Groundwater Transfer Review Summary Form

Transfer/PA # T- _**13948**_

GW Reviewer _**Mitra Khadka/Travis Brown**_ **Date Review Completed:** _**8/18/2023**_

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 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-13948 Applicant Name: WK & K Land LLC

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

Reviewer(s): Mitra Khadka/Travis Brown Date of Review: 8/18/2023

Date Returned to WRSD: 9/5/2024

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 _____

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1. Basic description of the changes proposed in this transfer: Applicant requests a modification to an existing groundwater registration GR-2727 (Certificate GR-2580). The registration GR-2727 currently authorizes to irrigate 95.0 acres at a maximum rate of 800 gpm (~1.8 cfs) from an authorized POA, BENT 5180. Applicant proposes to change authorized POA, BENT 5180 to BENT 761 and to transfer the groundwater registration GR-2727 from irrigation use to industrial use for the purpose of on-site farm food product processing.

2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
   ☒ Yes ☐ No Comments: Current authorized POA (BENT 5180) is completed at a depth of 29 ft bls and produces groundwater from the Willamette Aquifer, which is composed of unconsolidated sands and gravels of Holocene floodplain deposits in the area (Gannet and Caldwell, 1998; Conlon et al., 2005). Locally, the aquifer is unconfined, highly permeable, about 20-30 ft thick, and is underlain by ~140 ft of mostly fine-grained, low permeable alluvial sediments (Gannett and Caldwell, 1998, Well-log BENT 761). The proposed POA (BENT 761) is completed at a depth of 35 ft bls and produces from the same aquifer as the authorized one.

3. a) Is there more than one source developed under the right (e.g., basalt and alluvium)?
   ☐ Yes ☒ No _____

   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.): _____

4. 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 POA (BENT 761) is located ~1200 ft northwest of the nearest groundwater user BENT 5190, while the authorized POA (BENT 5180) is located ~950 ft north. The longer intervening distance would diminish interference with BENT 5190. All three wells appear to be owned by same owner.

   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: _____

5. 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: Distance between the nearest surface water body, the Willamette River and the proposed POA (BENT 761) is ~550 ft, while the distance between the river and the authorized POA (BENT 5180) is ~1500 ft. The shorter intervening distance will likely increase interference with the Willamette River.

   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: Willamette River ☒ Minimal ☐ Significant

   Provide context for minimal/significant impact: Even though the proposed POA (BENT 761) is substantially closer to the Willamette River than the authorized POA (BENT 5180), both wells will still produce from the same shallow alluvial aquifer and almost all pumped groundwater from both wells will be derived from depletion of the Willamette River. The only thing changing with the proposed POA would be the timing of the river depletion, with presumably more depletion occurring closer to the time of pumping during the irrigation season. Because this segment of the Willamette River is not over-appropriated, slightly concentrating the depletion during summer by moving to a closer POA is not likely to deprive a senior surface water right of its customary use.

6. 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: _____

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

8. Any additional comments:_____

References:

Application File: T-13948

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: U.S. Geological Survey Scientific Investigations Report 2005–5168, 83 p.

Gannett, M.W. and Caldwell, R., 1998, Geologic framework of the Willamette Lowland aquifer system, Oregon and Washington, Professional Paper 1424-A, 32 p: U. S. Geological Survey, Reston, VA.

Well-log Report: BENT 5180, BENT 761

Location Map