

WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION

APPLICATION NO./COURT CLAIM NO.		
Water Budget Neutral Request No. G4-35779(A) with mitigation from Trust Water Right No. CS4-01939sb9		
APPLICANT NAME	CONTACT NAME	TELEPHONE NO.
Mark Berger	Anne Watanabe	509-945-0107
WATER RIGHT HOLDER'S NAME (if different)		EMAIL
Mitigation with Western Water Partner's (Kuchin) Trust Water Right		anew@inlandcellular.com

DATE OF APPLICATION	
August 6, 2015	

WATER SOURCE: Well(s)	CROP: Lawn or noncommercial garden
INSTANTANEOUS QUANTITY: TBD	ANNUAL QUANTITY: 0.989 acre-feet/year (afy)
PERIOD OF USE: Continuous for multiple indoor domestic connections and irrigation season for lawn and garden	
PLACE OF USE: Parcel Nos. 954986, 954988, and 954989, located within the SE ¹ / ₄ SW ¹ / ₄ of Section 16, T. 21 N., R. 14 E.W.M.	PURPOSE OF USE: Multiple Domestic Use (3 lots) and Total Irrigation of 1,500 ft ² lawn or garden

<p>CONSUMPTIVE USE CALCULATION:</p> <p>Indoor use: Three residential connection at 275 gallons per day (gpd) used continuously year round equates to 0.924 afy of water use, or: $(275 \text{ gpd per connection}) \times (365 \text{ days}) \times (\text{three connections}) \times (1.0 \text{ ac-ft}/325,851 \text{ gal}) = 0.924 \text{ afy}$ Consistent with WAC 173-539A-050(3), 30% of domestic in-house use on a septic system is consumptively used, therefore: Indoor consumptive use = $(0.924 \text{ afy}) \times (0.30) = \mathbf{0.277 \text{ afy}}$</p> <p>Outdoor use: The requestor proposes to irrigate 1,500 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 0.065 afy, or: $[(1.51 \text{ ft/yr}) \div 0.80] \times (1,500 \text{ ft}^2 \div 43,560 \text{ ft}^2/\text{ac}) = 0.065 \text{ afy}$ Consistent with WAC 173-539A-050(3), 90% of outdoor use is consumptively used, so: Outdoor consumptive use = $(0.065 \text{ afy}) \times (0.90) = \mathbf{0.058 \text{ afy}}$</p> <p>Total Use: 0.989 afy</p> <p>Consumptive Use: 0.336 afy</p> <p>Contract Water: 0.172 afy (equates to September 1 – March 31 use)</p>

NARRATIVE DESCRIPTION OF PROJECT:

The proposed uses are located along the east bank of Cle Elum Lake approximately 10 miles northwest from the city of Cle Elum in a “yellow” area as noted in the current Trust Water Right suitability map.

The requestor proposes to offset the 0.336 afy of consumptive use for the project (three residential connections and 1,500 ft² of lawn and garden) with 0.336 afy of mitigation water acquired from Trust Water Right No. CS4-01939sb9. During the irrigation season, 0.172 afy is assigned to the USBR-Ecology Exchange Contract (Contract No. 09XX101700) to address flow impacts to the Cle Elum River and Yakima River. In addition to the consumptive use of the project, Ecology will assign 0.057 ac-ft of the Trust Water Right to be managed within the Trust Water Right Program for instream flow purposes to benefit the Yakima River.

Review of the local area hydrogeology suggests that the proposed withdrawals under G4-34779(A) will result in flow impacts to Cle Elum Lake and potentially to Bell Creek located south of the subject lots.

WTWG Project form

Location Map for G4-35779(A)

