

WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION

APPLICATION NO./COURT CLAIM NO.		
05216		
APPLICANT NAME	CONTACT NAME	TELEPHONE NO.
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WATER RIGHT HOLDER'S NAME (if different)		EMAIL
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DATE OF APPLICATION	PRIORITY DATE
September 20, 2011	August 1, 1887

WATER SOURCE:	CROP:
Iron Mountain Creek	Pasture
INSTANTANEOUS QUANTITY:	ANNUAL QUANTITY:
<u>Existing:</u> (1) 1.97 cfs (Irrigation) (2) 0.02 cfs (Domestic Supply) (3) 0.01 cfs (Stock-Water)	<u>Existing:</u> (1) 720 (Irrigation) (2) 2 (Domestic Supply) (3) 2 (Stock-Water)
<u>Proposed:</u> (1) 1.64 cfs (Irrigation) (2) 0.33 cfs (Instream Flow) (3) 0.02 cfs (Domestic Supply) (4) 0.01 cfs (Stock-Water)	<u>Proposed:</u> (1) 600 af/yr (Irrigation) (2) 120 af/yr (Instream Flow) (3) 2 af/yr (Domestic Supply) (4) 2 af/yr (Stock-Water)
PERIOD OF USE:	
<u>Existing:</u> (1) April 1 through October 31 (2) Continuously (3) Continuously	<u>Proposed:</u> (1) April 1 through October 31 (2) April 1 through October 31 (3) Continuously (4) Continuously
PLACE OF USE:	PURPOSE OF USE:
<u>Existing:</u> W $\frac{1}{2}$ SE $\frac{1}{4}$ and NE $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 4, T. 19 N., R. 15 E.W.M.	<u>Existing:</u> (1) Irrigation of 60 acres (2) Domestic supply (3) Stock water
<u>Proposed:</u> (1) Irrigation of 50 Acres, (3) domestic supply and (4) stock water: W $\frac{1}{2}$ SE $\frac{1}{4}$ and NE $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 4, T. 19 N., R. 15 E.W.M. (2) Instream flow for water banking: Primary Reach A: Point of Diversion to confluence of Iron Mountain Creek and Tillman Creek	<u>Proposed:</u> (1) Irrigation of 50 acres (2) Instream flow to create a trust water right for water banking purposes (3) Domestic supply (4) Stock water

Primary Reach B: Confluence of Tillman Creek to the Yakima River	
Secondary Reach: End of Primary Reach A to the confluence of the Yakima and Columbia Rivers	
IRRIGATION METHOD:	

CONSUMPTIVE USE CALCULATION:

Using the equations for total and consumptive use (CU) in Ecology's Guidance 1210, consumptive use per acre should be calculated as the total irrigation requirement (TIR) times the percent evaporation (%EVAP) plus the crop irrigation requirement (CIR). Multiplying by the irrigated acreage gives us the total consumptive use, as follows:

$$CU = (TIR \times \%EVAP + CIR) \times \text{Acreage}$$

The TIR for the Water Right, based on full use of the water right as confirmed in *Acquavella*, is 720 acre-feet for irrigation of 60 acres, resulting in a TIR of about 12 acre-feet per year per acre (afy/acre).

A CIR for pasture grass/turf of 18.11 inches (1.51 afy/acre or 90.6 afy) was calculated using the Washington Irrigation Guide for pasture grass/turf crop located in the vicinity of Cle Elum, Washington (WIG Appendix B-25a).

The property is irrigated predominately using flood irrigation with some sprinklers, for which Guidance 1210 recommends a %EVAP of 5 percent.

Applying these values, consumptive use associated with irrigation use under this right is estimated as:

$$CU = (12.00 \text{ afy/acre} \times .05 + 1.51 \text{ afy/acre}) \times 60 \text{ acres} = 126.60 \text{ acre-feet per year}$$

This equates to a consumptive use per acre of approximately 2.1 afy/acre.

The acreage irrigated with the consumptive use associated with the Instream Flow Right, before the Instream Flow Right can be used for water banking purposes, will need to be fallowed. Without fallowing the Instream Flow Right, when used for water banking purposes will result in an expansion of the water right that will have a detrimental effect on Total Water Supply Available ("TWSA"). The acreage to be fallowed is 10 acres that can be fallowed within the authorized place of use. The fallowing of 10 acres results in 21 acre-feet per year of consumptive use and 99 acre-feet per year of nonconsumptive use.

NARRATIVE DESCRIPTION OF PROJECT:

This application (KIT-11-10) involves the change in place of use and purpose of use of a portion of the irrigation portion of the water right that was confirmed in *Ecology v. Acquavella* in Subbasin No. 7 under Court Claim No. 05216.

The application seeks to split the irrigation portion of the water right that is the subject of this application into an irrigation right and an instream flow right.

The applicant proposes to change the purpose of use of 120 acre-feet per year of the water right from irrigation of 10 acres to instream flow to create a trust water right for future water banking purposes.

The application does not seek to change the place, point of diversion or purpose of use of 1.64 cfs, 600 acre-feet per year, which is the portion of the water right used for the irrigation of 50 acres within the existing place of use as described above.

The application also does not seek to change the quantity, place of use, point of diversion or purpose of use of the portion of the water right used for domestic supply and stock-water as described above.

The portion of the water right that will be used for water banking purposes as noted above will be subject to a Trust Water Right Agreement that will control the specifics of how, when, where and in what quantities the portion of the water right can be used for water banking purposes. Until the water is purchased from the water bank it will remain in trust and be used for instream flow purposes as a portion of the Iron Mountain Creek and Tillman Creek instream flow.

WTWG Project form