

WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION

APPLICATION NO./COURT CLAIM NO. Court Claim No. 00983 (S4-83003-J)		
APPLICANT NAME Allen C. and Sara M. Kunkle	CONTACT NAME Kelsey Collins	TELEPHONE NO. 509-575-2640
WATER RIGHT HOLDER'S NAME (if different) Allen C. and Sara M. Kunkle		EMAIL KESI461@ECY.WA.GOV

DATE OF APPLICATION pending	PRIORITY DATE June 3, 1944; mitigated by trust water right with June 30, 1873 priority date
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WATER SOURCE: Unnamed spring (tributary to Salmon La Sac Creek)	CROP: N/A - Indoor Use Only
INSTANTANEOUS QUANTITY: 0.01 cfs	ANNUAL QUANTITY: 0.02 acre-feet (consumptive use)
PERIOD OF USE: Continuous – year round	
PLACE OF USE: SE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 9 T. 22 N., R. 14 E.W.M.	PURPOSE OF USE: Single domestic for one cabin
IRRIGATION METHOD: N/A	

<p>CONSUMPTIVE USE CALCULATION:</p> <p>The junior claim holder is authorized to divert a cumulative annual quantity of 0.5 acre-feet per year for domestic supply. Ecology has determined (Ecology 2006) that the average part time year-round cabin uses approximately 100 gallons per day (gpd) or 0.06 ac-ft/yr for occupancy up to 210 days per year. Assuming 30 percent of the total use is consumptive; the cabin would require up to 0.02 ac-ft/yr. Therefore, the Kunkle cabin requires 0.02 ac-ft/yr to fully mitigate current domestic use under the junior claim during a drought year.</p>

<p>NARRATIVE DESCRIPTION OF PROJECT:</p> <p>As directed by Senate Bill 6861, Ecology is providing water banking opportunities for Yakima Basin Cabin Owners with junior claims (post-1905) to purchase senior mitigation credits to offset the consumptive use of water during years of rationing by the US Bureau of Reclamation.</p> <p>Ecology proposes to offset 0.02 ac-ft/yr of consumptive use with mitigation credits from Trust Water Right Nos. CS4-00195CTCL(A)sb6, CS4-00195CTCL(B)sb6, and CS4-00195CTCL(C)sb6 – collectively known as Bruton Ditch. The Bruton Ditch project was presented to the WTWG on September 14, 2009.</p> <p>Of the 60 ac-ft/yr currently assigned to the USBR-Ecology Exchange Contract (Contract No. 09XX101700) under the Bruton Ditch project, up to 0.02 ac-ft will be allocated to the subject application to address impacts to TWSA.</p>
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PROPOSED USBR-ECOLOGY CONTRACT ASSIGNMENT RATIONALE

Diversion of surface water during rationing years will impact flows in the Yakima River when TWSA irrigation supply period is in effect.

IMPACT ANALYSIS

The point of diversion is located on a spring which feeds an unnamed tributary of Salmon La Sac Creek before flowing into the Cle Elum River. The diversion consists of a pvc pipe placed at the spring discharge. The diverted water is transported approximately two thirds mile via gravity flow in the pipe where it delivers water to the Kunkle cabin. The balance of the water diverted from the spring is delivered to two cabins downslope (which are proposed for mitigation under a separate closely-related request) and to the pond for pond level maintenance. Domestic water provided to the Kunkle cabin which is not consumptively used is discharged to an individual on-site drainfield, returning to the Cle Elum River upstream of its confluence with Salmon La Sac Creek. The diversion to the cabin is currently measured in a water storage barrel adjacent to the cabin. A flow meter will be installed in 2019, prior to reliance on mitigation water.

The Cle Elum River provides spawning and rearing habitat for ESA-listed species, including Bull Trout and Chinook Salmon. However, the total diversion volume – defined as the total Q_a normalized over a 6-month period – is less than 0.1 gpm, below 1 percent of seasonal low flow of the Salmon La Sac and Cle Elum Rivers; therefore, no ESA consultation has been conducted.

Low-flow stream gaging conducted in 2015 indicate seasonal low-flow discharge rate of 76.19 cfs in the Cle Elum River.

CONCLUSION

During rationing years, the availability of water to satisfy TWSA in the Yakima River will not be impacted if up to 0.02 ac-ft were held and released from Cle Elum Lake. Assignment of 0.02 ac-ft would be in compliance with the consultation threshold in paragraph 18(b) of the USBR-Ecology contract.

REFERENCES

Ecology 2011. Columbia River Instream Atlas Project, Publication Number: 11-12-015. Prepared by the Washington Department of Fish and Wildlife. September 2011.

Reclamation, 2005. Phase I Assessment Report, Storage Dam Fish Passage Study, Yakima Project, Washington. Revised April 2005

WDFW. SalmonScape. <http://wdfw.wa.gov/mapping/salmonscape/index.html>.

