



R & E Grant Application 17-19 Biennium

Project #: 17-048

Wildhorse Creek Fish Passage

Project Information

Requested Cycle: 17-5
R&E Project Request: \$54,808
Other Funding: \$693,796
Total Project: \$748,604
Spending Start Date: 7/1/2017
Spending End Date: 6/30/2019
Project Start Date: 7/1/2017
Project End Date: 6/30/2019
Organization: Umatilla Basin Watershed Foundation (Tax ID #: 93-1231250)

Applicant Information

Name: Michael Ward
Address: 920 SW Frazer Drive
P.O Box 1551 Pendleton, OR 97801
Pendleton , OR 97801
Telephone: 541-276-2190
Telephone 2: 541-969-0562
Email: director@umatillawc.org

Past Recommended or Completed Projects

This applicant has no previous projects that match criteria.

Authorized Agent

Name: Michael Lambert
Address: 3406 Cherry Ave. NE
Salem, OR 97303
Telephone: 503-947-6201
Telephone 2: 503-947-6224
Fax: 503-947-6203
Email: michael.b.lambert@state.or.us

Authorized Agent

Name: Richard Christian
Email: richardc@nezperce.org

Authorized Agent

Name: Michael Ward
Address: 920 SW Frazer Drive
Pendleton , OR 97801
Telephone: 541-276-2190
Telephone 2: 541-969-0562
Email: director@umatillawc.org

Location Information

Where is it?

The project will occur on public land owned or managed by another party
The project will occur on private land owned or managed by another party

Landowner Information

Name: City of Athena
Affiliation: City of Athena
Address: 302 E Current Street
Athena, Oregon , 97813
Phone: 541-566-3862
Email: cityhall@cityofathena.com

Name: Umatilla County
Affiliation: Umatilla County
Address: 216 SE Fourth St
Pendleton, Oregon, 97801
Phone: 541-276-7111

Name: Julie & Cliff Alford
Affiliation: Private Landowner/Athena Resident
Address: 78708 3rd Street
Athena , Oregon, 97813
Phone: 541-566-2462
Cell: 541-969-6618

Name: Eli Stephens
Affiliation: Private Landowner/Athena Resident
Address: 346 SW 3rd St #2
Athena , Oregon , 97813
Phone: 541-379-5506

Site Description

Street Address, nearest intersection, or other descriptive location.

3rd street bridge in Athena, Oregon directly next to the Athena City Park.

Directions to the site from the nearest highway junction.

Heading NE and/or SW on Oregon-Washington Highway 11, turn North on 3rd Street into the City of Athena. From Highway 11, the project site is the first bridge crossing on 3rd Street, located directly next to the Athena City Park.

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

Full 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.

Forest. This project will benefit anglers along the Umatilla River by increasing the carrying capacity of Wildhorse Creek.

Dominant Land Use Type:

Cropland
Rural residential

Project Location

General Project Location.

County: Umatilla
Town/City: Athena
Stream/Lake/Estuary Name: Wildhorse Creek
Sub-basin: Wildhorse Creek -17070103
Tributary of: Umatilla River

Specific Project Location.

Latitude		Longitude	
45.806233		118.485121	

Project Summary

Project Summary

Please provide a couple sentence summary of the proposal.

The (UBWC) and partners are collaborating with the City of Athena and Umatilla County Public Works to address fish passage and habitat in Wildhorse Creek near Athena, Oregon. Fish passage at the South 3rd Street Bridge is a statewide priority and will provide access to an additional 15.4 miles.

Overall Project Goals

Describe the primary goals or outcomes of the entire project, including elements not requesting funding from R&E.

The goal of this project is to restore fish migration passage and enhance instream habitat conditions for native resident and migratory fish species, primarily focused on Summer Steelhead, Pacific Lamprey, and Coho salmon, at the location the South 3rd Street crossing in Athena, Oregon.

