



R & E Grant Application 17-19 Biennium

Project #: 17-004

South Fork John Day Riparian Re-Vegetation

Project Information

Requested Cycle: 17-1
R&E Project Request: \$19,683
Other Funding: \$218,997
Total Project: \$238,680
Spending Start Date: 7/1/2017
Spending End Date: 10/31/2018
Project Start Date: 10/25/2016
Project End Date: 10/31/2019
Organization: Cascade Pacific RC&D (Tax ID #: 93-0722979)

Fiscal Officer

Name: Molly Davis
Address: 31978 N. Lake Ck Dr
Tangent, OR 97389
Telephone: 541-248-3094
Email: molly@cascadepacific.org

Applicant Information

Name: Amy Stiner
Address: P.O. Box 522
Mount Vernon, OR 97865
Telephone: 541-792-0435
Email: astiner@outlook.com

Past Recommended or Completed Projects

This applicant has no previous projects that match criteria.

Authorized Agent

Name: Amy Stiner
Address: P.O. Box 522
Mount Vernon, OR 97865
Telephone: 541-792-0435
Email: astiner@outlook.com

Location Information

Where is it?

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

Landowner Information

Name: Phil St. Clair
Address: 45408 Izee-Paulina Ln
Canyon City, OR, 97820
Phone: 541-477-3828
Email: rizdollie@gmail.com

Name: Richard Nelson
Affiliation: Izee Ranch
Address: 14414 Burns Izee Rd
Canyon City, OR, 97820
Phone: 541-477-3880
Email: rnelson@plantsciences.com

Site Description

Street Address, nearest intersection, or other descriptive location.

The project is located in the area known as Izee, in the South Western corner of Grant County.

Directions to the site from the nearest highway junction.

The project location is 25 miles west of the junction of the Izee/Paulina Lane, and Hwy 395N, in Grant County, Oregon.

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

Limited 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.

The site is located on privately owned ranches, with limited angler access, there are no existing agreements to allow angling access.

Dominant Land Use Type:

Wetland

Project Location

General Project Location.

County: GRANT
ODFW Dist: John Day
Stream/Lake/Estuary Name: Magill Creek
Sub-basin: 17070201
Tributary of: South Fork John Day River

Specific Project Location.

Project Summary

Project Summary

Please provide a couple sentence summary of the proposal.

The South Fork John Day Watershed Council, with the consultation of Kendra Smith, is implementing a rapid riparian revegetation project (R3), planting up to 2500 stems/acre, within 15 acres, across 2 landowners, and along 4 miles of the South Fork John Day River.

Overall Project Goals

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

By using our R3 planting approach, we hope to achieve canopy cover for the river as quickly as possible through the use of woody plants, planted at densities derived from reference sites, to restore and maintain suitable fish and wildlife habitat, and increase water quality and quantity.

Primary objectives of R&E funding

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

We have collected baseline bioassessment monitoring in 2001, 2004, and 2006. We are proposing a re-assessment of the macroinvertebrate community populations in conjunction with the R3 approach.

Current Situation/Justification

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

Decades of intensive use of riparian areas and other wetlands in central and Eastern Oregon have caused substantial degradation of their ecological structure, composition and function. Habitat degradation has led to losses of fish and wildlife populations within the watershed (Grant SWCD 1991). According to the Western Native Trout Status Report, distribution of Redband trout is estimated to include only 54.7% of its historic range, with only 5.3% being occupied by strong populations. The entire length of the South Fork of the John Day River is listed as water-quality limited for temperature (i.e., it exceeds the 64° F standard) on the Oregon Department of Environmental Quality's (DEQ) 303(d) list. Rehabilitation, restoration and monitoring of wetland ecosystems is currently a high priority for many land management agencies and landowners (Crowe et al, 2004).

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.

According to the Stream Restoration Program for the Upper South Fork of the John Day River (USBOR, 1992), measures focused on improvement of riparian areas would have the greatest positive effect on water temperature, sediment, and fish habitat and are needed on both public and private lands. The Upper South Fork John Day Water Optimization Study estimated a doubling of lower South Fork steel head production from implementation of identified restoration

actions, Completing improvements in the upper watershed, where steelhead are blocked by a natural passage barrier, is critical to achievement of production goals in the lower watershed.

