

WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION

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| APPLICATION NO./COURT CLAIM NO. | | |
| Transfer of Court Claim No. 01863 to Instream Flow (No. CS4-01863sb3@27); and Bourne Water Bank in Upper Teanaway River Basin | | |
| APPLICANT NAME | CONTACT NAME | TELEPHONE NO. |
| Jason and Danica Bourne | Danielle Squeochs Kelsey Collins | 509-575-2396 509-575-2640 |
| WATER RIGHT HOLDER'S NAME (if different) | | EMAIL |
| Same | | daja461@ecy.wa.gov kesi471@ecy.wa.gov |

| | |
|---------------------------------------|--------------------------------|
| DATE OF APPLICATION April 25, 2014 | PRIORITY DATE June 30, 1886 |
|---------------------------------------|--------------------------------|

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|--|---|
| WATER SOURCE: Teanaway River | CROP: Timothy Hay |
| INSTANTANEOUS QUANTITY: 0.196 cfs | ANNUAL QUANTITY: 21.48 af CU |
| PERIOD OF USE: May 1 through September 15 | |
| PLACE OF USE: Teanaway River | PURPOSE OF USE: Instream Flow and Mitigation |
| IRRIGATION METHOD: N/A | |

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|--|-------------|------------|------------|------------|------------|------------|------------|--------------|
| CONSUMPTIVE USE CALCULATION: | | | | | | | | |
| No. CS4-01863sb3@27 - The methods used in calculation of the site-specific Crop Irrigation Requirements (CIRs) are described in the accompanying technical memorandum (Aspect 2015), available on request. The methods represent the best available science using the most current data set, updated crop coefficients, and a revised model (Penman-Monteith method) that incorporates temperature, solar radiation, wind speed, and humidity data. | | | | | | | | |
| CIR was determined to be 2.00 feet/acre. Application efficiency (Ea) = CIR / court confirmed water duty (4.0 feet/acre) or 50 percent. Total acreage fallowed = 9.80 acres. Therefore: 2.00 feet/acre * 9.80 acres / 0.50 = 39.20 acre-feet | | | | | | | | |
| Total Irrigation Requirement (TIR) | | | | | | | | |
| | Unit | May | Jun | Jul | Aug | Sep | Oct | Total |
| Qa | acre ft. | 5.25 | 8.53 | 11.15 | 8.53 | 4.76 | 0.98 | 39.20 |
| Average Qi | cfs | 0.085 | 0.143 | 0.181 | 0.139 | 0.080 | 0.016 | - |

The average %CU for flood irrigation is specified (per GUID-1210) at 55 percent of TIR.

Secondary Reach – Consumptive Use

| | Unit | May | Jun | Jul | Aug | Sep | Oct | Total |
|-------------------|----------|-------|-------|-------|-------|-------|-------|--------------|
| Qa | acre ft. | 2.88 | 4.67 | 6.11 | 4.67 | 2.61 | 0.54 | 21.48 |
| Average Qi | cfs | 0.047 | 0.079 | 0.099 | 0.076 | 0.044 | 0.009 | - |

NARRATIVE DESCRIPTION OF PROJECT:

