

# Groundwater Transfer Review Summary Form

Transfer/PA # T- 13914

GW Reviewer J. Hootsmans/J. Hackett Date Review Completed: 9/7/2023

## 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

Application: T-13914

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

Reviewer(s): J. Hootsmans/J. Hackett

Date of Review: 9/7/2023

Date Reviewed by GW Mgr. and Returned to WRSD: JTI 6/3/25

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 authorized POA 2 (GILL 44/Middle Well) to Proposed POA 4 (Middle Well Replacement) for Certificates 50364 and 50365. Authorized POA 2 will be abandoned. The applicant also proposes additional POAs (APOAs) to be included in Certificates 50364, 50365, 54111, 54112, and 54113. The authorized and proposed Points of Appropriation (POAs) associated with these water rights are displayed in Table 1.

Table 1:

Certificate	Authorized POAs/PODs	Proposed POAs/PODs
50364	GILL 44 (POA 2/Middle Well)	GILL 38 (POA 1) Middle Well Replacement (POA 4) GILL 45 (POA 3)
50365	GILL 44 (POA 2/Middle Well)	GILL 38 (POA 1) Middle Well Replacement (POA 4) GILL 45 (POA 3)
54111	GILL 45 (POA 3)	GILL 38 (POA 1) Middle Well Replacement (POA 4)

54112	GILL 45 (POA 3)	GILL 38 (POA 1) Middle Well Replacement (POA 4)
54113	GILL 38 (POA 1)	GILL 45 (POA 3) Middle Well Replacement (POA 4)

2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?

Yes  No Comments: The area surrounding the applicant's property is underlain by lava flows of the Columbia River Basalt Group (CRBG). Locally, the CRBG is composed of dozens of individual basalt flows and has a composite thickness of several thousand feet. Although unconfined ground water occurs near the surface of the basalts, most water occurs in confined aquifers that occupy thin rubble zones (interflow zones) at the contacts between lava flows. The interiors of the basalt flows generally have low porosity and permeability and act as confining beds. This geometry generally produces a stack of thin aquifers (interflow zones) separated by thick confining beds (flow interiors).

In many areas where CRBG wells are present, water levels in individual interflow zones are distinct and isolated. This does not appear to be true locally. With few exceptions, water levels in local wells are independent of well depth. Evidence of this is shown on geologic cross-section A-A' (cross-section is Figure 8, location map is Figure 7). This cross-section shows geologic units penetrated by each well and the most recent static water level elevation. Water levels are from spring 2017 or 2018 unless noted on the cross-section. As mentioned previously, water level elevations decrease consistently along the cross-section from south to north and are a representation of the regional groundwater flow gradient. The fact that water level elevations are consistent over a broad area and show little variation with well depth or geologic units penetrated indicates some interconnection between water-bearing zones in these different units and suggests these water-bearing zones behave as a single aquifer locally.

The authorized POAs (GILL 44, GILL 38, GILL 45) are 492 feet, 1066 feet, and 1087 feet deep, respectively. All authorized POAs produce from water-bearing zones in the CRBG aquifer system.

The proposed POA (POA 4 / Middle Replacement Well) will be approximately 1100 feet deep and will also produce from water-bearing zones in the CRBG aquifer system.

3. a) Is there more than one source developed under the right (e.g., basalt and alluvium)?

Yes  No All Authorized and Proposed POAs produce from the CRBG aquifer system.

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 ground water right**?

Yes  No Comments: The Proposed POA will be located a similar distance from existing groundwater rights as the Authorized POAs. So, interference should not significantly increase.

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: \_\_\_\_\_

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: Authorized and Proposed POAs are located similar distances from nearby surface water sources, so interference should not increase.