Percent benefit split between Commercial and Recreational anglers:

5 % Commercial

95 % Recreational

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

The project location is 150 miles to any commercial fishery areas.

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?

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.

The Upper South Fork John Day River Watershed Assessment:

The Upper South Fork John Day Water Optimization Study

Upper Mainstem and South Fork John Day River Agricultural Water Quality Management Area Plan

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

No

This project is intended to benefit the following species:

Rainbow Trout

This project will benefit anglers or fishery by providing:

Habitat Enhancements

Habitat Enhancements

The primary purpose of this project is to improve/increase:

In water structure, complexity, and habitat

Planting or vegetation management

Riparian - reduce bank erosion

Project Description

Schedule

Activity	Date	RE Funding
Seed/cutting Collection, installation of protective fencing	10/2016	Yes
Plant production by contracted nursery, and Confederated Tribes of the Warm Springs	10/2016	No
Site preparation, reed canary grass and noxious weed abatement	04/2017	Yes
Placement of Beaver Dam Analogues	04/2017	No
Re-Assessment of Macroinvertebrate communities	7/2017	Yes
Planting Vegetation in Riparian Area	12/2017-12/2018	No

Permits

Permit	Secured?	Date Expected
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Project Design and Description

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

We will use a mix of bare root, rooted cuttings, and a small amount of d-pot potted stock. We will use "Riparian and Wetland Vegetation of Central and Eastern Oregon" (Crow, 2004) as guidance on the plant communities, and base our planting on the plant community associations common for the site conditions (likely Booth-Geyer- Lemmon Willow Associations, and Coyote Willow dry alluvial and Scoulers associations for drier segments). We also have the soil data for the area, provided by the Natural Resource Conservation Service. The final plant species and quantities will be developed in cooperation with tribal botanists, and local nurseries willing to grow the necessary stock.

For the beaver dam analogs, we propose drilling several untreated fence posts (varies based on channel width), approximately a foot apart, across the channel and set the height at the low terrace/bankfull elevation. They would be woven with some willow to encourage the sound of spilling water. Additional willow cutting stock would be left near the structures to encourage beaver to build. Up to four complexes of three beaver analogs post sets will be placed in locations most likely to support and encourage beaver to construct dams. We will call upon NOAA and other experts in beaver work to peer review our location selection and offer any additional advice (Kendra Smith has implemented these types of projects in other locations in the State). Sites will be selected that are within a beavers' typical intrinsic potential to occupy (channel <8m wide bankfull width, >30m valley width, and <4% slope), and where food sources are abundant enough to support their persistence.

The Bioassessment will be performed by the same individual who established the 2001-2006 baseline surveys. Data gathered will produce a comprehensive assessment of stream physical habitat, riparian zone vegetative conditions, water quality, and macroinvertebrate community characteristics in the upper South Fork subbasin. These new results will be compared to those from the 2001-2006 baseline surveys to quantify any significant changes occurring in the decade since monitoring last occurred and to establish a new baseline immediately prior to revegetation work.

Engineering

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

No

Project Management and Maintenance

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

The noxious weed/reed canary grass abatement will need to continue for up to 5 years, in order to allow the favorable woody species to become established. Once vegetation is established there will be little maintenance needed.

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

Amy Stiner, and the South Fork John Day Watershed Council with consultation from Kendra Smith, will be performing the project management and maintenance. Funding has been secured

through the Oregon Watershed Enhancement Board (OWEB), as well as our partners; The Confederated Tribes of the Warm Springs, and Partners for Fish and Wildlife, to hire contracted reveg crews to perform the planting, and installation of Beaver Dam Analogues.

Will the project require ongoing maintenance?

Yes

We will need to treat noxious weeds, and reed canary grass for up to 4 years post planting. We will also mulch plants as needed for up to 4 years post planting. Fence maintenance will also need to occur until plants become established.

