Groundwater Transfer Review Summary Form

Transfer/PA # T- _13860_

GW Reviewer _Phillip I. Marcy_ Date Review Completed: _11/01/2023_

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.

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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-13860 Applicant Name: Stauffer Farm Inc.

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

Reviewer(s): Phillip I. Marcy Date of Review: 11/01/2023

Date Reviewed by GW Mgr. and Returned to WRSD: JTI 6/21/24

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: The applicant proposes to add several existing wells to the authorized POA wells on groundwater right GR-785. The POA change is the removal of MARI 772, with the APOA being the addition of other wells.

2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
   ☒ Yes ☐ No Comments: All wells produce from alluvium.

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.): 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 largest expected net change in pumping due to the proposed changes is the newly added MARI 69905. MARI 51008 authorized under Certificate 92328 is the nearest well to proposed APOA MARI 69905, at a distance of 1,235 feet.

MARI 69905 is currently authorized under Permit G-18537 at a maximum rate of 0.673 CFS, limited by the 80% exceedance flow in the resident WAB. Using parameters included in the original application review (G-18923; Travis Brown), an increase in pumping as a result of this transfer is likely to cause injury at MARI 51008, with expected seasonal drawdowns between 15-50 feet. If the maximum rate at MARI 69905 is maintained at the authorized rate under G-18537, however, the most reasonable estimates of drawdown lie between 11-16 feet. In addition, MARI 69905 is proposed as an APOA on GR Modification T-13861, where it, and a combination of other existing wells are replacing abandoned POA MARI 1016.

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: If the maximum pumping rate at MARI 69905 is maintained as currently authorized under Permit G-18537 and the resulting water right from T-13861, nearby rights are anticipated to receive the groundwater that they are legally entitled.

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 actions redistribute groundwater pumping toward the south and away from the unnamed tributary to the Pudding River in the area of the authorized POA wells. No additional pumping is proposed for the given WAB (PUDDING R> MOLALLA R- AB MILL CR).

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

Provide context for minimal/significant impact: NA

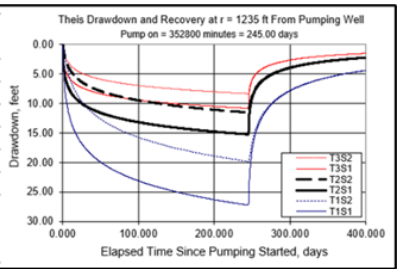
6. For SW-GW transfers, will the proposed change in point of diversion affect the surface water source similarly (as per OAR 690-380-2130) to the authorized point of diversion specified in the water use subject to transfer?

☐ Yes ☐ No Comments: NA

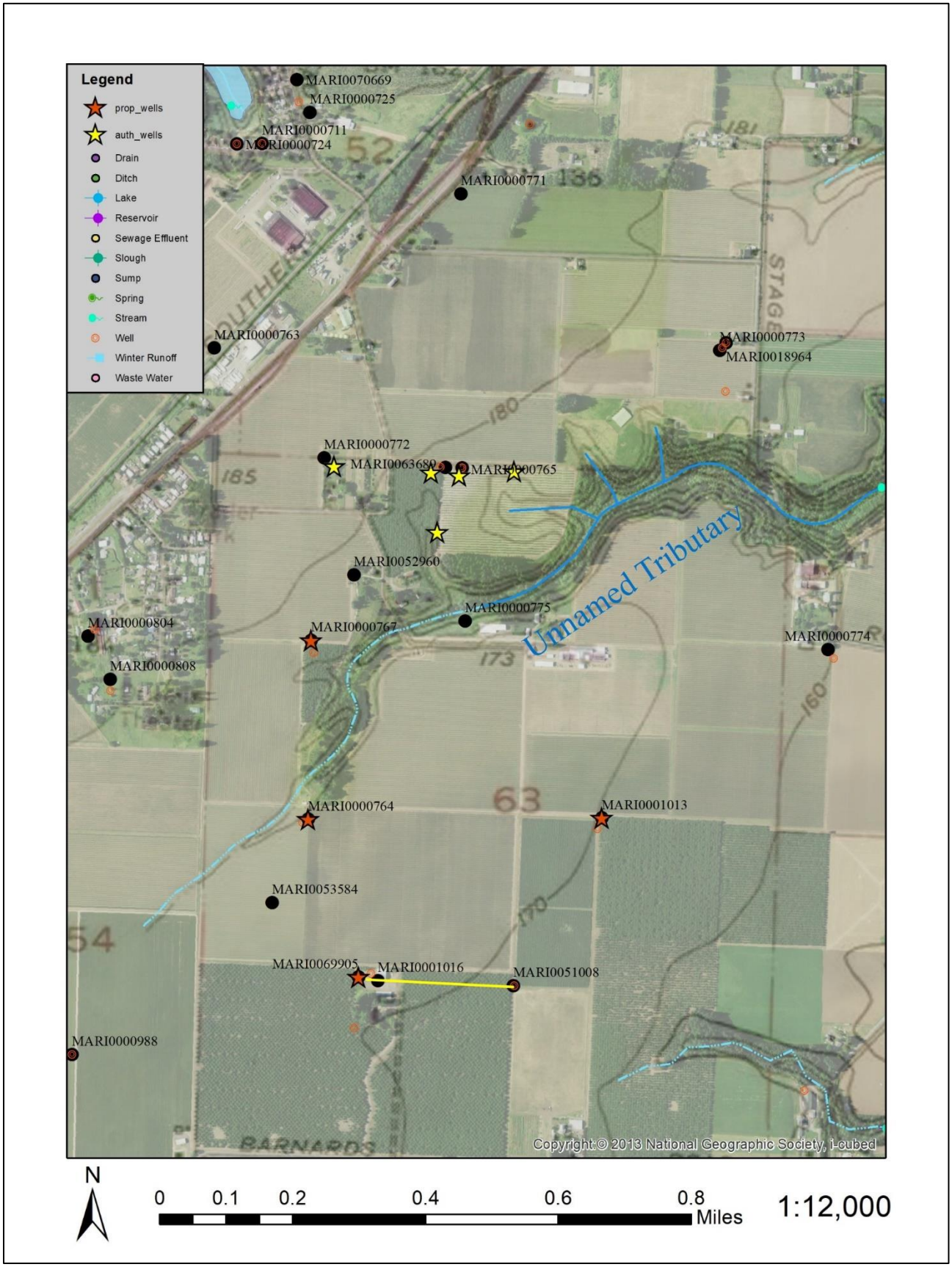
7. What conditions or other changes in the application are necessary to address any potential issues identified above: To avoid injury with nearby rights, proposed APOA MARI 69905 shall be limited to its previously authorized rates under Permit G-18923 and GR-751 for a total of 1.23 CFS.