Primary objectives of R&E funding

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

1. Remove the grade control sill-wall and construct a roughened channel feature to improve and restore migration passage for anadromous salmonids, specifically adult and juvenile steelhead, in Wildhorse Creek.
2. Replace the existing South 3rd Street Bridge with a structure that provides adequate flow conveyance at a 100-year flow recurrence interval.
3. Maintain and improve geomorphic stability of the Wildhorse Creek channel within the City of Athena;
4. Maintain and enhance the existing fish habitat features;

5. Protect the existing vegetation and city/personal property to the extent possible;
6. Maintain existing habitat features and vegetation as much as possible;
7. Decrease stream velocity through the South 3rd Street Bridge at peak flows;
8. Increase the carrying capacity of Wildhorse Creek & the Umatilla River for Salmonid Species;
9. Increase fish numbers for anglers in the Umatilla Basin and Mid-Columbia River.

Current Situation/Justification

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

ODFW & CTUIR biologist have identified a passage obstruction for steelhead along with resident rainbow trout, Pacific Lamprey, Coho Salmon, and several other non-salmonid fish species at the South 3rd Street Bridge in Athena, Oregon. Replacing the bridge was chosen because it was the only alternative from the feasibility study that would allow fish passage at all flows. The existing bridge structure is a concrete box with winged buttress walls and a concrete floor, which provides no associated jump pool. A channel spanning, concrete grade control wall located 10 feet upstream of the bridge creates a 4-foot drop in water surface elevation. These structures limit flow conveyance and passage during peak flows due to increased water velocity, and also contributes to habitat degradation. This project intends to remove the passage obstruction, replace the bridge with a larger structure that meets NMFS and ODFW fish passage criteria, meets FEMA no-rise requirements, and stabilize channel bed gradient by creating a 300-ft. roughened channel. Restoring fish passage at the South 3rd Street Bridge will provide access to an additional 15.4 miles of usable habitat for salmonid rearing and spawning.

Recreation and Commercial Benefit

This project will provide benefits to:

Recreational fisheries
Commercial fisheries

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

Restoring fish passage at the South 3rd Street Bridge will provide access to an additional 15.4 miles of usable habitat for salmonid rearing and spawning. This project will increase the overall carrying capacity of Wildhorse Creek and the Umatilla River, which will also increase the overall number of Steelhead moving up and down the Columbia River; benefiting anglers and gill netting.

Percent benefit split between Commercial and Recreational anglers:

0 % Commercial
100 % Recreational

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

Although it will be difficult to quantify, there will presumably be an increased number of fish migrating out of Wildhorse Creek into the mainstem Umatilla and Columbia Rivers. This will provide some increased opportunity for recreational and tribal fishermen.

This project has been identified as an ODFW priority for:

Local/watershed
Basin/regional
Statewide

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

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

Identify any plan or other document that identifies this priority.

Umatilla/Willow Sub-Baisn Plan

Umatilla River Vision

Mid-Columbia Steelhead Recovery Plan

Is this project part of an approved Salmon-Trout Enhancement Program (STEP) activity?

No

This project is intended to benefit the following species:

Coho Salmon

Lamprey

Summer Steelhead

Rainbow Trout

This project will benefit anglers or fishery by providing:

Angling Opportunity

Fish Passage

Angling Opportunity

This project will:

Provide new opportunity for anglers to catch fish (new pond, more fish to stock more areas, new species)

Enhance natural production of fish stocks to levels that allow for recreational fishing opportunities

Restore a degraded fishery

Fish Passage

This fish passage project will:

Remove a barrier that does not have an existing fishway/passage structure

We have contacted or have been working with:

Local ODFW staff

The project has been reviewed and is awaiting approval

Project Description

Schedule

Activity	Date	RE Funding
In-Stream work window for Wildhorse Creek	9/1/18 - 10/31/18	Yes

Permits

Permit	Secured?	Date Expected
Section 404 Permit -Army Core of Engineers (USACE)	No	5/1/2018

