# **Groundwater Transfer Review Summary Form**

#### Transfer/PA # T- <u>14541</u>

GW Reviewer \_\_Joe Kemper\_\_ Date Review Completed: \_\_1/2/2025\_\_

#### 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.

	OREGON WATER RESOURCES DEPARTMENT	Oregon Water Rese 725 Summer Street I Salem, Oregon 9730 (503) 986-0900 www.wrd.state.or.us	ources Department NE, Suite A 11-1271	Ground Wat	er Review Fo 1t Transfer endment cation	rm:	
App	olication: T- <u>1</u>	<u>4541</u>		Appl	icant Name: <u>City o</u>	of Bend	
Pro	posed Change	es:	⊠ APOA □ POU	$\Box SW \rightarrow GW$ $\Box OTHER$	□ RA		
Rev	viewer(s): <u>Jo</u>	e Kemper			Date of Review: <u>1</u>	/2/2025	
			Date Reviewed	l by GW Mgr. and F	teturned to WRSD	):	
The tran	information sfer may be a The water w affected by t	provided in the a approved because vell reports provi- the transfer.	application is ins e: ded with the app	ufficient to evaluate lication do not corre	whether the property whether the property whether the property spond to the water	osed r rights	
	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 descri wells as APC the tables be	ption of the chan OAs to certificate low.	ges proposed in es 68702, 85411	this transfer: <u>The ap</u> , 85415 and 94101.	plicant seeks to ad Well specific detai	<u>ld five</u> ls are in	
2.	Will the prop Yes from the Des	posed POA deve No Commer schutes regional	lop the same aqu nts: <u>All authorize</u> groundwater sys	uifer (source) as the ed and proposed POA stem across a distance	existing authorized As produce ground the of approximately	1 POA? <u>lwater</u> y five	

a) Is the existing authorized POA subject to a water level decline condition?
 □ Yes ⊠ No Comments: None of the originating certificates have water level decline conditions.

miles from the Outback station to the Pilot Butte well cluster.

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: <u>NA</u>

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.): <u>NA</u>

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**?

 $\boxtimes$  Yes  $\square$  No Comments: <u>The proposed changes will move the location of</u> groundwater pumping, which will inevitably increase any well-to-well interference in areas where pumping increases.

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: <u>The target aquifer has high transmissivity/storage and a</u> large saturated thickness in the vicinity of the proposed changes. Pumping at the applicant's valid or proposed POAs typically produce 1-10 feet of drawdown. Changes in well-to-well interference that result from the proposed changes are unlikely to reach magnitude that would be considered substantial interference to a fully penetrating well.

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**?

 $\boxtimes$  Yes  $\boxtimes$  No Comments: <u>It is well documented that the target aquifer begins</u> discharging to the Deschutes and Crooked Rivers near their confluence at a distance of ~25 miles north of the wells involved in this transfer. Some of the proposed changes would move groundwater production closer to that point of hydraulic connection with surface water, which would quicken interference with those streams.

Additionally, the Outback wells are located within one mile of Tumalo Creek which does receive groundwater inflow. Considering that any mapped springs are located far upstream from the Outback wells and that the groundwater elevations at Outback wells (3400-3500 feet amsl) are well below the elevation of Tumalo Creek near the Outback wells (3800-3900 feet amsl), the target aquifer appears to have dropped hundreds of feet below the stream network until the confluence area. Thus, there is negligible hydraulic connection between Tumalo Creek and the Outback wells.

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: Deschutes River

 $\boxtimes$  Minimal  $\square$  Significant

Stream: Crooked River 🛛 Minimal 🗌 Significant

Provide context for minimal/significant impact: <u>Assuming that there is no increase in total</u> groundwater allocated under this permit (no enlargement), the change in location of pumping (within a five mile range) compared to the distance to the confluence area (~25 miles) will have a minimal impact on interference with that groundwater inflow.

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?

 $\Box$  Yes  $\Box$  No Comments: <u>NA</u>

- 8. What conditions or other changes in the application are necessary to address any potential issues identified above: \_\_\_\_\_
- 9. Any additional comments:

