

## Project #14-1021, West Uncas Rd / Salmon Creek Culvert Design

Submitted by Eric Kuzma on 09/09/2015

Accepted by Mike Ramsey on 09/16/2015

### CONTACTS

**Primary Sponsor:** Jefferson Co Public Works

**Project Contact:** Eric Kuzma  
ekuzma@co.jefferson.wa.us

**Lead Entity:** Hood Canal Coor Council LE

**Managing Agency:** Rec. and Conserv. Office

**RCO Grant Manager:** Mike Ramsey  
mike.ramsey@rco.wa.gov

### DESCRIPTION OF THE COMPLETED PROJECT

**Project Start Date:** 08/01/2014

**FundingEnd Date:** 08/31/2015

**RCO Closure Date:**

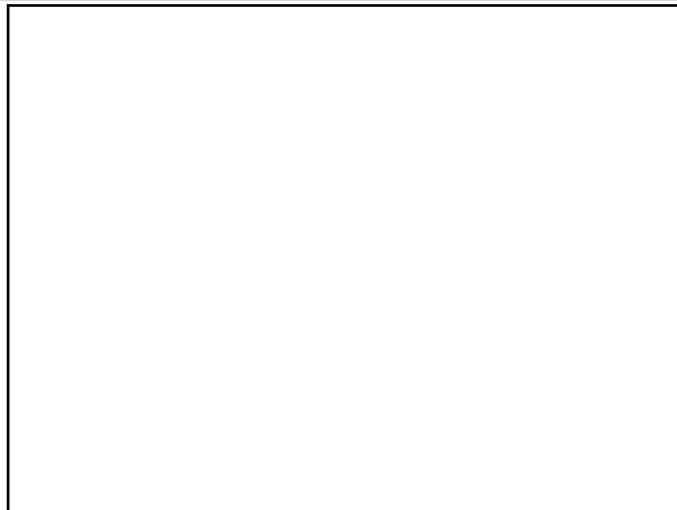
Jefferson County has completed the eight proposed design elements of this 2014 PSAR/PIDA grant and have produced a 'shovel ready' project. To replace the existing fish passage barrier steel culvert, PS&E for an 80 ft span, concrete bridge were produced. Prior to PS&E completion a right-of-way / topographic survey, completed by a licensed surveyor, a cultural resources report/survey, a geotechnical study, which gathered the required information to adequately design the bridge foundation, and a hydraulic analysis were all completed. Removal of the West Uncas Road fish passage barrier is one of the final remaining salmon habitat improvement projects identified on Salmon Creek. Over the last decade, successful partnerships have led to grant-funded projects targeting restoration of listed summer chum habitat within this watershed. The Uncas Road culvert replacement project is expected to 1) Improve watershed continuity 2) Restore summer chum habitat 3) Improve spawning success of important salmon stock and 4) Improve fish access to high quality spawning and rearing habitat upstream of the culvert. Additionally, should the culvert fail, it could cause significant damage to restoration already completed downstream.

### SITE LOCATION

**General Area of Project:** Lower Salmon Creek

**Waterbodies:**

**Cong District 2012:** 06  
**County:** Jefferson  
**HUC:** DUNGENESE/ELWHA  
**Leg District 2012:** 24  
**Salmon Recov Reg 05:** Hood Canal/Puget Sound  
**Section:** 26  
**Township/Range:** T29NR02W  
**WAU:** Discovery Bay  
**WRIA:** Quilcene-Snow



#### Sponsor Clarifications:

Sponsor verified the above information is correct and complete.

Lower Salmon Creek - RM 0.75

### PROJECT NARRATIVE

By way of their own plans and processes WDFW, HCCC, PSP, NOSC & JCPW each identified this project as a priority. With the support of these agencies/organizations JCPW applied for and was awarded this 2014 RCO PIDA/PSAR design grant. The grant scope included first determining the appropriate replacement for the existing fish passage barrier culvert and second production of complete PS&E which would make the project essentially "shovel ready". Through a coordinated design process, involving a wide variety of stakeholders, the applicable criteria were prioritized and it was ultimately determined that a skewed 80 ft span x 29 ft wide concrete bridge was the best alternative to provide benefit to salmon, be successful, and not have costs that outweigh the anticipated benefits. In addition to JCPW, these stakeholders included Shearer Design LLC (Structural/Civil Engineer), Watershed Science & Engineering (Hydraulic Engineer), Aspect Engineering (Geotechnical Engineer), Van Aller Surveying (ROW/Topographic Survey), RCO, USFWS, numerous individuals at WDFW, as well as the adjacent property owners (who the JCPW project manager met with). The bridge will eliminate the fish passage barrier restoring Chum access to 0.75 RM of high quality protected upstream spawning habitat, essentially doubling the available spawning habitat in order for the run to remain stable over the long term.

## AMENDMENTS

#	Type	Applied Date	Description
1	Time Extension	08/20/2015	The project period of 08/01/2014 to 06/30/2015 is extended to allow the contracting party until 08/31/2015 to complete the project.

