

**PROJECT: 16-1561 REST, CARLISLE LAKE/GHEER CREEK FISH PASSAGE**

Sponsor: Wild Fish Conservancy Program: CBS Habitat Rest. Project Status: Active  
Project Start Date: 07/09/2015 Agreement End Date: 12/31/2018

Final Report Status: Accepted 11/27/2018

## Description

### PROJECT AGREEMENT DESCRIPTION

This restoration project will design, permit, and construct fish passage at four existing barriers within Gheer Creek, tributary to the South Fork Newaukum River near Onalaska, WA. The four sites are 1) dam at the outlet of Carlisle Lake, 2) a barrier culvert at the upper end of the lake, 3) a dam at the outlet of a small in-stream pond off Degler Road upstream of Carlisle Lake, and 4) an abandoned railroad crossing barrier culvert on the South Fork of Gheer Creek. These barriers currently limit Gheer Creek's productivity for migratory fish including coho salmon, chinook salmon, chum salmon, steelhead, and sea-run cutthroat trout. The project goal is to improve wild fish access to over ten miles of habitat that has been blocked for several decades, restoring a self-sustaining wild salmon and steelhead population to Gheer Creek while providing an excellent outreach and education opportunity for the community. In addition to implementing fish passage improvements, Wild Fish Conservancy will work long-term with WA Department of Fish and Wildlife to ensure hatchery practices in Gheer Creek are compatible with wild fish recovery efforts there.

### FINAL PROJECT DESCRIPTION

Because of the complexities of the downstream-most site (Carlisle Dam) our fish passage restoration work focused there first. We coordinated extensively with the landowners (Onalaska Alliance), WDFW Habitat Program, WDFW Fish Program, and ECY Dam Safety. We performed an extensive site topo survey and contracted GeoEngineers to develop and analyze several conceptual designs. We evaluated alternatives and recommended a path forward - Alternative 4 (see attached report). This alternative provides fish passage, increases dam safety, and addresses Onalaska Alliance's requirement to reconstruct the emergency spillway. We coordinated with Lewis County re. addressing their partial barrier (2nd St.) immediately downstream from the dam, and evaluated approaches and costs. However, with WDFW unwilling to modify their hatchery practices to complement wild fish recovery in Gheer Creek, and with the landowner (Onalaska Alliance) advocating for no changes to those practices, the Chehalis ASRP steering committee decided to terminate the project. See narrative and attached report and presentation for additional information.

## Narrative

Because of the complexities of the downstream-most site (Carlisle Dam) our fish passage restoration work focused there first. We coordinated extensively with the landowners (Onalaska Alliance), WDFW Habitat Program, WDFW Fish Program, and ECY Dam Safety. We performed an extensive site topo survey and contracted GeoEngineers to develop and analyze several conceptual designs. We evaluated alternatives and recommended a path forward - Alternative 4 (see attached report). This alternative provides fish passage, increases dam safety, and addresses Onalaska Alliance's requirement to reconstruct the emergency spillway. We coordinated with Lewis County re. addressing their partial barrier (2nd St.) immediately downstream from the dam, and evaluated approaches and costs.

From the onset of the project we attempted to coordinate with WDFW re. their existing hatchery programs in Carlisle Lake to discuss integration of their hatchery practices with this wild fish habitat restoration project designed to restore volitional wild fish access to >10 mi. of the watershed. Our requests to meet to discuss this project were largely ignored by the Department for months. Eventually we were able to meet with the WDFW Fish Program on several occasions, but (~1.5 years after our first request for a decision on management of the hatchery program) were ultimately told "After some discussion within the agency we have decided that we are not ready for a management change at Carlisle Lake in the immediate future." Unable to secure a commitment from WDFW to modify hatchery practices so they don't compromise the public's investment in wild fish recovery in Gheer Creek, the project funding is being ended prematurely. Furthermore, the landowner Onalaska Alliance (with board members substantially invested in WDFW's Carlisle Lake hatchery program and presumably advocating for no change to status-quo hatchery practices there) withdrew their permission for the project to occur. Consequently - despite public funding made available through this project to address an illegal barrier to fish passage that blocks ten miles of a priority Chehalis watershed, and despite the Dept. of Ecology Dam Safety's requirement to reconstruct the dam's emergency spillway, Onalaska Alliance and WDFW have refused to align their hatchery practices with habitat restoration efforts.

