

WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION

APPLICATION NO./COURT CLAIM NO. G4-35537		
APPLICANT NAME Allwest, LLC c/o Mitchell & Julie Williams	CONTACT NAME Jeff Slothower	TELEPHONE NO. 509.925-8093
WATER RIGHT HOLDER'S NAME (if different) CS4-01968sb11a-Amerivest_Class 3		EMAIL jslothower@lwhsd.com

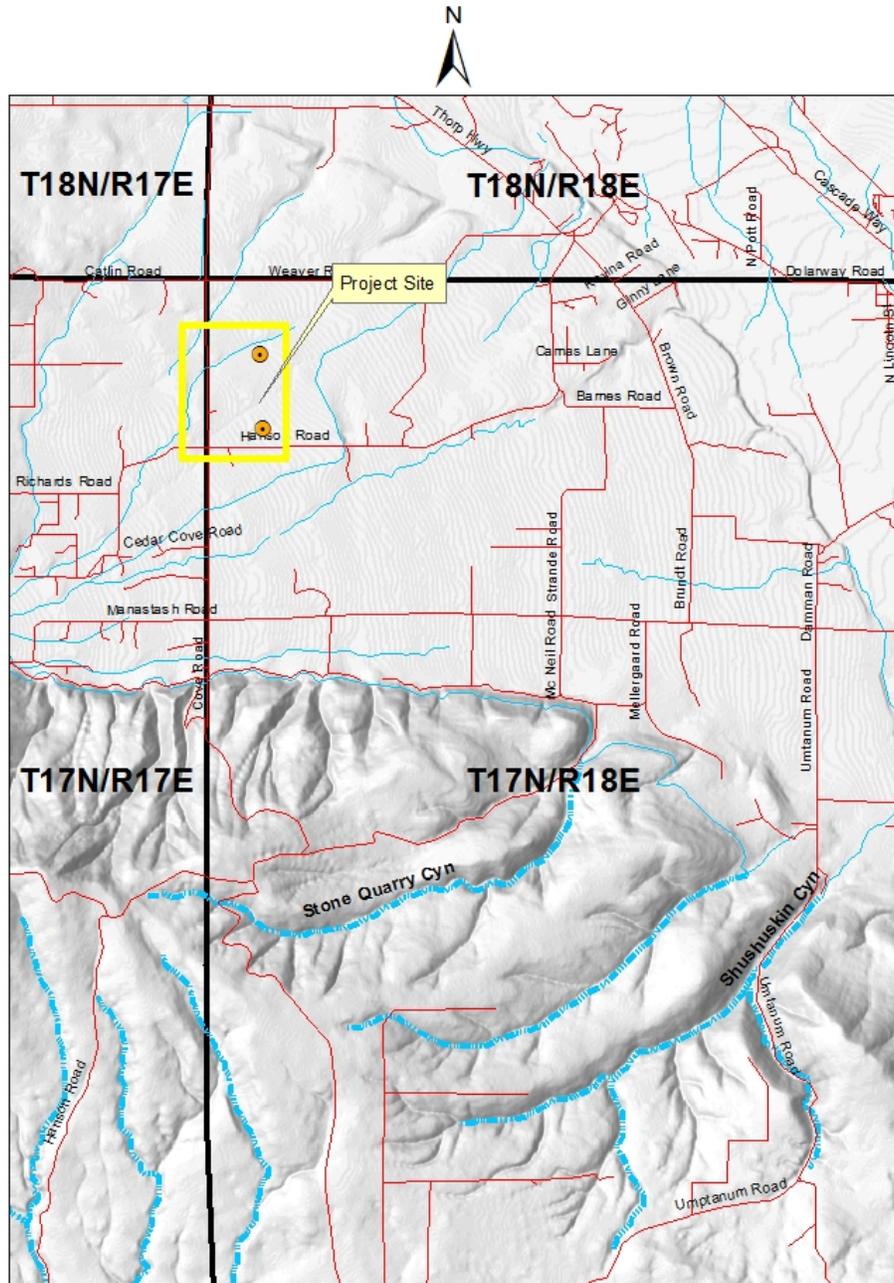
DATE OF APPLICATION December 23, 2011	PRIORITY DATE December 23, 2011
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WATER SOURCE: 2 Wells	CROP: Irrigation will be provided through KID.
INSTANTANEOUS QUANTITY: Proposes up to 50 gpm to be shared between 2 sources.	ANNUAL QUANTITY: 4.03 total consumptive use divided between the two proposed wells.
PERIOD OF USE: Year-round continuous/seasonal	
PLACE OF USE: Lower Kittitas Lots 20 of that certain survey filed in book 29 of Surveys, page 174, under Kittitas County Auditor's File No. 200312040048. Parcel ID No. 19375 (Sec. 7, T. 17 N., R. 18 E.W.M.)—refer to map attachment	PURPOSE OF USE: Proposal is for 16 residences, for (2) Group B, DOH-approved (pending) water systems.
IRRIGATION METHOD: unspecified	

