



R & E Grant Application

Project #:

OHRC Dam Apron Extension

Project Information

Requested Cycle: 21-2
R&E Project Request: \$345,000
Other Funding: \$4,400
Total Project: \$349,400
Spending Start Date: 7/1/2021
Spending End Date: 6/30/2023
Project Start Date: 7/1/2022
Project End Date: 8/31/2022
Organization: Oregon Department of Fish and Wildlife

Applicant Information

Name: Jennifer Krajcik
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Alsea, OR 97324-9504
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Past Recommended or Completed Projects

This applicant has no previous projects that match criteria.

Location Information

Where is it?

The project will occur on public land owned or managed by the applicant

Site Description

Street Address, nearest intersection, or other descriptive location.

2457 E Fall Creek Rd, Alsea OR 97324. At the intake for the facility, just to the east/upstream from the main hatchery building.

Directions to the site from the nearest highway junction.

From Highway 34, 2.2 miles up Fall Creek Rd. Then up a side road just before the first bridge.

Following project completion, public anglers will be allowed the following level of access to the project site:

No access

Please describe what leases, easements, agreements are in place to ensure angler access to the project site, and what is the length of each agreement.

Anglers are not allowed to fish at the base of the dam as it is the entrance to the fish ladder.

Dominant Land Use Type:

Forest

Project Location

General Project Location.

County: LINCOLN
Town/City: Alsea
ODFW Dist: North Coast
Stream/Lake/Estuary Name: Fall Creek
Sub-basin: 17100205
Tributary of: Alsea River

Specific Project Location.

Latitude		Longitude	
44.40608		-123.75004	

Project Summary

Project Summary

Please provide a couple sentence summary of the proposal.

The existing dam apron is 3' wide. Endangered adult salmon can jump at the dam, but the chinook cannot clear it, and are sustaining facial damage. Steelhead are clearing the dam, potentially allowing hatchery fish to pass upstream. This project will extend the apron to prevent fish from jumping.

Overall Project Goals

Describe the primary goals or outcomes of the entire project, including elements not requesting

funding from R&E.

Over the last 4 years many improvements to the bank around the adult ladder and intake have been made. A final step will be protecting the fish from damaging themselves on the dam by preventing them from reaching it or clearing it when they jump.

Primary objectives of R&E funding

Please describe the measurable objectives for the R&E portion of the funding request.

To extend the downstream apron of the existing dam with low friction concrete to eliminate fish jumping into or over the dam.

Current Situation/Justification

Please describe the current situation and explain why this funding is needed.

The OHRC is located on Fall Creek, which is a stream with no hatchery outplants. The vast majority of adult fish that come upstream to the dam are wild and endangered fish. During the 2020-21 season, many chinook salmon that were handled in the trap showed signs of facial damage that was attributed to fish jumping into the dam wall. Steelhead have been observed jumping over the dam wall, which could allow hatchery strays to move upstream. Extending the apron of the dam will eliminate both issues by keeping fish away from the wall. This problem was found after the initial project was completed, and thus was not included in the original funding request. This need is above and beyond our normal operating costs, which is why we are requesting this funding at this time.

Recreation and Commercial Benefit

This project will provide benefits to:

Recreational fisheries

Explain how this project will contribute to current (and/or potential) fishing opportunities, access, or fisheries management.

This project contributes to fisheries management by reducing damage to the Chinook that pass upstream to spawn, which can help with survival to spawning. It also contributes to lowering Steelhead pHOS by allowing us to handle all fish that come upstream and remove any hatchery strays from the system. Increased numbers of Chinook able to spawn could lead to a better fishery at the mouth of the Alsea, and reducing potential hatchery fish upstream could influence the future releases from Alsea Hatchery, a popular fishing location. Improvements will also benefit ESA listed Coho salmon both by reducing damage and potential strays.

Percent benefit split between Commercial and Recreational anglers:

0 % Commercial

100 % Recreational

Please explain, or justify, how the percentage split was determined:

This project has been identified as an ODFW priority for:

Local/watershed

Does this project directly support implementation of the ODFW Strategic Plan and/or current Fish Division priorities?

Unknown

Please briefly explain when this was identified as a priority and what process or workgroup was used to identified this as an ODFW priority.

Staff at OHRC observed damage on adult fish moving upstream after upgrades were completed to the dam at the adult trap in 2020. Working with ODFW engineering, the apron extension was determined to be the simplest solution. An Army Corp permit already exists for working at the dam.

Identify any plan or other document that identifies this priority.

