

Project #07-1701, Cherry Creek Floodplain Restoration

Submitted by Jamie Glasgow on 06/07/2013

Accepted by Elizabeth Butler on 06/11/2013

CONTACTS

Primary Sponsor: Wild Fish Conservancy

Project Contact: Jamie Glasgow
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Lead Entity: Snohomish County LE

Billing Contact: Terri Shell
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Managing Agency: Rec. and Conserv. Office

RCO Grant Manager: Elizabeth Butler
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DESCRIPTION OF THE COMPLETED PROJECT

Project Start Date: 01/01/2008

Funding End Date: 05/31/2013

RCO Closure Date:

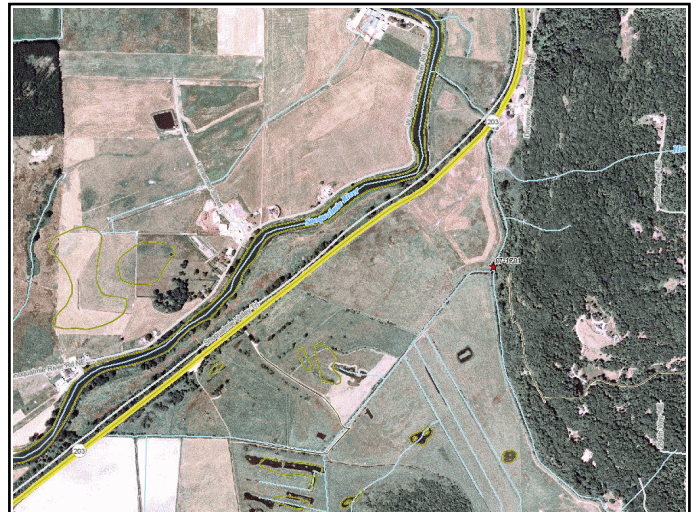
Cherry Creek is the Snoqualmie River's lowest major tributary; its location provides high recovery-benefit potential for chinook, coho, and other salmonids. The ditching and straightening of the lower mainstem and floodplain tributaries has compromised salmon habitat in the Cherry / Snoqualmie floodplain, reducing the availability of off channel high-flow refugia, juvenile rearing areas, and adult spawning grounds. Through its 3rd Round SRFB-funded feasibility study (01-1304N), Wild Fish Conservancy (WFC) prioritized actions to improve salmon habitat in Cherry Valley. During the study WFC worked closely with King County Drainage District #7, WDFW, and NOAA Fisheries.

To address compromised habitat conditions in lower Cherry Creek Valley, WFC and partners consolidated three floodplain ditches into a single naturalized stream channel, installed a bridge to provide access to service the existing pump station, and planted a riparian buffer of native trees and shrubs. This project, located within the Mainstem-Primary Restoration Strategy Group, will improve instream and riparian habitat diversity and complexity for nearly one mile of channel within the Cherry Creek floodplain. These habitat improvements will benefit seven species of salmonids including chinook and steelhead. This project complements Cherry Valley acquisition/restoration efforts being undertaken by WDFW and Sounds Salmon Solutions.

SITE LOCATION

General Area of Project: Near mouth of Cherry Creek & Snoqualmie River.

Waterbodies: Cherry Creek



Cong District: 08
Cong District 2012: 01
County: King
HUC: Snoqualmie
Leg District: 45
Leg District 2012: 45
Salmon Recov Reg 05: Puget Sound
Section: 06
Township/Range: T26NR07E
WAU: SNOQUALMIE, LOWER

Sponsor Clarifications:

Sponsor verified the above information is correct and complete.

Ditched floodplain tributaries to Cherry Creek within the WDFW Cherry Valley Wildlife Area.

PHOTO GALLERY



PROJECT NARRATIVE

Nov. 9, 2012 - JG

This large-scale habitat restoration project involved numerous partners and stakeholders, and consequently was fairly challenging at times. Major challenges included meeting the drainage demands of Drainage District #7, developing a design that was executable in a seasonally-flooded floodplain, sequencing the design work with the stakeholder approval work and the permitting, and negotiating a landowner agreement with WDFW. There were several periods, even within 2012, where we almost threw in the towel due to the uncertainty re. stakeholder support, landowner agreements, and permit timing. However, we persevered and were able to implement this long-overdue habitat restoration project.

