

## WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION

<b>Application Number</b> Water Budget Neutral Request No. G4-36182	
<b>Applicant Name</b> Richie Donovan	<b>Priority Date</b> 10/30/2023
<b>Water Bank</b> Bourne	<b>Trust Water Rights No.</b> S4-83792-J
<b>Groundwater Source</b> Proposed well on County Parcel No. 955095.	<b>Purpose of Use</b> Domestic and irrigation of up to 500 square feet of lawn and/or garden.
<b>Instantaneous Quantity</b> 4.48 gpm	<b>Annual Quantity</b> 0.330 ac-ft/yr
<b>Place of Use</b> County Parcel No. 955095., located within the SE¼ NW¼ of Section 5, T. 19 N., R. 15 E.W.M.	

### Consumptive Use Calculation

**Indoor Use:** 1 residential connection(s) at 275 gallons per day (gpd) used continuously year-round equates to 0.308 ac-ft/yr of water use, or: Consistent with WAC 173539A050(3), 30% of domestic in-house use on a septic system is consumptively used, therefore: **indoor consumptive use (CU) = 0.092 ac-ft/yr.**

**Outdoor Use:** The requestor/applicant proposes to irrigate 500 ft<sup>2</sup> of lawn and/or garden. Using a crop irrigation requirement of 18.10 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 173539A050(3), 90% of outdoor use is consumptively used, therefore: **outdoor consumptive use = 0.019 ac-ft/yr.**

**Total Consumptive Use = 0.112 ac-ft/yr**

**Exchange Contract Water = 0.046 ac-ft/yr for the period September 16 to March 31**

### Narrative Description of Project

The project is located approximately 0.5 miles from the Yakima river near South Cle Elum Ridge in a "Yellow" area as noted on Ecology's current Mitigation Suitability Map (see attached map). Review of the local area hydrogeology suggests that existing users will not be affected, and that impacts from the new use will be felt by the Yakima River.

The applicant proposes to offset the 0.112 ac-ft/yr of consumptive use for the project with 0.112 ac-ft/yr of mitigation from Trust Water Right No. S4-83792-J. The Trust Water Right is from a tributary stream within the Yakima Basin, satisfying the environmental and fisheries benefit requirement.

Ecology will assign 0.046 ac-ft/yr from September 16 to March 31 to the USBR-Ecology Exchange Contract (Contract No. 09XX101700) to address impacts to the Yakima River.

# MAP OF THE PROJECT AREA

