

Final Report

Project #12-1447, Peshastin RM 8.8 Side Channel Reconnection Design

Submitted by Scott Chapman on 12/09/2015

Accepted by Marc Duboiski on 12/09/2015

CONTACTS

Primary Sponsor: Chelan Co Natural Resource

Project Contact: Mike Kane
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Lead Entity: Upper Columbia Sal Rec BD LE

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Managing Agency: Rec. and Conserv. Office

RCO Grant Manager: Marc Duboiski
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DESCRIPTION OF THE COMPLETED PROJECT

Project Start Date: 12/06/2012

FundingEnd Date: 10/30/2015

RCO Closure Date:

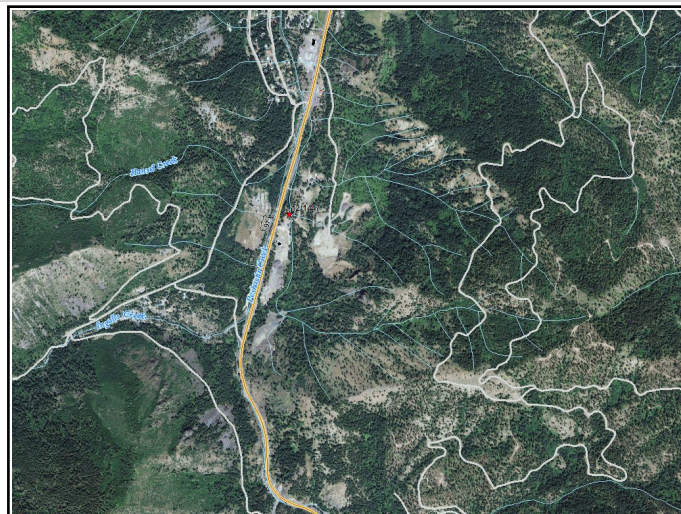
The objective of the Peshastin Creek RM 8.8 Side Channel Reconnection Design project is to re-connect off-channel habitat and floodplain to provide rearing and refuge habitat for juvenile salmonids. The construction of SR 97 in 1956 disconnected 35 acres of floodplain and 4,300 linear feet of channel. In 2011-12 CCNRD conducted site assessments and landowner outreach to develop four conceptual reconnection alternatives. This project further developed conceptual designs to assess the existing geomorphic and hydraulic processes to guide the selection and conceptual design of restoration efforts in Peshastin Creek. Due to the complexity of this site and the existing sediment transport load, a more thorough evaluation was warranted prior to advancing to the preliminary design stage. The CCNRD intends to work with the landowners and stakeholders to examine and select a preferred alternative. Peshastin Creek is a Category 2 watershed and contains Major spawning area for steelhead and minor spawning area for spring Chinook, and is a bull trout core area (UCRTT 2008). Within Peshastin Creek, the reconnection of floodplain and lengthening of the mainstem is a Biological Strategy Tier 1 action and top priority for addressing limiting habitat factors and the recovery and long-term viability of salmonids (UCRTT 2008, UCSRB 2007). The Peshastin Creek Tributary and Reach Assessment (TRA) (Interfluvie 2010) identified the reconnection of the historical main channel at the RM 8.8R project site (BRG Site) as a priority habitat restoration project within Peshastin Creek.

SITE LOCATION

General Area of Project: US 97, Leavenworth side of Blewett Pass, just upstream of Camas Creek

Waterbodies:

Cong District 2012: 08
County: Chelan
HUC: Wenatchee
Leg District 2012: 12
Salmon Recov Reg 05: Upper Columbia
Section: 24
Township/Range: T23NR17E
WAU: Mt Stuart
WRIA: Wenatchee



Sponsor Clarifications:

Sponsor verified the above information is correct and complete.

US 97, just downstream of Ingalls Creek confluence.

PROJECT NARRATIVE

The project was initially identified in a draft mapping effort of potential projects within the Peshastin Creek drainage by the US Bureau of Reclamation in 2006. Chelan County Natural Resource Department (the sponsor) began conversations with adjacent and affected landowners, including WSDOT, in 2009. Funding was initially secured from RCO in 2012 to conduct an alternatives analysis and develop preliminary designs. The sponsor continued collecting data on this site including topo, flow and wetland information. Other work toward developing the preliminary designs was not completed due to the lack of information to provide landowners for decision-making and concerns that there was not enough information to move the project to preliminary designs without risking a large expenditure on a design that was not sustainable given the sediment loads of Peshastin Creek and potential to fill in a constructed side channel.