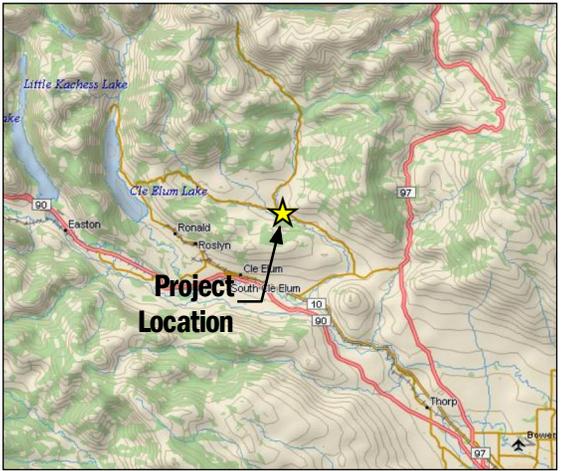
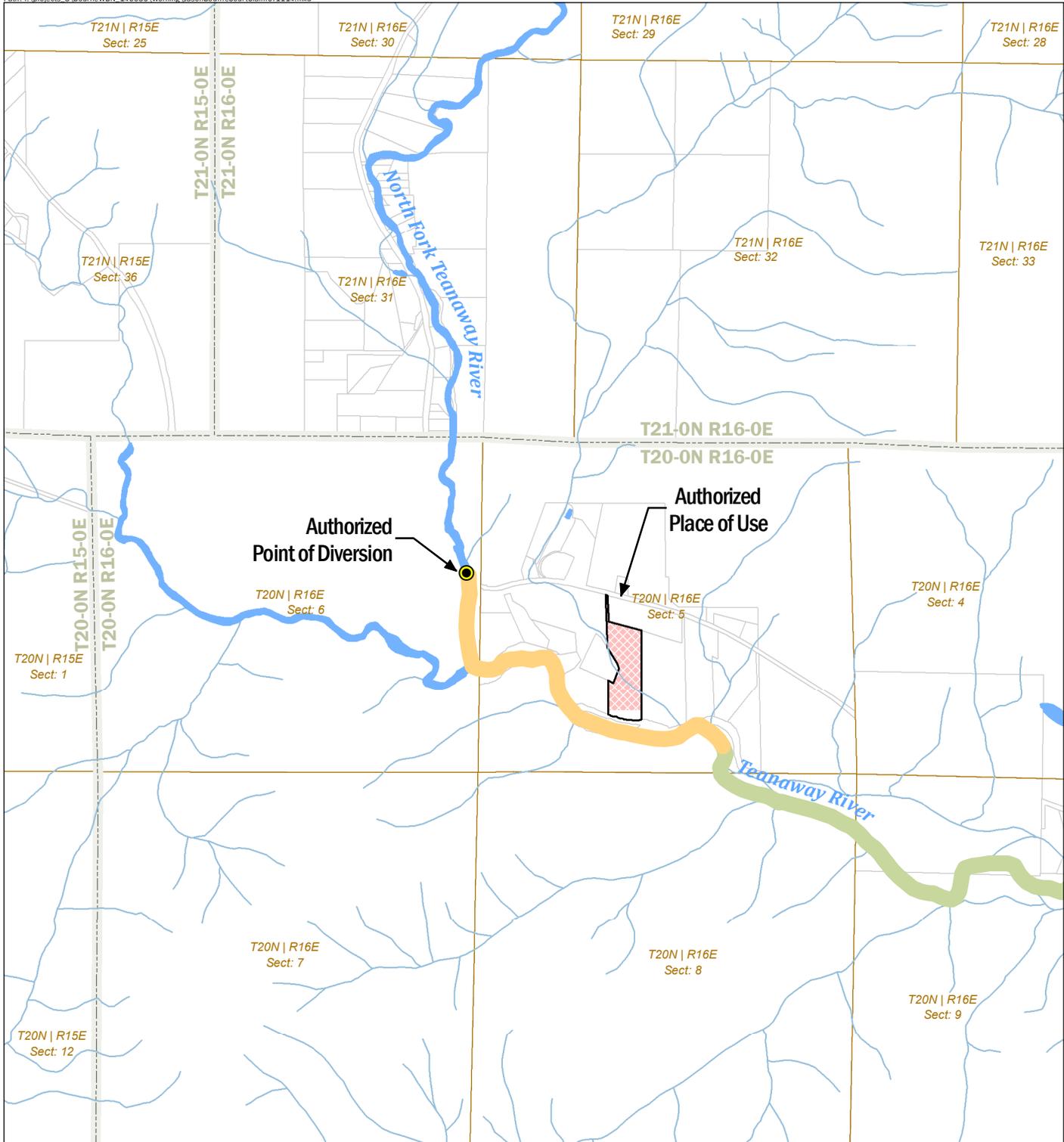
Up to 21.48 acre-feet (consumptive use) have been placed in the State’s Trust Water Right Program (TWRP) for mitigation and instream flow in the Teanaway and Yakima Rivers. A portion of the water will be used to mitigate new groundwater withdrawal or surface water diversionary permits in the Yakima River basin, particularly the upper Teanaway River basin. Management of water in the TWRP is outlined in the Trust Water Right Agreement between the Bournes and Ecology, signed July 30, 2015.

Bourne Water Bank - As detailed in Exhibit C of the Trust Water Right Agreement, up to five consumptive acre-feet may be made available for mitigation of new water rights above Ecology’s newly established gage at Red Bridge Road. Any amount held in Trust not used for mitigation above the Red Bridge Road gage may be made available for mitigation below Red Bridge Road, not to exceed 10 acre-feet CU.

When the Teanaway River below Forks (USGS 12480000) is below 11 cfs, the Bournes agree the remaining portion (11.48 consumptive acre-feet) will not be diverted. In exchange, Ecology agrees to allow all assigned third party mitigation between Red Bridge Road and the authorized point of diversion on the North Fork Teanaway River to continue out-of-priority use (i.e., at a time when the Water could be “called” by senior water right, including those held by Ecology) in accordance with their permit or determination of water budget neutrality by offsetting the total combined consumptive use with an equivalent quantity of Ecology's portion of Court Claim No. 01467 (No. CS4-01467@11sb3a(A)) acquired by purchase.

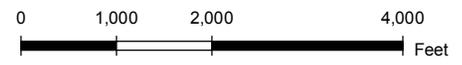
To address impacts to TWSA, mitigation will be assigned to the USBR-Ecology Exchange Contract (Contract No. 09XX101700). Local impairment and/or out of season impacts to surface water will be offset by contribution of \$500 to one of more headwaters riparian corridor projects in the Teanaway River basin. All mitigated authorizations will include a provision based on local availability which may result in the temporary curtailment of water use until the priority call ends.

