WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION

APPLICATION NO./COURT CLAIM NO.		
Water Budget Neutral Request No. G4-35443 with mitigation from Trust Water Right No. CS4-05259CL@2sb7		
APPLICANT NAME Art & Lisa Heightchew	CONTACT NAME Kurt Walker - Ecology	TELEPHONE NO. 509-454-4237
WATER RIGHT HOLDER'S NAME (if different) Mitigation with Suncadia Trust Water Right CS4-05259CTCL@2sb7		EMAIL kwal461@ecy.wa.gov

DATE OF APPLICATION	PRIORITY DATE
December 22, 2010	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: 0.414 acre-ft/yr
PERIOD OF USE: Continuous for single indoor domestic connection and irrigation season for lawn and garden	
PLACE OF USE: Parcel No. 501635, located within portions of Section 35, T. 23 N., R. 14 E.W.M.	PURPOSE OF USE: Single domestic and Irrigation of 500 ft^2 lawn or garden
IRRIGATION METHOD:	

CONSUMPTIVE USE CALCULATION:

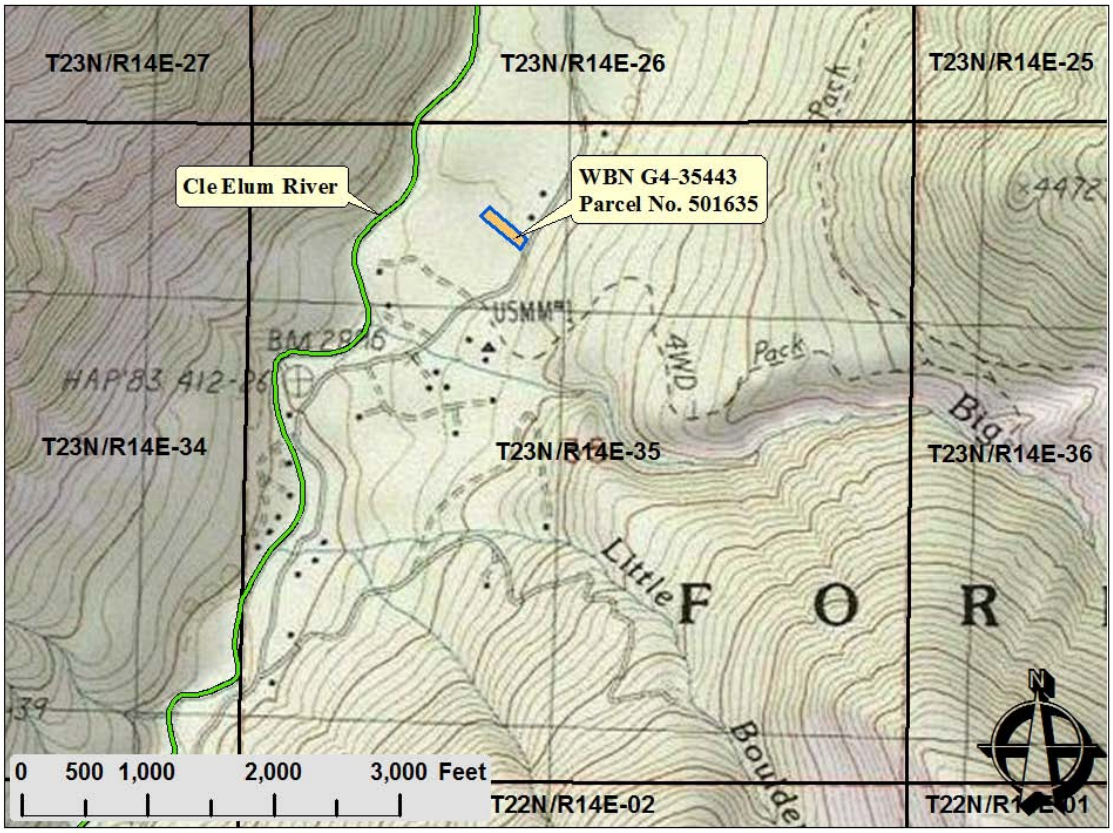
Indoor use: One residential connection at 350 gallons per day (gpd) used continuously year round equates to 0.392 ac-ft/yr of water use, or:
(350 gpd per connection) x (365 days) x (one connection) x (1ac-ft/325,850gal) = 0.392 afy
Consistent with WAC 173-539A-050(3), 30% of domestic in-house use on a septic system is consumptively used, therefore:
Indoor consumptive use = (0.392afy) x (0.30) = **0.118 ac-ft/yr**

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 ac-ft/yr, or:
[(1.51 ft/yr) ÷ 0.80] x (500 ft^2 ÷ 43560 ft^2/ac) = 0.022 ac-ft/yr
Consistent with WAC 173-539A-050(3), 90% of outdoor use is consumptively used, so:
Outdoor consumptive use = (0.022 ac-ft/yr) x (0.90) = **0.019 ac-ft/yr**

As a result consumptive use (CU) for the project totals to 0.137 ac-ft/yr
(CU April 1 to Aug 31 is 0.065 ac-ft and CU Sept 1 to Mar 31 is 0.072 ac-ft)

NARRATIVE DESCRIPTION OF PROJECT:

The requestor proposes to offset the 0.137 ac-ft/yr of consumptive use for the project (one residential connection and 500 ft^2 of lawn and garden) with 0.137 ac-ft/yr of mitigation water acquired from Trust Water Right No. CS4-05259CL@2sb7. During the irrigation season, 0.072 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 0.024 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 local topography, subject parcel location, geology, area wells logs, and locations of surface water bodies suggest that the proposed uses under request G4-35443 would, more likely than not, impact the Cle Elum River (tributary to the Yakima River) which is located approximately 550 feet to the west of the subject parcel. 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