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

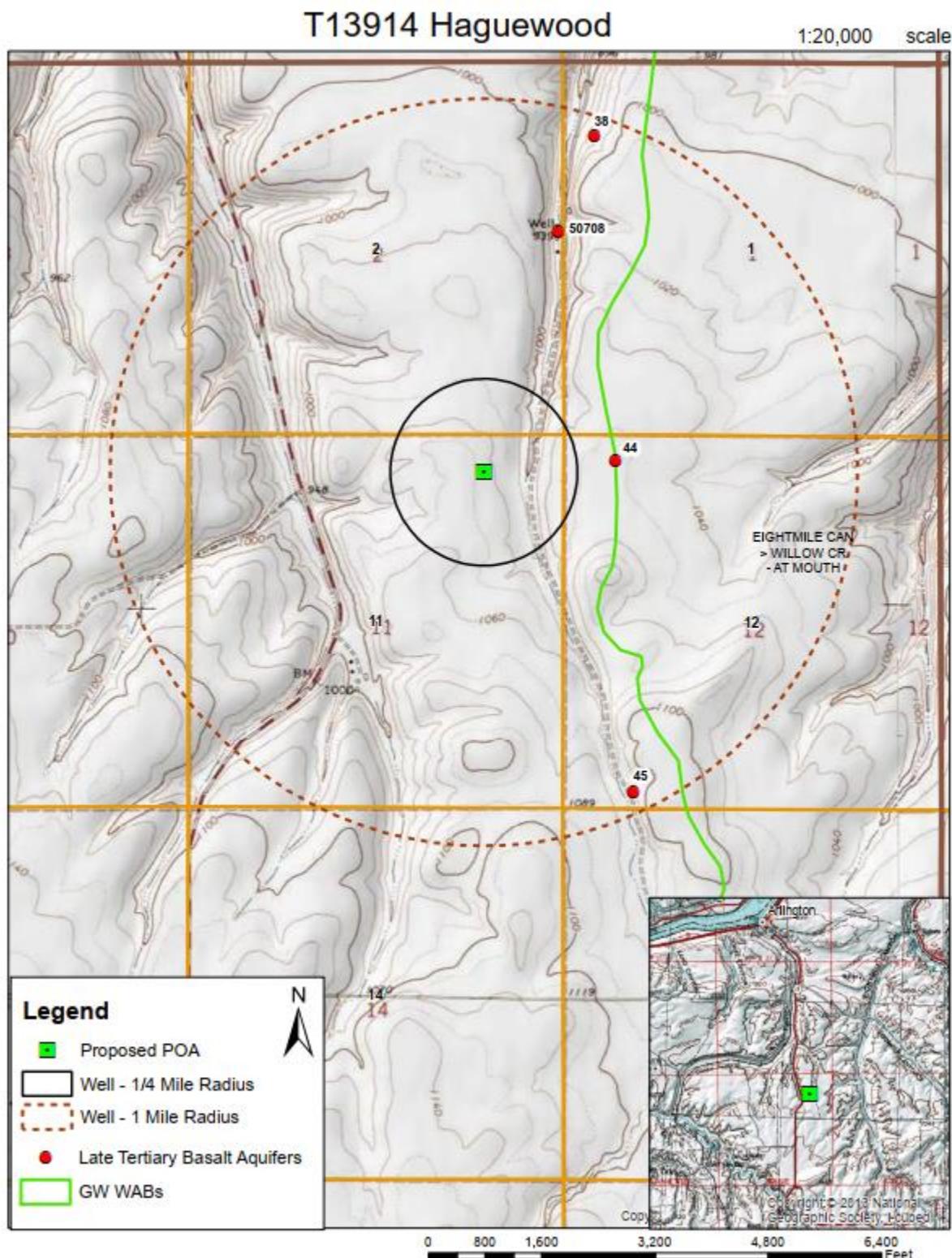
Provide context for minimal/significant impact: \_\_\_\_\_