Over the years we have seen significant disconnects between WDFW's Habitat Program and Fish Program, but rarely has the disconnect appeared so stark and counterproductive to advancing salmon recovery as it has in Gheer Creek. To say the project team is frustrated with this outcome is an understatement. WDFW unapologetically refused to adhere to its own Commission policy (c3619) and the Statewide Steelhead Management Plan which would have them identify modifications to status quo hatchery practices in Carlisle lake to complement, or at least not compromise, habitat restoration there. Unfortunately this case study is not unique, and it does not bode well for the state's ability to protect and restore wild fish populations despite having invested billions of dollars on habitat.

Wild Fish Conservancy is interested to continue this discussion if there is serious interest in understanding and addressing the substantial space that exists between the WDFW Habitat Program and the WDFW Fish Program.

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## Worksites

### Worksite #1: Gheer Creek - Carlisle

Worksite Address (Optional)  
Street Address  
City  
State, Zip

## Worksite Details

### Worksite #1: Gheer Creek - Carlisle

Worksite Name Gheer Creek - Carlisle

#### WORKSITE DESCRIPTION

Project sites are at the downstream and upstream extents of Carlisle Lake, and upstream from Deggler Road. A roughened channel will be constructed to provide volitional fish passage at two dams (Carlisle and Deggler Pond), and fish passage will be restored at two undersized culverts (upstream end of Carlisle Lake, and abandoned RR crossing on S.Fork Gheer upstream from Deggler).

#### Geographic Coordinates

From mapped point: Latitude 46.581877 Longitude -122.725249  
For Directions: Latitude Longitude

#### SITE ACCESS DIRECTIONS

From I-5 (exit 71) drive east on Hwy 508 to Onalaska. Just before entering Onalaska (at west end of town), drive north on Alexander Rd. Use public parking area at SE corner of Carlisle Lake.

## Properties

Worksite #	Worksite Name	Property Name	Sponsor Verified	RCO Verified	RCO Verified Map
1	Gheer Creek - Carlisle	Deskings Acre Estates			N/A
1	Gheer Creek - Carlisle	Onalaska Alliance			N/A

## Restoration Metrics

Current Agreement

Final

### Worksite: Gheer Creek - Carlisle (#1)

Acres of Habitat Treated

0

Other Habitat Type Treated: Excluding stream habitats, the type (ex: forest, wetland, prairie, etc.) and total acres of habitat treated/protected at the project worksite (to the nearest .01 acre) for the species indicated above. Multiple treatments in the same area should only be "counted" once, so that the total reflects actual area subjected to treatments regardless of how many different treatments were applied.

Identify the Habitat Types Treated

Describe the various habitat types treated

Other Species Targeted

Identify any non-fish species that will benefit from this project. Put N/A if none.

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### Targeted salmonid ESU/DPS (A.23)

The salmon ESU (Evolutionarily Significant Unit) or steelhead DPS (Distinct Population Segment) name that the project is targeting. For species where ESU/DPS name is not known or determined, use the species name with unidentified ESU (e.g., Chinook salmon - unidentified ESU).

