# **Groundwater Transfer Review Summary Form**

Transfer/PA # T- <u>13439 (Temp)</u>				
GW Reviewer <u>Travis Brown</u> Date Review Completed: <u>6/26/2020</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 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				

Version: 20200605



Proposed Changes:

Application: T-13439 (temp)

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

 $\boxtimes$  POA

 $\square$  USE

Ground Water Review Form:				
Water Right Transfer				
☐ Permit Amendment				
☐ GR Modification				
☐ Other				
Applicant Name: <u>Heyerly Brothers</u>				
$\square$ SW $\rightarrow$ GW $\square$ RA				
$\square$ OTHER				

Reviewer(s): <u>Travis Brown</u> Date of Review: <u>6/26/2020</u>

☐ APOA ☒ POU

Date Reviewed by GW Mgr. and Returned to WRSD: JTI 6/29/2020

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 temporarily change portions of the POU and the associated POA for Certificates 38044\*, 38507\*, and 75769\*, all of which are for Irrigation Use. Further details of the subject

Certificates and proposed changes are summarized below:

Certificate	Authorized POU [acres]	POU Portion to be Changed [acres]	Rate for Changed Portion of POU [cfs]	Volume for Changed Portion of POU [af]	Authorized From-POA	Proposed To-POA
38044	123.6	42.9	0.53625	107.25	CLAC 14258	CLAC 53757 CLAC74503
38507	13.6	13.6	0.11	34	CLAC 2503	CLAC 53757 CLAC 74503
75769	136.5	33.3	0.41625	83.25	CLAC 10027	CLAC 53757 CLAC 74503
TOTAL		89.8	1.0625	224.5		

The proposed changes would be in effect from the year 2020 through 2021.

Both proposed To-POA are also authorized POA under **Permit G-17897\*** for up to 2.3 cfs of Irrigation use from May 1 through October 30.

Page 2 of 5 Last Revised: 1/17/2018

Transfer Application: T-13439 (temp)

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: N/A

7. What conditions or other changes in the application are necessary to address any potential issues identified above: None

8. Any additional comments: Page 12 (Part 5c of 5c) of the application states "[t]he water user is currently using water from a different well (CLAC 52833) than the authorized well (CLAC 10027)" for Certificate 75769. The use of CLAC 52833 under Certificate 75769 does not appear to have been approved by a transfer (temporary or otherwise) and therefore appears to constitute an illegal use. The applicant should apply for a transfer or discontinue diversion of water from CLAC 52833 under Certificate 75769.

#### References

Application File: T-13439

Permit: G-17897

Certificates: 38044, 38507, 75769

Pumping Test Reports: CLAC 2049, 2060, 2240, 2454, 2473, 2635, 17723, 18102, 18360, 18601, 53757, 54578, 60032, 60360, 64005, 64205, 66134, 70809

Conlon, T.D., Lee, K.K., and Risley, J.R., 2003, Heat tracing in streams in the central Willamette Basin, Oregon, in Stonestrom, D.A. and Constantz, Jim, eds., Heat as a tool for studying the movement of groundwater near streams: U.S. Geological Survey Circular 1260, chapter 5, p. 29-34.

Domenico, P.A. and Mifflin, 1965, Water from low-permeability sediments and land subsidence: Water Resource Research, v. 1, no. 4, p. 563-576.

Freeze, R.A. and Cherry, J.A., 1979, Groundwater, Prentice Hall, Englewood Cliffs, New Jersey, 604 p.

Halford, K.J., and Kuniansky, E.L., 2002, Documentation of Spreadsheets for the Analysis of Aquifer-Test and Slug-Test Data, Open File Report 02-197, 51 p: U. S. Geological Survey, Reston, VA.

Hampton, E. R., 1972, Geology and Ground Water of the Molalla-Salem Slope Area, Northern Willamette Valley, Oregon, Water-Supply Paper 1997: U. S. Geological Survey, Reston, VA.

Iverson, J., 2002, Investigation of the hydraulic, physical, and chemical buffering capacity of Missoula flood deposits for water quality and supply in the Willamette Valley of Oregon: Unpublished M.S. thesis, Oregon State University, 147 p.

