

OTHER FINAL REPORT

Sponsor Name: Colville Conf. Tribes

IAC Project Number: 01-1390N

Project Name: Ok. R. System Thermal Image.

IAC Invoice Voucher Number: 8

1. Reporting period: Contract Start: **5/01/02** Project Completion: 07/31/2004

2. For Trail Maintenance Projects: provide one map identifying all the trails that were maintained in this project [no larger than 11" x 17" size]. Please date the map.

For Planning Projects: Copies of final design documents or plans (if not previously submitted.)

3. Briefly describe the work completed with this project:

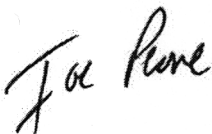
Water temperature is a major limiting factor for salmonid reproduction in the western United States and is a critical factor for Total Maximum Daily Load (TMDL) determinations. KWA Ecological Sciences, Inc. (KWA) worked with the Colville Tribes in the fall of 2003 to undertake a remote-sensing thermal survey to collect high quality temperature data along the Okanogan River and its major tributaries. KWA recommended that the thermal data (TIR) be collected concurrently with a Light Detection And Ranging (LiDAR) survey to help in assessing ecological connectivity and salmonid habitat in alluvial-bedded rivers. This approach offered the Best Available Science (BAS) and a cost-effective approach to collecting good quality data for analysis.

The field survey began on September 29 and was completed September 30, 2003. Although originally designed to cover a total of 134 miles of river course, the Salmon Creek drainage was found to be dry and was not flown (the survey crew made the false assumption that because lower Salmon was dry the upper reaches would be also). The upper 3 miles of Omak Creek were dry too and not flown with the result that a total of only 100 miles was flown. The project provided for the collection of data for the entire river system as described above, but for budget cycle reasons only the northernmost 10 miles was to be processed during Phase I of the project; Phase II being subject to a separate budget authorization and is being used to complete the analysis of data, provide a list of strategic water quality improvement projects and quantify the amount of available habitat (present and potential) for listed and non-listed Pacific Salmon species.

Sponsor Comments:

Several separate reports and data have been provided to IAC/SRFB during and after completion of Phase I. Milestones for Phase II are provided under separate cover.

I hereby certify that this project has been completed in accordance with the Project Agreement. Further, I certify the completed project is consistent with both the scope of the project approved (as amended) by the Interagency Committee for Outdoor Recreation (IAC) or Salmon Recovery Funding Board (SRFB) and with the project application.



020505, Fish and Wildlife Director _____

Sponsor Signature

Date

Title Telephone Number 509 634 2113