No Salmon ESU or Steelhead DPS	No Salmon ESU or Steelhead DPS
✓ Chinook Salmon-Washington Coast ESU	Chinook Salmon-Washington Coast ESU
Chinook Salmon-unidentified ESU	Chinook Salmon-unidentified ESU
✓ Chum Salmon-Pacific Coast ESU	Chum Salmon-Pacific Coast ESU
Chum Salmon-unidentified ESU	Chum Salmon-unidentified ESU
✓ Coho Salmon-Southwest Washington ESU	Coho Salmon-Southwest Washington ESU
Coho Salmon-unidentified ESU	Coho Salmon-unidentified ESU
✓ Steelhead-Southwest Washington/Washington Coast DPS	Steelhead-Southwest Washington/Washington Coast DPS
Steelhead/Trout-unidentified DPS	Steelhead/Trout-unidentified DPS

### Area Encompassed (acres) (B.0.b.1)

Acres of land area affected by the planning and assessment activities (to the nearest 0.1 acre).

For design projects, this is the project footprint. For assessments, this is the area to be assessed.

0.1

### Targeted species (non-ESU species)

Select one or more of the fish species that this project will benefit.

None	None
Unknown	Unknown
Brook Trout	Brook Trout
Brown Trout	Brown Trout
Bull Trout	Bull Trout
✓ Cutthroat	Cutthroat
Kokanee	Kokanee
✓ Rainbow	Rainbow
✓ Searun Cutthroat	Searun Cutthroat

### Miles of Stream and/or Shoreline Affected (B.0.b.2)

The miles of freshwater stream and/or marine shoreline affected (to the nearest 0.01 mile). For design projects, the miles in the project footprint. For assessments, the miles to be assessed.

0.01

### Miles of Stream and/or Shoreline Treated or Protected (C.0.b)

The total length of freshwater stream, side channel, and/or marine shoreline treated or protected at the project worksite (to the nearest 0.01 mile). Multiple treatments in the same stretch of stream, side channel, or shoreline should only be "counted" once, so that the total reflects actual stream, side channel, or shoreline length subjected to treatments regardless of how many treatments were applied. This is a meander measurement of the portion of the stream treated by the project area. Include the stream adjacent to riparian project areas. This does not include "miles of stream made accessible," which is an "effect" not a treatment. Use the minimum measurement of 0.01 miles for barrier removal projects involving a single barrier.

0.02

### Project Identified In a Plan or Watershed Assessment (C.0.c)

Name of the Recovery Plan that identifies the need or justification for conducting this project. If not identified in Recovery Plan, name the watershed assessment or other plan which justifies the need for the project. Use endnote citation format (Author, date, title, source, source address). If project was not identified in a plan, enter "none." (500 characters max).

*Not Collected at Closure*

### Type Of Monitoring (C.0.d.1)

Type of project monitoring that occurs at the worksite during the project period. If the project has no monitoring, report 'None'.

✓ Implementation Monitoring	Implementation Monitoring
None	None

### Monitoring Location (C.0.d.2)

If monitoring is a component of the project worksite, select one or more of the following descriptors on the location of the monitoring: onsite; upstream; downstream; or, upslope.

No monitoring completed	No monitoring completed
✓ Downstream	Downstream
✓ Onsite	Onsite
Upslope	Upslope
✓ Upstream	Upstream

### Design for Salmon restoration

Projects include complete engineering or preliminary design.

#### Final design and permitting

Final design and permitting for restoration projects.

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Total cost for Final design and permitting \$71,000 *Not Collected at Closure*  
 Enter the cost (to the nearest dollar) of this work type, as close as you can reasonably get it.

Project Identified in a Plan or Watershed Assessment. (1221)  
 Name of the Recovery Plan that identifies the need or justification for conducting this project.  
 If not identified in Recovery Plan, name the watershed assessment or other plan which justifies the need for the project. Use endnote citation format (Author, date, title, source, source address). If project was not identified in a plan, enter "none." (500 characters max).

Priority in Recovery Plan (1223)  
 Priority in Recovery Plan. How is the project prioritized or justified by the above plan? (i.e. addresses a priority action, occurs in a priority area, or targets a priority species). Include page reference. If project was not identified in a Plan, enter 'None'

Name and Description of Plan (2298)  
 Name and brief description of the plan that was developed through the grant. If no plan was developed, enter "None".