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

Yes

Having already established baseline monitoring collected in 2001, 2004, and 2006, the re-assessment of the macroinvertebrate community populations in conjunction with the R3 approach, provide an effectiveness scale for establishment of riparian vegetation. Macroinvertebrate community assessment has gained wide acceptance as a reliable tool for measuring the condition of surface waters in Oregon, and should be a useful tool in monitoring anticipated improvements in the health of aquatic communities in the upper South Fork subbasin. Bioassessment methods, like benthic macroinvertebrate community assessment, provide a reliable measure of the overall ability of a water body to support aquatic life because they integrate the effects of multiple stressors, including excess nutrients, increased temperature, excessive sediment loading, and others. For this study, we will be expanding upon baseline data collected in 2001, 2004, and 2006, which will include a comprehensive assessment of instream physical habitat, riparian conditions, water quality, and macroinvertebrate community.

Project Funding

Funding

Have you applied for OWEB funding for this project?

Yes

OWEB application number: 217-6021

Awaiting a decision from the panel.

The application was ranked #4 in our region and is recommended for funding, pending Board decision October 25th, 2016.

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

[{"source": "Confederated Tribes of the Warm Springs Reservation of Oregon", "type": "In-Kind", "secured": "Secured", "dollarValue": 33800, "comments": "Assisting in seed/cutting collections, growing stock, planting, and protective fencing"}, {"source": "Partners for Fish and Wildlife", "type": "Cash", "secured": "Pending", "dollarValue": 20000, "comments": "plan to use funds toward protective structures, nursery contracts, and securing native stock"}, {"source": "Oregon watershed Enhancement Board", "type": "Cash", "secured": "Pending", "dollarValue": 152028, "comments": "Funding will be put toward all aspects of the project"}, {"source": "Kendra Smith, private riparian specialist consultant", "type": "In-Kind", "secured": "Secured", "dollarValue": 22540, "comments": "Kendra has

been working with us in prepping and planning for this project, and has made multiple trips over the past 2 years."}]

Other Funding Source	Type	Secured	Dollar Value	Comments
Confederated Tribes of the Warm Springs Reservation of Oregon	In-Kind	Secured	33800	Assisting in seed/cutting collections, growing stock, planting, and protective fencing
Partners for Fish and Wildlife	Cash	Pending	20000	plan to use funds toward protective structures, nursery contracts, and securing native stock
Oregon watershed Enhancement Board	Cash	Pending	152028	Funding will be put toward all aspects of the project
Kendra Smith, private riparian specialist consultant	In-Kind	Secured	22540	Kendra has been working with us in prepping and planning for this project, and has made multiple trips over the past 2 years.
		Total	228368	