Removal/Fill - Oregon Department of State Lands	No	5/1/2018
Section 401 Water Quality Cert - Oregon Department of Environmental Quality	No	5/1/2018
National Pollutant Discharge Elimination System - ODEQ	No	5/1/2018
Potential Cultural Resources Impacts - Historical Preservation Office (SHPO)	No	5/1/2018
Flood Permit - No Rise Certification (FEMA)	No	5/1/2018
Amendment to Umatilla County Comprehensive Plan - Umatilla County Land Use	Yes	
FH, Flood Hazard Overlay Zone - Umatilla County Department of Land Use Planning	Yes	

Project Design and Description

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

The 2016 OWEB funded feasibility study looked at several alternatives and concluded that a new bridge was the only one that allowed fish passage at all flows, could accommodate a 100 year flood event and did not involve extensive, potential maintenance issues that the city and county would not accept. Please refer to the attached alternative analysis memo. R&E funds are being request for the roughen channel/fish habitat part of the project. The UBWC has applied/requested funding from OWEB, CTUIR, Umatilla County, the City of Athena, and ODOT in addition the the funds request from the Restoration and Enhancement program.

Engineering

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

Yes

Not associated with ODFW

Project Management and Maintenance

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

The bridge is permanent and ODOT indicates that the useful lifespan should be about 75-100 years.

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

City of Athena will assume maintenance of the bridge and Umatilla County Public works will continue road maintenance to Hwy 11, as part of an IGA that was written as part of this project. The IGA has been signed by all parties as o 2/20/2018.

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

CTUIR will conduct longterm monitoring on Wildhorse Creek for salmon and lamprey passage as well as the presence of mussels and other aquatic species.

Project Funding

Funding

Have you applied for OWEB funding for this project?

Yes

OWEB application number: 218-6026-15992

Received an award.

Did not receive an award.

Awaiting a decision from the panel.

OWEB did not fund the removal but they did fund the 2016 feasibility study, which is included as part of the Umatilla Basin Watershed Council match in this grants funding source.

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

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[{"source":"Confederated Tribes of the Umatilla Indian Reservation (CTUIR)","type":"In-Kind","secured":"Secured","dollarValue":62000,"comments":"In-Kind staff time for Cultural Resource Impacts, Project Management/oversight, outreach and landowner engagement."}, {"source":"Eric Sederberg ","type":"In-Kind","secured":"Secured","dollarValue":23000,"comments":"Local Landowner - Providing disposal location and equipment use."}, {"source":"City of Athena ","type":"In-Kind","secured":"Secured","dollarValue":10000,"comments":"City street crew and recorder providing landowner engagement, post planting upkeep/watering."}, {"source":"Umatilla County Public Works ","type":"In-Kind","secured":"Secured","dollarValue":20000,"comments":"Umatilla County Public Works will be providing dump trucks, crews, and hauling of old concrete structure."}, {"source":"ODFW","type":"In-Kind","secured":"Secured","dollarValue":10000,"comments":"ODFW is providing staff time to review plans, meetings, and provide piping equipment."}, {"source":"Umatilla Basin Watershed Council ","type":"In-Kind","secured":"Secured","dollarValue":10000,"comments":"Council providing staff time for permitting, public meetings, project documentation, site tours, travel, media day, in-kind volunteer time by two retired DEQ & CTUIR Engineers (PE) to oversee and review project designs."}, {"source":"Confederated Tribes of the Umatilla Indian Reservation ","type":"Cash","secured":"Secured","dollarValue":250000,"comments":"CTUIR has provided cash for the construction ready design by our contractors at Tetra Tech as well as additional funding for project cost."}, {"source":"Confederated Tribes of the Umatilla Indian Reservation ","type":"Cash","secured":"Secured","dollarValue":100000,"comments":"Project Design - 100% completion by May 1, 2018."}, {"source":"OWEB - UBWC grant for 2016 Feasibility Study ","type":"In-Kind","secured":"Secured","dollarValue":48796,"comments":"Feasibility Study completed in November 2016 by GeoEngineers"}, {"source":"ODOT/ODFW Fish Passage Compensation Funds","type":"Cash","secured":"Secured","dollarValue":140000,"comments":"Funding for the purchase of a new bridge that meets NOAA and ODFW fish passage standards."}, {"source":"Umatilla County Economic Development Funds","type":"Cash","secured":"Pending","dollarValue":20000,"comments":"Funding requested to help components of the new bridge; railings, walkways."}]
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Other Funding Source	Type	Secured	Dollar Value	Comments
Confederated Tribes of the Umatilla Indian Reservation (CTUIR)	In-Kind	Secured	62000	In-Kind staff time for Cultural Resource Impacts, Project Management/oversight, outreach and landowner engagement.
Eric Sederberg	In-Kind	Secured	23000	Local Landowner - Providing disposal location and equipment use.
City of Athena	In-Kind	Secured	10000	City street crew and recorder providing landowner engagement, post planting upkeep/watering.
Umatilla County Public Works	In-Kind	Secured	20000	Umatilla County Public Works will be providing dump trucks, crews, and hauling of old concrete structure.
ODFW	In-Kind	Secured	10000	ODFW is providing staff time to review plans, meetings, and provide piping equipment.

