

WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION

APPLICATION NO./COURT CLAIM NO.		
CS4-01106sb16@1/Court Claim No. 1106		
APPLICANT NAME Rocky Mountain Faith Mission/Flying H Youth Ranch	CONTACT Scott Turner	CONTACT'S TELEPHONE NO (509) 457-7106
WATER RIGHT HOLDER'S NAME (if different) Same		CONTACT'S EMAIL scott.turner@ecy.wa.gov

DATE OF APPLICATION March 2, 2018	PRIORITY DATE June 30, 1892
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WATER SOURCE: 2 Wells (one existing and one proposed) 2 Diversions (headwaters for Carmack-Parker Ditch and Naches River Slough)	CROP: Pasture
INSTANTANEOUS QUANTITY: 0.754 cfs	ANNUAL QUANTITY: 87 ac-ft/yr
PERIOD OF USE: Continuous for domestic supply and stockwater, 04/01 through 10/31 for irrigation	
PLACE OF USE: Parcel Nos. 151511-51013, 151511-31003, 151511-31002, 151511-42004, 151511-32004, 151511-44003, 151511-43001, 151511-41004 All property owned by Flying H Youth Ranch, Inc., generally within the S $\frac{3}{4}$ of Section 11, the NE $\frac{1}{4}$ NE $\frac{1}{4}$ of 12 and the SW $\frac{1}{4}$ of SW $\frac{1}{4}$ of 14 south of the Naches River, Township 15 N., Range 15 E.W.M.	PURPOSE OF USE: Irrigation, Stockwater, and Domestic Supply
IRRIGATION METHOD: Sprinkler irrigation (k-line)	

CONSUMPTIVE USE CALCULATION: Ecology and Flying H Youth Ranch, Inc. agreed that the five-year period pre-dating the 1996 flood from 1991 to 1995 in their settlement agreement, which includes the 1993 Acquavella Court CFO. At that time, 29 acres were being irrigated each year. Ecology typically calculates consumptive use based on the Washington Irrigation Guide (WIG). The closest WIG station is in Yakima, which provides for 37.28 inches (3.1 feet) for pasture. However, this exceeds the 3 acre-feet/acre duty awarded by the Court. Cle Elum is a potential surrogate as another station that is in the rainshadow of the Cascades, which provide a pasture irrigation requirement of 18.11 acre-feet/acre (1.51 feet). GUID 1210 provides an average efficiency of 50% for flood irrigation, which coupled with the Cle Elum water duty would provide an overall water duty similar to what the Court awarded. The consumptive use fraction for flood irrigation

of 3 acre-feet/acre is 55% from GUID 1210, which would equate to a consumptive duty of 1.65 acre-feet/acre.

Based on 29 acres and 1.65 acre-feet/acre, the ACQ is 47.85 acre-feet. Future consumptive use cannot exceed 47.85 acre-feet.

Future consumptive use on 16 acres is projected to occur based on sprinkler irrigation (e.g. K-line), which is akin to periodic-move handlines in GUID 1210, with an average efficiency of 75% and a consumptive use of 85%. Based on 18.11 acre-feet irrigation water requirement, a 75% efficiency, and an 85% consumptive use, then 16 acres will exert a consumptive use of 27.37 acre-feet.

Based on an ACQ of 47.85 acre-feet less 27.37 acre-feet for irrigation, this leaves 20.48 acre-feet of consumptive use for domestic uses, stockwater uses, and other ancillary consumptive uses (e.g. ditch evaporative loss will stay approximately the same before and after the change). Most of this use is by domestic uses discharging to septic tanks and returning to the Naches River. Under the Upper Kittitas Rule (WAC 173-539A) in a roughly analogous geographic setting, domestic uses discharging to septic tanks is afforded a 30% consumptive use fraction. Under the proposed quantity allocated for domestic and stockwater use of 39 acre-feet, applying this consumptive fraction results in 11.7 acre-feet—far less than the 20.48 acre-feet of consumptive use available without jeopardizing the ACQ.

NARRATIVE DESCRIPTION OF PROJECT:

The requestor proposes to change the place of use, add two purposes of use, change the point of diversion, and add two points of withdrawal.

SOURCE FACILITY/DEVICE	PARCEL	WELL TAG	TWN	RNG	SEC	QQ Q
Headwaters for Carmack-Parker Ditch	151511-21013		15N	15E	11	SE $\frac{1}{4}$ NW $\frac{1}{4}$
Well No. 1	151511-31003	BJA155	15N	15E	11	NE $\frac{1}{4}$ SW $\frac{1}{4}$,
Proposed Well No. 2	Within: 151511-21013, 151511-31003, 151511-31002, 151511-32004	TBD	15N	15E	11	Within: SE $\frac{1}{4}$ NW $\frac{1}{4}$, NE $\frac{1}{4}$ SW $\frac{1}{4}$, or NW $\frac{1}{4}$ SE $\frac{1}{4}$
Naches River Slough	151511-44003		15N	15E	11	SE $\frac{1}{4}$ SE $\frac{1}{4}$

