

Groundwater Transfer Review Summary Form

Transfer/PA # T- 13510

GW Reviewer Jen Woody Date Review Completed: 11/19/2020

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.



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Ground Water Review Form:

- Water Right Transfer
- Permit Amendment
- GR Modification
- Other: **Historic POD**

Application: T-13510

Applicant Name: Lynne Chamberlain

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

Reviewer(s): Jen Woody

Date of Review: 11/19/2020

Date Reviewed by GW Mgr. and Returned to WRSD: JTI 11/25/2020

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-13510 proposes a historic change in POA. Certificate 43794 authorizes 8.7 acres of irrigation from UMAT 5181. However, UMAT 5181 is pumped for domestic use only per the application. This transfer proposes to change the POA on Cert 43794 to UMAT 5180, the well currently authorized for irrigation of over 200 acres under multiple certificated groundwater rights (Certificates 43795, 43796, 45576, 65982). UMAT 5180 is the well currently used for Certificate 43794, therefore this transfer would align the certificate POA with current operations.
2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
 Yes No Comments: As shown in Figure 2, UMAT 5181 is 385 feet deep, while UMAT 5180 is 690 feet deep. UMAT 5181 was drilled in 1945, and there is no record of a seal; UMAT 5180 was drilled in 1966 and is reportedly sealed 0-20 feet below land surface. There are no recent water level data available from either well. This review concludes the two wells are open roughly from land surface to 385 feet below land surface, which potentially allows contributions from both sedimentary and basaltic water-bearing zones. There is not enough information available to determine UMAT 5180 accesses distinctly different aquifers below 385 feet. Water level data are sparse, but nearby wells that access basalt below 385' do not show distinct water levels that indicate a clear separation between the basalt aquifer above 385' and between 385 and 690 feet BLS (see Figure 3).

3. a) Is there more than one source developed under the right (e.g., basalt and alluvium)?
 Yes No Comments: UMAT 5180 and UMAT 5181 have shallow and unknown depth seals, respectively, and may access water from a combination of sedimentary and basalt aquifers.
- 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.): This is unknown. The historic water level elevations at UMAT 5180 and 5181 are similar to nearby deep basalt wells (see UMAT 5177 and UMAT 54161), therefore the primary source of water is likely basalt.
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: UMAT 5180 is already used to irrigate the 8.7 authorized under Cert 43794. However, assuming it were a new additional use at UMAT 5180, the increase is relatively small in volume and not expected to increase interference with other nearby rights.
- 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: N/A
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: Interflow zones in Columbia River Basalt are not intersected by nearby streambeds.
- 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

