

**WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION**

APPLICATION NO./COURT CLAIM NO. <b>Court Claim Number 02223</b>		
APPLICANT NAME <b>Northland Resources, LLC</b>	CONTACT NAME <b>Dave Blanchard Lisa Pelly (WRC)</b>	TELEPHONE NO. <b>(509) 674-6828 (509) 888-0974</b>
WATER RIGHT HOLDER'S NAME (if different) <b>Scatter Creek Resources, LLC</b>		EMAIL <b>lisa@warivers.org dblanchard@sapphireskies.net</b>

DATE OF APPLICATION	PRIORITY DATE <b>July 31, 1903</b>
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WATER SOURCE: <b>Unnamed Spring SE, SE, Sec. 1, T. 19, R. 14</b>	CROP: <b>Alfalfa</b>
INSTANTANEOUS QUANTITY: <b>Irrigation - .98 CFS Domestic - .02 CFS Stock - .01 CFS</b>	ANNUAL QUANTITY: <b>101 Acre-feet (98 Acre-feet irrigation, 3 acre-feet domestic and stockwater)</b>
PERIOD OF USE: <b>Irrigation - April 15 to September 30 Domestic - Year round Stock - Year round</b>	
PLACE OF USE: <b>The NE1/4 SE1/4 SW1/4 of Section 1. Kittitas County</b>	PURPOSE OF USE: <b>Irrigation Domestic Stock</b>
IRRIGATION METHOD: <b>Flood</b>	

CONSUMPTIVE USE CALCULATION: Using the equations for total and consumptive use (CU) in Ecology's Guidance 1210, consumptive use per acre can be calculated as the total irrigation requirement (TIR) times the percent evaporation (%Evap) plus the crop irrigation requirement (CIR). Multiplying by the
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irrigated acreage gives the total consumptive use, as follows:

$$CU = (TIR \times \%EVAP + CIR) \times \text{Acreage}$$

A previous change request for this water right was processed by the Kittitas County Conservancy Board (Conservancy Board). Under the change approved by the Conservancy Board and modified by Ecology, historical irrigation use under this right of 98 acre-feet per year for irrigation of 34 acres was recognized. This equates to a water duty of 2.88 acre-feet per year per acre (afy/acre), which was assumed to be the same as the TIR.

A CIR for alfalfa of 32.09 inches (2.67 afy/acre) was calculated using the Food and Agriculture Organization of the United Nations Irrigation and Drainage Paper No. 24 (FAO-24) Blaney-Criddle method and climate data from the National Weather Service station in Cle Elum.

The property was historically flood irrigated, for which Guidance 1210 recommends a %Evap of 5 percent.

Applying these values, consumptive use associated with irrigation use is estimated as:

$$CU = (2.88 \text{ afy/acre} \times 0.05 + 2.67 \text{ afy/acre}) \times 34 \text{ acres} = 95.8 \text{ acre-feet per year}$$

Ecology recognized an additional 1.2 acre-feet per year of consumptive use associated with the domestic and stockwater portion of the water right. Therefore, the total consumptive use is estimated to be by **97 acre-feet per year**.

This Trust Water Right Application is one of four applications being filed by Northland Resources to place existing water rights in the state's water right trust program as part of a water mitigation bank proposal (Water Plan). The Water Plan proposes to use the trust water rights program under Chapter 90.42 RCW to hold these water rights in trust for mitigation credit to offset consumptive use of new water right appropriations. As part of this Water Plan, Northland Resources is filing Applications for Water Rights for new water right permits to cover the future water needs for seven independent projects in and around the City of Cle Elum.

The Water Plan will be water budget and TWSA neutral. The consumptive uses associated with Northland Resources proposed projects will be fully mitigated by the consumptive use portion of existing water rights placed into trust and through the release from on-site storage during the non-irrigation season.

Northland Resources has control of existing irrigation water rights totaling 469 afy total quantity and 329 afy of consumptive use based on a recent evaluation of beneficial use. These are pre-1905 surface water rights from the Yakima River and two unnamed tributaries. The water rights include adjudicated rights confirmed by the February 13, 1997 Conditional Final Order for Subbasin 2 (Easton) in *Ecology v. Acquavella* general stream adjudication.

The estimated total consumptive use associated with all of North Resources proposed projects will not exceed the consumptive use quantity placed into trust. The seven independent Northland Resources projects will require water supplies through either private systems or through the City of Cle Elum water system. Approximately sixty percent (60%) of the combined consumptive water usage of the projects will be within the city limits of Cle Elum and therefore served by public water and sewer. Each of the projects is at or near the property where the water rights currently authorize the use of water.

Northland Resources proposes to construct lakes for on-site storage to mitigate for the out-of-season consumptive use on flows in the mainstem Yakima River. by storing excess water available under the four water rights during the irrigation season, then releasing stored water outside the irrigation season to offset estimated increased out-of-season consumptive use.