Groundwater Transfer Review Summary Form

Transfer/PA # I- <u>14650</u>
GW Reviewer <u>Mitra Khadka</u> Date Review Completed: <u>9/12/2025</u>
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:
$\hfill\Box$ 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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OREGON WATER RESOURCES DEPARTMENT	Oregon Water Resources Department 725 Summer Street NE, Suite A Salem, Oregon 97301-1271 (503) 986-0900 www.wrd.state.or.us		Ground Water ☐ Water Right ☐ Permit Ame ☐ GR Modified ☐ Other	endment	
Application: T-1	<u>4650</u>		Applicant Nan	ne: City of Independence	
Proposed Chang	es:	⊠ APOA ⊠ POU	□ SW→GW □ OTHER	□ RA	
Reviewer(s): <u>M</u>	Iitra Khadka	D	ate of Review: <u>9/12/2025</u>		
			Date Return	ned to WRSD: <u>9/12/2025</u>	
	provided in the apapproved because:	-	afficient to evaluate	whether the proposed	
☐ 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 descrifour addition 54296, to Production authorizes with municipal unauthorized I authorized I autho	iption of the chang nal wells (APOAs ermit: G-17750 (I vell POLK 53003 ses. Of the propos POA under Permit POA under Permit	ges proposed in Priority Date: For to withdraw graded APOAs, we Graded Grades G	this transfer: The app 7, POLK 51438, PO ebruary 4, 2016). Per oundwater at a maxi lls POLK 52307 and ells POLK 52307 an		
	nt further proposes of the City's servi		he authorized place	of use (POU) to include	
Yes of 45 feet be Tertiary sed of unconsoli et al., 2005) ft of fine-gr proposed Al	Will the proposed POA develop the same aquifer (source) as the existing authorized POA? Yes ☐ No Comments: The authorized well (POLK 53003) is completed to a depth of 45 feet below land surface (bls) and produces groundwater from the Quaternary-Late Certiary sedimentary aquifer designated as the Willamette Aquifer. This aquifer is composed funconsolidated floodplain sand and gravel deposits (Gannet and Caldwell, 1998; Conlonet al., 2005). Locally, the aquifer is highly permeable, ~20-40 ft thick, and is overlain by ~20 to fine-grained, low-permeability Willamette Silt Unit (Gannett and Caldwell, 1998). The proposed APOAs are completed at depths of 50 to 64 feet bls and will also produce from the same Willamette Aquifer as the authorized POA.				

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 \square Yes \square No Comments:

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Transfer Application: T- 14650

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

References:

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.

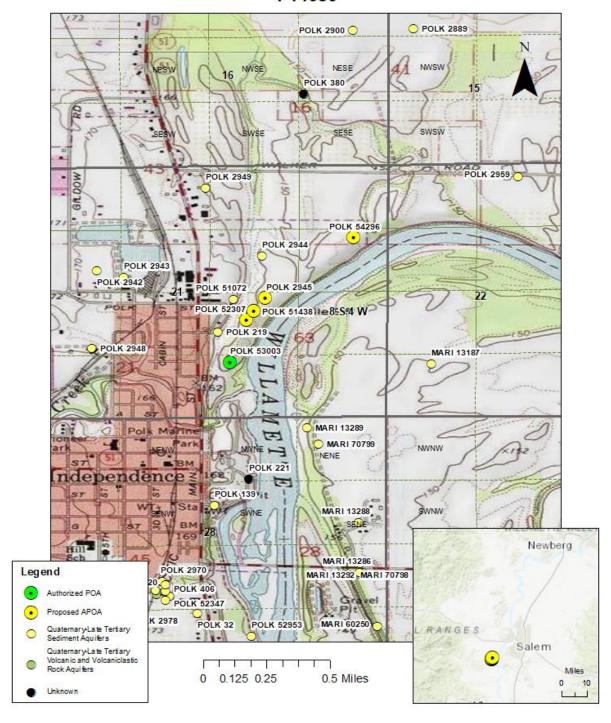
Gannett, M.W. and Caldwell, R., 1998, Geologic framework of the Willamette Lowland aquifer system, Oregon and Washington, Professional Paper 1424-A, 32 p. U. S. Geological Survey, Reston, VA.

Theis, C.V., 1935, The relation between the lowering of the piezometric surface and the rate and duration of discharge of a well using groundwater storage, American Geophysical Union Transactions, vol. 16, p. 519-524.

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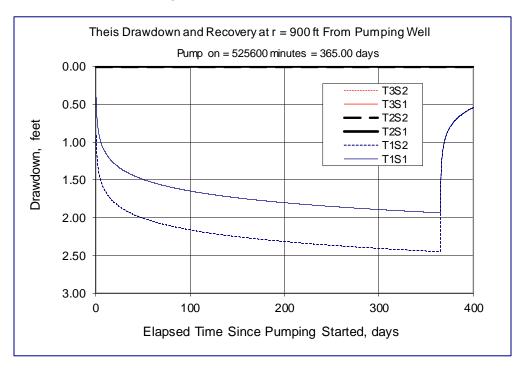
Location Map:

T-14650



Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL,

Well Interference Analysis (Theis, 1935):



Radial distance, r = 900 ft [approximate distance from APOA, POLK 2945 to POLK 2944]

Pumping time, $t_{pump} = 365$ days [year-round municipal use]

Pumping rate, Q = 0.56 cfs [max rate under Permit: G-17750]

Transmissivity: $T1 = 17240 \text{ ft}^2/\text{day}$ [median value from reported pumping tests for the Willamette Aquifer in the area]

Storativity: S1 = 0.003; S2 = 0.0003 [Conlon et al., 2005]

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