<p>CONSUMPTIVE USE CALCULATION: 4.03 acre-feet per year for multiple domestic as determined by Ecology's consumptive use calculator, available at http://www.ecy.wa.gov/programs/wr/cwp/wtrxchg-wbn.html.</p> <p>Indoor use: 16 residential connections at 225 gallons per day (gpd) used continuously year round equates to 0.392 ac-ft/yr of water use, or: (225gpd per connection) x (365 days) x (1 connection) x (1ac-ft/325,851gal) = 04.03 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 = (4.03afy) x (0.30) = 1.21 ac-ft/yr</p> <p>Outdoor use: Supplied by KR D.</p>

<p>NARRATIVE DESCRIPTION OF PROJECT: Applicant requests 225 gallons per day of groundwater appropriation for 16 residents. Surface Water Court Claim No. 01968 (Amerivest Water Bank) is being offered as mitigation.</p>

The proposed wells for the new uses are to be located in an area that needs no additional information (“green area”) to determine the suitability of the Amerivest Trust Water Right for use as mitigation to offset the new use. Review of the local area hydrogeology suggests that a small effect of the proposed withdrawals could be felt on Manashtash Creek. Copies of the Hydrogeology Memo for the subject water budget neutral request are available on request from Ecology. For a copy, please contact Teresa Mitchell at (509) 575-2597, tmit461@ecy.wa.gov.



Mitchell & Julie Williams
 Water Budget Neutral Permit Request No. G4-35537

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Mitch Williams – Supplement to WTWG proposal form supplement

1. Equivalent reductions in consumptive use.

Typically, a Class 3 right on Manastash is expected to yield a bit less than 60% of the full season supply. This is baked into the water budget for the bank. See **Table 1** in the Addendum.

2. Water that would have been used if not for transfer.

The Williams (Class 1) and Amerivest (Class) 3 rights are now held by Ecology in the trust water right program. Ecology's purchased the majority portion of the rights in 2011 and signed a concurrent water banking agreement between Mitch and Ecology for the rights held by Mitch for mitigation banking. See **Table 2** in the Addendum.

3. Transfer must adhere to specific delivery schedule. *Water has to be available at the sellers/donors point of diversion at the time of use at the location the water is being transferred to.*

The Class 3 right will typically be curtailed sometime after July 1. Through management of Ecology's and Mitch's portfolio of rights held in trust and through use of the USBR-Ecology contract, any necessary retiming can be accomplished. See 4 and 5.

4. Must be no adverse change in instream flow. *Adverse - depends on where it is and when. Time and location is everything. Maybe trade-off issue - e.g. net benefit to fish and others.*

During the last half of the irrigation season and sometime well into the winter, Manastash Creek flow terminates at the Reed Ditch diversion structure. From there, the creek is typically dry down nearly to the Westside Ditch. Irrigation return flows from upslope (derived from the combined deliveries by KRD Manastash Ditch Co, and Taneum Canal Co.) result in perennial flow in Manastash Creek from the Westside Ditch to the Yakima River.

