

# Groundwater Transfer Review Summary Form

Transfer/PA # T- 13491

GW Reviewer M. Thoma

Date Review Completed: 10/15/2020

## 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.*



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-13491

Applicant Name: Dustin Fox

Proposed Changes:  POA\*     APOA     SW→GW     RA  
 USE     POU     OTHER

Reviewer(s): M. Thoma

Date of Review: 10/15/2020

Date Reviewed by GW Mgr. and Returned to WRSD: JTI 10/15/20

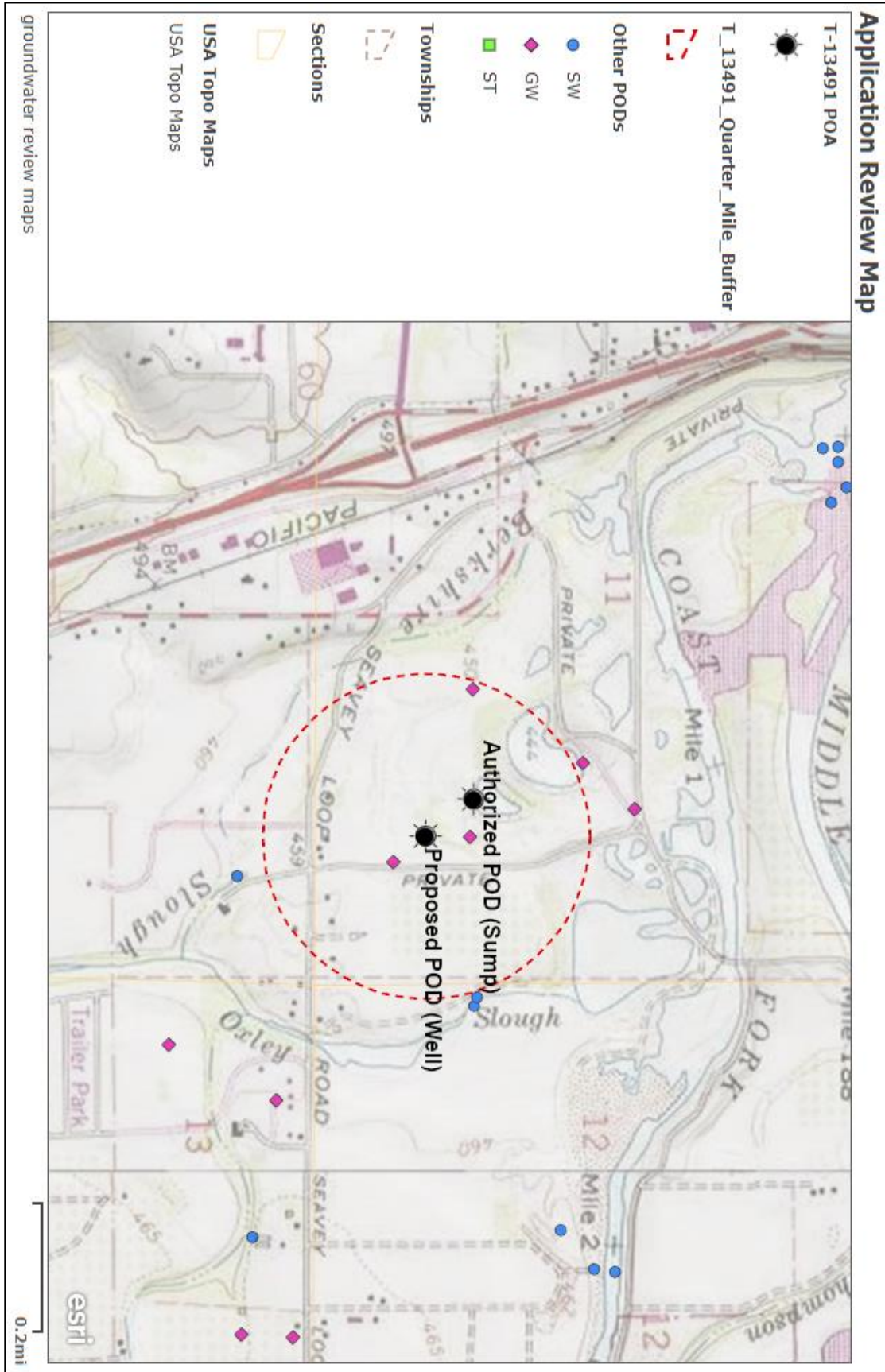
**\*The applicant appears to have checked the wrong boxes in Part 5 of the application: the applicant checked "Point of Diversion" and "Surface Water POD to Ground Water POA" but is simply changing the POA on a Groundwater right so "Point of Appropriation" would be the appropriate box to check.**

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 change the POA on Cert. 50297 from the authorized POA (a sump) to a new, proposed well. The proposed POA is approx. 450 ft from the original POA. The transfer is for the full acreage on the water right which is 9.75 acres and the full rate of 0.12 cfs.
  2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?  
 Yes     No    Comments: The application does not list construction information for the proposed well (see Table 3 in the Application). The depth of the sump is listed as "unknown" on the original permit but is likely producing from the shallow alluvial aquifer system adjacent to the Coast Fork Willamette. (By definition in OAR 690-200-0050(103) as sump cannot be greater than 10 ft in depth.) Without construction information for the proposed well, a positive finding of same-source cannot be made.

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 groundwater right**?  
 Yes     No    Comments: the new POA is to be a drilled well instead of a large-diameter sump. Drawdown in the aquifer will be much greater from the drilled well than from the sump and this will increase interference with several nearby permitted groundwater rights. There are two permitted groundwater POAs within 400 ft of the proposed new POA.  
 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: Estimated drawdown at the nearest groundwater POAs will likely be less than 3 ft, which is not significant-enough of an impact to cause injury.
  
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: Although the proposed change from a sump to a well will increase drawdown in the aquifer near the well, the new POA is farther from nearby surface water sources such that the net effect to surface water will likely be negligible.  
 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: \_\_\_\_\_
  
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: In order ensure the proposed POA is producing from the same source as the original POA, the new well must be constructed to be producing primarily from the alluvial aquifer system and shall be completed within the alluvial material or to no more than 5 ft into competent bedrock underlying the alluvium.
  
8. Any additional comments: In an alternative to the proposed condition in Item 7, the applicant can submit proposed well construction information and the Department will re-evaluate the application.



**Estimated drawdown to nearby groundwater POAs**

<b>This Time-Drawdown Worksheet</b> v.3.00						
Calculates Theis nonequilibrium drawdown and recovery at any arbitrary radial distance, r, from a pumping well for 3 different T values and radial distance, r, from a pumping well for 3 different T values and 2 different S values.						
Written by Karl C. Wozniak September 1992. Last modified December 30, 2014						
Input Data:	Var Name	Scenario 1	Scenario 2	Scenario 3	Units	
Total pumping time	t		244		d	
Radial distance from pumped well:	r		330.00		ft	<b>Q conversions</b>
Pumping rate	Q		0.120		cfs	53.86 gpm
Hydraulic conductivity	K	10.000	50.000	200.000	ft/day	0.12 cfs
Aquifer thickness	b		100		ft	7.20 cfm
Storativity	S_1		0.10000			10,368.00 cfd
	S_2		0.01000			0.24 af/d
<b>Transmissivity Conversions</b>	T_f2pd	1,000	5,000	20,000	ft <sup>2</sup> /day	
	T_ft2pm	0.6944	3.4722	13.8889	ft <sup>2</sup> /min	
	T_gpdpft	7,480	37,400	149,600	gpd/ft	

**Recalculate** Use the Recalculate button if recalculation is set to manual

