

WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION

APPLICATION NO. Water Right Application No. G4-36176		
APPLICANT NAME Derek Doremus & Sara Swett	CONTACT NAME Jessica Berry	TELEPHONE NO. (509) 649-5271
WATER BANK Yakima River Mitigation Water Services LLC (S4-85150-J)		EMAIL

DATE OF APPLICATION 7/24/2023	PRIORITY DATE 7/24/2023
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WATER SOURCE: Groundwater (Well Tag AFH-678)	CROP: Unspecified
INSTANTANEOUS QUANTITY: 4.48 GPM	ANNUAL QUANTITY: 0.414 acre-feet/year
PERIOD OF USE: Continuous	
PLACE OF USE: SE $\frac{1}{4}$ of the NE $\frac{1}{4}$ of Section 18, Township 20N, Range 15E, within Kittitas County Kittitas County Parcel No. 18417	PURPOSE OF USE: Domestic and Irrigation of 500 sq ft
IRRIGATION METHOD: Unspecified	

CONSUMPTIVE USE CALCULATION:

Indoor Use: 1 residential connection(s) at 350 gallons per day (gpd) used continuously year-round equates to 0.392 ac-ft/yr of water use, or: Consistent with WAC 173-539A-050(3), 30% of domestic in-house use on a septic system is consumptively used, therefore: **indoor consumptive use (CU) = 0.118 ac-ft/yr.**

Outdoor Use: The requestor/applicant proposes to irrigate 500 ft² of lawn and/or garden. Using a crop irrigation requirement of 18.1 in/yr for pasture/turf near Cle Elum from the Washington Irrigation Guide, and an application efficiency of 80%, the total outdoor irrigation water use is 0.022 ac-ft/yr. Consistent with WAC 173-539A-050(3), 90% of outdoor use is consumptively used, therefore: **outdoor consumptive use = 0.019 ac-ft/yr.**

Total Consumptive Use = 0.137 ac-ft/yr

Parker Water Assignment = 0.024

Exchange Contract Water = 0.072 ac-ft/yr for the period September 1 to March 31

NARRATIVE DESCRIPTION OF PROJECT:

On July 24th, 2023, Ecology received a new groundwater application from Derek Doremus & Sara Swett. The applicant requests to use an existing groundwater well for domestic use and irrigation in the quantities specified above. The proposed water use constitutes an additional residential connection to an existing group B water system AB326 (Mountain Ridge). The groundwater well proposed as a point of withdrawal for this application also serves as the point of withdrawal for other senior water rights.

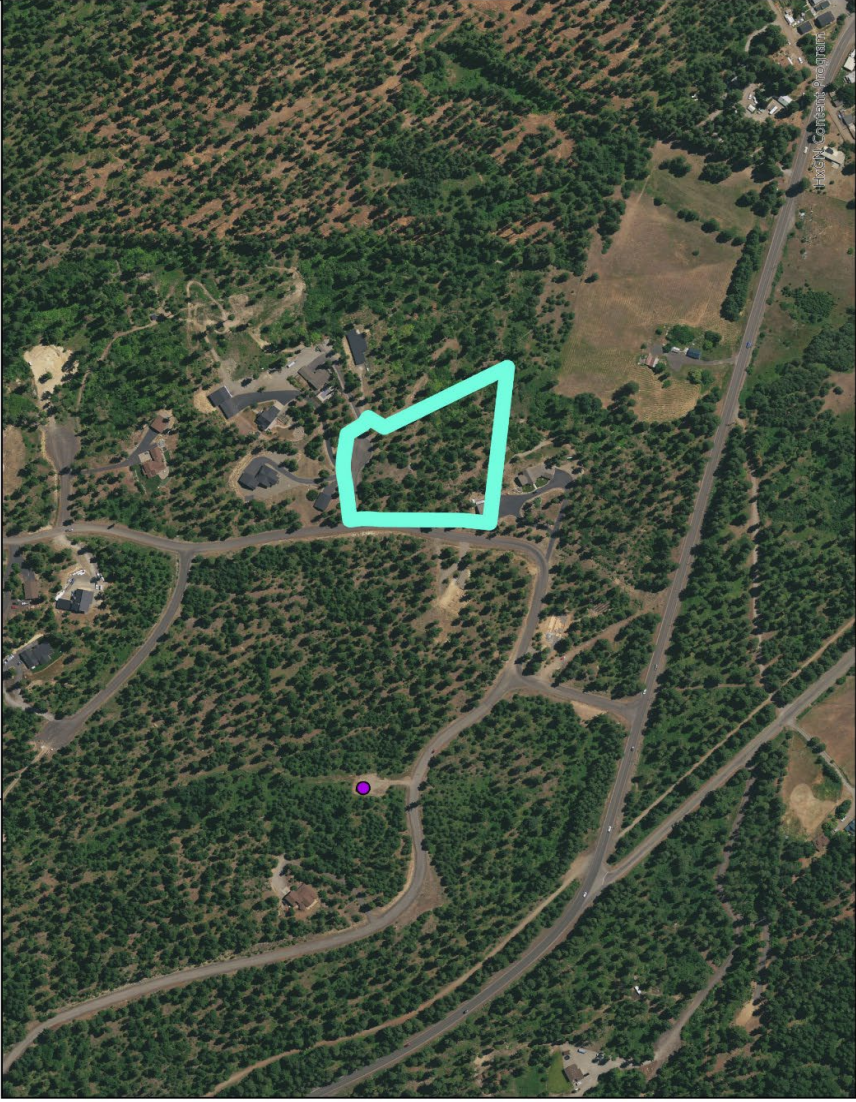
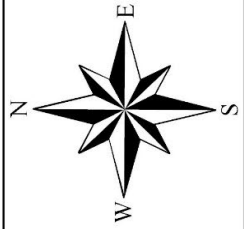
The subject well was drilled in 2001, to a depth of 412 feet with a 6-inch casing. Water is delivered by a single phase, 1-HP submersible pump and a single phase, 3-HP submersible booster pump, which uses two wellrite 120-gallon pressure tanks to deliver water through a 2-inch distribution line, splitting off to a 2-inch and an 8-ince line, which then feeds into a 65,000-gallon-capacity steel water storage tank. A flow meter at the well has been installed.

Withdrawals from the subject well are anticipated to have down-gradient impacts to the lower Cle-Elum River and the Yakima River. However, the applicant provided a contract showing they obtained an interest in Trust Water Right No. S4-85150-J through the Yakima River Mitigation Water Services LLC to offset the consumptive use portion of their water use. With this provided mitigation, Ecology believes that this new use will not impair any existing users.



WTWG Project form



Derek Doremus Water Right No. G4-36176 SE1/4 NE1/4 Section 18 Township 20N. Range 15E. WRIA 39 - Upper Yakima	
Place of use and source locations are defined in the Report of Examination for this project.	
Basemap: NAIP 2021 Aerial Photo	



Legend

-  G4-36176 Well
-  G4-36176 Place of Use

