

Groundwater Transfer Review Summary Form

Transfer/PA # T- 13482

GW Reviewer Jen Woody Date Review Completed: 7/24/2020

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-13482

Applicant Name: 18320 NE Fairview LLC

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

Reviewer(s): Jen Woody

Date of Review: 7/24/2020

Date Reviewed by GW Mgr. and Returned to WRSD: JTI 7/27/2020

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: T-13482 proposes to change the POA location associated with Permit G-18084 to the location where YAMH 58150 was drilled in 2019. YAMH 58150 was drilled approximately 500 feet southwest of the approved POA.
2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
 Yes No Comments: The depth and construction of YAMH 58150 meet the specifications reviewed for the issuance of Permit G-18084. It accesses a single aquifer within the CRBG, based on the well log and other nearby wells' data.
3. a) Is there more than one source developed under the right (e.g., basalt and alluvium)?
 Yes No See section 2 comments.
 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.): n/a
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: YAMH 58150 is located closer to YAMH 58090 (POA on application G-18501/Permit G-18116) than the approved POA. YAMH 58150 and YAMH 58090 are approximately 300 feet apart.
 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: Assuming YAMH 58150 pumped at the maximum allowed rate (0.12 cfs/53 gpm), the total annual duty on 7 acres of irrigation would be met in approximately 12 days. Distance drawdown estimates of this worst-case scenario indicate 1 to 6.5 feet if drawdown at YAMH 58090. Given the available head at the well, this degree of interference is not expected to prevent access to the water YAMH 58090 is legally entitled.

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: The proximity to nearby surface water will not change.

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: n/a

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: none

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: U.S. Geological Survey Scientific Investigations Report 2005-5168.

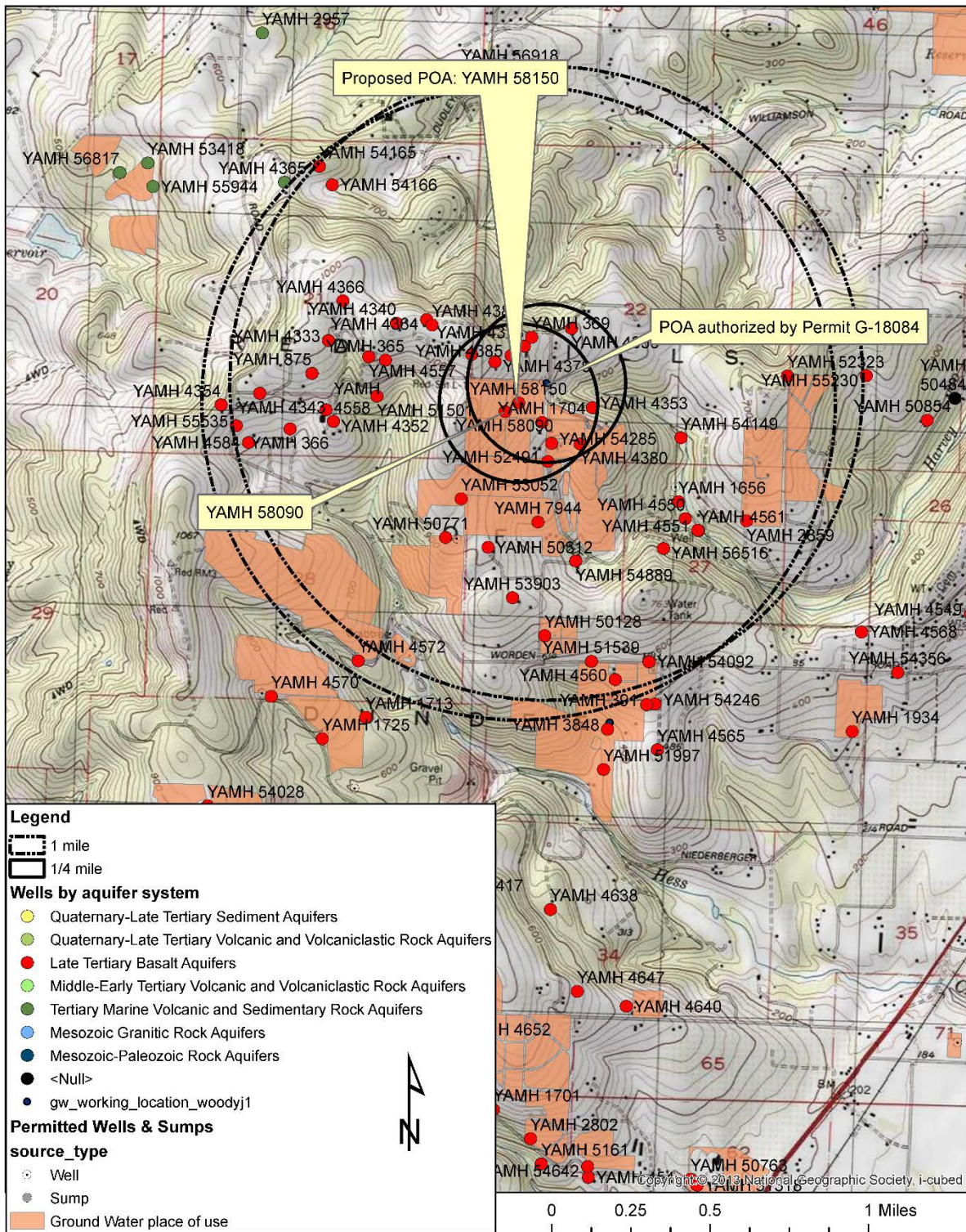
Reidel, S.P., Johnson, V.G., and Spane, F.A., 2002, Natural gas storage in basalt aquifers of the Columbia Basin, Pacific Northwest USA—A guide to site characterization: Richland, Wash., Pacific Northwest National Laboratory, 277 p.