Originally designed as one of several restoration actions to bring Drainage District 7 into compliance with the ESA (via NOAA's Cooperative Compliance process in 2002-2003), the Waterwheel Creek restoration project entailed abandoning two ditched laterals (C and D) and naturalizing a third (B). Site conditions encountered during construction forced several changes to the design, and the implemented construction meets original project objectives: improve instream and riparian habitat to benefit native fishes, while meeting or exceeding pre-project drainage conditions for DD7. Design changes included filling just the lower one-third of laterals C and D instead of their entire lengths, and excavating a connector channel to drain the upper portions of C and D into the restored Waterwheel Creek channel.

The selected contractor for the project was N. Creek Environmental, based in Cherry Valley not far upstream from the project site. NCE substantially subcontracted Jansen, Inc. WFC was satisfied with the equipment operation and construction process, especially with Jansen's flexibility and creative problem solving when challenging site conditions (saturated soils, for example) were encountered. Their use of 'scrapers' to excavate the 3600 foot-long channel allowed us to complete the project on schedule despite substantial permitting delays.

In PRISM we have attached a pdf (#45) that provides an overview of the project from design to implementation.

AMENDMENTS

#	Type	Applied Date	Description
3	A&E/Admin Limit Change	09/10/2012	The A&E limit is increased to 38.89% to reflect the extended project management time and expense necessary to bring this restoration project to fruition.
2	Scope Change	08/24/2012	The project agreement is changed to 1) remove reconnection of the historic Cherry Creek side channel because of landowner unwillingness, and 2) expand the restoration of Waterwheel Creek to increase the length of channel reconfiguration, the number of wood clusters and acres of riparian plantings along the new channel.
4	Time Extension	08/13/2012	The project period of 01/01/2008 to 09/30/2012 is extended to allow the contracting party until 05/31/2013 to complete the project.
1	Time Extension	05/19/2011	The project period of 01/01/2008 to 05/31/2011 is extended to allow the contracting party until 09/30/2012 to complete the project.

OVERALL PROJECT COSTS

Funding Formula:	Requested		Original		Final	
Puget Sound Acq. & Restoration:	\$390,000.00	(71%)	\$390,000.00	(71%)	\$390,000.00	(71%)
Sponsor Match:	\$160,000.00	(29%)	\$160,000.00	(29%)	\$160,000.00	(29%)
Total:	\$550,000.00	(100%)	\$550,000.00	(100%)	\$550,000.00	(100%)
Paid To Date:	\$390,000.00				Last Released Billing: 12/19/2012	
Remaining RCO Funds:	\$0.00				Pending Billing: No	
Advance Balance:	\$0.00		Match Bank:	\$0.00		Number of Billings: 22
Admin Limit:	\$0.00	5.00%	Admin Spent:	\$0.00		
A&E Limit:	\$154,000.00	38.89%	A&E Spent:	\$146,951.81	26.71%	

Billed Cost Summary:	Original Agreement	Expended	Non-Reimbursable	Total Billed
Restoration				
Construction	\$396,000.00	\$326,054.15	\$77,037.13	\$403,091.28
A&E	\$154,000.00	\$63,958.94	\$82,992.87	\$146,951.81
Restoration Total	\$550,000.00	\$390,013.09	\$160,030.00	\$550,043.09
Total	\$550,000.00	\$390,013.09	\$160,030.00	\$550,043.09

Project Cost Metrics:	Original Agreement	Final
PCSRF Federal Funds:		
State Funds:		\$390,000.00
Pending Billing - RCO Share Approved:		
Retainage - RCO amount retained:		\$0.00
Amount of other monetary funding:		\$160,043.00
Project identifier for the other monetary funding:		none.
Source of other monetary funding:		King Conservation District National Fish and Wildlife Federation WDFD WFC
Value of Donated Unpaid Labor (Volunteers):		\$0.00
Source of Donated Un-paid labor contributions:		none.
Number of hours volunteers contributed to the project:		0
Describe how the value of the volunteers was determined:		n/a
Value of Donated Paid Labor:		\$0.00
Source of Donated Paid Contributions:		n/a
Value of Other In-Kind Contributions:		\$0.00
Source of Other In-Kind Contributions:		n/a
Description of other In-Kind contributions:		none.

PROJECT METRICS

	Original Agreement	Final
Completion Date		
Projected date of completion:		05/31/2013
Project Goals		
Goals, purpose, and expected benefits:		The goal of the project is to improve instream morphology and habitat in salmon bearing streams. The objective of the project is to increase instream cover, spawning, and resting areas.

WORKSITE #1: Cherry Creek Floodplain Restoration

Worksite Description: The project site is state-owned, encompassed within the 380 acres WDFW Cherry Valley Wildlife Unit.

Additional location information:

47 deg 45 min 41 sec N, 121 deg 57 min 36 sec W
Township 26 N; Range 7 E; Sections 6,7.