CLAIMANT NAME:

**Allen C. Kunkle
& Sara M. Kunkle**

COURT CLAIM NO. 00983

Certificate Number:

S4-83003-J

Subbasin:

01 Cle Elum Lake

Source:

Unnamed spring tributary of Salmon La Sac Creek

Use:

Domestic supply for a single recreational cabin and pond level maintenance

Period of Use:

Continuously for domestic supply

Quantity:

0.01 cubic foot per second; 0.5 acre-foot per year for domestic supply and 0.02 cubic foot per second; 2.0 acre-feet per year for pond level maintenance

Priority Date:

June 3, 1944

Point of Diversion:

1300 feet south and 220 feet east from the northwest corner of Section 15, being within the NW¹/₄NW¹/₄ of Section 15, T. 22 N., R. 14 E.W.M.

Place of Use:

A tract of land described as follows: Beginning at a point 180 feet north of the south quarter corner of Section 9, T. 22 N., R. 14 E.W.M.; thence north 480 feet; thence west 660 feet; thence south 480 feet; thence east 660 feet to the point of beginning.

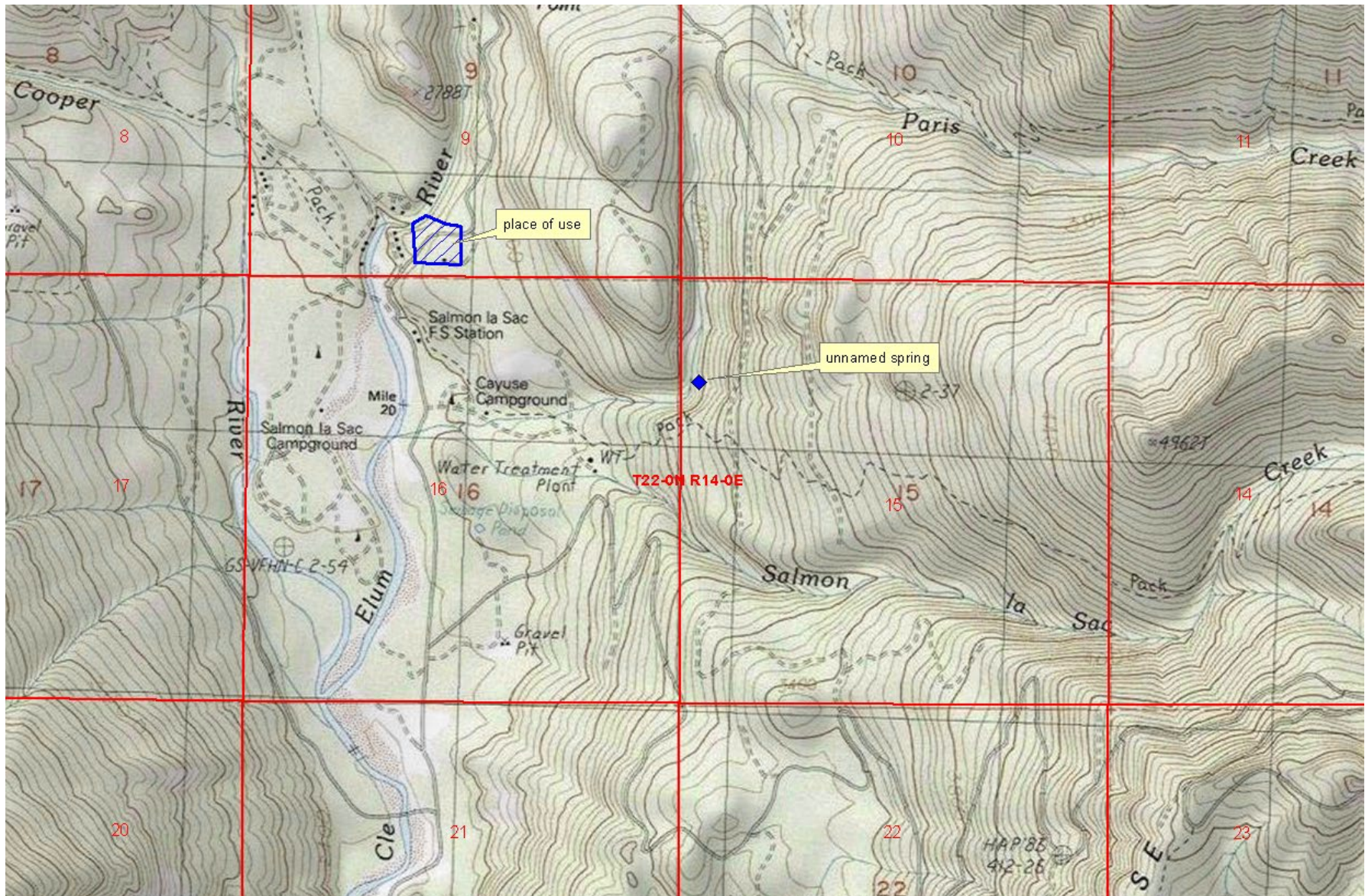


Figure 1

Aspect Consulting

01/16/2019

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Allen and Sara Kunkle (Water Right No. S4-83003-J)

Ecology's Cabin Owner Mitigation Program

Kittitas County, WA