

Project #15-1190, Duckabush River Estuary Restoration Planning

Current Status: Application Submitted

Project Details

Primary Sponsor: Hood Canal Salmon Enhancement Group

Primary Contact: Mendy Harlow
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Funding Program: Salmon State Projects

Lead Entity: Hood Canal Coordinating Council Lead Entity

Project Type: Planning

Project Description

The Natal Estuary of the Duckabush River has been altered by the Highway 101 causeway which separates the lower floodplain from existing estuarine marshes and the channel outflow of the Duckabush River. The Highway 101 causeway was constructed in 1934 and resulted in the disconnection of numerous distributary channels in the upper estuary and aggradation of the north Duckabush River Channel. This project includes feasibility, modeling and preliminary design of the Highway 101 causeway removal and reconnection of the north channel of the Duckabush River to the mainstem along with a study of the feasibility of property acquisitions in the lower Duckabush River floodplain. Specific Action from the Issues and Actions Framework include Transportation Infrastructure modification, Channel Rehabilitation, Topographic Restoration, Riparian Restoration, Berm and Dike Removal and Protection.

Project Overall Metrics (Outcomes, Benefits)

Category / Work Type / Metric	Application Answer
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Completion Date

Projected date of completion	3/31/2018
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Sponsor Match: Monetary Funding

Amount of other monetary funding (A.12)	\$235,760.00
Project identifier for the other monetary funding (A.12.b)	14-2214
Source of other monetary funding (A.12.a)	ESRP

Sponsor Match: Donated Un-paid Labor (volunteers)

Value of Donated Unpaid Labor (Volunteers) (A.13.a.2)	\$0.00
Source of Donated Un-paid labor contributions (A.13.a.4)	N/A

Sponsor Match: Donated Paid Labor

Value of Donated Paid Labor (A.13.b.1)	\$0.00
Source of Donated Paid Contributions (A.13.b.2)	N/A

Sponsor Match: Other In-kind Contributions

Value of Other In-Kind Contributions (A.13.c.1)	\$0.00
Source of Other In-Kind Contributions (A.13.c.3)	N/A
Description of other In-Kind contributions (A.13.c.2)	N/A

Project Funding

Funding Request		Funding %	Min Match Required	Sponsor Match Source	
Salmon State Projects	\$226,515	49.00 %		Grant - RCO ESRP	\$235,760
Sponsor Match	\$235,760	51.00 %	15%		
Total Project Funding	\$462,275	100.00 %			

Project Cost Summary

PLANNING COSTS

	Project %	Admin/A&E %	Maximum for Selected Program
Planning	\$462,275		
A&E	\$0	0.00 %	\$138,683 (30%)
Subtotal	\$462,275	100.00 %	
Total Cost Estimate	\$462,275	100.00 %	

Worksites and Properties

County: Jefferson

Legislative Districts 2012: 24

Congressional Districts 2012: 06

Salmon Recovery Regions: Hood Canal/Puget Sound

DNR Watershed Units (WAU): DUCKABUSH, LOWER
4th Field Catalog Units (HUC): Hood Canal
WRIA: Skokomish-Dosewallips
Coordinates: 47.65079038
-122.93465531

Worksite #1: Duckabush Estuary Restoration Feasibility and Desi

Coordinates from Mapped Point: **Latitude:** 47.65079038 **Longitude:** -122.93465531
Coordinates from Worksite: **Latitude:** 47.652323 **Longitude:** -122.933483
Directions:

Worksite Description: The Highway 101 causeway was constructed in 1934 and resulted in the disconnection of numerous distributary channels in the upper estuary and aggradation of the north Duckabush River Channel.

Site Access Directions: Drive US Hwy 101 N to the Duckabush River Bridge

Worksite Address:
310000 N US HWY 101
Brinnon, WA 98320

Planning Metrics (Outcomes, Benefits)

Category / Work Type / Metric	Application Answer	Work Type Costs
Targeted salmonid ESU/DPS (A.23)	Chinook Salmon-Puget Sound ESU, Chum Salmon-Hood Canal Summer-run ESU, Coho Salmon-Puget Sound/Strait of Georgia ESU, Steelhead-Puget Sound DPS	
Targeted species (non-ESU species)	Cutthroat, Searun Cutthroat	
Area Encompassed (acres) (B.0.b.1)	53.0	
Miles of Stream Affected (B.0.b.2)	1.00	

Design for Salmon restoration

Preliminary design

Total cost for Preliminary design		\$187,127.00
Name of the Plan	PNSERP (2012). Strategic Restoration Conceptual Engineering - Design Report	
Description of the Plan	Once the Feasibility study is complete, HCSEG will work with a consulting firm to develop a preliminary design for the reconnection of the North Channel to the mainstem of the Duckabush. Conceptual Plans that have been previously completed will be used to develop a preliminary design. Previous plans for the watershed include the 2003 Hwy 101 Causeway study, commissioned by HCSEG and completed by ESA, Inc as well as the 2012 PNSERP Strategic Restoration Conceptual Engineering Design Report.	

Equipment

Purchase miscellaneous equipment

Total cost for Purchase miscellaneous equipment		\$2,000.00
Number of miscellaneous equipment items	2	
Describe the miscellaneous equipment being purchased	Tablet computer for field use during the landowner willingness survey, habitat modeling work and the restoration planning and coordination.	