Is this project part of an approved Salmon-Trout Enhancement Program (STEP) activity?
No

This project is intended to benefit the following species:

Fall Chinook Salmon
Coho Salmon
Winter Steelhead

This project will benefit anglers or fishery by providing:

Monitoring/Research
Fish Passage

Monitoring/Research

This project will be used to evaluate:

Population composition (i.e age, species, survival, size, or genetics)

Has this project been reviewed or developed by an individual with appropriate qualifications (i.e ODFW biometrician, research professor)?

No

The adult ladder at OHRC is currently used for this monitoring purpose. Extending the apron will give more accurate information as fish will be unable to bypass the adult trap.

Is this study critical to fishery management decisions?

No

No

Is there a plan to repeat this monitoring or research in the future?

Yes

This monitoring happens annually and will always happen as there is no other way to pass fish upstream while also removing any strays.

Will the data be reported or published?

No

Fish Passage

This fish passage project will:

Modify or repair an existing fishway/passage structure

We have contacted or have been working with:

Local ODFW staff
The project has received approval

Project Description

Schedule

Activity		Date	RE Funding
Project #:	Last Modified/Revised: 5/25/2021 1:35:18 PM		Page 4 of 11
OHRC Dam Apron Extension			

Contract Awarded	05/2022	No
Prepare and Pour the apron	07/2022	Yes

Permits

Permit	Secured?	Date Expected
USACE/DSL Joint Permit	Yes	
NPDES	Yes	

Project Design and Description

Please describe in detail the methods or approach that will be used to achieve the project objectives.

The work area will be isolated with a coffer dam at the downstream end, and all creek water will be routed around the work area via the adult trap. The dam will provide the upstream isolation. A fish salvage will be conducted prior to dewatering the area, after which water will be removed, as well as any large rocks that would be taller than the poured apron. Forms will be built and rebar installed, then the area will be poured utilizing low friction concrete. Turbidity levels will be monitored throughout the work.

Engineering

Does the project involve capital improvement, engineering, site grading or other construction?

Yes

On ODFW land or managed by ODFW staff

Project Management and Maintenance

What is the life expectancy of R&E funded construction, structures, equipment, supplies, data or fishery?

The life expectancy of this improvement is the life of the dam. There should be no reason to need to replace the apron again, unless the water wears the concrete away at some point exposing the rebar. At that time a new surface would need to be added.

Who is responsible for long term management, maintenance, and oversight of the project beyond what is funded by R&E.

OHRC staff are responsible for management and maintenance of the apron. It will be visually inspected each summer to ensure it doesn't have any exposed rebar, and should there be an issue they will work with engineering to solve the problem.

Will the project require ongoing maintenance?

No

Is there a plan to collect baseline data and to conduct monitoring efforts to measure the effectiveness of the project?

Yes

While working in the adult trap, staff will be able to visually look at fish to determine if they are healthy and do not exhibit facial damage.

Project Funding

Funding

Have you applied for OWEB funding for this project?

No

Has this proposal, or similar proposal for this project location, previously been denied by OWEB or other funding source?

No

Other Funding Source	Type	Secured	Dollar Value	Comments
OHRC Budget	Cash	Pending	4000	NPDES Permit
OHRC Budget	Cash	Secured	400	OHRC staff time monitoring project and turbidity
		Total	4400	

Budget

Item	Unit Number	Unit Cost	In-kind or non-cash contributions	Funding from other sources	R&E Funds	Total Costs
PROJECT MANAGEMENT						
ODFW Engineering	80	50.00	4000	0	0	4000
		SUBTOTAL	4000	0	0	4000
IN-HOUSE PERSONNEL						
Staff time monitoring project and turbidity	15	25.00	0	400	0	400
		SUBTOTAL	0	400	0	400
CONTRACTED SERVICES						
Preparing and Pouring apron	80	0.00	0	0	345000	345000
		SUBTOTAL	0	0	345000	345000
TRAVEL						
			0	0	0	0
		SUBTOTAL	0	0	0	0
SUPPLIES/MATERIALS						
			0	0	0	0
		SUBTOTAL	0	0	0	0
EDUCATION/OUTREACH						
			0	0	0	0
		SUBTOTAL	0	0	0	0
EQUIPMENT						
			0	0	0	0
		SUBTOTAL	0	0	0	0
FISCAL ADMINISTRATION						
			0	0	0	0
		SUBTOTAL	0	0	0	0
		BUDGET TOTAL	4000	400	345000	349400

Project Map



Additional Files

Budget Information

Maps

[Project Map](#)

Map image of project location

Photos

Design Information

[BMP, Area Overview, Work Area](#)

BMP, Area Overview, Work Area in Green

[Proposed Site Drawing](#)

Plans for apron

Management Plans and Supporting Documents

Permits and Reviews

[DSL Permit](#)

Updated DSL Permit

Partnerships

Public Comment

Administrative Documents

Completion Report

A completion report has not been submitted for this project.