WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION

APPLICATION NO./COURT CLAIM NO.		
Water Budget Neutral Request – Meadow Ridge with mitigation from instream flow right CS4-01676(B)CTCL@1		
APPLICANT NAME Northland Investments, Inc.	CONTACT NAME David Blanchard	TELEPHONE NO. (509) 674-6828
WATER RIGHT HOLDER'S NAME (if different) Scatter Creek, LLC		EMAIL

DATE OF APPLICATION	PRIORITY DATE
April 26, 2010	June 30, 1900

WATER SOURCE:	CROP:
well	Lawn or noncommercial garden
INSTANTANEOUS QUANTITY: 50 gpm	ANNUAL QUANTITY: 5.1 acre-ft/yr
PERIOD OF USE: Continuous	
PLACE OF USE: Parcel No. 20-15-26057-0003 (19165)	PURPOSE OF USE: Single domestic and irrigation
IRRIGATION METHOD:	

CONSUMPTIVE USE CALCULATION:

October through May water use is calculated at 0.06 to 0.07 af/month consumptive use, or 0.47 af for wintertime, which will not impact the Yakima River during the irrigation season at Parker.

Indoor use: Maximum day demand of 350 gallons per day per connection (gpd/connection), and average day demand of 200 gpd/connection. For 12 residential connections at 200 gpd/connection used continuously year round equates to 2.7 ac-ft/yr of water use, or:
(200 gpd per connection) x (365 days) x (14 connections) x (1ac-ft/325,851gal) = 3.1 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 = (2.7 afy) x (0.30) = **0.94 ac-ft/yr**

Outdoor use: The requestor proposes to irrigate a total of 2,500ft^2 of lawn and garden per connection. Using a crop irrigation requirement of 24 in/yr (or 2.0 ft/yr) for grass near Cle Elum calculated using the ASCE Penman-Montieth method and an application

efficiency of 80%, the total outdoor irrigation water use for 14 connections is 2.01 ac-ft/yr, or:
14 x [(2.0ft/yr) ÷ 0.80] x (2,500ft^2 ÷ 43560 ft^2/ac) = 2.01 ac-ft/yr
Consistent with WAC 173-539A-050(3), 90% of outdoor use is consumptively used, so:
Outdoor consumptive use = (2.01 ac-ft/yr) x (0.90) = **1.81 ac-ft/yr**

As a result consumptive use (CU) for the project totals to 2.75 ac-ft/yr
(CU April 1 to September 30 is 2.20 ac-ft and CU Sept 1 to Mar 31 is 0.55ac-ft)

NARRATIVE DESCRIPTION OF PROJECT:

The requestor proposes to offset the 2.75 ac-ft/yr of consumptive use for the project (12 residential connections with 2,500 ft^2 of lawn and garden) with 2.75 ac-ft/yr of mitigation water acquired from Trust Water Right No. CS4-01676(B)CTCL@1. During the irrigation season, 0.55 ac-ft will be stored and released between Sept 1 to Mar 31 to ensure that the new exempt use is water budget neutral at Parker year round and will meet flow conditions in the Easton Reach.