Restoration Planning And Coordination Project

Conducting habitat restoration scoping and feasibility studies (B.1.b.8)

Description of the Plan (B.1.b.8.b)	A study will be completed to assess the feasibility of removing the highway 101 causeway in the Duckabush Estuary, reconnect the North Channel of the Duckabush river to the mainstem and acquire key parcels along the Duckabush River. Previous plans for the watershed include the 2003 Hwy 101 Causeway study, commissioned by HCSEG and completed by ESA, Inc as well as the 2012 PNSERP Strategic Restoration Conceptual Engineering Design Report.	
Name of the Plan (B.1.b.8.a)	PNSERP (2012). Strategic Restoration Conceptual Engineering - Design Report	
Total cost for Conducting habitat restoration scoping and feasibility studies		\$112,303.00

Salmonid Habitat Assessment / Inventory

Habitat surveys (B.2.d)

Total cost for Habitat surveys		\$84,306.00
Acres of habitat assessed (B.2.d.2)	53.0	
Amount Of Habitat Assessed That Needed Restoration (B.2.d.3)	33.0	
Type of Habitat Assessment (B.2.d.1)	Estuarine/nearshore habitat conditions, Floodplain mapping, Overall watershed condition assessment or mapping, Riparian condition	

Landowner willingness inventory

Total cost for Landowner willingness inventory		\$48,106.00
Document Name	None	
Number of landowners contacted	42	

Cultural Resources

Cultural resources

Total cost for Cultural resources		\$28,433.00
Acres surveyed for cultural resources	53.00	

Planning Questions

- 1 of 4 **Has the worksite been investigated for historical, archeological, or cultural resources? If yes, when did this occur and what agencies and tribes were consulted? Attach related documents (letters, surveys, agreements, etc.) to your project in PRISM.**
No, This site will be assessed for historical, archaeological and cultural resources as part of this project.
- 2 of 4 **Will the project include any ground disturbing activities? (Please remember that this includes geotechnical survey sampling and the like.)**
Yes, Geotechnical surveys and archaeological samples will be collected during this project.
- 3 of 4 **What is the current land use of the site? Has there been ground disturbances historically, if so, what are/were those disturbances? Is there any fill where ground disturbance is proposed? If known, how deep is the fill?**
There are multiple land uses at the site including recreational use for harvest of shellfish resources, county fire department buildings and private residences.
- 4 of 4 **Is the worksite(s) located within an existing park, wildlife refuge, natural area preserve, or other recreation or habitat site? If yes, name the area and specify if the land is owned by local, state or federal government.**
Yes, WDFW's South Puget Sound Wildlife Area

Overall Project Questions

- 1 of 5 **Do you need state SRFB dollars (not Federal) to match the requirements of any other federal funding you will be using to complete this project. If Yes, please state the amount of state dollars needed out of your total request.**
No
- 2 of 5 **Describe any ground disturbing work that will be necessary as part of the design process, such as geotech work. Include anticipated number of test sites, depth of disturbance, location, etc.**
Ground disturbing geotechnical work will be necessary as part of this project. The number of test sites and depth of disturbance is unknown at this time
- 3 of 5 **Is the project on State Owned Aquatic Lands? Please contact the Washington State Department of Natural Resources to make a determination. (www.dnr.wa.gov/Publications/aqr_land_manager_map.pdf)**
No
- 4 of 5 **For grants listed in the Sponsor Match Category section on the Funding Request tab, list the grant source(s), when the funds were (or will be) secured, and how long the grant funds will be available to this project.**
ESRP- funds may be available after July 2015. If awarded, these funds will be available until July 2017.
- 5 of 5 **Describe the type and timing of donated labor (skilled and unskilled), donated equipment, and donated materials that will be used for this project, identified in the Sponsor Match Category section on the Funding Request tab.**
N/A

Project Permits

Permit Type	Applied Date	Received Date	Expiration Date	Permit Number
None - No permits Required				

Project Attachments

Required Attachments 5 out of 5 done

Cost Estimate	<input checked="" type="checkbox"/>
Map: Area of Potential Effect (APE)	<input checked="" type="checkbox"/>
Map: Planning Area	<input checked="" type="checkbox"/>
Photo	<input checked="" type="checkbox"/>
Salmon Project Proposal	<input checked="" type="checkbox"/>

Photos

Attachment Type	Title	Attach Date
Cost Estimate	Duckabush Detailed Project Budget.xlsx	04/20/2015
Map: Planning Area	Duckabush.pdf	04/20/2015
Photo	Duckabush From the East.jpg	06/25/2015

Photo	Duckabush aerial.jpg	06/25/2015
Photo	Duckabush Pedestrian Crosswalk.jpg	06/25/2015
Photo	Duckabush Looking North.jpg	06/25/2015
Photo	Duckabush from the West.jpg	06/25/2015
Photo	Duckabush 6.jpg	04/27/2015
Salmon Project Proposal	Duckabush Estuary Restoration Planning Proposal - Response t.docx	06/25/2015
Salmon Project Proposal	Duckabush Estuary Restoration Planning Proposal - v2.docx	04/24/2015
Visuals	aerial photo.pdf	04/20/2015

Application Status

Application Due Date: 08/14/2015

Status	Status Date	Name	Notes
Application Submitted	08/12/2015	Mendy Harlow	
Preapplication	04/01/2015		

I certify that to the best of my knowledge, the information in this application is true and correct. Further, all application requirements due on the application due date have been fully completed to the best of my ability. I understand that if this application is found to be incomplete, it will be rejected by RCO. I understand that I may be required to submit additional documents before evaluation or approval of this project and I agree to provide them. (Mendy Harlow, 08/12/2015)

Date of last change: 08/12/2015