Umatilla Basin Watershed Council	In-Kind	Secured	10000	Council providing staff time for permitting, public meetings, project documentation, site tours, travel, media day, in-kind volunteer time by two retired DEQ & CTUIR Engineers (PE) to oversee and review project designs.
Confederated Tribes of the Umatilla Indian Reservation	Cash	Secured	250000	CTUIR has provided cash for the construction ready design by our contractors at Tetra Tech as well as additional funding for project cost.
Confederated Tribes of the Umatilla Indian Reservation	Cash	Secured	100000	Project Design - 100% completion by May 1, 2018.
OWEB - UBWC grant for 2016 Feasibility Study	In-Kind	Secured	48796	Feasibility Study completed in November 2016 by GeoEngineers
ODOT/ODFW Fish Passage Compensation Funds	Cash	Secured	140000	Funding for the purchase of a new bridge that meets NOAA and ODFW fish passage standards.
Umatilla County Economic Development Funds	Cash	Pending	20000	Funding requested to help components of the new bridge; railings, walkways.
		Total	693796	

Budget

Item	Unit Number	Unit Cost	In-kind or non-cash contributions	Funding from other sources	R&E Funds	Total Costs
PROJECT MANAGEMENT						
CTUIR DNR Staff time for Project Mangament	250	100.00	25000	0	0	25000
		SUBTOTAL	25000	0	0	25000
IN-HOUSE PERSONNEL						
Umatilla Basin Watershed Council	100	100.00	6000	0	0	6000
		SUBTOTAL	6000	0	0	6000
CONTRACTED SERVICES						
STRUCTURE BACKFILL	1238	12.50	0	15475	0	15475
ROADWAY BASE ROCK	100	10.00	1000	0	0	1000
EXCAVATION-FLOODPLAIN, CHANNEL	900	42.00	0	30800	7000	37800
DEMOLISH BRIDGE, GRADE CONTROL STRUCTURE, APRON	180	32.00	0	5760	0	5760
EXCAVATION CONCRETE RUBBLE DOWNSTREAM	50	32.00	0	1600	0	1600
EXCAVATION-INSTALL ABUTMENTS	1000	30.00	0	30000	0	30000
STREAMED COBBLE MIX	294	19000.00	0	0	5586	5586
TEMPORARY TRAFFIC CONTROL	1	0.00	5835	0	0	5835
EXCAVATION - EXISTING STRUCTURE	900	34.00	0	30600	0	30600
CLEAN FILL & DISPOSAL LOCATION, TRACTOR USE, COVER, LEVEL, FILL	23	1000.00	23000	0	0	23000
MOBILIZATION & DEMOBILIZATION	2	15000.00	0	30000	0	30000
TREE REMOVAL	1	1500.00	0	1500	0	1500
BRIDGE DECK, ABUTMENTS, WING WALLS, HARDWARE	1	175465.00	0	175465	0	175465
APPROACH-GUARDRAIL	2	5000.00	0	12000	0	12000
BOULDERS	200	93.00	0	0	18600	18600
ROUGHENDED RIFFLE	1	10600.00	0	0	10600	10600
BIOSWALE	1	7000.00	0	7000	0	7000
CONSTRUCTION AREA BMPS	1	0.00	0	10000	0	10000
TEMPORARY EROSION AND SEDIMENTATION CONTROL	1	8299.00	0	8299	0	8299
STREAM COFFERDAMS	1	10000.00	0	0	10000	10000
WATER MANAGEMENT	1	4800.00	0	0	0	0
PROJECT DESIGN	1	100000.00	0	100000	0	100000
CLEARING AND GRUBBING	1	3000.00	0	3000	0	3000
FLOODPLAIN/RIPARIAN PLANTING	1	5000.00	0	3330	1670	5000
ROAD APPROACH PAVING	700	5000.00	0	3536	0	3536