### Fish Passage Improvement

Projects that improve or provide anadromous salmonid migration up and down stream including fish passage at road crossings (bridges or culverts), barriers (dams or log jams), fishways (ladders, chutes or pools), and weirs (log or rock).

Number of blockages / impediments / barriers impeding passage (C.2.b.4) 4

Enter the total number of blockages, impediments, or barriers removed or modified to allow or improve salmonid passage.

Type Of Barrier (C.2.b.3)

The type of barrier that was removed or modified to allow or improve salmonid passage.

- |                           |                           |
|---------------------------|---------------------------|
| Boulders or rock barriers | Boulders or rock barriers |
| Bridge                    | Bridge                    |
| ✓ Culvert                 | Culvert                   |
| Debris                    | Debris                    |
| Diversion Dam             | Diversion Dam             |
| Ford                      | Ford                      |
| Landslide                 | Landslide                 |
| Logs                      | Logs                      |
| Push-Up Dam               | Push-Up Dam               |
| Weir                      | Weir                      |
| ✓ Wood Or Concrete Dam    | Wood Or Concrete Dam      |
| None                      | None                      |

Miles Of Stream Made Accessible (C.2.b.1) 10.00

Total number of miles of potential anadromous salmonid bearing stream made accessible upstream of the passage impediment. If there is another partial for full barrier upstream, then the length made accessible would be to that next upstream barrier. If there is a barrier downstream, the total length made accessible would be "0." If zero, please explain in your Project Description the number of miles that will be accessible once the downstream barrier is addressed.

Square Miles Of streambed made accessible (C.2.b.2) 0.1

Square miles of streambed made accessible (to nearest 0.1 miles).

#### Culvert installed or improved (C.2.f.1)

Installation or improvement or upgrade (including replacement) of a culvert to a standard that provides juvenile and adult salmonid passage.

Total cost for Culvert installed or improved \$87,000 *Not Collected at Closure*

Enter the cost (to the nearest dollar) of this work type, as close as you can reasonably get it.

Miles of stream made accessible by culvert installation/repair (C.2.f.3) 10.00

Number of miles (to nearest 0.01 mile) of potential anadromous salmonid bearing stream made accessible upstream of the installed or improved culvert.

Number of culverts (C.2.f.2) 2

Number of culverts installed or improved.

#### Fish passage blockages removed or altered (C.2.c.1)

Removal or alteration of blockages, impediments or barriers to allow or improve salmonid passage (other than road crossings).

Total cost for Fish passage blockages removed or altered \$331,950 *Not Collected at Closure*

Enter the cost (to the nearest dollar) of this work type, as close as you can reasonably get it.

Number of Blockages/Impediments/Barriers Removed/Altered (C.2.c.2) 2

The number of blockages/impediments/barriers removed/altered (Other than road stream crossing impediments/blockages).

### Permits

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## Project Permitting

### Obtain permits

Total cost to Obtain permits	\$40,000	<i>Not Collected at Closure</i>
Enter the cost (to the nearest dollar) of this work type, as close as you can reasonably get it.		
Number of permits required for implementation of project	5	
Number of Permits required.		

## Architectural & Engineering

Administrative, architectural, and engineering services.

### Architectural & Engineering (A&E)

Administrative, architectural, and engineering services related to the development/restoration activities.

Total cost for Architectural & Engineering (A&E)	\$120,000	<i>Not Collected at Closure</i>
Enter the cost (to the nearest dollar) of this work type, as close as you can reasonably get it.		
Did A&E costs exceed billed amount (Yes/No)	<i>Collected at Closure</i>	
Did you spend more on architectural costs than you billed to RCO.		
Percent architectural & engineering	<i>Collected at Closure</i>	
Of the total development or restoration costs, identify the percentage spent for architectural & engineering - even if not billed to RCO.		

## Agency Indirect Costs

Funding provided for approved agency indirect costs.

### Agency Indirect

Indirect costs based on approved rate.