McFarland, W.D., and Morgan, D.S., 1996, Description of the Ground-Water Flow System in the Portland Basin, Oregon and Washington, Water Supply Paper 2470-A, 58 p. U. S. Geological Survey, Reston, VA.

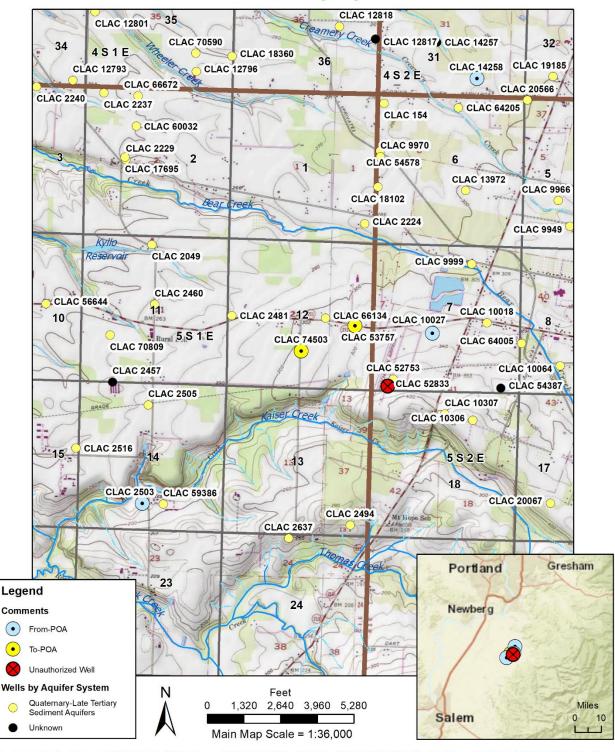
Theis, C.V., 1935, The relation between the lowering of the piezometric surface and the rate and duration of discharge of a well using groundwater storage, American Geophysical Union Transactions, vol. 16, p. 519-524.

Woodward, D.G., Gannett, M.W., and Vaccaro, J.J., 1998, Hydrogeologic framework of the Willamette Lowland aquifer system, Oregon and Washington: U.S. Geological Survey Professional Paper 1424-B, 82 p.

Page 3 of 5 Last Revised: 1/17/2018

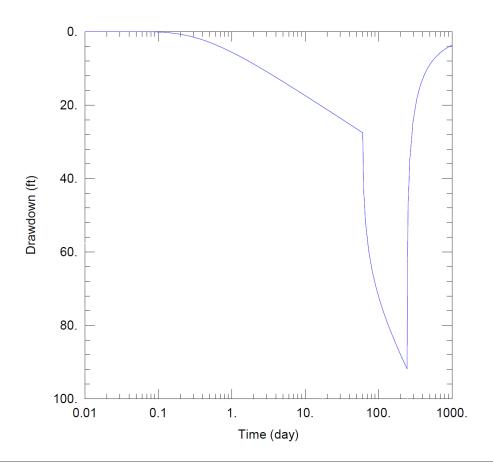
#### **Well Location Map**

# T-13439 (Temp) Heyerly Brothers



Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community
Copyright. © 2013 National Geographic Society, i-cubed

## **Well Interference Analysis**



## WELL TEST ANALYSIS

Data Set: S:\...\CombinedInterference\_avgQ.aqt

Date: 06/14/20 Time: 13:55:58

#### PROJECT INFORMATION

Company: OWRD
Client: HeyerlyBros
Project: T13439
Test Woll: CLAC 53

Test Well: <u>CLAC 53757</u> Test Date: <u>6/14/2020</u>

## WELL DATA

X (ft)	Y (ft)
, ( \ ( · · · )	' ('')
0	0
	0

Well Name	X (ft)	Y (ft)
	0	0
□ CLAC 66134	1100	0
© CLAC 66134	1100	

**Observation Wells** 

#### SOLUTION

Aquifer Model: Confined

T = 560.  $ft^2/day$ Kz/Kr = 1. Solution Method: Theis

S = 0.0005b = 100. ft