

Secure Rural Schools and Community Self-Determination Act of 2000  
Public Law 106-393

Title II Project Application for 2007 Funds (Round #7)  
Roseburg District Resource Advisory Committee

<b>1. Project Name:</b> Buck Creek Fish Passage	<b>2. County:</b> Douglas
<b>3. Sponsoring Organization:</b> Elk Creek WSC	<b>4. Date:</b> 31 July 2007
<b>5. Sponsor's Phone Number:</b> (541) 836-7206	
<b>6. Sponsor's E-mail:</b> Russell.leland@gmail.com	

<b>7. Project Location</b> (attach project area map)	
a. Description of Location: <b>Umpqua Basin</b> (See attached map for more details)	
b. Sub Basin Name (4 <sup>th</sup> Field Watershed; e.g. North Umpqua): <b>Main Umpqua</b>	
c. Watershed Name (5 <sup>th</sup> Field Watershed; e.g. Little River): <b>Elk Creek Basin</b>	
d. Legal Location: Township <b>21</b> Range <b>4W</b> Section(s) <b>32</b>	
e. BLM District: <b>Roseburg</b>	e. BLM Resource Area <b>Swiftwater</b>
f. State / Private / Other lands involved? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

<p><b>8. Project Goals and Objectives:</b> (Describe the goals and objectives of the project. If applicable list species that will benefit from the project)</p> <p>The Buck Creek Fish Passage Project will improve fish passage in Buck Creek. It will restore sinuosity to the channel, lower stream gradients, and reduce water velocities. Channel straightening, and realignment of the creek during the construction of the current location of the County road on Buck Creek, have forced the creek into a channel which takes it over an area of bedrock. At one point, the creek flows over a large flat section of bedrock that is tilted at an angle, both to one side and down. The water flows sideways where it is forced against two large blocks of concrete (possibly the remnants of an old bridge abutment before the County road was moved). Thus, all the water is forced into a narrow "V" between the rock and the concrete, and then down over the rock at a steep angle. The velocity of the water through this "chute" is a total barrier to juvenile migration upstream, and adults can only pass during a very limited time when flow conditions are optimal. Increased water velocity and bed erosion from the channel straightening have exacerbated the problem.</p> <p>Restoring some of the historical sinuosity to the creek will decrease the gradient in this section of the creek and reduce water velocities. It will also return the creek to a location where it will not be forced to pass into this "chute."</p> <p>Fish passage has been identified as significant limiting factor of fish populations in the Elk Creek Watershed and throughout the Umpqua. Improving passage through this</p>
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section of Buck Creek will allow more fish to utilize the high quality habitat upstream.

Just above the project area is a large wetland area dominated by willows. [See photo] This area of complex side channels is *ideal* over-winter habitat for juvenile Coho. Lack of this type of habitat has been identified as *the single most limiting factor* affecting Coho populations in the Elk Creek Watershed, and addressing this issue has become the highest priority for ODFW. The Elk Creek Watershed Council has begun work on projects to develop two (2) additional off channel over-winter sites above this site.

Fish passage throughout this section of Buck Creek has been improved with the replacement of two (2) undersized culverts under the County Road (Completed - 2006), and the replacement of several culverts on BLM lands farther upstream. The Elk Creek Watershed Council is implementing a project to replace three (3) failing, undersized culverts with a railroad car bridge (2007), and is seeking additional funding to replace a fourth. (BLM RAC -2007).

**9. Project Description:** (Describe how the project will be conducted and how its goals and objectives will be met.)

An excavator will be used to create a new channel that will restore the historical sinuosity of the creek. Extensive survey and engineering will be done to select a channel location that will conform to the gradients found in the rest of this reach. The new channel will maintain the creek's channel width and depth, and logs (LWD) and boulders will be added to create complex habitat, and to establish a pool/riffle regime throughout the new channel.

The banks of the channel, and the riparian area, will be planted with a variety of native trees and shrubs to reduce erosion, and to provide shade to the creek. The existing vegetation is mostly pasture grasses, so site preparation will be minimal.

The existing low-water ford will be abandoned, and a railroad car bridge will be installed over the new channel to allow the landowner access to timberlands on the other side of the creek.

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**10. How will cooperative relationships among people that use federal lands be improved?**

In addition to the relationships built among local private landowners for the implementation of this project and others ongoing in the area, the project is consistent with other agency activities in the Buck Creek watershed:

- Douglas County replaced a culvert under the County Road (Buck Creek Road) in the summer of 2006 with a large "fish-friendly" culvert.
- BLM manages land in the headwaters of Buck Creek, and have replaced culverts on their lands. They are planning a timber sale in the area, and will be repairing a slide on one of their roads on the south fork of Buck Creek.
- All this work will contribute to the restoration of a significant portion of the Buck Creek watershed.