Total cost for Agency Indirect	\$50,500	<i>Not Collected at Closure</i>
Enter your estimated indirect costs (if applicable). Note: If your project has more than one worksite, you should only complete this for the first worksite.		

## Overall Metrics

### Current Agreement

### Final

### Planned Operation & Maintenance Costs

Estimated FTE's	<i>Collected on Application</i>	<i>Not Collected at Closure</i>
Enter the expected number of FTE's need by biennium.		
Estimated O&M Costs	<i>Collected on Application</i>	<i>Not Collected at Closure</i>
Enter the expected O&M costs by biennium.		
O&M Funding Source(s)	<i>Collected on Application</i>	<i>Not Collected at Closure</i>
Enter the Fund Source(s) to be used for O&M.		
O&M Activities	<i>Collected on Application</i>	<i>Not Collected at Closure</i>
Describe the O&M activities and the methodology used to calculate the estimate.		

### Completion Date

Projected date of completion	6/30/2017
Estimated date the scope of work will be completed.	

### Project Goals

Goals, purpose, and expected benefits (A.17)  
 Short description of the goals and purpose of the project and how it is expected to benefit salmonids or salmonid habitat.

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### Restoration Costs

*Final amounts include a pending billing  
Date of Last Released Billing 07/05/2018*

	<b>Proposed</b>	<b>Final</b>
<b>Worksite: Gheer Creek - Carlisle (#1)</b>		
SPLIT OUT FINAL TOTAL BELOW	\$700,450.00	\$67,921.04
<i>Design for Salmon restoration Costs</i>	\$71,000	\$0
Fish Passage Costs (C.2.a)	\$418,950	\$1,378
Permits Costs	\$40,000	\$8,158
Architectural & Engineering Costs	\$120,000	\$52,368
Agency Indirect Costs	\$50,500	\$6,017
Difference		\$0

### Billed Summary

*Final amounts include a pending billing  
Date of Last Released Billing 07/05/2018*

Category	Project Agreement		Expended	Totals To Date	
	RCO	Total		Non Reimbursable	Total Billed
Restoration					
Construction	571,126.42	580,450.00	15,553.20		15,553.20
AA&E	129,323.58	120,000.00	52,367.84		52,367.84
<b>Restoration Total</b>	<b>700,450.00</b>	<b>700,450.00</b>	<b>67,921.04</b>		<b>67,921.04</b>
<b>Total</b>	<b>700,450.00</b>	<b>700,450.00</b>	<b>67,921.04</b>		<b>67,921.04</b>

# Final Report, Project 16-1561

## Sponsor Match

	Proposed	Final
<b>Project Funding</b>		
PCSRF Federal Funds (A.10)		
State Funds (A.11)	\$700,450.00	\$63,030.24
Pending Billing - RCO Share Approved		\$4,890.80
<b>Sponsor Match: Monetary Funding</b>		
Amount of other monetary funding (A.12)	\$0	
Source of other monetary funding (A.12.a)		
<b>Sponsor Match: Donated Un-paid Labor (volunteers)</b>		
Value of Donated Unpaid Labor (Volunteers) (A.13.a.2)	\$0	
Source of Donated Un-paid labor contributions (A.13.a.4)		
Number of hours volunteers contributed to the project (A.13.a.1)	<i>Collected at Closure</i>	
Describe how the value of the volunteers was determined (A.13.a.3)	<i>Collected at Closure</i>	
<b>Sponsor Match: Donated Paid Labor</b>		
Value of Donated Paid Labor (A.13.b.1)	\$0	
Source of Donated Paid Contributions (A.13.b.2)		
<b>Sponsor Match: Other In-kind Contributions</b>		
Value of Other In-Kind Contributions (A.13.c.1)	\$0	
Source of Other In-Kind Contributions (A.13.c.3)		
Description of other In-Kind contributions (A.13.c.2)		
Amount Total	\$700,450	\$67,921
Total Billed		\$67,921
Difference		\$0

