

WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION

APPLICATION NO./COURT CLAIM NO. Court Claim No. 00365		
APPLICANT NAME Northland Resources, LLC	CONTACT NAME Dave Blanchard Lisa Pelly (WRC)	TELEPHONE NO. (509) 674-6828 (509) 888-0970
WATER RIGHT HOLDER'S NAME (if different) Hazel and Bernard Henshaw		EMAIL lisa@warivers.org dblanchard@sapphireskies.net

DATE OF APPLICATION	PRIORITY DATE June 5, 1886
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WATER SOURCE: Yakima River 750 feet south and 1150 feet east of the north quarter corner of section 35, being within the SE1/4NW1/4NE1/4 of section 35, T. 20 N., R. 15 E.W.M.	CROP: Alfalfa
INSTANTANEOUS QUANTITY: Irrigation - 1.5 CFS Stock - .02 CFS Conveyance - .30 CFS	ANNUAL QUANTITY: Irrigation – 450 acre-feet Stockwater- 3 acre-feet
PERIOD OF USE: April 20 – September 30 Stock water, year round	
PLACE OF USE: S1/2S1/2 of Government Lot 3, Government Lot 4, and the SE1/4SW1/4, except the SE1/4SW1/4, All in Section30, T. 20 N., R. 16 E.W.M.	PURPOSE OF USE: Irrigation, Stock, Conveyance
IRRIGATION METHOD: Wheelline	

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 TIR of 5.5 acre-feet per year per acre (afy/acre) was estimated based on irrigated acreage and total water use estimated from electrical utility records.

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 is irrigated using wheellines, for which Guidance 1210 recommends a %Evap of 10 percent.

Under the proposed transfer, 38 acres currently irrigated under this right will be taken out of production.

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

$$CU = (5.5 \text{ afy/acre} \times 0.10 + 2.67 \text{ afy/acre}) \times 38 \text{ acres} = \mathbf{122.6 \text{ acre-feet per year}}$$

NARRATIVE DESCRIPTION OF PROJECT:

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.