Two amendments to the original project were approved by RCO: Amendment 1 revised the total project cost from \$199,900.00 to \$69,123.97 and revised the project deliverables from an alternatives analysis and preliminary design to an alternatives analysis and conceptual design deliverable. Amendment 2 extended the date of the original agreement until 10/30/15 to complete the project. As is evident from the attached deliverables, the firm provided a very thorough "Conceptual Design" deliverable package.

Natural Systems Design (NSD) was selected to develop the conceptual designs for the site. The NSD team included Mike Hrachovec (Principal Engineer), Tim Abbe (Principal Geomorphologist), John Soden (Senior Biologist), Shawn Higgin (Project Geomorphologist) and Kelvin Andrews (Engineer Technician).

Project Deliverables included: Alternatives Analysis, Design Report, Baseline Assessment, Conceptual Design and Conceptual Design Cost Estimate.

Additional work with the landowners is moving forward (outside of the scope of this agreement). Meetings will be scheduled initially with WSDOT to discuss the concepts prior to engaging with adjacent landowners. Other grant cycles that are currently being considered for funding the next phase of this project include, Floodplains by Design 2016 (WDOE), Washington Federal Lands Access Program (2016), and SRFB 2016.

AMENDMENTS

#	Type	Applied Date	Description
1	Cost Change	04/23/2015	This project scope is reduced from final design to conceptual design, is no longer a "design-only, no match" project, thus the county is providing the 15% match requirement to receive a time extension.
2	Time Extension	03/23/2015	The project period of 12/06/2012 to 06/06/2014 is extended to allow the contracting party until 10/30/2015 to complete the project.

EQUIPMENT

Item Description	Model #	Purchase Date	Amount	Serial #
			\$0.00	

OVERALL PROJECT COSTS

Funding Formula:	Requested		Original		Final	
Salmon Federal Projects:	\$0.00	(0%)	\$199,900.00	(100%)	\$58,754.97	(85%)
Salmon State Projects:	\$199,900.00	(100%)	\$0.00	(0%)	\$0.00	(0%)
Sponsor Match:	\$0.00	(0%)	\$0.00	(0%)	\$10,369.00	(15%)
Total:	\$199,900.00	(100%)	\$199,900.00	(100%)	\$69,123.97	(100%)
Paid To Date:	\$58,754.97		Last Released Billing: 12/11/2015			
Remaining RCO Funds:	\$0.00		Pending Billing: No			
Advance Balance:	\$0.00		Match Bank:	\$0.00	Number of Billings: 3	
Admin Limit:	\$0.00		Admin Spent:	\$0.00		
A&E Limit:	\$0.00		A&E Spent:	\$0.00		
Billed Cost Summary:	Original Agreement		Expended		Non-Reimbursable	
Non-Capital						
Non-Capital Costs			\$58,754.97		\$15,069.31	
Equipment						
Non-Capital Total	\$69,123.97		\$58,754.97		\$15,069.31	
Total	\$69,123.97		\$58,754.97		\$15,069.31	

Project Cost Metrics:	Original Agreement	Final
PCSRF Federal Funds (A.10):	\$58,754.97	\$58,754.97
State Funds (A.11):		
Other Federal Funding:		
Pending Billing - RCO Share Approved:		
Retainage - RCO amount retained:		\$0.00
Amount of other monetary funding (A.12):	\$0.00	\$15,069.00
Project identifier for the other monetary funding (A.12.b):	N/A	NA
Source of other monetary funding (A.12.a):	N/A	NA
Value of Donated Unpaid Labor (Volunteers) (A.13.a.2):	\$0.00	\$0.00
Source of Donated Un-paid labor contributions (A.13.a.4):	N/A	NA
Number of hours volunteers contributed to the project (A.13.a.1):		0
Describe how the value of the volunteers was determined (A.13.a.3):		NA
Value of Donated Paid Labor (A.13.b.1):	\$0.00	\$0.00
Source of Donated Paid Contributions (A.13.b.2):		NA
Value of Other In-Kind Contributions (A.13.c.1):	\$0.00	\$0.00
Source of Other In-Kind Contributions (A.13.c.3):		NA
Description of other In-Kind contributions (A.13.c.2):	N/A	NA

PROJECT METRICS		
	Original Agreement	Final
Completion Date		
Projected date of completion:	04/30/2014	10/31/2015
Project Goals		
Goals, purpose, and expected benefits (A.17):	Complete final design for preferred alternative, and apply and receive permits.	Completed conceptual design for restoration project preferred alternative, to reconnect off-channel habitat for Chinook and steelhead.

