



**Salmon Program
Federal Recovery Projects
Post-Evaluation Project Summary**

TITLE: North Fork Nooksack Instream 2002			NUMBER: 01-1323R (Restoration)
			STATUS: Active
SPONSOR: Nooksack Salmon Enhance Assn			EVALUATION SCORE:
			BOARD RANKING:
COSTS:			SPONSOR MATCH:
Salmon Federal Projects	\$180,000	80%	Donated Materials
Local	\$45,000	20%	Grant - Other
Total	\$225,000	100%	

DESCRIPTION:

The Nooksack Salmon Enhancement Association (NSEA) is partnering with the US Forest Service (FS) to strategically place large woody debris (LWD) complexes in and along a 3-mile reach of the North Fork Nooksack River, from RMs 61-64. The objective is to decrease egg to fry loss of native chinook, coho, cutthroat, pink, sockeye, steelhead and Dolly Varden/bull trout due to scour and dewatering of side channels.

Problems: The Channel and riparian area adjacent to this reach lack large diameter trees for LWD recruitment due past fire history and timber harvest. Channel stability has decreased and channel scour increased often at periods of spawning and egg incubation. Since 1995 this 3-mile segment of the Nooksack has continued to scour, downcut, isolate side channels, and convert riffle/pool units to riffles with reduced spawning area.

Solutions: The work is designed to increase roughness and channel complexity by placement of ballasted LWD at natural accumulation points and increase LWD resident time. The wood accumulations will dissipate water energy during high water by allowing it to escape the channel and inundate the floodplain, thus increasing connectivity by way of side channels. Log placement will mimic large structural wood, increase the duration of sediment storage, increase gravel sorting, incremental increase in channel stability, and incremental increase in egg to fry survival.

LOCATION INFORMATION:

NF Nooksack.

ST SALMON REGION: Puget Sound North	LEAD ENTITY ORG: Whatcom County Lead Entity
COUNTY: Whatcom	WRIA: Nooksack (1)

SCOPE (ELEMENTS):

Architectural & Engineering In-Stream Habitat Sales Tax

SALMON INFORMATION: (* in

Species Targeted

Bull Trout	Pink
Chinook (Listed, Threatened (03/99))	Sockeye
Coho (Candidate (07/95))	Steelhead (Not Warranted (08/96))
Cutthroat (Not Warranted (04/99))	

Habitat Factors Addressed

Channel Conditions	Water Quality
Streambed Sediment Conditions	

FISCAL YEAR: 2002	DATE PRINTED: June 12, 2003
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