

Groundwater Transfer Review Summary Form

Transfer/PA # T- 13450

GW Reviewer Phil Marcy Date Review Completed: 07/28/2020

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**

Application: T-13450

Applicant Name: Lou and Mary Davies

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

Reviewer(s): Phillip I. Marcy

Date of Review: 07/28/2020

Date Reviewed by GW Mgr. and Returned to WRSD: JTI 7/29/2020

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 change POA wells from "Well 4", which is authorized to pump 1.43 cfs under Certificate 52037, to "Well 5". The tag number for the proposed replacement well is L-26619, corresponding to well log ID HARN 51074.

2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
☒ Yes ☐ No Comments: The authorized POA (HARN 1415) produces groundwater from horizons primarily described as "black" or "multicolored" lava, at depths below 214 feet. The proposed POA well, HARN 51074, is sealed into basalt, producing from "multicolored cinders" below 145 feet.

Groundwater in the alluvial sequence and subjacent volcanic and volcanoclastic materials is likely hydraulically connected, composing a single groundwater system occurring in different geologic units. Leonard (1970) found that near the edges of the valley there is likely good interconnection between alluvium and underlying volcanic rocks, which in turn are hydraulically connected between horizons at these margins. Additionally, water level data from wells nearby display remarkably similar elevations (see attached hydrograph), from wells that produce from volcanic deposits over a range of open interval depths..

3. a) Is there more than one source developed under the right (e.g., basalt and alluvium)?
☐ Yes ☒ No There is only one authorized POA on Certificate 52037.

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.): NA

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 location is significantly closer to nearby authorized GW POAs under permit G-16854 and Certificate 94289, the latter of which is under the name the applicant herein.
- 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: Considering the closest POA well affected that does not belong to the applicant, at a distance of 1,650 feet from the proposed POA location, the impact of moving the source of groundwater pumping is unlikely to interfere with production at HARN 51727. Using a range of values from local pump tests, estimated drawdown induced by pumping at the proposed location ranges from 30-60', as compared to anticipated drawdown of 22-42' at the currently authorized POA location, which is 2,600 feet away. HARN 51727 is 232 feet in depth, and the change in anticipated drawdowns is not expected to result in this groundwater user to lose the ability to pump due to excessive seasonal drawdown caused by the proposed change.
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 proposed POA location is not significantly closer to any surface water source.
- 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: NA ☐ Minimal ☐ Significant
Stream: NA ☐ Minimal ☐ Significant
Provide context for minimal/significant impact: There are no perennial surface water sources within one mile.
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: NA
7. What conditions or other changes in the application are necessary to address any potential issues identified above: None.
8. Any additional comments: _____





