Completion Report January 29, 2007

Document ID #P102712

Project Name:

Smutz Draw Fish Passage Improvement Project 2006 BPA Contract #: 27236

Project Contact:

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Project Description

Introduction

This project replaced an undersized culvert at the mouth of Smutz Draw. The old pipe was a round corrugated metal pipe three feet in diameter, 30 feet in length, with an average gradient of 4.5%. Average bankfull width at the site is 7.5 feet. See Photos 1 and 2 for before pictures (attached).

Project Objectives

- 1. Provide fish passage for all life stages of resident redband trout (*Oncorhynchus mykiss gibbsi*)
- 2. Reduce sediment delivery during high flow events
- 3. Replace undersized culverts with structures designed to pass 100 year flows.

Project Description

The new structure at the mouth of Smutz Draw, constructed in September of 2006, is a pipe arch 8.6 feet in width and 5.9 feet in height. The pipe arch is designed to pass a 100 year flow event and is counter sunk an average two feet in depth. Stream bed simulation is incorporated into the design. See Photos 3 and 4 (attached).

Project Participants

USFS - NEPA, Consultation, Design, Contract Implementation GRMW – Funding OWEB - Funding

Project Accounting

Summary of Expenditures

Line Item	Original Budget	Total BPA Funds	Total OWEB Funds	Total USFS Funds	Remaining Budget
Materials &	\$18,000	\$15,286.95	\$2,104	\$0	\$609.05
Supplies	+			+ 0	
Contracts	\$27,000	\$20,648	\$6,209.40	\$0	\$142.60
Miscellaneous	\$600	\$0	\$0	\$600	\$0
Personnel	\$17,520	\$0	\$0	\$17,520	\$0
Travel	\$1,355	\$0	\$0	\$1,355	\$0
Administration	\$3,204	\$0	\$0	\$3,204	\$0
TOTALS	\$67,679	35,934.95	\$8,313.40	\$22,679	\$751.65
Percent		%98	%98	%100	
Expended					

Project Map

The map submitted with the proposal is the same.

Project Assessment

All objectives were met with the construction of the pipe arch on Smutz Draw.

- 1. Passage is now possible for all life stages of redband trout (and steelhead adults and juveniles once passage is provided through I-84).
- 2. With the construction of the new pipe arch designed to pass up to a 100 year flow event, the sediment delivery concern related to the undersized culvert no longer exists.
- 3. The new pipe arch is designed to pass up to a 100 year flow.

Project Monitoring

- ♦ Monitoring will consist of implementation monitoring. This entails visually monitoring projects during and after construction to assure objectives are met.
- ♦ Monitoring of disturbed ground for invasion of noxious weeds and control when necessary. Monitoring will occur for two years.
- ◆ Prepare a final report describing the implementation and achievement of the above stated objectives and submit to Grande Ronde Model Watershed Program.

◆ Prepare and submit an annual monitoring report with photo points to the Grande Ronde Model Watershed Program.

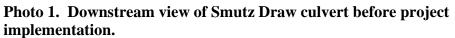




Photo 2. Upstream view of Smutz Draw culvert before project implementation.



