ft for specific capacity of 6.06 and 5.68, respectively.
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Minimum Water			
Column	76	ft	Estimated Drawdown + NPSHa + Pump Height
Injury	89	ft	Available Water Column-Minimum Water Column