WEARING SURFACE	1800	6500.00	0	11700	0	11700
SIDEWALK	100	45.00	0	8500	0	8500
SAFETY FENCE	300	7000.00	0	2100	0	2100
GEOTECHNICAL INVESTIGATION	1	100.00	0	10000	0	10000
INSTALL GURADRAILS	50	50.00	0	2500	0	2500
CTUIR CULTURAL RESOURCE REPORT/INVESTIAGTION	370	100.00	37000	0	0	37000
UMATILLA ODFW - FISH SALVAGE	100	50.00	5000	0	0	5000
UMATILLA COUNTY PULBIC WORKS - HAULING	200	100.00	20000	0	0	20000
2016 OWEB/UBWC Feasibility Study	0	0.00	48796	0	0	48796
		SUBTOTAL	140631	503165	53456	697252
TRAVEL						
Staff Travel Match	0	0.00	1000	0	0	1000
		SUBTOTAL	1000	0	0	1000
SUPPLIES/MATERIALS						
			0	0	0	0
		SUBTOTAL	0	0	0	0
EDUCATION/OUTREACH						
UBWC PROJECT DOCUMENTATION, MEDIA DAY, SITE FUNDING SIGNS	0	0.00	2000	0	0	2000
		SUBTOTAL	2000	0	0	2000

EQUIPMENT

ODFW - PROVIDING PIPE FOR STREAM DIVERSION	0	0.00	5000	0	0	5000
UMATILLA COUNTY PUBLIC WORKS - DUMP TRUCKS	0	0.00	10000	0	0	10000
		SUBTOTAL	15000	0	0	15000

FISCAL ADMINISTRATION

UMATILLA BASIN WATERSHED COUNCIL - Documentation, R&E REPORTING & Fiscal Admin	0	0.00	1000	0	1352	2352
		SUBTOTAL	1000	0	1352	2352
		BUDGET TOTAL	190631	503165	54808	748604

Internal Review Results

Review Score: 1.2 out of 3

(0 = Do Not Fund, 1 = Strengthen Proposal, 2 = Recommend, 3 = Strongly Recommend)

Summary of Review Team Comments

While the team did see the value of this project to steelhead, it was not clear from the application if this was a priority and how it would benefit anglers. During discussions the review team was able to discover that this is worthy and likely a priority project for Steelhead. The need for RE funding and requested elements was of concern to the team. The applicant should work with the district to better explain and justify this project. Review scores included one 0s, four 1s, and three 2s.

Specific Review Team Comments

Please better describe the line items for RE funding. Several do not match up well with the intent of the RE program (paving, BMPS, bioswale). Please describe the \$10,000 BMP line item as it seems like many BMP elements are already covered in different line items. The BMP line item appears redundant and that it may be used to pad the budget. The proposal should better describe the benefits of the R&E funded components of the project.

The sport/commercial split needs to be modified to 100% sport unless this will significantly benefit Chinook or can provide support for this claim. There is no commercial harvest of Steelhead in Oregon, except some Tribal harvest that does not contribute to RE. There is also minimal Coho harvest. It would be good to better explain the benefits of this on local steelhead fisheries. What percentage of production or rearing is from, or could be from, this area.

