

# Groundwater Transfer Review Summary Form

Transfer/PA # T- 14020

GW Reviewer Darrick E. Boschmann Date Review Completed: 10/07/2022

## 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-14020

Applicant Name: Silver Sage Farms LLC

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

Reviewer(s): Darrick E. Boschmann

Date of Review: 10/07/2022

Date Reviewed by GW Mgr. and Returned to WRSD: jti 2/16/23

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 \_\_\_\_\_
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## 1. Basic description of the changes proposed in this transfer: \_\_\_\_\_

This application is related to the following 9 certificates:

•95656

•95738

•95739

•95740

•95741

•95742

•95743

•96174

•96175

Certificate 95656 authorizes groundwater pumping from 7 wells (POD 1 = HARN 51272; POD 2 = HARN 51765; POD 3 = HARN 51760; POD 4 = HARN 51817; POD 5 = HARN 51445; POD 6 = HARN 51871; POD 7 = HARN 51970) for primary irrigation of 393.5 acres in the Malheur Lake Basin. The following changes are proposed:

1. Add 6 APOA (HARN 52121; HARN 52154; HARN 52170; HARN 52590; HARN 52591, HARN 52674).

2. Move 10.9 acres of the POU.

The application lists 10 authorized wells under this certificate. For the purposes of this review, it is assumed the 3 additional wells are intended as APOA.

Certificate 95738 authorizes groundwater pumping from 3 wells (POD 1 = MALH 2324; POD 2 = MALH 2325; POD 3 = HARN 52457) for primary irrigation of 304.6 acres and supplemental irrigation of 128.1 acres in the Malheur Lake Basin. The following changes are proposed:

1. Add 10 APOA (HARN 51765; HARN 51871; HARN 51970; HARN 52121; HARN 52154; HARN 52170; HARN 52590; HARN 52591; HARN 52674; HARN 52774).

2. Move 13.8 acres of the POU.

The application lists HARN 1331 as POD 2 under certificate 95738. This is inconsistent with well location and POD correlation information in the GWIS database, which lists MALH 2325 as POD 2 under this certificate. The GWIS correlation is based on well construction and location details provided on permit G-9419. For the purposes of this review MALH 2325 is considered POD 2 under certificate 95738.

Certificate 95739 authorizes groundwater pumping from 3 wells (POD 1 = MALH 2324; POD 2 = MALH 2325; POD 3 = HARN 52457) for primary irrigation of 128.1 acres in the Malheur Lake Basin. The following changes are proposed:

1. Add 10 APOA (HARN 51765; HARN 51871; HARN 51970; HARN 52121; HARN 52154; HARN 52170; HARN 52590; HARN 52591; HARN 52674; HARN 52774).

2. Move 3.8 acres of the POU.

The application lists HARN 1331 as POD 2 under certificate 95739. This is inconsistent with well location and POD correlation information in the GWIS database, which lists MALH 2325 as POD 2 under this certificate. The GWIS correlation is based on well

construction and location details provided on permit G-9419. For the purposes of this review MALH 2325 is considered POD 2 under certificate 95738.

Certificate 95740 authorizes groundwater pumping from 10 wells (POD 1 = HARN 51272; POD 2 = HARN 52121; POD 3 = HARN 52170; POD 4 = HARN 51817; POD 5 = HARN 51871; POD 6 = HARN 51970; POD 7 = HARN 51765; POD 8 = HARN 51760; POD 9 = HARN 52154; POD 10 = HARN 51445) for primary irrigation of 400.0 acres in the Malheur Lake Basin. The following changes are proposed:

1. Add 3 APOA (HARN 52590; HARN 52591; HARN 52674).
2. Move 37.1 acres of the POU.

Certificate 95741 authorizes groundwater pumping from 10 well (POD 1 = HARN 51817; POD 2 = HARN 51871; POD 3 = HARN 51970; POD 4 = HARN 51765; POD 5 = HARN 51760; POD 6 = HARN 51445; POD 7 = HARN 52121; POD 8 = HARN 52170; POD 9 = HARN 51272; POD 10 = HARN 52154) for primary irrigation of 355.9 acres in the Malheur Lake Basin. The following changes are proposed:

