



Oregon Water Resources Department
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Ground Water Review Form:

- Water Right Transfer
- Permit Amendment
- GR Modification
- Other

Application: T-11854

Applicant Name: Robinson Farm LLC

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

Reviewer(s): Jen Woody

Date of Review: 09/18/2014

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: T-11854 seeks a replacement well for the original POA (YAMH 6872) authorized by GR-2000, due to well deterioration.
 2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
 Yes No Comments: Nearby well logs show 40 to 60 feet of Willamette silt, underlain by 20 to 40 feet of sand and gravel, which is reported as the primary water bearing zone. The new POA is proposed as 150 feet deep, which would access the sand and gravel aquifer. YAMH 6872 is 29 feet deep. The proposed well is significantly deeper than the authorized well, and will access a deeper portion of the alluvial aquifer. The Willamette silt recharges the underlying coarser-grained materials, so the net effect on the system should be similar.
 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 new POA is proposed about 530 feet west of a POA associated with application G-15457, also in the name of Robinson Farm, which will increase well to well interference. A memo in file G-15457 describes an interference test conducted at a nearby well owned by McRae. The pumping well was located about 830 feet away from the well associated with G-12381(YAMH 453). Drawdown at a distance of 830 feet was approximately 2 feet after 3 hours of pumping at the McRae well. Potential interference after 120 days of pumping was estimated at 10 to 20 feet. Nearby wells are 100-150 feet deep and depth to water ranges from 8 to 26 feet, varying seasonally (see hydrograph). Interference should not bring the water level near the bottom of the well. Based on this observation, the cone of depression created at the proposed well is expected to be broad and shallow, and the increase in interference is not expected to prevent nearby water rights receiving water.

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: The new POA is 1870 feet farther from the South Yamhill River than the original POA. The South Yamhill River is incised into the Willamette Silt, and may actually penetrate the silt at this location. However, the new POA is located at a larger distance from the Yamhill River than the authorized POA, so increased interference is not expected.

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?

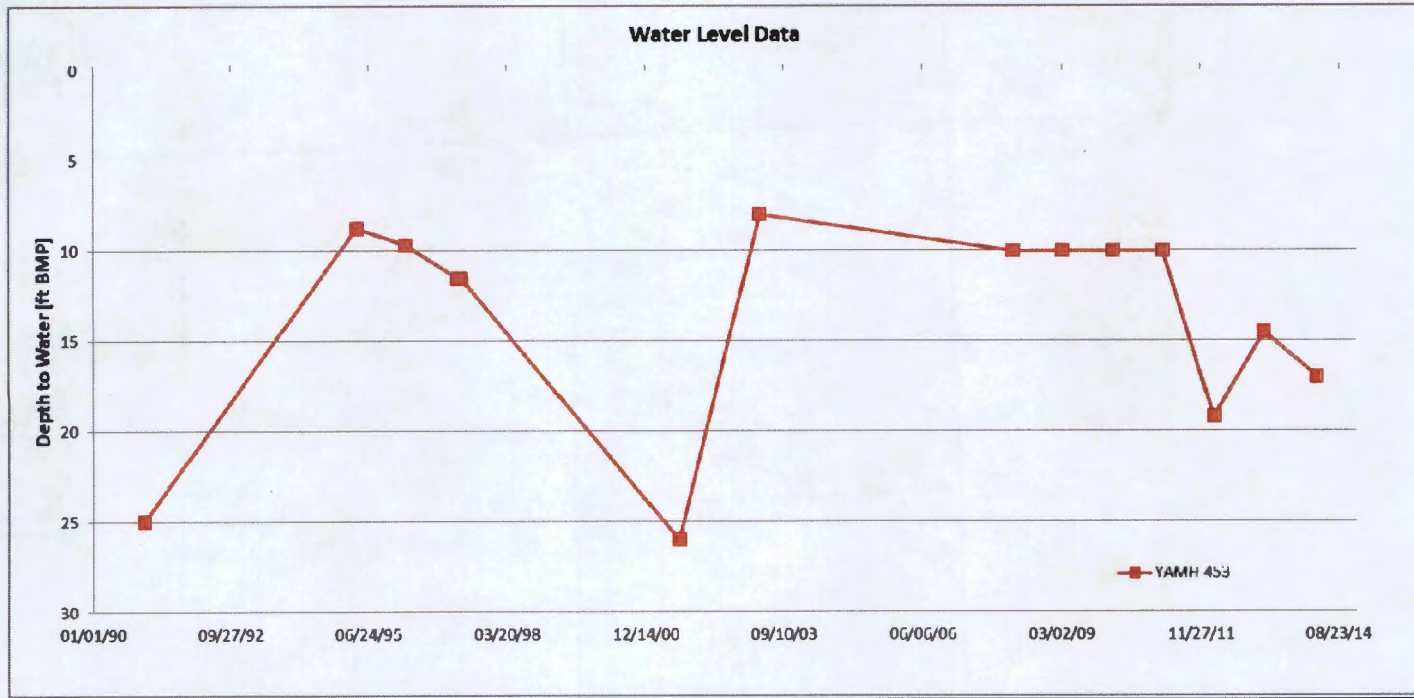
Stream: _____ Minimal Significant

Stream: _____ Minimal Significant

Provide context for minimal/significant impact: _____

6. What conditions or other changes in the application are necessary to address any potential issues identified above: _____

7. Any additional comments: _____



T-11854 Robinson Farm LLC

