

Groundwater Transfer Review Summary Form

Transfer/PA # T- 14379

GW Reviewer Grayson Fish Date Review Completed: 11/5/2024

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.



Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1271
(503) 986-0900
www.wrd.state.or.us

Ground Water Review Form:

- ☒ **Water Right Transfer**
☐ **Permit Amendment**
☐ **GR Modification**
☐ **Other**

Application: T-14379

Applicant Name: J Spear Ranch Co

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

Reviewer(s): Grayson Fish

Date of Review: 11/5/2024

Date Returned to WRSD: 11/5/2024

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: The applicant proposes to add two additional APOAs (LAKE 1711 and LAKE 1724) to three separate Certificates (97275, 97276, and 97227). Currently authorized POAs on the Certificates are LAKE 4450 and LAKE 52605. A summary of the POAs and associated rates are show below:

POA #	Well Log ID	Certificate 97275	Certificate 97276	Certificate 97227	Total max rate under this transfer	Rates on other rights	Total Resulting Max Rate
2	LAKE 4450	Authorized	Authorized	Authorized	1.94	0.89	2.83
3	LAKE 52605	Authorized	Authorized	Authorized	1.94	--	1.94
4	LAKE 1711	Proposed	Proposed	Proposed	1.94	2	3.94
5	LAKE 1724	Proposed	Proposed	Proposed	1.94	0.9	2.84

2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
☒ Yes ☐ No Comments: All the POAs listed on this transfer are constructed to obtain groundwater from the shallower and lower permeability predominantly basin fill sediment unit that overlies the deeper and higher permeability volcanic rock and sediment unit.

Reports for the Goose and Summer Lakes Basin indicate groundwater occurs in both the predominantly basin fill sediment unit and predominantly volcanic rock and sediment unit. The groundwater is likely hydraulically connected, making a single groundwater system occurring in different geologic units with different permeability for each unit. A higher permeability and transmissivity generally occur in the predominantly volcanic rock and sediment unit and a lower permeability and transmissivity generally occurs in the predominantly basin fill sediment unit.

3. a) Is the existing authorized POA subject to a water level decline condition?
☐ Yes ☒ No Comments: There are no water level decline conditions listed on certificates 97275, 97276 or 97277.
- 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
4. a) Is there more than one source developed under the right (e.g., basalt and alluvium)?
☐ Yes ☒ No Comments: All POAs source water from the shallower basin fill sediments.
- 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
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 APOAs are closer to existing wells on nearby water rights than the currently authorized POAs. Proposed APOA LAKE 1711 is ~3,000 feet from LAKE 51040 on Permit G-14996 and proposed APOA LAKE 1724 is ~1,400 feet from LAKE 1713 on Certificate 76055. The reduced distance from the APOAs compared to the authorized POAs is likely to result in an increase in interference with these existing wells.
- 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: If this transfer were approved, the max allowable rate of pumping on LAKE 1724 would be 2.84 cfs, however, it is unlikely that the well would be able to achieve/sustain that pumping rate given the noted well yield of 300 gpm on the well log. The closest well to proposed APOA LAKE 1724 is LAKE 1713 at ~1400 feet, the closest authorized POA to LAKE 1713 is LAKE 4450 at ~2700. Using conservative values for transmissivity (1025 ft²/day) and storativity (0.001) and a pumping rate of 300 gpm, the Theis equation estimates a ~5 foot increase in seasonal drawdown resulting from pumping from LAKE 1724 compared to the originally authorized location of LAKE 4450. Wells at greater distances are expected to experience less seasonal drawdown due to interference.

Wells in this area report static water levels between 20 to 75 feet below land surface and have total depths of around 300 feet or greater. This increase in interference is unlikely to result in another groundwater right not receiving the water to which it is legally entitled to.

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: The proposed APOAs are further from the hydraulically connected Chewaucan River than the authorized wells LAKE 4450 and LAKE 52605. Seasonal interference is expected to be similar or less.
- 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: N/A
8. What conditions or other changes in the application are necessary to address any potential issues identified above: N/A
9. Any additional comments: N/A

T-14379

