WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION

APPLICATION NO./COURT CLAIM NO. G4-35541 through G4-35548 (8groundwater permit applications, one for each of 8 different sources of public groundwater)		
APPLICANT NAME J.P. & Jan Roan	CONTACT NAME Jessica Kuchan, Mentor Law Group	TELEPHONE NO. (206) 838-7650
WATER RIGHT HOLDER'S NAME (if different) J.P. and Jan Roan		EMAIL kuchan@mentorlaw.com

DATE OF APPLICATION Dec. 1, 2011	PRIORITY DATE 12-01-2011

WATER SOURCE: Groundwater w/in Swauk Creek Subbasin	CROP: (lawn, landscape)
INSTANTANEOUS QUANTITY: 1000 gpm	ANNUAL QUANTITY: 61.86 af/yr
PERIOD OF USE: Year-round	
PLACE OF USE: Within Sections 1, 2, 12, and 13, of T. 19 N., R. 16 E.W.M.; Sections 3, 4, 5, 6, 7, 8, 9, 10, 16, 17, 18, 19, and 20, T. 19 N., R. 17 E.W.M.; Section 36, of T. 20 N., R. 16 E.W.M.; Sections 13, 14, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 31, 32, 33, 34, and 35, T. 20 N., R. 17 E.W.M.; Sections 19 and 30, T. 20 N., R. 18 E.W.M., Kittitas County, Washington.	PURPOSE OF USE: Continuous domestic supply for up to 145 residences in individual or small public water system development; and each residence being limited to 500 square feet of irrigation, for a total of 1.664 acres of irrigation.
IRRIGATION METHOD: Various – small sprinkler systems.	

CONSUMPTIVE USE CALCULATION:
Total Annual Domestic use CU: 350 gpd x 365.25 days/yr x 145 residences x 0.3 CU [= 5,560,931.1 gallons, divided by 325,851 gallons per acre-foot] = 17.07 af/yr CU (17.06587 af/yr CU);
Domestic use from April 1 – Oct. 15 CU: 350 gpd x 198 days x 145 residences x 0.3 CU = [3,014,550 gallons, divided by 325,851 gallons per acre-foot] = 9.25 af CU (9.2513142 af CU);
Domestic use from Oct. 16 – March 31 CU: 350 gpd x 167.25 days x 145 residences x 0.3CU = [2,546,381.2 gallons, divided by 325,851 gallons per acre-foot] = 7.82 af CU (7.8145569 af CU);
Irrigation use from April 1 through Oct. 15 CU: 1.664 acres x 2.391 af/yr 'WIG' divided by 0.8 efficiency x 0.9 CU = 4.48 af/yr CU (4.475952 af/yr CU);
- **"Winter" CU (10/16-3/31): 7.82 af CU**;
- **"Irrigation Season" CU (4/1-10/15):** Domestic CU (9.25 af) + Irrigation CU (4.48 af) = **13.73 af CU;**
- **TOTAL ANNUAL CU:** "Winter" CU (7.82 af) + "Irrigation Season" CU (13.73 af) = **21.55 AF CU** (21.542 af CU)

NARRATIVE DESCRIPTION OF PROJECT:
J.P. and Jan Roan are working with Suncadia and Mentor Law Group to create this Swauk Creek water bank to utilize water previously placed in the State Trust Water Rights Program to mitigate for up to 145 new residences within a defined portion of the Swauk Creek subbasin. Up to 100 wells would supply water to these new residences, using a combination of individual and small public water systems, each home irrigating 500 square feet of lawn and landscape.
The maximum total Qi instantaneous withdrawal from all of these 'up to 100' wells will be 1,000 gpm.
The maximum total Qa annual withdrawal from all of these wells will be 61.86 af/yr. This is based on a total groundwater withdrawal of 56.89 af/yr for continuous domestic supply for up to 145 homes (30% is CU) and 4.97 af/yr for irrigation of 1.664 acres from April 1- October 15 each year (80% irrigation system efficiency; 90% is CU).
WTWG conceptually reviewed this Swauk Creek water banking proposal in June 2010 as WTWG 2010-42, submitted by Roan/Suncadia.

WTWG Project form