The project is apparently a priority but was left off the 2013 statewide priority list. It will open up access to 15 miles of habitat and our passage program recently awarded about \$140,000 for this project. Passage designs have been submitted and preliminarily the project appears to meet fish passage design criteria.

The budget and timelines need to be updated to reflect the \$140k award from ODFW/ODOT Passage mitigation fund. Since you only received \$140k out of your \$229k request, will the RE request be sufficient to move this forward this summer or will there be delays? RE funds, if awarded, need to be spent no later than June 30, 2019, with no chance for extension. what about other unsecured funds?

Specific Review Team Questions

Please describe this barrier in a larger context. Such as: how many other high priority barriers remain in the Umatilla Basin, where are agencies with addressing the highest priority barriers, where does this project fit on the statewide priority list?

Specifically, to Wildhorse Creek, there is only one other partial barrier at the mouth of Wildhorse and the Umatilla - which will be addressed in 2019-2021. This project addresses the only full passage barrier on Wildhorse Creek, and there are no other full passage barriers below the project site to the confluence of the Umatilla and Columbia Rivers. Last year, ODFW and partners removed the 137 ft. Dillon Irrigation Dam and, in the upcoming summer of 2018, that team will remove the Brownell Dam on the Umatilla River. The Umatilla Tech Team has plans to pursue the removal of the Browns Dairy Dam on the Umatilla in the summer of 2019. In the resubmit, R&E funds were focused on habitat features and the line item request for BMP and paving were removed/transferred to a more appropriate funding source(s). If R&E funds are secured, this project will be completed during the summer of 2018! The only remaining funding

sources that are "pending" are the Umatilla County Economic Development Funds, which if not awarded, will not stop the project from being completed in the summer of 2018. The \$140,000 awarded by the ODFW/ODOT passage mitigation funds, when combined with the R&E request (\$54,808), will be sufficient to complete this project.

What is the quality of the upstream habitat? The photos suggest that water availability could be an issue.

The removal of the Dam in Athena in which this project addresses is important because it is the only tributary on the north side of the Umatilla River that provides access to the Blue Mountains. Wildhorse Creek has high flows from early Fall through late spring when Summer Steelhead need passage and access to the higher quality upstream habitat. Agriculture stops 6.5 miles upstream of the barrier that this project seeks to address. This contributes to the upstream/currently inaccessible habitat being of much better quality than the section of the river below the passage barrier. CTUIR biologist identified resident Rainbow Trout living upstream above the passage barrier. Opening the 15.4 miles of upstream rearing and spawning habitat will provide significant uplift for Steelhead populations in the Umatilla Basin.

Additional Files

Budget Information

Maps

[Project Location - Aerial Map](#)

Project Location - Aerial Map

Photos

[Habitat Above the 3rd Street Barrier](#)

Blocked quality upstream habitat for rearing and spawning

[Project Site Photos](#)

Wildhorse Creek Fish Passage

Design Information

[60 % Design](#)

60% Design - 90 % is expected on March 1, 2018

Management Plans and Supporting Documents

[Alternative Analysis Memo](#)

Alternative Analysis Memo

[Design Schedule](#)

Engineering Design Schedule

[DFW State Passage Priorities](#)

Wildhorse Creek Fish Passage_Priority

[Feasibility Study](#)

Feasibility Study

[ODFW Statewide Passage Priority Listing](#)

Wildhorse Creek Passage Priority Listing

[Project Staging Area](#)

Project Staging Area

Permits and Reviews

Partnerships

[Secured Match Form](#)

Secured Match Form

Public Comment

[City of Athena - Letter of Support](#)

City of Athena - Letter of Support

[Letter of Support - SWCD](#)

Wildhorse Creek Fish Passage- SWCD Support Letter

[Trout Unlimited - Letter of Support](#)

Trout Unlimited - Letter of Support

Administrative Documents

[IRS Tax Exempt Status](#)

IRS Tax Exempt Status

[Signature Page](#)

Signature Page

Completion Report

A completion report has not been submitted for this project.