

WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION

APPLICATION NO./COURT CLAIM NO.		
Water Budget Neutral Request No. G4-35594 with mitigation from Trust Water Right No. CS4-01676sb5d@2		
APPLICANT NAME	CONTACT NAME	TELEPHONE NO.
Larry & Linda Navarre	Kurt Walker - Ecology	509-454-4237
WATER RIGHT HOLDER'S NAME (if different)		EMAIL
Mitigation with Roth Trust Water Right		kwal461@ecy.wa.gov

DATE OF APPLICATION	PRIORITY DATE
January 10, 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:
	0.420 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 No. 10120, located within portions of the SE ¹ / ₄ NE ¹ / ₄ and NE ¹ / ₄ SE ¹ / ₄ of Section 5, T. 19 N., R. 15 E.W.M.	Single domestic and Irrigation of 500 ft ² lawn or garden
IRRIGATION METHOD:	

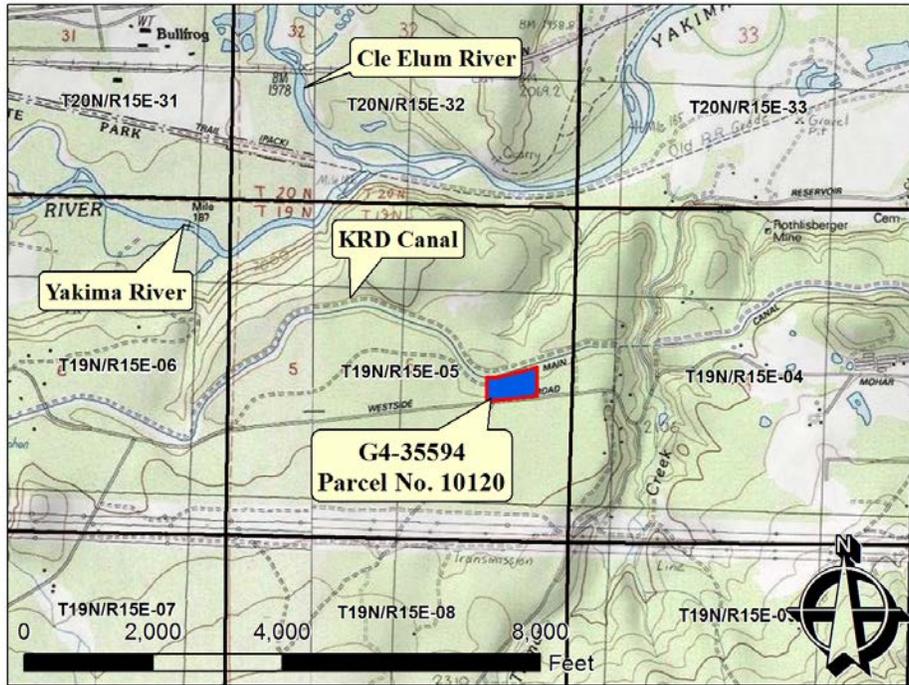
<p>CONSUMPTIVE USE CALCULATION:</p> <p>Indoor use: One residential connection at 350 gallons per day (gpd) used continuously year round equates to 0.392 afy of water use, or: $(350 \text{ gpd per connection}) \times (365 \text{ days}) \times (\text{one connection}) \times (1.0 \text{ ac-ft}/325,851 \text{ gal}) = 0.392 \text{ afy}$</p> <p>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 = $[(1.96 \text{ ft/yr}) \div 0.80] \times (500 \text{ ft}^2 \div 43,560 \text{ ft}^2/\text{ac}) = \mathbf{0.028 \text{ afy}}$</p> <p>Consistent with WAC 173-539A-050(3), 90% of outdoor use is consumptively used, so: Outdoor consumptive use = $(0.030 \text{ afy}) \times (0.90) = \mathbf{0.025 \text{ afy}}$</p> <p>As a result consumptive use (CU) for the project totals to 0.143 afy (CU April 1 to July 31 is 0.046 ac-ft and CU Aug 1 to Mar 31 is 0.088 ac-ft)</p> <p>For detailed analysis of month-to-month uses see spreadsheet below.</p>
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NARRATIVE DESCRIPTION OF PROJECT:

The requestor proposes to offset the 0.143 ac-ft of consumptive use for the project (one residential connection and 500 ft² of lawn and garden) with 0.143 ac-ft of mitigation water acquired from Trust Water Right No. CS4-01676sb5d@2. During the irrigation season, 0.088 ac-ft is assigned to the USBR-Ecology Exchange Contract (Contract No. 09XX101700) and released between August 1 and March 30 to address impacts along 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 Roth Trust Water Rights for use as mitigation to offset the new use. Review of the local area hydrogeology suggests that pumping under the proposed request will result in flow impacts to the unnamed stream located just north of the Navarre parcel. Copies of the Hydrogeology Memo are available on request from Ecology. For a copy, please contact Kurt Walker at (509) 454-4237, kwal461@ecy.wa.gov.

Location of G4-35594



Total and Consumptive Use under G4-35594

Consumptive Use Calculator for WBN form and Contract water: **WRTS No. G4-35594 (Navarre)**
 Roth Water Right CS4-01676b5d@2

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	1.88	0.1958	0.002	0.002	0.0333	0.0100	0.0120
Jun	5.41	0.5635	0.006	0.006	0.0322	0.0097	0.0155
Jul	6.83	0.7115	0.008	0.007	0.0333	0.0100	0.0173
Aug	7.06	0.7354	0.008	0.008	0.0333	0.0100	0.0176
Sept	2.35	0.2448	0.003	0.003	0.0322	0.0097	0.0122
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	23.53		0.028	0.025	0.392	0.118	0.143

Results: gray shaded cells= contract water

For WBN form:	
Total CU	0.143 AFY
Total use	0.420 AFY

For Contract form:		contract cost	\$69.70
CU (April 1 to July 31)	0.055 AFY	(\$22 per afy of assigned water for 36 years)	
CU (Aug 1 to March 31)	0.088 AFY		
Contract water	0.088 AFY	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:	0.143 AFY	(Total CU) + (Total to add to IF at Parker)