

WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION

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| APPLICATION NO./COURT CLAIM NO. | | |
| Water Budget Neutral Request No. G4-35602 with mitigation from Trust Water Right No. CS4-01676sb5d@2 | | |
| APPLICANT NAME Jon Montgomery | CONTACT NAME Kurt Walker - Ecology | TELEPHONE NO. 509-454-4237 |
| WATER RIGHT HOLDER'S NAME (if different) Mitigation with Roth Trust Water Right | | EMAIL kwal461@ecy.wa.gov |

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| DATE OF APPLICATION February 21, 2013 | PRIORITY DATE New use mitigated by trust water right with priority date of June 30, 1900 |
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| WATER SOURCE: groundwater | CROP: 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: Parcel No. 223034, located within the NE¼ of Section 25, T. 20 N., R. 15 E.W.M. | PURPOSE OF USE: Single domestic and Irrigation of 500 ft ² lawn or garden |
| IRRIGATION METHOD: | |

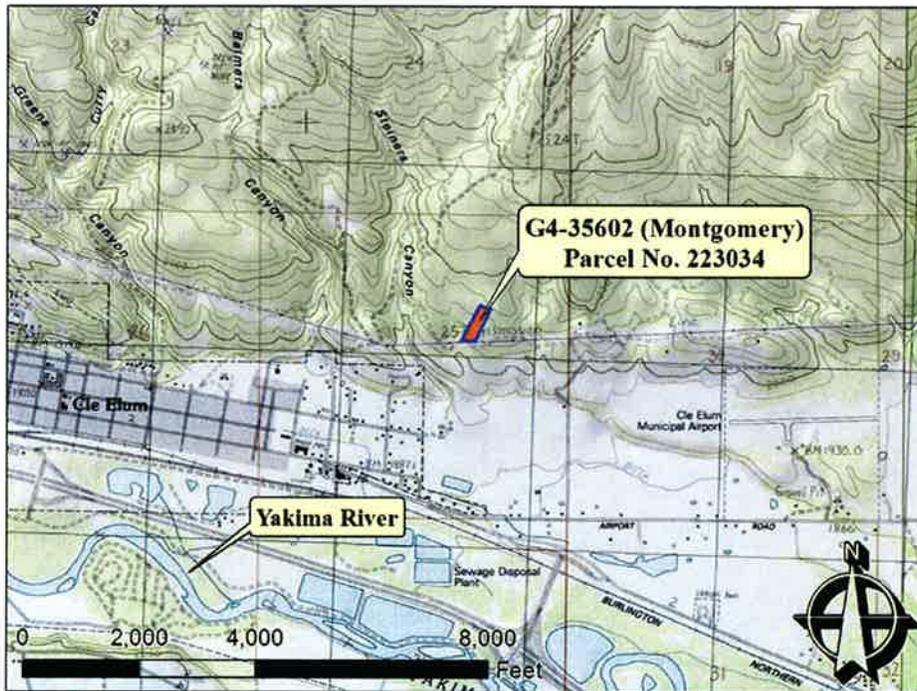
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| <p>CONSUMPTIVE USE CALCULATION:</p> <p>Indoor use: One residential connection at 350 gallons per day (gpd) used continuously year round equates to 0.392 afy of water use, or: $(350 \text{ gpd per connection}) \times (365 \text{ days}) \times (\text{one connection}) \times (1.0 \text{ ac-ft}/325,851 \text{ gal}) = 0.392 \text{ afy}$ 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 = $([(1.96 \text{ ft/yr}) \div 0.80] \times (500 \text{ ft}^2 \div 43,560 \text{ ft}^2/\text{ac})) = \mathbf{0.028 \text{ afy}}$ 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 0.055 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 afy of consumptive use for the project (one residential connection and 500 ft² of lawn and garden) with 0.143 afy 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 Clennon Trust Water Rights for use as mitigation to offset the new use. Review of the local area hydrogeology suggests that withdrawal under G4-35602 will result in flow impacts to the Yakima River south of the property and possibly to the intermittent stream within Steiners Canyon. For additional questions, please contact Kurt Walker at (509) 454-4237, kw461@ecy.wa.gov.

Location of G4-35602



Total and Consumptive Use under G4-35602

Consumptive Use Calculator for WBN form and Contract water: **WRTS No. G4-35602 (Montgomery)**

Roth Water Right CS4-01676sb5d@2

Assumptions for Irrigation:

Assumed efficiency
 % CU for outdoor use
 Square feet to irrigate
 Acreage

Assumptions for Domestic:

total use per ERU gpd
 total use per ERU af per day
 #ERU
 % CU 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:

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| Total CU | 0.143 AFY |
| Total use | 0.420 AFY |

For Contract form:

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|-------------------------|-----------|
| CU (April 1 to July 31) | 0.055 AFY |
| CU (Aug 1 to March 31) | 0.088 AFY |
| Contract water | 0.088 AFY |

contract cost
 (\$22 per afy of assigned water for 36 years)

Assumes USBR release begins as early as August 1.

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| 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) |