



R & E Grant Application 11-13 Biennium

Project #:
11-106

Big Butte Creek Gravel Augmentation Pilot Project

Project Information

R&E Project Request: \$29,400.00
Match Funding: \$2,925.00
Total Project: \$32,325.00
Start Date: 7/15/2012
End Date: 6/30/2013
Project Email: jay.v.doino@state.or.us
Project Biennium: 11-13 Biennium
Organization: Upper Rogue watershed Association (Tax ID #: 11-3823736)

Fiscal Officer

Name: Peter Mazzini
Address: PO Box 1128
Shady Cove, OR 97539
Telephone: 541-210-0670
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Technical Contact

Name: Jay Doino
Address: 1495 East Gregory Road
Central Point, OR 97502
Telephone: 541-826-8774 x233
Email: jay.v.doino@state.or.us

Applicant Information

Name: Jay Doino
Address: PO Box 2809
White City, OR 97503
Telephone: 541-554-1961
Email: jay.doino@tu.org

Past Recommended or Completed Projects

This applicant has no previous projects that match criteria.

Project Summary

This project is NOT part of ODFW's 25 Year Angling Plan.

Activity Type: Habitat
Summary: In 2010 R&E funded a pilot project on Big Butte Creek primarily aimed at

improving spawning habitat for spring chinook salmon. Several log jams were constructed at 2 different sites on Big Butte Creek to collect spawning gravels mobilized during high winter flows. To date however, little to no spawning gravels have accrued around the log structures. Project partners now propose to add large boulders and spawning gravels to one of the sites treated in 2010. Approximately 50 boulders and 400-500 yards of chinook spawning sized gravels would be placed just upstream of the log structures.

Objectives:

The primary project objective is to enhance habitat for spring chinook in Big Butte Creek -specifically to increase the amount of spawning habitat via the addition of large boulders and spawning gravels. Ancillary project objectives are to improve habitat for adult and juvenile coho and steelhead and to increase the stream's connectivity to its floodplain.

Fishery Benefits:

Recreational and commercial fisheries would benefit from this project by increasing the production of spring chinook, coho salmon and steelhead trout by increasing the amount of spawning habitat for these species. All these species are heavily targeted by recreational and commercial fishers - especially spring chinook. From the mouth of the Rogue at Gold Beach to Cole Rivers Hatchery, people travel from around the country to fish for the Rogue's anadromous fish. The local economies of Jackson, Josephine and Curry Counties are dependent on healthy fish runs - guides, hotels, tackle shops, restaurants and more. This project will help bolster fish production in Big Butte Creek and increase its contribution to the Rogue's fisheries.

Watershed Benefits:

The benefit to the watershed is improved stream function and increased fish production. This project aims to provide spawning gravels for spring chinook salmon in Big Butte Creek. Spawning gravel is limited in Big Butte Creek and therefore limits fish production. The Big Butte portion of the Rogue springer run is largely unaffected by the operation of Lost Creek Reservoir. However, the majority of the Rogue spring chinook population spawns in the mainstem Rogue River. Incubating eggs in the Rogue are subject to negative impacts from water temperature alterations caused by operation of Lost Creek Reservoir. Therefore, it is important to maximize production in Big Butte.

Current Situation:

Big Butte's channel is primarily dominated by bedrock and large cobble, unsuitable

for use as spawning gravel. ODFW biologists have anecdotally identified lack of spawning gravels as a limiting factor to fish production. In 2010 R&E funded a pilot project on Big Butte Creek primarily aimed at improving spawning habitat for spring chinook salmon. Several log jams were constructed at 2 different sites on Big Butte Creek to collect spawning gravels mobilized during high winter flows. To date, little to no spawning gravels have accrued around the log structures. The structures have been successful at slowing water velocities which typically results in gravel deposition. It is possible that bedload movement in Big Butte Creek is minimal and that gravels lost over time are not being replaced. We now propose to add chinook sized spawning gravels to the creek in and around boulders clusters in the areas of stream influenced by the 2010 log jams.

Alternatives:	Project partners considered waiting for another year to see if gravel would naturally accrue behind the log jams. However, Big Butte Creek experienced several high flow events since log jam construction - especially in the winter of 2010/11. It is thought that these high flows were sufficient to transport bedload, yet there was no gravel deposition in the project area.
Designer:	Jay Doino, ODFW Stream Habitat Restoration Biologist, will design the project
Methods:	<p>ODFW's Spring Chinook Salmon Conservation Plan(2007)identifies several management strategies for Rogue Spring Chinook. Management Strategy 9.2</p> <p>(p.72): "Enhance production of naturally produced spring Chinook salmon in Big Butte Creek. The intent of this strategy is to increase the amount of habitat available for for the production of naturally produced spring Chinook salmon."</p> <p>Action 2.3 (p.72): "Identify the potential to improve spring Chinook spawning habitat in Big Butte."</p> <p>Action 2.4 (p.72): "If warranted, based on actions from Action 2.3, improve spawning habitat in Big Butte Creek."</p>
Inspector:	Jay Doino, ODFW Stream Habitat Restoration Biologist, will inspect the completed work
Funding Elements:	R&E funds will be used primarily for purchase of materials (boulders and gravel) and for construction of the project. This includes equipment and operator time necessary for loading, hauling, and placement of gravel and boulders and rehabilitating areas disturbed by project implementation. R&E funds will also be used to assist the Upper Rogue Watershed Association with administration of the grant.

Partners: Yes

ODFW will provide project design and management for the project.

Existing Plan: Yes

Rogue Spring Chinook Conservation Plan, 2007.

