WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION

APPLICATION NO./COURT CLAIM NO.		
KITT-14-02 (a portion of Court Claim 00167)		
APPLICANT NAME Brian Pat King	CONTACT NAME Jessica Kuchan, Mentor Law Group, PLLC	TELEPHONE NO. (206) 838-7650
WATER RIGHT HOLDER'S NAME (if different) Brian Patrick King		EMAIL Kuchan@mentorlaw.com

DATE OF APPLICATION	PRIORITY DATE
January 14, 2014 – Filed with Kittitas County Conservancy Board March 28, 2014 – Project Description provided to WTWG	June 30, 1887

WATER SOURCE: Big Creek	CROP: Pasture Grass
INSTANTANEOUS QUANTITY: 0.01 cfs	ANNUAL QUANTITY: 2.4 acre-feet per year for irrigation; 0.0067 acre-feet per year for stock water
PERIOD OF USE: May 1 to September 1 for irrigation; Continuous for stockwater	
PLACE OF USE: 0.5 acres located within Lot 5 and Parcel H of Surveys, recorded under Kittitas County Auditor's Recording Number 201004130016, being a portion of the Southeast Quarter of Section 20, Township 20 North, Range 14 E.W.M., Kittitas County	PURPOSE OF USE: Irrigation and stockwater
IRRIGATION METHOD: Flood	

CONSUMPTIVE USE CALCULATION:

The total consumptive use allocated under Court Claim 00176, and particularly the portion owned by Brian King, was estimated using the methodologies and information presented in the Washington Irrigation Guide (WIG) and Ecology Water Resources Guidance (GUID-1210). Pertinent input parameters and assumptions to the calculation is as follows:

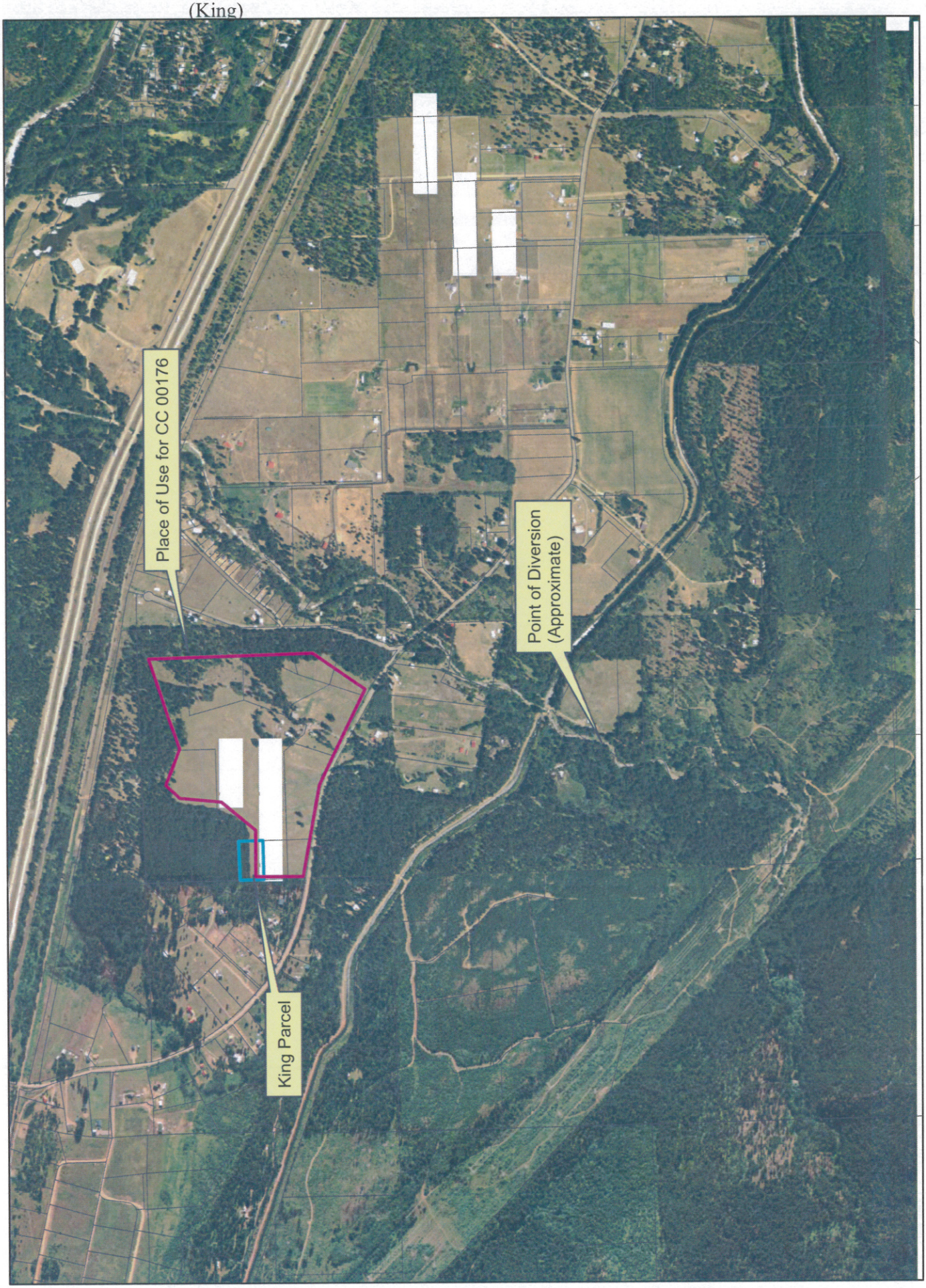
Irrigation Method: Surface/Flood
WIG Station: Cle Elum, Washington
Crop: Pasture Grass
Crop Irrigation Requirement: 18.11 inches per year (1985 WIG)
Water Right/Duty: 2.4 acre-feet for 0.5 acres (4.8 acre-feet per acre water duty)
Acres Irrigated Under King's Portion of Court Claim 00176: 0.5 acres