1. Add 3 APOA (HARN 52950; HARN 52591; HARN 52674)
2. Move 36.4 acres of the POU.

Certificate 95742 authorizes groundwater pumping from 10 well (POD 1 = HARN 51765; POD 2 = HARN 51760; POD 3 = HARN 51445; POD 4 = HARN 52121; POD 5 = HARN 52170; POD 6 = HARN 51817; POD 7 = HARN 51871; POD 8 = HARN 51970; POD 9 = HARN 51272; POD 10 = HARN 52154) for primary irrigation of 37.6 acres in the Malheur Lake Basin. The following changes are proposed:

1. Add 3 APOA (HARN 52590; HARN 52591; HARN 52674)
2. Move 3.9 acres of the POU.

Certificate 95743 authorizes groundwater pumping from 10 wells (POD 1 = HARN 51765; POD 2 = HARN 51760; POD 3 = HARN 51445; POD 4 = HARN 52121; POD 5 = HARN 52170; POD 6 = HARN 51817; POD 7 = HARN 51871; POD 8 = HARN 51970; POD 9 = HARN 51272; POD 10 = HARN 52154) for primary irrigation of 434.62 acres in the Malheur Lake Basin. The following changes are proposed:

1. Add 3 APOA (HARN 52590; HARN 52591; HARN 52674)
2. Move 40 acres of the POU.

Certificate 96174 authorizes groundwater pumping from 8 wells (POD 1 = HARN 51272; POD 2 = HARN 1096; POD 3 = HARN 51765; POD 4 = HARN 51871; POD 5 = HARN 51970; POD 6 = HARN 52121; POD 7 = HARN 52154; POD 8 = HARN 52170) for primary irrigation of 393.6 acres in the Malheur Lake Basin. The following changes are proposed:

1. Add 6 APOA (HARN 52590; HARN 52591; HARN 52674; HARN 51760; HARN 51817; HARN 51445).
2. Move 3.1 acres of the POU.

The application lists 11 authorized wells under this certificate. For the purposes of this review, it is assumed the 3 additional wells are intended as APOA.

Certificate 96175 authorizes groundwater pumping from 8 wells (POD 1 = HARN

51272; POD 2 = HARN 1096; POD 3 = HARN 51765; POD 4 = HARN 51871; POD 5 = HARN 51970; POD 6 = HARN 52121; POD 7 = HARN 52154; POD 8 = HARN 52170) for primary irrigation in the Malheur Lake Basin. The following changes are proposed:

1. Add 6 APOA (HARN 52590; HARN 52591; HARN 52674; HARN 51760; HARN 51817; HARN 51445).

2. Move 10.9 acres of the POU.

The application lists 11 authorized wells under this certificate. For the purposes of this review, it is assumed the 3 additional wells are intended as APOA.

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

☒ Yes ☐ No Comments: \_\_\_\_\_

The currently authorized wells develop groundwater primarily from the Proximal vent deposits hydrostratigraphic unit, as well as interbedded Older basin fill. The proposed wells also develop groundwater from these units.

Groundwater occurs in multiple hydrostratigraphic units, and groundwater within these units is hydraulically connected, making a single groundwater system composed of multiple hydrostratigraphic units (Gingerich and others, 2022).

In general, groundwater in the Harney Basin flows from several upland recharge areas to a common discharge area near Malheur and Harney Lakes, with some apparent discharge to the Malheur Basin through one or more areas along the eastern margin. While the rocks and sediments making up the aquifer system in the Harney Basin do constitute a single groundwater flow system, sub-watersheds within the basin contribute recharge to different parts of the system depending on groundwater flow-paths from recharge to discharge areas. In general, within these sub-watersheds water within the aquifer system is sourced from a common recharge area and can therefore be considered a single source.

All authorized and proposed wells are within a <3 mile radius located within the Weaver Springs cone of depression.

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

☐ Yes ☒ No \_\_\_\_\_

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 addition of these APOA may result in an incremental increase in interference with existing wells in the surrounding area.

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: Any increase in interference with existing wells will not meet the standard for substantial or undue interference given the thickness of the aquifer system in the Harney Basin.

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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: There are no perennial surface water sources in the vicinity of the authorized or proposed wells.

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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: \_\_\_\_\_

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

8. Any additional comments: none.

