**11. How is this project in the best public interest and how will it benefit communities?**

This project will restore habitat and improve water quality in the Buck Creek watershed. The project benefits the public in several ways:

- The project improves utilization of fish habitat in an important Coho Salmon stream. Improved fish runs are a benefit to all segments of the public.
- The riparian improvements will improve water quality by reducing streambank erosion, and by increasing shade.
- The project benefits the local economy by maintaining infrastructure important to both the people of Douglas County and to the interests of landowners.
- The project will create jobs for local contractors who are expected to bid on construction.

This project will build better working relationships among the Elk Creek Watershed Council, ODFW, local landowners, and the Roseburg District BLM. These relationships are important to the overall success of the voluntary watershed restoration approach of the Oregon Plan for Salmon and Watersheds.

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<b>12. Who will accomplish the project?</b>	
<input checked="" type="checkbox"/> Contractor	<input type="checkbox"/> Federal Workforce
<input type="checkbox"/> County Workforce	<input type="checkbox"/> Volunteers
<input checked="" type="checkbox"/> Other (specify):	
<p>The Elk Creek Watershed Council will:</p> <ul style="list-style-type: none"> <li>• Secure funding.</li> <li>• Apply for all required permits.</li> <li>• Develop and enter into contracts for the performance of project work.</li> <li>• Coordinate and manage the project.</li> <li>• Administer all grant funds.</li> <li>• Prepare all documents and reports as required by funding agencies.</li> </ul> <p>ODFW will :</p> <ul style="list-style-type: none"> <li>• Supervise construction.</li> <li>• Conduct all pre- and post-project monitoring.</li> </ul> <p>Participating landowners will:</p> <ul style="list-style-type: none"> <li>• Permit access to their lands.</li> </ul>	

<b>13. Is this project coordinated with other related project(s) on adjacent lands?</b>
a. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No    (If yes, then describe)
<p>This project is an important enhancement to other restoration work which has been done in the Buck Creek Watershed. When current projects are completed, this restoration work will include:</p> <ul style="list-style-type: none"> <li>▪ Replacement of two (2) undersized culverts under the county road with a large "fish friendly" culvert. (Douglas County - 2006)</li> <li>▪ Replacement of two (2) failing, undersized culverts with railroad car bridges. (Elk Creek Watershed Council - 2007/2008)</li> <li>▪ Restoration of eight hundred feet of channel that has eroded down to bedrock due to channel modification. (Elk Creek Watershed Council - 2007)</li> <li>▪ Placement of large wood log jams at twelve (12) sites along a 1¼ mile section of Buck Creek to increase complexity. (Elk Creek Watershed Council - 2007)</li> <li>▪ Connection of the main creek channel to a large farm pond during high flow events to create off-channel over winter habitat for juvenile Coho. (Elk Creek</li> </ul>

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Watershed Council - 2008/2009)

- Enhancement of a wetland pond, and construction of a channel to connect it to the creek during high flows, to create additional off-channel over winter habitat for juvenile Coho. (Elk Creek Watershed Council - 2008/2009)

Plans are being made to recruit landowners along the rest of the low-gradient reaches of Buck Creek, and to complete restoration of the entire area.

b. Are you seeking funds from other Resource Advisory Committees?  Yes  No (If yes, then describe)

**14. If the project is on private land how does it benefit federal lands or resources?**

Fish habitat and water quality improvements on private lands are important to the federal lands in the headwaters of the watershed. The improvements from this project will especially benefit Coho and Steelhead using the higher gradient stream reaches on the BLM lands above the project area.

**15. Measure of Project Accomplishments**

a. Total Acres: <b>NA</b>	b. Total Miles: <b>Approx. 250'</b>
c. Number of Structures: <b>NA</b>	d. Estimated Number of People Reached (for environmental education and workforce training projects): <b>NA</b>
e. Number of Laborer Days: <b>NA</b>	
f. Other (specify):	
g. Describe how long will the benefits of the project last: <b>Indefinitely</b>	

**16. Will the project generate merchantable materials?**

Yes  No If yes, describe:

**17. How does the proposed project meet purposes of the legislation?** (Check at least one)

- Improves maintenance of existing infrastructure.
- Implements stewardship objectives that enhance forest ecosystems.
- Restores and improves land health.
- Restores water quality.