Figure 1. Well location Map

**T13510 Chamberlain
6N/36E-20 NW 1/4 SE 1/4**

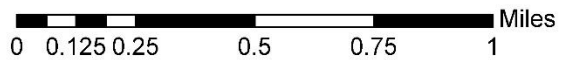
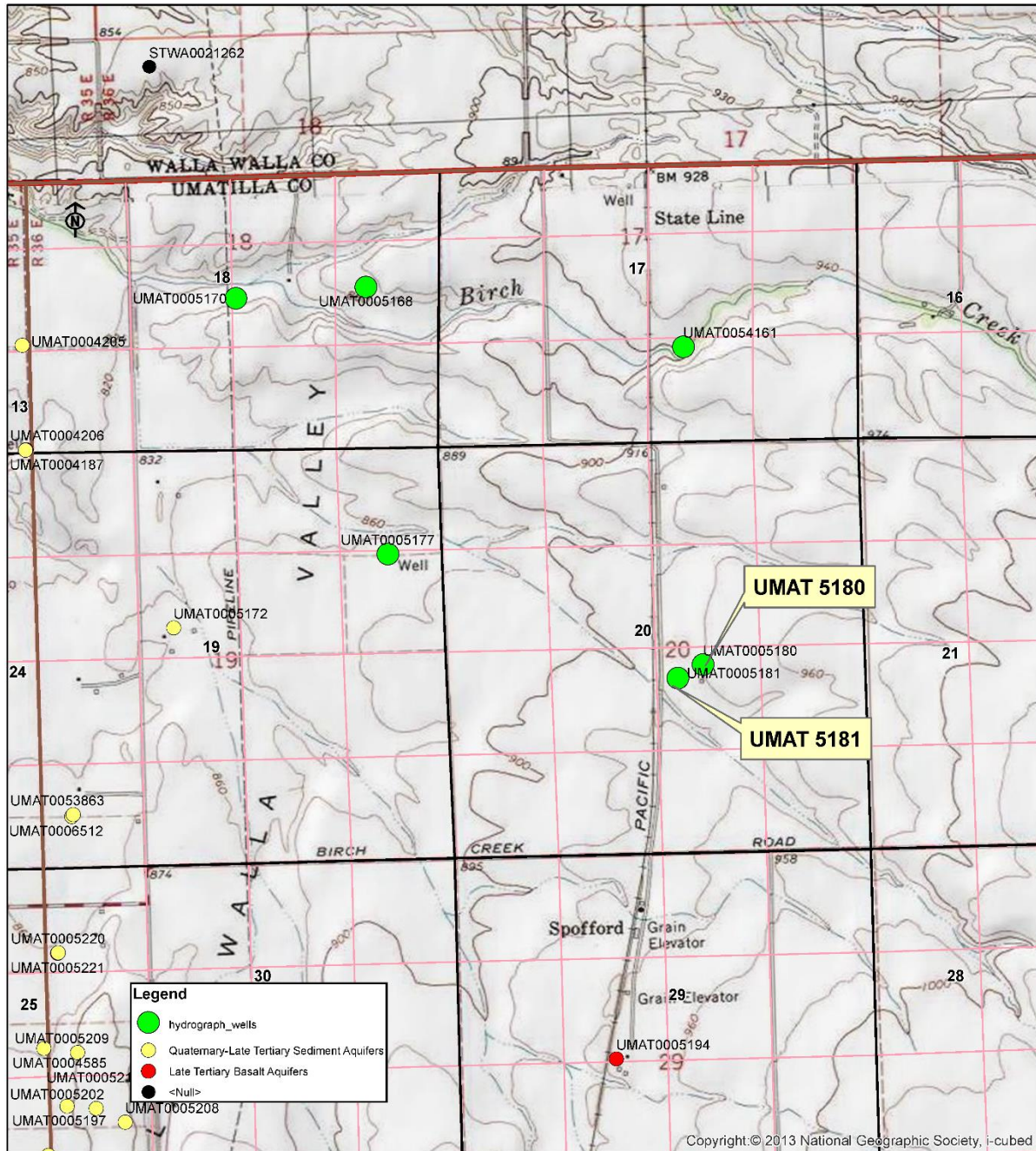


Figure 2. Cross sectional diagrams of wells, including well construction and lithology from well logs.