Driving Directions: The entrance to the WDFW Cherry Valley Wildlife Unit is on SR203, approximately 1.25 miles north of Duvall, 0.25 miles south of SR203 bridge over lower Cherry Creek.

Coordinates for Worksite Directions - Latitude: 0.00 **Longitude:** 0.00

Sponsor Clarifications:

Sponsor verified the above information is correct and complete.

WORKSITE #1 COSTS

Worksite Billed Cost:	Estimated	Expended	Non-Reimbursable	Total Billed
A&E	\$110,000.00	\$63,958.94	\$82,992.87	\$146,951.81
Construction	\$8,500.00	\$326,054.15	\$77,037.13	\$403,091.28
Worksite Total	\$118,500.00	\$390,013.09	\$160,030.00	\$550,043.09

Worksite Costs by Category:

Original Agreement

Final

Fish Passage Funding:		\$12,000.00
Instream Habitat Funding:		\$331,091.00
Riparian Habitat Funding:		\$40,000.00
Permits Funding:		\$20,000.00
Architectural & Engineering Funding:		\$146,951.81

WORKSITE #1 METRICS

Original Agreement

Final

Targeted salmonid ESU/DPS:		Chinook Salmon-Puget Sound ESU, Chum Salmon-Puget Sound/Strait of Georgia ESU, Coho Salmon-Puget Sound/Strait of Georgia ESU, Pink Salmon-Odd year ESU, Steelhead-Puget Sound DPS
Targeted species (non-ESU species):		Bull Trout, Cutthroat
Miles Of Stream Treated/Protected:		0.80
Project Identified In a Plan or Watershed Assessment:		WRIA 07 Recovery Strategy (Snohomish Basin Salmon Recovery Forum, 2003); WDFW Snoqualmie Wildlife Area Management Plan (http://wdfw.wa.gov/publications/pu_b.php?id=00539), Nov. 2006 with updates since.
Type Of Monitoring:		Implementation Monitoring
Monitoring Location:		Onsite
Fish Passage Improvement		
Number of blockages / impediments / barriers impeding passage:		1
Type Of Barrier:		Debris
Miles Of Stream Made Accessible:		2.00
Square Miles Of streambed made accessible:		0.1
Bridge installed or improved		
Miles of stream made accessible by bridge installation/repair:		0.00

Number of bridges:	1
Instream Habitat Project	
Total Miles Of Instream Habitat Treated:	0.78
Channel reconfiguration and connectivity	
Type of change to channel configuration and connectivity:	Channel Bed Restored, Creation of Instream Pools, Meanders Added
Miles of Stream Treated for channel reconfiguration and connectivity:	0.78
Miles of Off-Channel Stream Created:	0.78
Acres Of Channel/Off-Channel Connected Or Added:	0.3
Instream Pools Created/Added:	6
Channel structure placement	
Material Used For Channel Structure:	Logs Fastened Together (Logjam)
Miles of Stream Treated for channel structure placement:	0.78
Acres Of Streambed Treated for channel structure placement:	0.3
Pools Created through channel structure placement:	6
Yards Of Average Stream-Width At Mid-Point Of Worksite:	2 <i>6' low flow; 30' seasonally.</i>
Number of structures placed in channel:	6
Riparian Habitat Project	
Total Riparian Miles Streambank Treated:	0.78
Total Riparian Acres Treated:	3.0
Planting	
Species Of Plants planted in riparian:	Pacific Willow, Red-Osier Dogwood, Spruce, cedar, Oregon Ash, Red Osier Dogwood, Sitka Alder, Red Alder, Pacific Crabapple, Black Cottonwood
Acres Planted in riparian:	3.0
Permits	
Obtain permits	
Number of permits required for implementation of project:	6
Architectural & Engineering	
Architectural & Engineering (A&E)	
Did A&E costs exceed billed amount (Yes/No):	No

PROPERTY DESCRIPTION (Cherry Creek Floodplain)

Activity: Restoration

Control & Tenure:

Instrument Type: Landowner Agreement

Timing: Proposed

Term Length: Fixed # of years # yrs: 10

Expiration Date:

Landowner Type: State

Note:

Parcel Numbers:

County	Parcel Number	Note
King	0726079031	

Sponsor Clarifications:

Sponsor verified the above information is correct and complete.

Cherry Valley Wildlife Area

in King County, located in Section 7, Township 26 North, Range 7 East, W.M., as recorded in 1974 under King County Auditor's File Number 7412270231, APN #0726079031

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 Jamie Glasgow on 06/07/2013