Affected Contacted: Yes

Affected Supportive: Yes

Affected Comments: The affected landowner is enthusiastic about the project. A letter from the landowner is included with this application and indicates a willingness to allow the project to be implemented on his property.

Project Schedule/Participants/Funding

Activity	Date	Participants
Planning and Project Design	2/15/2012	ODFW/URWA/landowner
Submit permit applications	3/1/2012	ODFW
Project Implementation	8/15/2012	ODFW/URWA
Project Monitoring	9/15/2012	ODFW

Affected Species:

Chinook Salmon

Coho Salmon

Steelhead

Project Permits

Name	Issued By	Secured?	Date Secured	Date Expected
Fill/Removal Permit	ACOE	No	1/1/0001	5/1/2012

Project Monitoring

Organization	Address	Activity	Frequency
ODFW	1495 East Gregory Road Central Point, OR 97502	gravel counts/photo monitoring	once per year for 2 years

Project Maintenance

Organization	Address	Activity	Frequency
URWA	PO Box 1128 Shady Cove, OR 97539	No maintenance expected	No maintenance expected

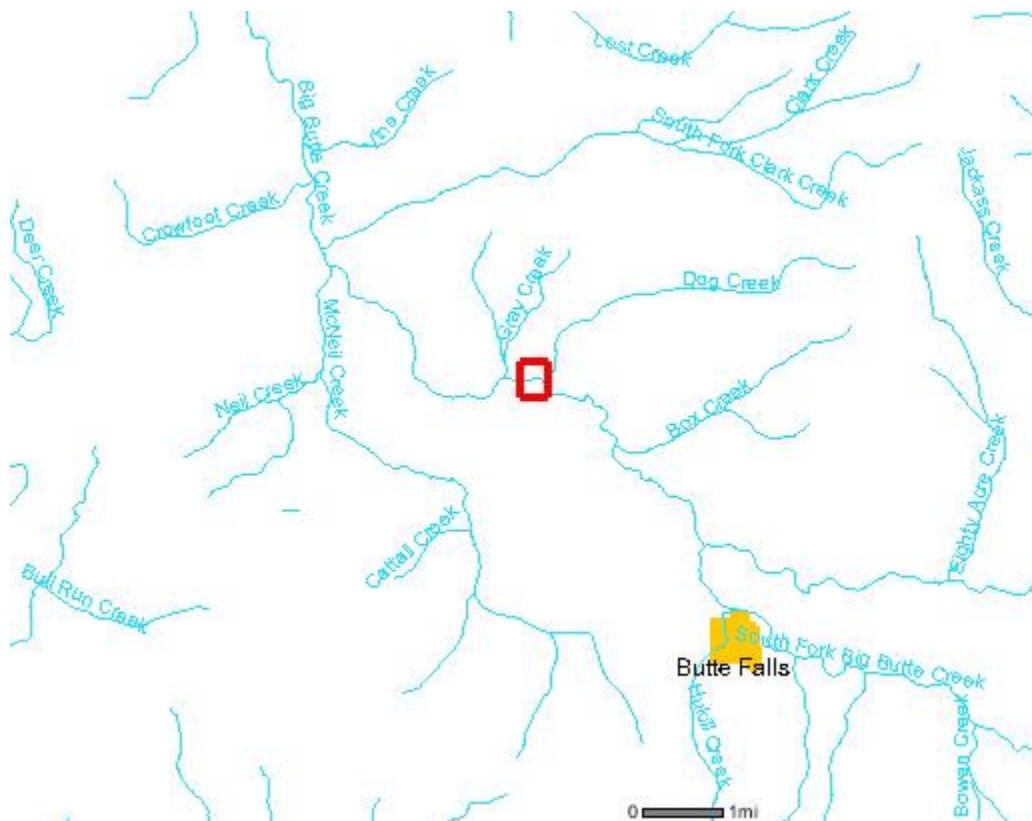
Project Match Funding

Funding Source	Cash	In-Kind	Other	Description	Total	Secured?	Conditions?	Comments
R&E Request	\$29,400.00	\$0.00	\$0.00		\$29,400.00	No	No	
ODFW	\$0.00	\$2,400.00	\$0.00	Project Design/Management	\$2,400.00	Yes	No	
URWA	\$0.00	\$525.00	\$0.00	photo monitoring	\$525.00	Yes	No	
				Total Match Funding:	\$32,325.00			

Project Budget

Item	Item Type	Units	Unit Cost	R&E Funds	Match Funds	Total
Grant Administration	Administration	40	\$35.00	\$1,400.00	\$0.00	\$1,400.00
Excavator	Equipment	6	\$1,500.00	\$9,000.00	\$0.00	\$9,000.00
Gravel Truck	Equipment	70	\$100.00	\$7,000.00	\$0.00	\$7,000.00
Loader	Equipment	6	\$1,000.00	\$6,000.00	\$0.00	\$6,000.00
Mobilization in/out	Equipment	1	\$1,000.00	\$1,000.00	\$0.00	\$1,000.00
monitoring	Personnel	15	\$35.00	\$0.00	\$525.00	\$525.00
Project Manager	Personnel	80	\$30.00	\$0.00	\$2,400.00	\$2,400.00
Boulders	Supplies/Materials /Services	50	\$25.00	\$1,250.00	\$0.00	\$1,250.00
Gravel	Supplies/Materials /Services	300	\$12.50	\$3,750.00	\$0.00	\$3,750.00
					Total Budget:	\$32,325.00

Project Map



Additional Files

Click a link to view that particular file.

[IRS letter](#)

[Landowner letter](#)

[ODFW support letter](#)

[Plan View Diagram](#)

[Project Area Photo](#)

[Signature Authorization Form](#)