

WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION

APPLICATION NO./COURT CLAIM NO.		
Water Budget Neutral Request No. G4-35608 with mitigation from Trust Water Right No. CS4-01676sb5d@3		
APPLICANT NAME	CONTACT NAME	TELEPHONE NO.
Jabridan LLC	Kurt Walker - Ecology	509-454-4237
WATER RIGHT HOLDER'S NAME (if different)		EMAIL
Mitigation with Clennon Trust Water Right		kwal461@ecy.wa.gov

DATE OF APPLICATION	PRIORITY DATE
April 15, 2013	New use mitigated by trust water right with priority date of June 30, 1900

WATER SOURCE:	CROP:
groundwater	Lawn or noncommercial garden
INSTANTANEOUS QUANTITY:	ANNUAL QUANTITY:
	0.422 acre-ft/yr
PERIOD OF USE:	
Continuous for single indoor domestic connection and irrigation season for lawn and garden	
PLACE OF USE:	PURPOSE OF USE:
Parcel Nos. 675934, 725934, and 665934, located within the SE¼NE¼ of Section 35, T. 20 N., R. 14 E.W.M.	Single domestic and Irrigation of 500 ft ² lawn or garden
IRRIGATION METHOD:	

<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: $(350 \text{ gpd per connection}) \times (365 \text{ days}) \times (\text{one connection}) \times (1.0 \text{ ac-ft}/325,851 \text{ gal}) = \mathbf{0.392 \text{ afy}}$ 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 consistent with the methodology used to calculate the Trust Water Right quantities, the outdoor total and consumptive use is as follows: Outdoor total use = $[(2.12 \text{ ft/yr}) \div 0.80] \times (500 \text{ ft}^2 \div 43,560 \text{ ft}^2/\text{ac}) = \mathbf{0.030 \text{ afy}}$ Consistent with WAC 173-539A-050(3), 90% of outdoor use is consumptively used, so: Outdoor consumptive use = $(0.030 \text{ afy}) \times (0.90) = \mathbf{0.027 \text{ afy}}$</p> <p>As a result consumptive use (CU) for the project totals to 0.145 afy (CU April 1 to Aug 31 is 0.074 ac-ft and CU Sept 1 to Mar 31 is 0.071 ac-ft)</p> <p>For detailed analysis of month-to-month uses see spreadsheet below.</p>

NARRATIVE DESCRIPTION OF PROJECT:

The requestor proposes to offset the 0.145 afy of consumptive use for the project (one residential connection and 500 ft² of lawn and garden) with 0.145 afy of mitigation water acquired from Trust Water Right No. CS4-01676sb5d@3. During the irrigation season, 0.089 ac-ft is assigned to the USBR-Ecology Exchange Contract (Contract No. 09XX101700) and released between August 1 and March 30 to address flow impacts along the Yakima River.

The proposed well for the new use is to be located in a “green” area as noted in the current Clennon mitigation suitability map. Review of the local area hydrogeology suggests that the proposed withdrawals under G4-35608 will result in flow impacts to the Yakima River west and south of the Jabridan LLC parcels.

For more information regarding the WBN request or local hydrogeology, please contact Kurt Walker at (509) 454-4237, kwal461@ecy.wa.gov.

Location of G4-35608



Total and Consumptive Use under G4-35608

Consumptive Use Calculator for WBN form and Contract water: **WRTS No. G4-35608 (Jabridan LLC)**
 Clennon Water Right CS4-01676sb5d@3

Assumptions for Irrigation:				Assumptions for Domestic:			
Assumed efficiency	0.8			total use per ERU	350	gpd	
% CU for outdoor use	0.9	per WAC		total use per ERU	0.001074	af per day	
Square feet to irrigate	500			#ERU	1		
Acreage	0.011			% CU	0.3	for septic system	

	Irrigation portion:				Indoor Domestic portion:		
	CIR (in/yr)	TIR per ac (AFY/ac)	TIR (afy)	CU (afy)	total use (AFY)	CU (AFY)	Total CU (afy)
Jan	0.00				0.0333	0.0100	0.0100
Feb	0.00				0.0301	0.0090	0.0090
Mar	0.00				0.0333	0.0100	0.0100
Apr	0.00				0.0322	0.0097	0.0097
May	2.04	0.2125	0.002	0.002	0.0333	0.0100	0.0122
Jun	5.85	0.6094	0.007	0.006	0.0322	0.0097	0.0160
Jul	7.35	0.7656	0.009	0.008	0.0333	0.0100	0.0179
Aug	7.63	0.7948	0.009	0.008	0.0333	0.0100	0.0182
Sept	2.55	0.2656	0.003	0.003	0.0322	0.0097	0.0124
Oct	0.00				0.0333	0.0100	0.0100
Nov	0.00				0.0322	0.0097	0.0097
Dec	0.00				0.0333	0.0100	0.0100
Total	25.42		0.030	0.027	0.392	0.118	0.145

Results: gray shaded cells= contract water

For WBN form:	
Total CU	0.145 AFY
Total use	0.422 AFY

For Contract form:	
CU (April 1 to July 31)	0.056 AFY
CU (Aug 1 to March 31)	0.089 AFY
Contract water	0.089 AFY
contract cost	\$70.49
(\$22 per afy of assigned water for 36 years)	

Assumes USBR release begins as early as August 1.

Total to add to IF at Parker:	0.000 AFY	1/3 of water assigned to contract.
Total to debit from TWR:	0.145 AFY	(Total CU) + (Total to add to IF at Parker)