WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION

APPLICATION NO./COURT CLAIM NO.		
Water Budget Neutral Request No. G4-35781 with mitigation from Trust Water Right No. CS4-02255(A)CTCL@2		
APPLICANT NAME Corinna Bolender & Glen Rolfe	CONTACT NAME Traci Shallbetter	TELEPHONE NO. 509-260-0037
WATER RIGHT HOLDER'S NAME (if different) Mitigation with SwiftWater Ranch LLC Trust Water Right		EMAIL traci@shallbetterlaw.com

DATE OF APPLICATION	PRIORITY DATE
August 18, 2015	

WATER SOURCE:	CROP:
Well (AKW-792)	Lawn or noncommercial garden
INSTANTANEOUS QUANTITY: TBD	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. 17666, located within SW¼NE¼ and NW¼SE¼ of Section 22, T. 20 N., R. 15 E.W.M.	PURPOSE OF USE: Single domestic and Irrigation of 500 ft^2 lawn or garden
IRRIGATION METHOD:	

CONSUMPTIVE USE CALCULATION:

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 gpd per connection) x (365 days) x (one connection) x (1.0 ac-ft/325,851 gal) = 0.392 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 afy) x (0.30) = **0.118 afy**

Outdoor use: The requestor proposes to irrigate 500 ft^2 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 ft/yr) ÷ 0.80] x (500 ft^2 ÷ 43,560 ft^2/ac) = 0.022 afy
Consistent with WAC 173-539A-050(3), 90% of outdoor use is consumptively used, so:
Outdoor consumptive use = (0.022 afy) x (0.90) = **0.019 afy**

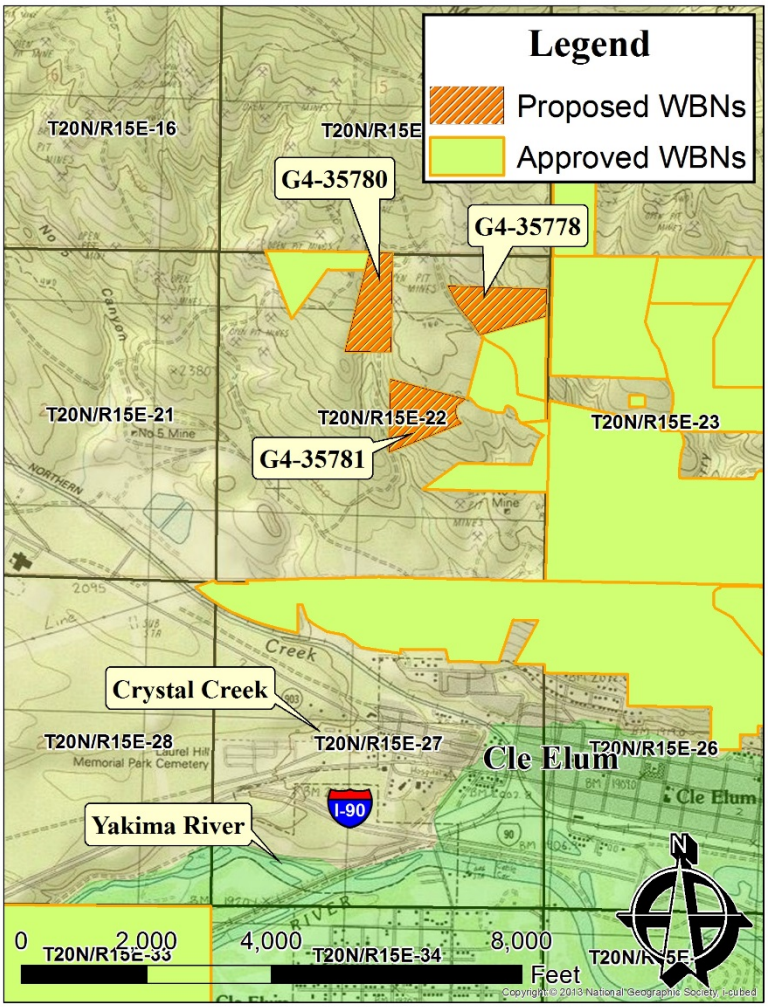
Total Use: 0.414 afy

Total Consumptive Use: 0.137 afy

NARRATIVE DESCRIPTION OF PROJECT:

The requestor proposes to offset the 0.137 afy of consumptive use for the project (one residential connection and 500 ft^2 of lawn and garden) with 0.137 afy of mitigation water acquired from Trust Water Right No. CS4-02255(A)CTCL@2. During the irrigation season, 0.072 ac-ft is assigned to the USBR-Ecology Exchange Contract (Contract No. 09XX101700) from September 1 to March 31 to address impacts along the Yakima River.

The proposed well for the new use is to be located in an "yellow" area as noted on the SwiftWater Ranch LLC suitability map. Review of the local area hydrogeology suggests that the proposed groundwater withdrawals under G4-35781 will result in flow impacts the lower portion of Crystal Creek and the Yakima River.

WTWG Project form

Location of G4-35781