Mr. King's water right is to irrigate 0.5 acres, or 2.4 acre-feet per acre. The WIG estimates that the

crop irrigation requirement for pasture grass is 18.11 inches per year (1985 WIG version). The Irrigation Requirements for Washington – Estimates and Methodology publication (EB1513 – Washington State University, December 2001) indicates that for Ellensburg (closest location to site) the crop irrigation requirement for pasture grass increases by approximately 6.3 percent from 2 year to 20 year intervals. The year 2005 was considered a drought year. Increasing the annual average crop irrigation requirement estimated by the WIG method (18.11 inch) by 6.3 percent to account for drier than normal years results in a consumptive irrigation requirement (CIR) of 19.25 inches per year (1.6 acre-feet per year), which is equal to 0.80 acre-feet of water for the 0.5 acres of pasture grass.

The CIR of 0.80 acre-feet per year indicates an irrigation efficiency of 33.33 percent (33.33% x 2.4 = 0.80) which is close to the typical irrigation efficiency range for surface flow irrigation as described in Ecology GUID 1210 (estimated by Ecology to be 35% to 65%). Ecology GUID 1210 also indicates that surface/flood irrigation methods have an additional evaporation consumptive loss of 5 percent. Therefore, the total consumptive loss for the irrigation of 0.5 acres of pasture grass with an annual water right of 2.4 acre-feet is 0.92 acre-feet per year (38.33% x 2.4 = 0.92 acre-feet per year).

NARRATIVE DESCRIPTION OF PROJECT:

Mr. King is proposing to transfer his water right to instream flows. The application is currently pending before the Kittitas Water Conservancy Board. Mr. King will pursue a separate process with the Department of Ecology for admission of the water right into Trust. Mr. King's water right is the remaining portion of Court Claim 00176. Washington Water Trust brought the remaining portion to the WTWG under 2014-01, reviewed at the November 2013 WTWG.

2014-38-KITT-14-02 (Portion of CC 00167)
(King)