Budget

Item	Unit Number	Unit Cost	In-kind or non-cash contributions	Funding from other sources	R&E Funds	Total Costs
PROJECT MANAGEMENT						
Kendra Smith, consultant	438	55.00	12000	9890	2200	24090
		SUBTOTAL	12000	9890	2200	24090
IN-HOUSE PERSONNEL						
South Fork John Day Watershed Council Staff	360	31.00	0	9920	1240	11160
		SUBTOTAL	0	9920	1240	11160
CONTRACTED SERVICES						
Cultural Surveys for 15 acres	15	8000.00	0	8000	0	8000
Labor for protective fence, ft	7000	2.00	10000	4000	0	14000
4 complexes of 3 Beaver Dam Analogue installation, hours	48	40.00	0	1920	0	1920
Site prep, weed control & mulching, acres	15	700.00	0	10500	0	10500
Skidsteer with operator, hours/job	80	65.00	5200	0	0	5200
Crew of 5 including leader from the Confederate Tribes of the Warm Springs	80	1.00	3000	0	0	3000
CTWS Planting manager, hours	80	45.00	3600	0	0	3600
contracted planting crew, paid by the plant	23000	1.25	0	28750	0	28750
Bioassessment Monitoring, occurring twice, price per assessment	5000	2.00	0	0	10000	10000
Contracted crew for gathering willow cuttings, crew of 10, paid by the hour	150	24.00	0	0	3600	3600
exclusion fence maintenance, 60 hours/year, for 4 yrs	4	40.00	0	9600	0	9600
plant mulching as needed 4 yrs post planting, paid per plant	33500	0.18	0	6300	0	6300
noxious weed control 4 yrs post planting, paid per hour	180	55.00	0	5400	0	5400
		SUBTOTAL	21800	74470	13600	109870
TRAVEL						
Travel for the consultant, Kendra Smith is 500 miles roundtrip	5500	0.54	540	1890	540	2970
Travel for Council Staff, 80 mile roundtrip	2122	0.54	0	1102	44	1146
Travel for contract crew, 500 mile roundtrip, 2 vans, 4 trips	3500	0.54	0	1620	270	1890
Travel for contract spray crew, 100 miles	800	0.54	0	432	0	432
		SUBTOTAL	540	5044	854	6438
SUPPLIES/MATERIALS						
Mulch, as needed over 4 years, per cubic yd	350	20.00	0	7000	0	7000
CTWS shrubs (potted stock), paid per plant	10000	2.00	20000	0	0	20000
CTWS Cottonwood/Alder (potted stock), paid per plant	500	4.00	2000	0	0	2000
Contract grown native plants (bare root), per plant	23000	0.65	0	14950	0	14950
T-posts	150	7.39	0	1110	0	1110
Fencing, feet	7000	3.00	0	21000	0	21000
Re-Bar 20 ft sections	20	12.00	0	240	0	240
Beaver Dam Analogues, 4 sets of 3 complexes, 12 total structures, needing 300 posts	300	10.00	0	3000	0	3000
		SUBTOTAL	22000	47300	0	69300
EDUCATION/OUTREACH						
Outreach prints/copies	150	0.50	0	75	0	75
		SUBTOTAL	0	75	0	75
EQUIPMENT						
			0	0	0	0
		SUBTOTAL	0	0	0	0

FISCAL ADMINISTRATION

Cascade Pacific RC&D 10%	0	0.00	0	15958	1789	17747
		SUBTOTAL	0	15958	1789	17747
		BUDGET TOTAL	56340	162657	19683	238680

Internal Review Results

Review Score: 0.3 out of 3

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

Summary of Review Team Comments

The review team was not supportive of this proposal. RE funds requested are primarily for project monitoring and not implementation. Using RE funds for project monitoring is not appropriate. Scores include six 0s and three 1s.

Specific Review Team Comments

Very little tie to anglers. Relatively small scale compared to the watershed, thus hard to measure changes.

While the project seems worthy and beneficial this request is not appropriate for RE funding. It is entirely for consultants and monitoring of project results, there is no tangible benefit to anglers from this money.

This is a good project and could be effective if implement on wide scale basis, but not appropriate for R&E.

\$6,000 of \$19,000 request is for staff and admin.

Rainbow/steelhead are not Commercial fish, so this should be 100% recreational.

Do the beaver dam analogues provide for juvenile fish passage? Design not included. Other funding table doesn't match to the Budget table (e.g. Kendra Smith contribution doesn't equal budget line in table).