## EQUIPMENT

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

## OVERALL PROJECT COSTS

Funding Formula:	Requested		Original		Final	
Puget Sound Acq. & Restoration:	\$98,200.00	(100%)	\$98,200.00	(100%)	\$95,403.28	(100%)
<b>Total:</b>	<b>\$98,200.00</b>	<b>(100%)</b>	<b>\$98,200.00</b>	<b>(100%)</b>	<b>\$95,403.28</b>	<b>(100%)</b>
<b>Paid To Date:</b>	\$95,403.28				<b>Last Released Billing:</b>	09/16/2015
<b>Remaining RCO Funds:</b>	\$0.00				<b>Pending Billing:</b>	No
<b>Advance Balance:</b>	\$0.00		<b>Match Bank:</b>	\$0.00	<b>Number of Billings:</b>	3
<b>Admin Limit:</b>	\$0.00		<b>Admin Spent:</b>	\$0.00		
<b>A&amp;E Limit:</b>	\$0.00		<b>A&amp;E Spent:</b>	\$0.00		

Billed Cost Summary:	Original Agreement	Expended	Non-Reimbursable	Total Billed
Non-Capital				
Non-Capital Costs		\$95,403.28		\$95,403.28
Equipment				
Non-Capital Total	\$98,200.00	\$95,403.28		\$95,403.28
Total	\$98,200.00	\$95,403.28		\$95,403.28

Project Cost Metrics:	Original Agreement	Final
PCSRF Federal Funds (A.10):		
State Funds (A.11):	\$95,403.28	\$95,403.28
Other Federal Funding:		
Pending Billing - RCO Share Approved:		
Retainage - RCO amount retained:		\$0.00
Amount of other monetary funding (A.12):	\$0.00	\$0.00
Project identifier for the other monetary funding (A.12.b):	N.A.	N.A.
Source of other monetary funding (A.12.a):	N.A.	N.A.
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.	N.A.
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):		N.A.
Value of Donated Paid Labor (A.13.b.1):	\$0.00	\$0.00
Source of Donated Paid Contributions (A.13.b.2):	N.A.	N.A.
Value of Other In-Kind Contributions (A.13.c.1):	\$0.00	\$0.00
Source of Other In-Kind Contributions (A.13.c.3):	N.A.	N.A.
Description of other In-Kind contributions (A.13.c.2):	N.A.	N.A.

## PROJECT METRICS

	Original Agreement	Final
<b>Completion Date</b>		
Projected date of completion:	6/30/2015	08/31/2015
<b>Project Goals</b>		
Goals, purpose, and expected benefits (A.17):	The goal of this project is to complete final designs and permitting for the removal of the West Uncas Road fish passage barrier.	The goal of this project is to complete final designs for the removal of the West Uncas Road fish passage barrier.

## WORKSITE #1: West Uncas Road - Salmon Creek Culvert @

**Worksite Description:** Salmon Creek Culvert below West Uncas Road.

Project is for design only.

Site activities may include but are not limited to the following:

R/W & Topographic Survey; Geotechnical exploration; Hydraulic & Environmental exploration; County & Engineering Consultant(s) site visits.

**Driving Directions:** From the Highway 101 & State Route WA20 intersection, pass Fat Smitty's restaurant (local landmark) and proceed 0.3 miles. Make left turn on West Uncas Road and proceed to 0.8 miles to Salmon Creek crossing.

**Coordinates for Worksite Directions - Latitude:** 47.99      **Longitude:** -122.89

### 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	\$98,200.00	\$95,403.28		\$95,403.28
Worksite Total	\$98,200.00	\$95,403.28		\$95,403.28

### Worksite Costs by Category:

	Original Agreement	Final
Design for Salmon restoration Funding:	\$98,200.00	\$95,403.00

## WORKSITE #1 METRICS

	Original Agreement	Final
Targeted salmonid ESU/DPS (A.23):	Chum Salmon-Hood Canal Summer-run ESU, Coho Salmon-Puget Sound/Strait of Georgia ESU, Pink Salmon-unidentified ESU, Steelhead-Puget Sound DPS	Chum Salmon-Hood Canal Summer-run ESU, Coho Salmon-Puget Sound/Strait of Georgia ESU, Pink Salmon-unidentified ESU, Steelhead-Puget Sound DPS
Targeted species (non-ESU species):	Cutthroat, Rainbow	Cutthroat, Rainbow
Area Encompassed (acres) (B.0.b.1):	0.3	0.3
Miles of Stream Affected (B.0.b.2):	1.40	1.40
	<i>1.0 mile (noted) is distance of documented upstream spawning habitat. Stream does continue beyond with good potential for creation of additional spawning habitat further upstream.</i>	

### Design for Salmon restoration

#### Preliminary design

Total cost for Preliminary design:	\$98,200.00	
Name of the Plan:	West Uncas Road Salmon Creek Culvert Replacement Design	West Uncas Road Salmon Creek Culvert Replacement Design

Description of the Plan:

Jefferson County will complete the 8 elements of the proposed design to produce a 'shovel ready' project. The overall project is to produce PS&E to replace a failing steel culvert, fish passage barrier, with a 24 to 30 foot bottomless concrete box, essentially a short bridge. Prior to defining the PS&E scope it is necessary to have a right-of-way (limits) and topographic survey, performed by a licensed surveyor. It is also essential to perform a geotechnical study in order to gather the required information to adequately design the culvert foundation. Completion of these mandatory design elements will position the project well for completion of final PS&E, to be completed by June 30, 2015. Removal of the West Uncas Road fish passage barrier is one of the final remaining salmon habitat improvement projects identified on Salmon Creek. Over the last decade, successful partnerships have led to grant-funded projects targeting restoration of listed summer chum habitat within this watershed. The Uncas Road culvert replacement project is expected to 1) Improve watershed continuity 2) Restore summer chum habitat 3) Improve spawning success of important salmon stock and 4) Improve fish access to high quality spawning and rearing habitat upstream of the culvert. If the culvert fails, it could cause significant damage to restoration already completed downstream.

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**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 Eric Kuzma on 09/09/2015