

Groundwater Transfer Review Summary Form

Transfer/PA # T- 13551

GW Reviewer D. Boschmann Date Review Completed: 04/22/2021

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-13551

Applicant Name: Blue Mountain Cattle, Inc.

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

Reviewer(s): Darrick E. Boschmann

Date of Review: 04/22/2021

Date Reviewed by GW Mgr. and Returned to WRSD: JTI 4/23/21

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: _____

_____ This application is related to certificates 44073 and 60731. _____

_____ Certificate 44073 authorizes groundwater pumping from one well (POD 1 = HARN 484) for primary irrigation of 202.2 acres in the Malheur Lake Basin. The following changes are proposed: _____

_____ 1. Add 2 APOA wells (HARN 514; HARN 51252* [located >5 mi. north]). _____

_____ 2. Rearrange the POU, including transfer of 3.5 acres for pond maintenance over 5 miles to the north. _____

_____ Certificate 60731 authorizes groundwater pumping from one well (POD 1 = HARN 514) for supplemental irrigation of 60.0 acres in the Malheur Lake Basin. The following changes are proposed: _____

_____ 1. Rearrange the POU. _____

_____ *HARN 51252 is a deepening log only. No original drillers log is found, and it is not known if this well meets well construction standards. _____

2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
 Yes No Comments: Available data indicates a predominantly volcanic/tuffaceous sedimentary rock unit occurs beneath a predominantly basin fill sediment unit. Reports for the Malheur Lake Basin indicate groundwater occurs in both the basin fill and underlying rocks. The groundwater is hydraulically connected, making 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 individual water-bearing beds in the valley fill and those in the adjacent and underlying tertiary rocks.

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.

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 nearest existing POA to proposed APOA HARN 514 is nearly 1.5 miles to the southeast; at this distance any increase in interference will be minimal. The nearest existing POA to proposed APOA HARN 51252 is nearly 1 mile to the south; at this distance and at the low rate/duty associated with this well any increase in interference will be minimal.
- 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: Both of the proposed APOA wells are further away from perennial sources of surface water than the currently authorized well.
- 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.