8. Any additional comments:_____

Input Data:	Var Name	Scenario 1	Scenario 2	Scenario 3	Units
Total pumping time	t		245		d
Radial distance from pumped well:	r		1235		ft
Pumping rate	Q		0.673		cfs
Hydraulic conductivity	K	25	50	75	ft/day
Aquifer thickness	b		40		ft
Storativity	S_1		0.001		
	S_2		0.005		
Transmissivity Conversions	T_f2pd	1000	2000	3000	ft2/day
	T_ft2pm	0.69444444	1.38888889	2.08333333	ft2/min
	T_gpdpft	7480	14960	22440	gpd/ft



Drawdown calculations for MARI 69905 impacts to neighboring MARI 51008 at currently authorized rate of 0.673 CFS. Increases in rate at this proposed APOA may result in injury to neighboring right Certificate 92328.


Legend
prop_wells
auth_wells
Drain
Ditch
Lake
Reservoir
Sewage Effluent
Slough
Sump
Spring
Stream
Well
Winter Runoff
Waste Water
MARI0070669
MARI0000725
MARI0000711
MARI0000724
MARI0000771
MARI0000763
MARI0000773
MARI0018964
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MARI0063688
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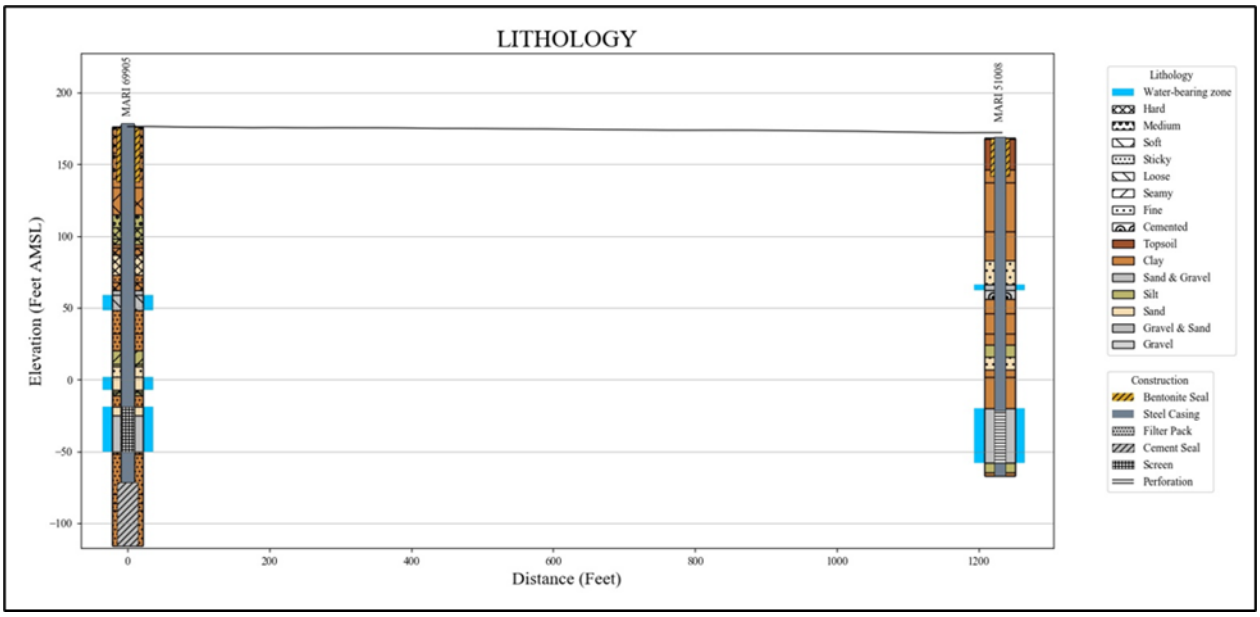
LITHOLOGY
MARI 69905
MARI 51008
Elevation (Feet AMSL)
200
150
100
50
0
−50
−100
0
200
400
600
800
1000
1200
Distance (Feet)
Lithology
Water-bearing zone
Hard
Medium
Soft
Sticky
Loose
Seamy
Fine
Cemented
Topsoil
Clay
Sand & Gravel
Silt
Sand
Gravel & Sand
Gravel
Construction
Bentonite Seal
Steel Casing
Filter Pack
Cement Seal
Screen
Perforation