A withdrawal of water from the Ellensburg formation at depth of 200 or more feet is unlikely to have any effect on the severe losing reach from Reed Ditch downstream to almost to the Westside Ditch. The impact of the withdrawals from the Ellensburg formation mitigated by Class 3 Manastash rights would have a net effect on the lowermost portion of Manastash Creek if the groundwater table intersects Manastash Creek channel. These negative impacts almost certainly "lag" the beneficial effect on downstream flows of the mitigation (channel leakage below Reed Ditch as Manastash Creek diminishes in the summer) under current conditions. Whether that lag is measured in weeks or months is not known. Manastash Creek flow restoration efforts may increase the difference in time between the benefits of mitigation with the Class 3 right and the negative effects of pumping, particularly in any year Manastash Creek is or becomes perennial through the losing reach.

Ecology can manage a portion of the Class 1 right it purchased from Mitch to offset any effect timing-related impacted that needs to be offset.

5. Operational Impacts

Ecology can and would use the USBR-Ecology contract to offset any operational impact to the Yakima Project if it was necessary.

Addendum

In 2007, Harry Seely of WestWater Research prepared a valuation report for Ecology, NFWF, and TU (then WRC). WestWater’s report evaluated the absolute and relative values of different classes of Manastash water rights using streamflow records. The following table was prepared by Stan Isley for the 2008 Manastash reverse auction. The adjusted value considers the historic “yield” of each of the classes of water right confirmed by the court. A Class 3 right can be expected over the long term to yield 309.12/513 (the downward “adjustment” to the maximum value reflecting unavailability) of an acre-foot awarded by the court.

That informs us how much of Mitch’s Class 3 right we hold in the TWRP *to debit* as we manage the TWR. So, if Mitch needs 1 ac-ft to serve as mitigation, he would need to supply $1 \times 513/309.12 = 1.66$ ac-ft to be TWSA neutral.

Table 1. 12 of 20 Manastash Creek Class of Adjudicated Water Right

Class	Maximum Price (\$/AF)	Adjusted Maximum Price (\$/AF)
1	\$1,367	\$1,367.00
2	\$1,367	\$1,095.50
3	\$513	\$309.12
4	\$513	\$290.46
5	\$513	\$272.86
6	\$513	\$244.85
7	\$513	\$227.86
8	\$513	\$224.09
9	\$513	\$211.39
10	\$513	\$206.58
11	\$513	\$196.96
12	\$513	\$192.44

Table 2. Ecology and Williams Masastash Creek trust water rights

WATER RIGHT	INSTANTANEOUS RATE	MAXIMUM ACRE-FT/YR	TYPE OF USE, PERIOD OF USE
Ecology – Class 1	0.651 cfs from April 1 through June 30; and 0.324 cfs from July 1 through October 31	69.963 af of consumptive use, and 126.38 af of non-consumptive.	Instream flow; 196.343 acre-feet in the primary reach from April 1 through Oct.

WATER RIGHT	INSTANTANEOUS RATE	MAXIMUM ACRE-FT/YR	TYPE OF USE, PERIOD OF USE
			31* (Intended for Instream flow in perpetuity).
Williams – Class 1	0.047 cfs from April 1 through June 30; and 0.024 cfs from July 1 through October 31	14.1375 af of consumptive use	Instream flow; up to 14.1375 acre-feet in the primary reach from April 1 through Oct. 31, and secondary reach from April 1 through Oct. 31 ** (intended for mitigation of future residential water use.)
Ecology – Class 3	1.123 cfs from April 1 through June 30; and 0.56 cfs from July 1 through Oct. 31	51.4 af of consumptive use, and 287.72 af of non-consumptive.	Instream flow; up to 339.12 acre-feet in the primary reach from April 1 through Oct. 31* (Intended for Instream flow in perpetuity).
Amerivest – Class 3	0.234 cfs from April 1 through June 30; and 0.118 cfs from July 1 through October 31	71.53 af of consumptive use.	Instream flow; up to 71.53 acre-feet in the primary reach from April 1 through Oct. 31, and secondary reach from April 1 through July 15 (intended for mitigation of future

WATER RIGHT	INSTANTANEOUS RATE	MAXIMUM ACRE-FT/YR	TYPE OF USE, PERIOD OF USE
			residential water use)