# Well Tables

### Certificate 68702

POA #	POA Name	POA Status	OWRD LOGID	TRS	Legal Location	Permitted Rate (cfs)
1	River Well 1	Valid	DESC 5577	18S/12E-5 SW-NW	S 58°4'1" E, 3007.14' fr NW cor, NENE, sec 6	0.90
2	River Well 2	Valid	DESC 5578	18S/12E-5 SW-NW	1420' S, 950' E fr NW cor sec 5	0.90
3	Pilot Butte 3	Proposed	DESC 52907	17S/12E-33 NE-NE	145' N, 650' E fr SW cor NE-NE sec 33	0.90
4	Outback 5	Proposed	DESC 56371	17S/11E-34 SW-SE	N 38°50'59''W, 241.7' fr SW cor SE 1/4 sec 34	0.90
5	Outback 6	Proposed	DESC 56449	17S/11E-34 SW-SE	N 45°11'27''W, 458.7' fr SW cor SE 1/4 sec 34	0.90
6	Outback 8	Proposed	NA	17S/11E-34 SW-SE	85' N, 2140'E fr SW cor sec 34	0.90
7	Outback 9	Proposed	NA	17S/11E-34 SW-SE	740' N, 2925' E fr SW cor sec 34	0.90

# Certificate 85411

POA #	POA Name	POA Status	OWRD LOGID	TRS	Legal Location	Permitted Rate (cfs)
1	Westwood Well	Valid	DESC 5585	18S/12E-7 NW-NW	S 11°18'36'' E 485.52' fr NW cor sec 7	1.56
2	Pilot Butte 3	Proposed	DESC 52907	17S/12E-33 NE-NE	145' N, 650' E fr SW cor NE-NE sec 33	1.56
3	Outback 5	Proposed	DESC 56371	17S/11E-34 SW-SE	N 38°50'59''W, 241.7' fr SW cor SE 1/4 sec 34	1.56
4	Outback 6	Proposed	DESC 56449	17S/11E-34 SW-SE	N 45°11'27''W, 458.7' fr SW cor SE 1/4 sec 34	1.56
5	Outback 8	Proposed	NA	17S/11E-34 SW-SE	85' N, 2140'E fr SW cor sec 34	1.56
6	Outback 9	Proposed	NA	17S/11E-34 SW-SE	740' N, 2925' E fr SW cor sec 34	1.56

### Certificate 85415

POA #	POA Name	POA Status	OWRD LOGID	TRS	Legal Location	Permitted Rate (cfs)
1	River Well 1	Valid	DESC 5577	18S/12E-5 SW-NW	S 58°4'1'' E, 3007.14' fr NW cor, NENE, sec 6	2.70
2	River Well 2	Valid	DESC 5578	18S/12E-5 SW-NW	1420' S, 950' E fr NW cor sec 5	2.70
3	Pilot Butte 3	Proposed	DESC 52907	17S/12E-33 NE-NE	145' N, 650' E fr SW cor NE-NE sec 33	2.70
4	Outback 5	Proposed	DESC 56371	17S/11E-34 SW-SE	N 38°50'59''W, 241.7' fr SW cor SE 1/4 sec 34	2.70
5	Outback 6	Proposed	DESC 56449	17S/11E-34 SW-SE	N 45°11'27''W, 458.7' fr SW cor SE 1/4 sec 34	2.70
6	Outback 8	Proposed	NA	17S/11E-34 SW-SE	85' N, 2140'E fr SW cor sec 34	2.70
7	Outback 9	Proposed	NA	17S/11E-34 SW-SE	740' N, 2925' E fr SW cor sec 34	2.70

# **Certificate 94101**

POA #	POA Name	POA Status	OWRD LOGID	TRS	Legal Location	Permitted Rate (cfs)
1	Westwood Well	Valid	DESC 5585	18S/12E-7 NW-NW	S 11°18'36'' E 485.52' fr NW cor sec 7	0.94
2	Pilot Butte 4	Valid	DESC 58778	17S/12E-33 NE-NE	S 20°6'13.3" E 1175' fr NE cor sec 33	0.94
3	Shiloh Well 3	Valid	DESC 5613	18S/12E-16 SW-NW	S 1°39'8'' E 2133' fr NW cor sec 16	0.94
4	Pilot Butte 3	Proposed	DESC 52907	17S/12E-33 NE-NE	145' N, 650' E fr SW cor NE-NE sec 33	0.94
5	Outback 5	Proposed	DESC 56371	17S/11E-34 SW-SE	N 38°50'59''W, 241.7' fr SW cor SE 1/4 sec 34	0.94
6	Outback 6	Proposed	DESC 56449	17S/11E-34 SW-SE	N 45°11'27''W, 458.7' fr SW cor SE 1/4 sec 34	0.94
7	Outback 8	Proposed	NA	17S/11E-34 SW-SE	85' N, 2140'E fr SW cor sec 34	0.94
8	Outback 9	Proposed	NA	17S/11E-34 SW-SE	740' N, 2925' E fr SW cor sec 34	0.94

### **Transfer Map**





