

WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION

APPLICATION NO./COURT CLAIM NO.		
Water Budget Neutral Request No. G4-35635 with mitigation from Trust Water Right No. S4-02255(A)CTCL@2		
APPLICANT NAME	CONTACT NAME	TELEPHONE NO.
Kalum & Sarah Berg	Traci Shallbetter	(509) 260-0037
WATER RIGHT HOLDER'S NAME (if different)		EMAIL
Mitigation with SwiftWater Ranch LLC Trust Water Right		

DATE OF APPLICATION	PRIORITY DATE
July 16, 2013	

WATER SOURCE: Well (Ecology Tag No. APG200)	CROP: Lawn or noncommercial garden
INSTANTANEOUS QUANTITY:	ANNUAL QUANTITY: 0.414 acre-feet/year (afy)
PERIOD OF USE: Continuous for single indoor domestic connection and irrigation season for lawn and garden	
PLACE OF USE: Parcel No. 21159, located within the SE¼NW¼ of Section 26, T. 20 N., R. 16 E.W.M.	PURPOSE OF USE: Single domestic and Irrigation of 500 ft ² lawn or garden

<p>CONSUMPTIVE USE CALCULATION:</p> <p>Indoor use: One residential connection at 350 gallons per day (gpd) used continuously year round equates to 0.392 afy of water use, or: $(350 \text{ gpd per connection}) \times (365 \text{ days}) \times (\text{one connection}) \times (1.0 \text{ ac-ft}/325,851 \text{ gal}) = 0.392 \text{ afy}$ Consistent with WAC 173-539A-050(3), 30% of domestic in-house use on a septic system is consumptively used, therefore: Indoor consumptive use = $(0.392 \text{ afy}) \times (0.30) = \mathbf{0.118 \text{ afy}}$</p> <p>Outdoor use: The requestor proposes to irrigate 500 ft² of lawn and garden. Using a crop irrigation requirement of 18.11 in/yr (or 1.51 ft/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 afy, or: $[(1.51 \text{ ft/yr}) \div 0.80] \times (500 \text{ ft}^2 \div 43,560 \text{ ft}^2/\text{ac}) = 0.022 \text{ afy}$ Consistent with WAC 173-539A-050(3), 90% of outdoor use is consumptively used, so: Outdoor consumptive use = $(0.022 \text{ afy}) \times (0.90) = \mathbf{0.019 \text{ afy}}$</p> <p>As a result consumptive use (CU) for the project totals to 0.137 afy (CU April 1 to August 31 is 0.065 ac-ft and CU September 1 to March 31 is 0.072 ac-ft)</p>
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NARRATIVE DESCRIPTION OF PROJECT:

G4-35635 is located within the lower portion of the Teanaway River drainage approximately 5 miles east from the City of Cle Elum (see attached map below).

The requestor proposes to offset the 0.137 afy of consumptive use for the project (one residential connection and 500 ft² of lawn and garden) with 0.137 afy of mitigation water acquired from Trust Water Right No. S4-02255(A)CTCL@2. During the irrigation season, 0.017 ac-ft is assigned to the USBR-Ecology Exchange Contract (Contract No. 09XX101700) for potential release between September 16 and October 31 to address in-season impacts along the Yakima River. Additionally, to address out-of-season flow impacts to the Teanaway River, \$500 will be placed into an account to be used for one or more upstream or headwater riparian corridor projects.

Review of the local area hydrogeology suggests that the proposed groundwater withdrawals under G4-35635 will result in flow impacts to the Teanaway River and the Yakima River.

WTWG Project form

Map of G4-35635