US Geological Survey Topographic Map, Dundee Quadrangle.

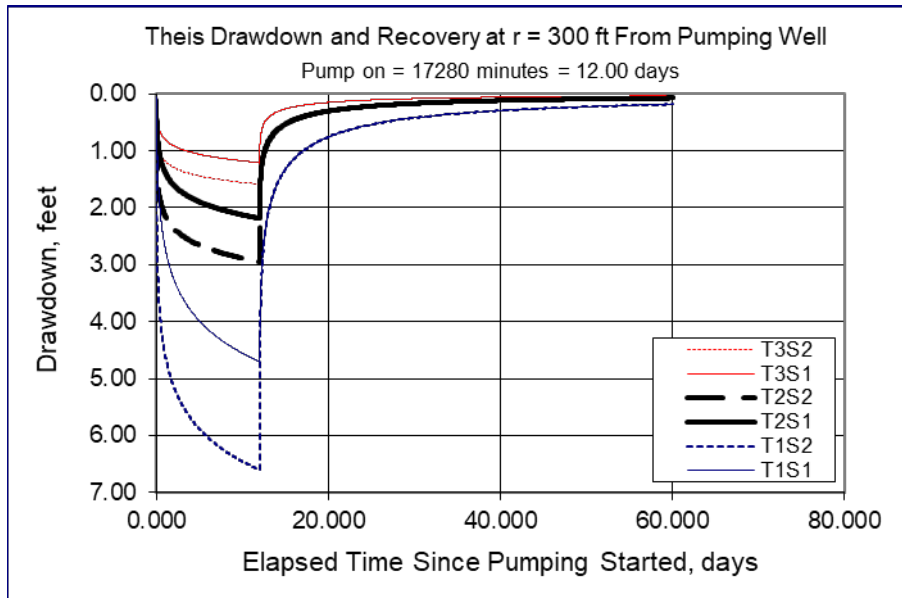
OWRD Groundwater Information System database, includes reported water levels and pump tests, accessed 7/24/2020.

Well location map

T-13482 18320 NE Fairview T3S/R3W- Section 22



Distance drawdown estimates



Input Data:	Var Name	Scenario 1	Scenario 2	Scenario 3	Units	
Total pumping time	t		12		d	
Radial distance from pumped well:	r		300		ft	Q conversions
Pumping rate	Q		0.12		cfs	53.86 gpm
Hydraulic conductivity	K	10	25	50	ft/day	0.12 cfs
Aquifer thickness	b		100		ft	7.20 cfm
Storativity	S_1		0.001			10,368.00 cfd
	S_2		0.0001			0.24 af/d
Transmissivity Conversions	T_f2pd	1000	2500	5000	ft ² /day	
	T_ft2pm	0.694444	1.736111	3.472222	ft ² /min	
	T_gpdpt	7480	18700	37400	gpd/ft	

Cross Section Diagram