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<b>18. Project Type</b> (Check at least one)	
<input type="checkbox"/> Road Maintenance	<input type="checkbox"/> Trail Maintenance
<input type="checkbox"/> Road Decommission/Obliteration	<input type="checkbox"/> Trail Obliteration
<input type="checkbox"/> Other Infrastructure Maintenance (specify):	
<input type="checkbox"/> Soil Productivity Improvement	<input checked="" type="checkbox"/> Forest Health Improvement
<input checked="" type="checkbox"/> Watershed Restoration & Maintenance	<input type="checkbox"/> Wildlife Habitat Restoration
<input checked="" type="checkbox"/> Fish Habitat Restoration	<input type="checkbox"/> Control of Noxious Weeds
<input checked="" type="checkbox"/> Reestablish Native Species	
<input type="checkbox"/> Other Project Type (specify):	

<p><b>19. Project Initiation and Estimated Completion Dates:</b> (Describe the timing of the major phases of the project)</p> <ul style="list-style-type: none"> <li>▪ Fall 2007: Secure BLM and SHIP funding.</li> <li>▪ Winter 2008: Secure OWEB funding.</li> <li>▪ Spring 2008: Survey and designs.</li> <li>▪ Spring 2008: Permits; Contract development and bidding.</li> <li>▪ Summer 2008: Construction.</li> <li>▪ Winter 2008: Monitoring.</li> </ul>
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<b>20. Status of Project Planning</b>			
<b>a.</b> NEPA process complete:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Applicable
<b>b.</b> Consultation complete:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not Applicable
<b>c.</b> DSL/ODFW* permits for in-stream work obtained:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Applicable
<b>d.</b> DSL/COE* 404 fill/removal permit obtained:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Applicable
<b>e.</b> SHPO* concurrence received:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not Applicable
<b>f.</b> Project design(s) completed:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Applicable
<b>g.</b> If you answered yes to any of the questions above, please describe who will accomplish the work and when it will be complete:			
* DSL = Dept. of State Lands, ODFW = Oregon Department of Fish and Wildlife, COE = Army Corps of Engineers, SHPO = State Historic Preservation Officer			

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<b>21. Anticipated Project Costs</b>
a. Total Title II funds requested: <b>\$ 26,659</b>

**Table 1. Project Cost Analysis** (Includes all expenditures for the life of the project)

<b>Item</b>	<b>Fed. Agency Appropriated Contribution</b>	<b>Requested County Title II Contribution</b>	<b>Other Contributions</b>	<b>Total Available Funds</b>
Planning and Permits		\$ 338	\$ 1,950	\$ 2,288
Design & Engineering		\$ 2,325	\$ 9,940	\$ 12,265
Project/Contract Management		\$ 975	\$ 4,860	\$ 5,835
Project/Contract Implementation <sup>1</sup>		\$ 16,625	\$ 66,500	\$ 83,125
Materials & Supplies <sup>2</sup>		\$ 4,050	\$ 16,200	\$ 20,250
Post-Project Monitoring		\$ 225	\$ 1,860	\$ 2,085
Mileage:		\$ 121	\$ 728	\$ 849
Grant Administration		\$ 2,000	\$ 9,000	\$ 11,000
<b>Total Cost Estimate</b>		<b>\$ 26,659</b>	<b>\$ 111,038</b>	<b>\$ 137,697</b>

<sup>1</sup>This could be either the cost of the labor for project implementation or the cost of a contract.

<sup>2</sup>If the project is implemented by contract, materials and supplies are likely included in the cost of the contract.

**22. Provide a budget narrative, including a description of other source(s) of funding for the project identified above and/or a clarification of any other aspects of the budget:**

"Other Contributions" in the budget include:

- OWEB: (Cash) \$ 102,635
  - Douglas County SHIP: (Cash) \$ 5,000
  - ODFW: (In-kind) \$ 3,403
- \$ 111,038**

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**23. Monitoring Plan**

- a. What measures or evaluations will be made to determine how well the proposed project meets the desired ecological conditions? Who will be responsible for this monitoring item?

Pre-project Monitoring:

- a. ODFW: Fish use
- b. ECWC: Photo documentation

Post-project Monitoring:

- c. ODFW: Fish use
- d. ECWC: Photo documentation

- b. How will the project be evaluated to determine how well it contributes to local employment and/or training opportunities, including summer youth jobs programs such as the Youth Conservation Corps? Who will be responsible for this monitoring item?

Local contractors are likely to bid on, and have the contract awarded to them. No further evaluation is planned.

- c. What methods will be established to determine how well the proposed project improves the use of, or added value to, any products removed from federal lands consistent with the purposes of this Act? Who will be responsible for this monitoring item?