WORKSITE #1: Peshastin RM 8.8 side channel

Worksite Description: Hwy 97 near Milepost 177.8

Driving Directions: From the intersection of Hwy 97 and Hwy 2, drive approximately 8 miles south on Hwy 97. The site is located on the east side of Hwy 97

Coordinates for Worksite Directions - Latitude: 47.28 **Longitude:** -120.39

Sponsor Clarifications:

Sponsor verified the above information is correct and complete.

WORKSITE #1 COSTS

Worksite Billed Cost:	Estimated	Expended	Non-Reimbursable	Total Billed
Equipment				
Non-Capital Costs	\$199,900.00	\$58,754.97	\$15,069.31	\$73,824.28
Worksite Total	\$199,900.00	\$58,754.97	\$15,069.31	\$73,824.28

Worksite Costs by Category:	Original Agreement	Final
Design for Salmon restoration Funding:	\$189,600.00	
Planning/Coordination funding (B.1.a):		\$73,824.00
Cultural resource funding:	\$10,300.00	

WORKSITE #1 METRICS

	Original Agreement	Final
Targeted salmonid ESU/DPS (A.23):	Chinook Salmon-Upper Columbia River Spring-run ESU, Steelhead-Upper Columbia River DPS	Chinook Salmon-Upper Columbia River Spring-run ESU
Targeted species (non-ESU species):	Bull Trout	Bull Trout
Area Encompassed (acres) (B.0.b.1):	34.5	0.0
Miles of Stream Affected (B.0.b.2):	0.50	0.00

Design for Salmon restoration

Final design and permitting

Total cost for Final design and permitting:	\$93,300.00
Name of the Plan:	Peshastin RM 8.8 Side Channel Alternatives Analysis
Description of the Plan:	This project will develop 2 preliminary design alternatives to reconnect a side channel to Peshastin Creek

Preliminary design

Total cost for Preliminary design:	\$96,300.00
Name of the Plan:	Peshastin RM 8.8 Side Channel Alternatives Analysis
Description of the Plan:	This project will develop 2 preliminary design alternatives to reconnect a side channel to Peshastin Creek

Restoration Planning And Coordination Project

Conducting habitat restoration scoping and feasibility studies

Name of the Plan (B.1.b.8.a):	Geomorphic Assessment and Conceptual Design of Peshastin Creek, River Mile 8.8 Project, Chelan County, WA
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The Upper Columbia Salmon Recovery Plan from August 2007 is for spring Chinook and steelhead. The Upper Columbia Salmon Recovery Board, a regional non-profit organization, implements the plan to restore viable and sustainable populations through collaborative, economically sensitive efforts, combined resources, and wise resource management. All recovery efforts are transparent and evolving. The plan is the culmination of several conservation efforts, including state and tribal-sponsored recovery efforts, subbasin planning and watershed planning. The plan is non-regulatory and does not force private landowner involvement. All implementation efforts are voluntary. The recovery plan covers the Upper Columbia River and six major "subbasins" (Crab, Wenatchee, Entiat, Lake Chelan, Methow and Okanogan basins). Currently there are three independent spring Chinook and five steelhead populations in the Upper Columbia. The recovery actions identified in the plan are for all four major sectors (Harvest, Hatcheries, Hydropower, and Habitat). Implementation of specific recovery actions are coordinated with local stakeholders to determine feasibility, including socio-economic interests, benefits and costs.

Cultural Resources

Cultural resources

Total cost for Cultural resources:	\$10,300.00
Acres surveyed for cultural resources:	34.50

PROPERTY DESCRIPTION (Peshastin Side Channel)

Activity: Planning

Control & Tenure:

Instrument Type: Landowner Agreement

Timing: Proposed

Term Length: Perpetuity

yrs:

Expiration Date:

Landowner Type: Private

Note: To be developed

Sponsor Clarifications:

Sponsor verified the above information is correct and complete.

Sponsor Clarifications:

SPONSOR CERTIFICATION

☒ I certify that this project has been completed in accordance with the project agreement.

☒ I certify that, to the best of my knowledge, the information in the Final Report is true and correct.

Submitted by Scott Chapman on 12/09/2015