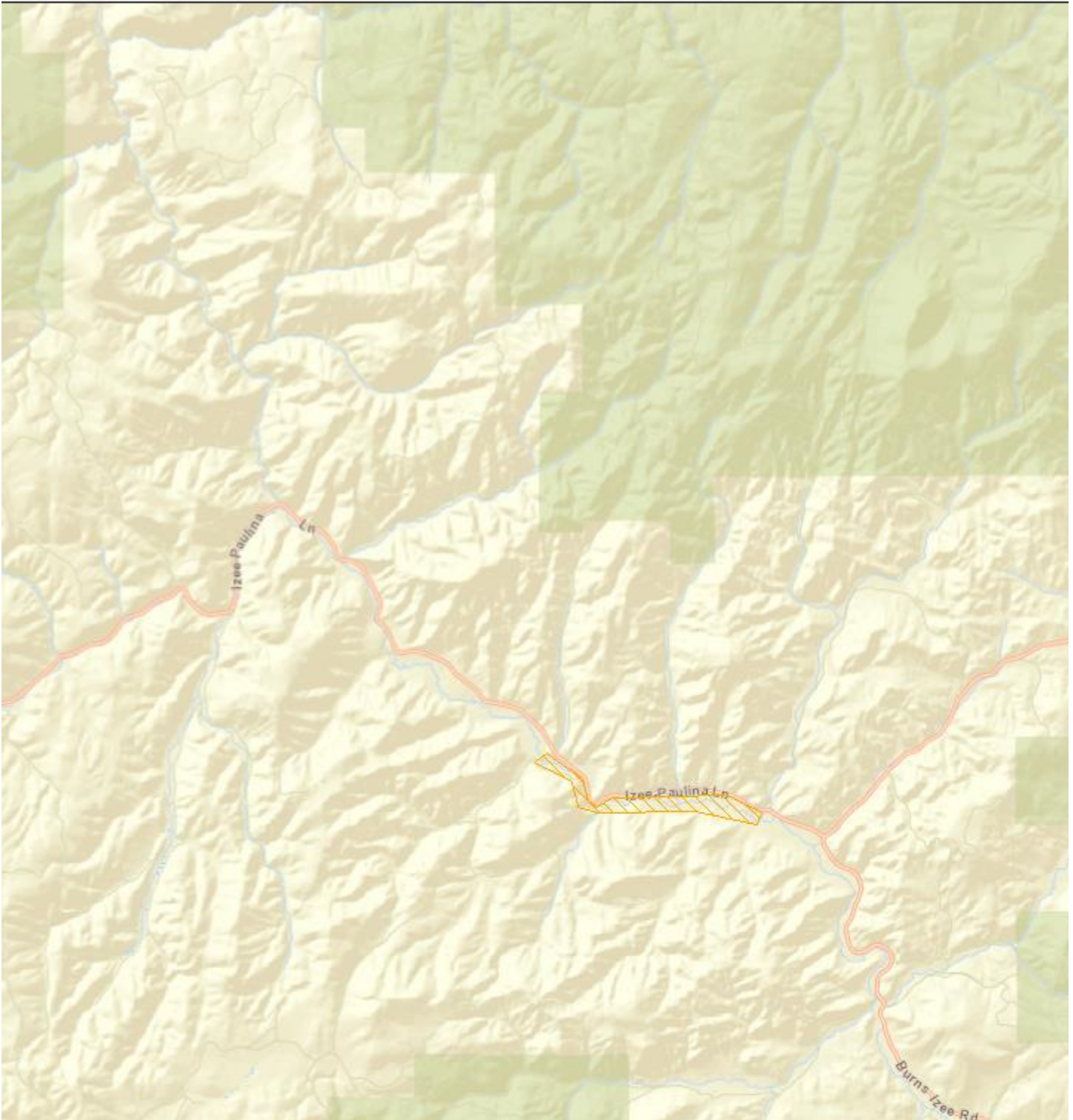
Where is ODFW District support?

Fish passage review and approval is required for the structures.

Specific Review Team Questions

What about cattle exclusion in combination with riparian plantings? Is this just providing ungulate food?

Project Map



Additional Files

Budget Information

Maps

[maps](#)

overview and project maps

[Project Map](#)

Map image of project location

Photos

[pictures](#)

pictures of the project area as it exists now

Design Information

Management Plans and Supporting Documents

[501\(c\)3 tax exempt status](#)

Cascade Pacific RC&D's IRS tax exempt determination letter

[racial and ethnic impact statement](#)

racial and ethnic impact statement

Permits and Reviews

Partnerships

[Landowner Consent](#)

Consent from Richard Nelson, owner of the Izee Ranch, and Phil St. Clair, owner of the St. Clair Ranch

Public Comment

Administrative Documents

[Signature Authorization](#)

Authorized Signature from Fiscal Agents, Cascade Pacific RC&D

Completion Report

A completion report has not been submitted for this project.