WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION

APPLICATION NO./COURT CLAIM NO.		
Water Budget Neutral Request No. G4-35527 with mitigation from Trust Water Right No. S4-05259CL@2sb7		
APPLICANT NAME David & Adrienne Kuhn	CONTACT NAME Kurt Walker - Ecology	TELEPHONE NO. 509-454-4237
WATER RIGHT HOLDER'S NAME (if different) Mitigation with Suncadia Trust Water Right		EMAIL

DATE OF APPLICATION	PRIORITY DATE
October 11, 2011	New use mitigated by trust water right with priority date of October 30, 1884

WATER SOURCE:	CROP:
well	Lawn or noncommercial garden
INSTANTANEOUS QUANTITY:	ANNUAL QUANTITY: 0.827 acre-ft/yr
PERIOD OF USE: Continuous for single indoor domestic connection and irrigation season for lawn and garden	
PLACE OF USE: Parcel No. 20500, located within the NW¼NW¼ of Section, T. 20 N., R. 15 E.W.M.	PURPOSE OF USE: Domestic use and Irrigation of 1,000 ft^2 lawn or garden
IRRIGATION METHOD:	

CONSUMPTIVE USE CALCULATION:

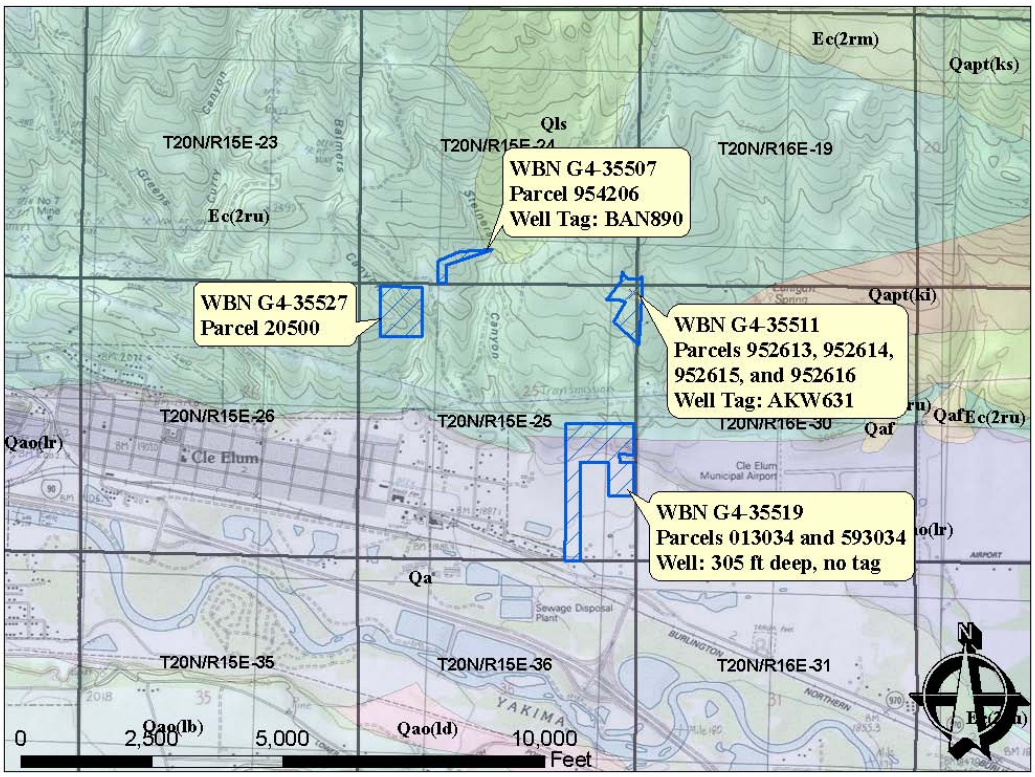
Indoor use: Two residential connections at 350 gallons per day (gpd) used continuously year round equates to 0.784 ac-ft/yr of water use, or:
(350gpd per connection) x (365 days) x (two connections) x (1ac-ft/325,851gal) = 0.784 afy.
Consistent with WAC 173-539A-050(3), 30% of domestic in-house use on a septic system is consumptively used, therefore:
Indoor consumptive use = (0.784 afy) x (0.30) = **0.235 ac-ft/yr**

Outdoor use: The requestor proposes to irrigate 1,000 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 0.043 ac-ft/yr, or:
[(1.51 ft/yr) ÷ 0.80] x (1,000 ft^2 ÷ 43560 ft^2/ac) = 0.043 ac-ft/yr
Consistent with WAC 173-539A-050(3), 90% of outdoor use is consumptively used, so:
Outdoor consumptive use = (0.043 ac-ft/yr) x (0.90) = **0.039 ac-ft/yr**

As a result consumptive use (CU) for the project totals to 0.274 ac-ft/yr
(CU April 1 to Aug 31 is 0.130 ac-ft and CU Sept 1 to Mar 31 is 0.144 ac-ft)

NARRATIVE DESCRIPTION OF PROJECT:

The requestor proposes to offset the 0.274 ac-ft/yr of consumptive use for the project (two residential connections and 1,000 ft^2 of lawn and garden) with 0.274 ac-ft/yr of mitigation water acquired from Trust Water Right No. S4-05259CL@2sb7. During the irrigation season, 0.144 ac-ft is assigned to the USBR-Ecology Exchange Contract (Contract No. 09XX101700) and released between Sept 1 to Mar 31 to address out of season impacts along the Yakima River. In addition, consistent with the Exchange Contract, Ecology plans to assign 0.048 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.

The proposed well for the new use is to be located in an area that needed additional information ("yellow area") to determine the suitability of the Suncadia Trust Water Rights for use as mitigation to offset the new use. Review of the local area hydrogeology suggests that withdrawals under the subject request will impact the Yakima River as well as the intermittent stream in Balmers Canyon. Copies of the Draft Hydrogeology Memo for the subject water budget neutral request are available on request from Ecology. For a copy, please contact Kurt Walker at (509) 454-4237, kwal461@ecy.wa.gov.

WTWG Project form