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: N/A

7. What conditions or other changes in the application are necessary to address any potential issues identified above:

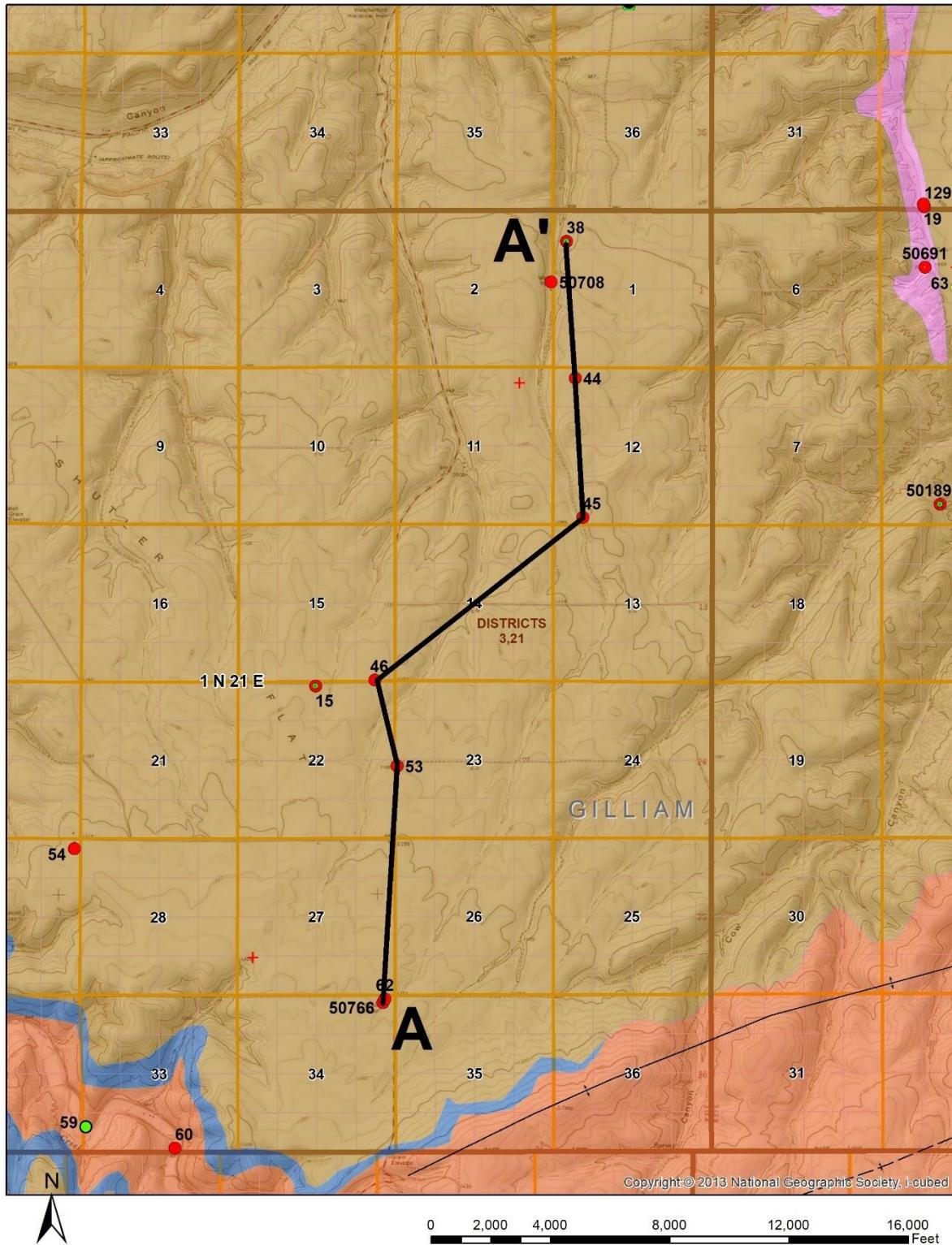
8. Any additional comments:



## Cross-Section Location Map

## T-13914, Cross-Section Location Map

1:48,000 scale



## Stratigraphic Cross Section