## Attachments

PHOTOS (JPG, GIF)

FILES AND PHOTOS

File Type	Attach Date	Attachment Type	Title	Person	File Name, Number Associations	Shared
No attachments match filter criteria						

## Final Report, Project 16-1561

### Certify & Submit

#### Status History

Report Status	Date	User	Note
Accepted	11/27/2018	Alice Rubin	Thank you.
Submitted	11/19/2018	Tina Green	
Draft	11/02/2018	Jamie Glasgow	



## PROJECT: 16-1561 REST, CARLISLE LAKE/GHEER CREEK FISH PASSAGE

Sponsor: Wild Fish Conservancy Program: CBS Habitat Rest. Project Status: Active  
Project Start Date: 07/09/2015 Agreement End Date: 12/31/2018

PROPERTY: Deskins Acre Estates (1: Gheer Creek - Carlisle)

### Property Basics

Acquisition  Restoration

### Property Location

<b>Property Name</b>	Deskins Acre Estates	<b>Property Description</b>	Deskins Acre Estates owns two fish passage barriers upstream from Deggler Road - a concrete dam and an undersized culvert. Passage will be restored.
<b>Property Address (optional)</b>		<b>Associated Worksite</b>	Gheer Creek - Carlisle (#1)
<b>City</b>			
<b>State</b>	<b>Zip</b>		

### Landowner

**Landowner Name** Deskins Acre Estates  
**Address (optional)** 109 Olding Rd. Ste 200  
**City** Bremerton  
**State** WA **Zip** 98312  
**Landowner Type** Local

### Control and Tenure

**Instrument Type** Landowner Agreement  
**Timing** Proposed  
**Term Type** Fixed # of years  
**# Yrs** 10  
**Expiration Date** 01/01/2021  
**Note**

### Parcel Numbers

County Name	Parcel Number	Mapped	Notes (optional)
No parcels			

### Recording Numbers

Instrument Type	Recording Number	Notes
No recordings		

### RCO Notes

Property data verified by RCO Staff

## Attachments

PHOTOS (JPG, GIF)

FILES AND PHOTOS

File Type	Attach Date	Attachment Type	Title	Person	File Name, Number Associations	Shared
No attachments match filter criteria						

**PROJECT: 16-1561 REST, CARLISLE LAKE/GHEER CREEK FISH PASSAGE**

Sponsor: Wild Fish Conservancy Program: CBS Habitat Rest. Project Status: Active  
Project Start Date: 07/09/2015 Agreement End Date: 12/31/2018

PROPERTY: Onalaska Alliance (1: Gheer Creek - Carlisle)

**Property Basics**

Acquisition  Restoration

**Property Location**

<b>Property Name</b>	Onalaska Alliance	<b>Property Description</b>	Onalaska Alliance owns the two fish passage barriers at the upstream and downstream extents of Carlisle Lake - passage will be restored at the dam and an undersized culvert.
<b>Property Address (optional)</b>		<b>Associated Worksite</b>	Gheer Creek - Carlisle (#1)
<b>City</b>			
<b>State</b>	<b>Zip</b>		

**Landowner**

**Landowner Name** Onalaska Alliance  
**Address (optional)** PO Box 634  
**City** Onalaska  
**State** WA **Zip** 98570  
**Landowner Type** Local

**Control and Tenure**

**Instrument Type** Landowner Agreement  
**Timing** Proposed  
**Term Type** Fixed # of years  
**# Yrs** 10  
**Expiration Date** 01/01/2021  
**Note**

**Parcel Numbers**

County Name	Parcel Number	Mapped	Notes (optional)
No parcels			

**Recording Numbers**

Instrument Type	Recording Number	Notes
No recordings		

**RCO Notes**

Property data verified by RCO Staff

**Attachments**

PHOTOS (JPG, GIF)

FILES AND PHOTOS

File Type	Attach Date	Attachment Type	Title	Person	File Name, Number Associations	Shared
No attachments match filter criteria						