A draft mitigation bank suitability map is attached. Proposed suitable (i.e., green) area include those of the Masterson Ranch water bank, plus the Teanaway River valley upriver to the historic point of diversion on the North Fork of the Teanaway River, located immediately upriver of the Teanaway Road bridge. The green zone will exclude the lower reach of the West Fork Teanaway River. Areas outside of the green zone will be designed yellow, requiring additional information to determine application-specific suitability.



Comments: Place of use and point of diversion are defined on the cover sheet under the heading "LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED."

-  Authorized Place of Use
-  Authorized Point of Diversion
-  Primary Reach
-  Secondary Reach (extends to Columbia River)
-  Township & Range
-  Sections (TRS)
-  Kittitas County Parcel
-  Bourne Parcel



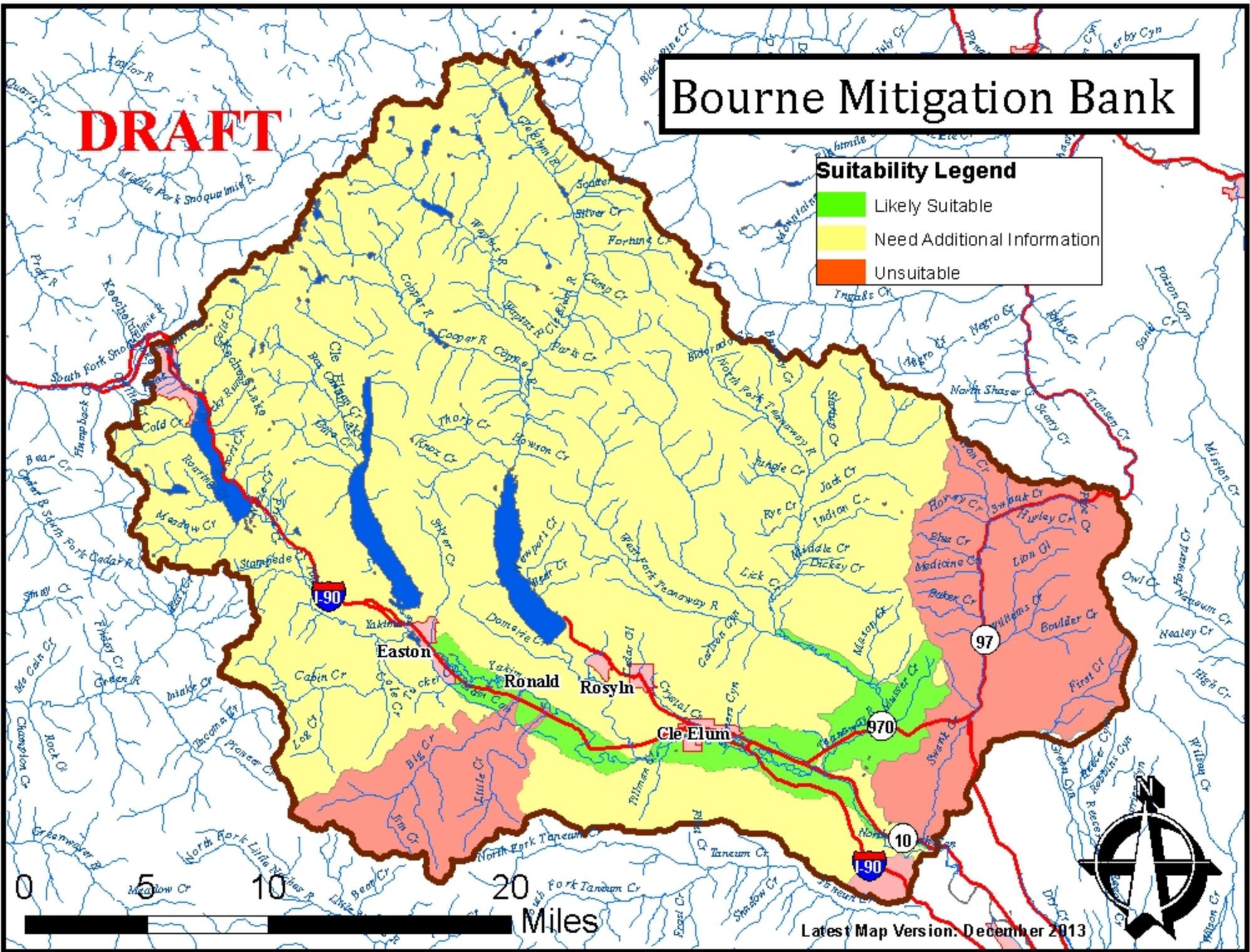
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|---|-------------------------------|----------------|
| Jason and Danica Bourne | | |
| Court Claim No. 01863 | | |
| WRIA 39 | | |
| Kittitas County, Washington | | |
|  | July, 2014 | ATTACHMENT NO. |
| ASPECT PROJECT NO. 090180 | FIGURE BY: TDC / EAH / RAA | 1 |

DRAFT

Bourne Mitigation Bank

Suitability Legend

- Likely Suitable
- Need Additional Information
- Unsuitable



Latest Map Version: December 2013