Not applicable.

**24. What are the analyses, plans, legislation, or other supporting documents that support and guide this application?** (E.g. the Northwest Forest Plan, a watershed analysis, a late successional reserve assessment, or the Oregon Plan for Salmon.)

Elk Creek Watershed Analysis (BLM-2004)  
Elk Creek Watershed Council Fisheries Summit (November 2006)  
Oregon Plan for Salmon and Watersheds (OWEB)  
Oregon Aquatic Habitat Restoration and Enhancement Guide (OWEB)  
Umpqua Agricultural Water Quality Management Area Plan (ODA)  
Umpqua Basin TMDL (DEQ)  
Oregon Coast Coho Conservation Plan (State of Oregon - 2007)

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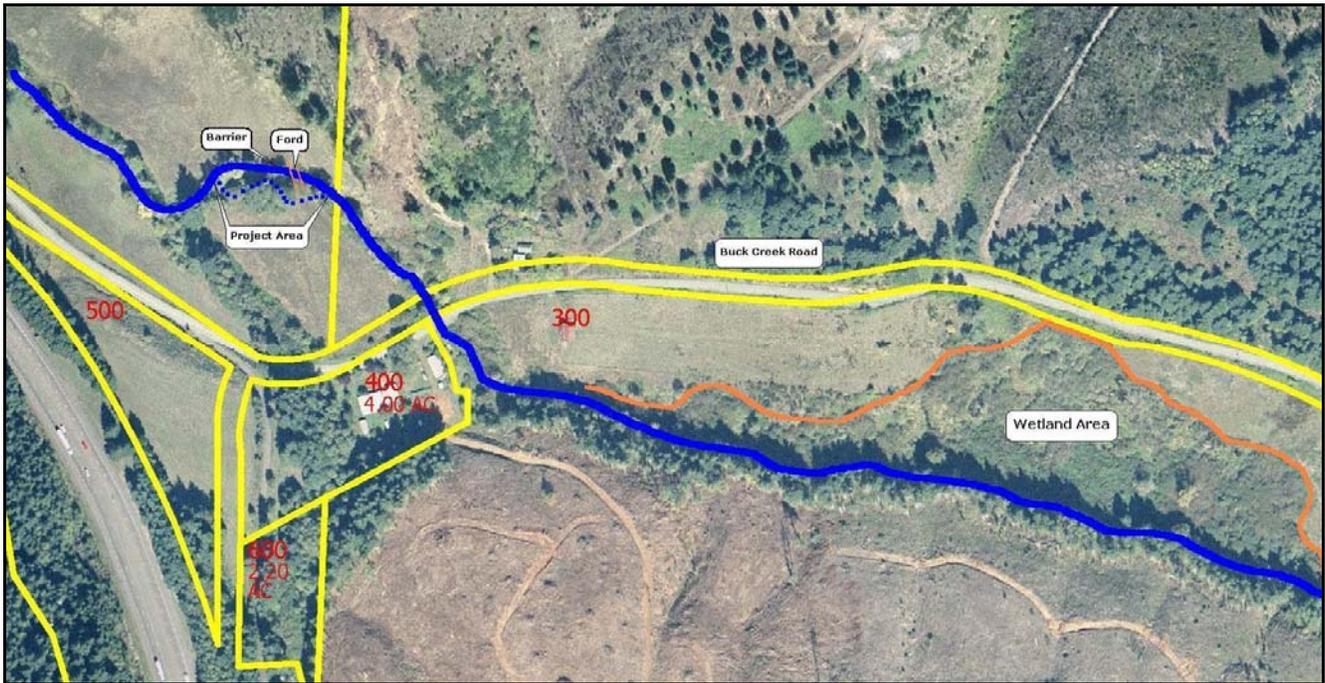
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**25. Who are the key people responsible for this project?** (List their names and titles)

Lee Russell - Elk Creek Watershed Council Coordinator  
James Mast - Elk Creek Watershed Council Chairman  
Jim Brick - ODFW Fisheries Biologist  
Don Porior - Engineer - Porior Engineering

**26. Attach a map and photograph(s) of the project.** (At a minimum, the map should show the project location, roads, and streams, and private versus BLM ownership. The photograph should show the project site or a representative portion of it. More than one photograph can be submitted, but they must all fit on one page. A digital photograph incorporated into this application is preferred; hard copies will be copied in black and white.)

**Buck Creek Fish Passage Project: Site Photo**



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**Buck Creek Fish Passage Barrier:**



**Concrete Barrier:**