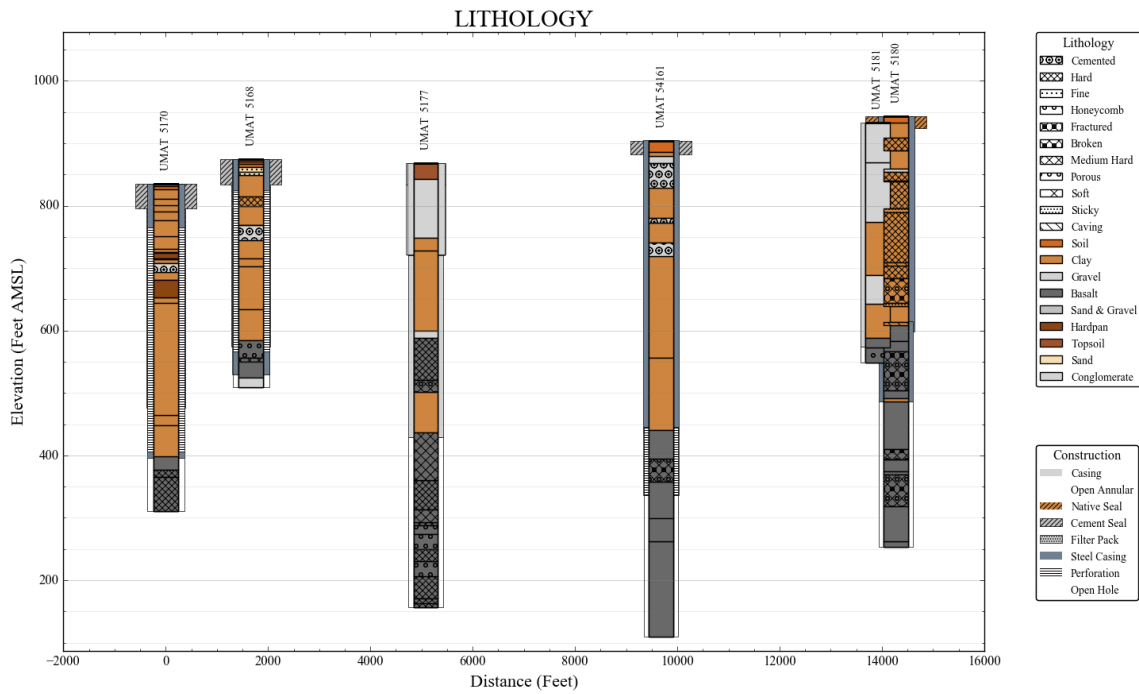
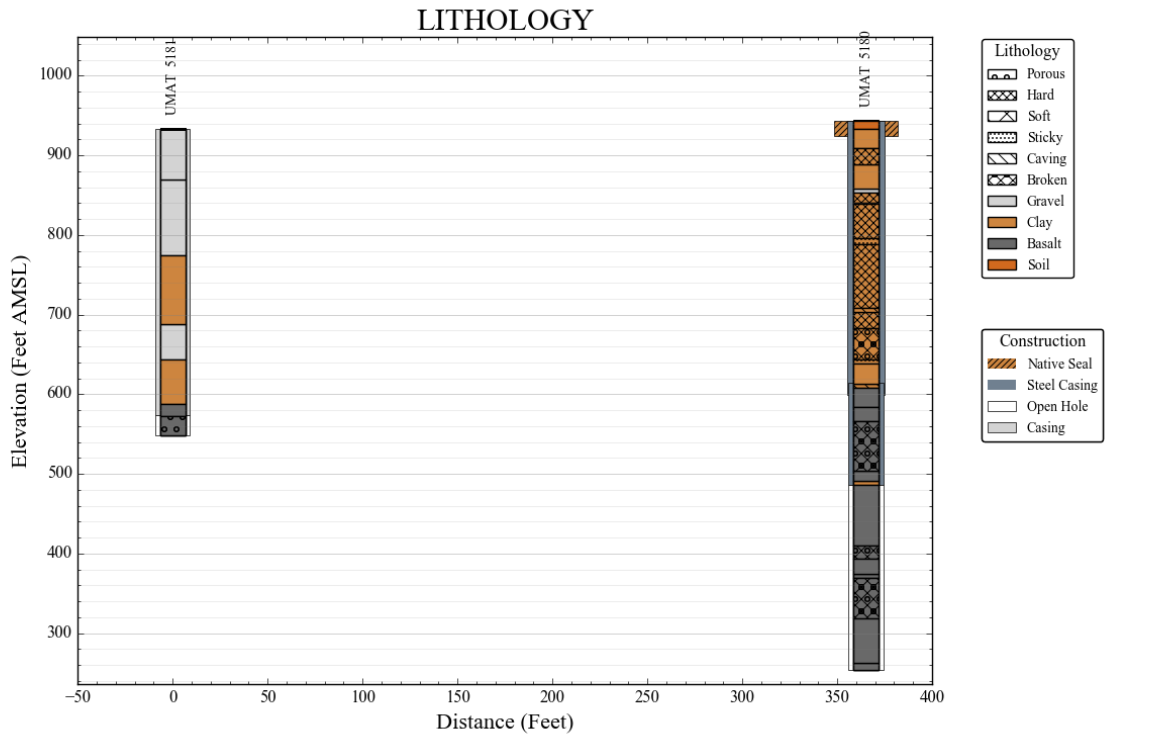


Figure 3. Hydrograph of nearby wells.

