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

Title II Project Application
COOS BAY DISTRICT
Resource Advisory Committee

1. Project Number (Assigned by federal unit):___CB02-MRA6_____

2. Project Name: Aquatic Organism Passage Evaluation	**3. County:** Coos
4. Project Sponsor: Coos Bay BLM - John Guetterman	**5. Date:** 15 Aug 2001
6. Sponsor=s Phone Number: 541-751-4411	
7. Sponsors E-mail: john_guetterman@or.blm.gov	

8. Project Location (attach project area map**)**
a. 4th Field Watershed Name and HUC #(if known): Coos River (17100304), Coquille River (17100305)
b. 5th Field Watershed Name and HUC #(if known):
d. BLM District: Coos Bay e. BLM Resource Area: Umpqua and Myrtlewood
h. State / Private / Other lands involved? **X**Yes ☐ No Who? Various

9. Statement of Project Goals and Objectives:
Goals

The goal of this project is to generate specific data to determine whether or not upstream movements are critical for low mobility aquatic organisms (such as amphibians) and then to evaluate the effectiveness of various culvert designs in accommodating these movements. This effort will help determine how well culvert replacements for watershed restoration implement the objectives of the Aquatic Conservation Strategy.

Objectives

a. To investigate the significance of upstream movements for the species of concern listed under item #16 "Target Species" of this proposal.
b. To determine which seasons (when?) they typically travel upstream.
c. To identify which species need to move upstream in order to maintain persistence above culverts and to prevent genetic isolation.
d. To determine how culvert design affects the ability of these species to travel upstream.
e. To determine whether or not these species can physically travel upstream through various culvert designs.
f. To identify which culvert designs accommodate movements of these species.

10. Project Description: (Provide concise description of project and attach map.)
Failing to accommodate salmonid passage in culverts installed during the last 50 years came back to haunt us when salmonids were listed under the Endangered Species Act. Concern for accommodating

passage of other aquatic species, amphibians in particular, is equally valid and is now beginning to draw attention. One of the species (southern torrent salamander) was recently considered for listing under the Endangered Species Act, but listing was found to be unwarranted at this time. Unfortunately, there is little information available on the effects of culverts and other stream crossing structures on amphibian dispersal capabilities. A query of experts and key individuals around the country indicated that concern is building but little has been done to address these concerns. The proposed project will begin to address this data gap and provide us with specific data to address these concerns and guide future culvert designs. The results are expected to be broadly applicable to any culvert installation project in southwest Oregon.

Meeting the goals and objectives for most of the species will require marking individuals and then periodically checking upstream to detect movements. Baiting or other techniques could be used to entice individuals upstream. Controlled, experimental culverts may be used to test the influence of culvert gradient, water velocity, substrates within the culvert, and weirs/baffles. Technical assistance from Oregon State University, the USFS Pacific Northwest Research Station, or experienced contractors will be necessary to develop methods to meet the goals and objectives. Lamprey and juvenile salmonids will require different methods that rely more heavily on controlled, experimental culverts and/or spawning season redd surveys. Information will be collected for a sample of existing passage culverts and suitable conventional culverts. The results will be statistically analyzed to meet the project objectives. The results will give us specific data that we can directly apply in designing any subsequent culvert installation projects.

11. Coordination of this project with other related project(s) on adjacent lands?
✗Yes ☐No **If yes, then describe**
The project would incorporate approximately 20 passage culverts involving Jobs-In-the-Woods funding on lands managed by Coos Bay District Bureau of Land Management and other landowners. It can potentially accommodate any culvert across all ownerships. The results can be used to guide culvert design in the Coos County and surrounding area.

12. How does proposed project meet purposes of the Legislation? [Sec. 203(b)(1)]
✗ Improves maintenance of existing infrastructure. [Sec. 2(b)]
✗Implements stewardship objectives that enhance forest ecosystems. [Sec. 2(b)]

13. Project Type (check one) [Sec. 203(b)(1)]

✗Other Project Type (specify) [Sec. 2(b)(2)]: Includes aspects of road maintenance (design of culvert replacements); and watershed, fish, and wildlife habitat restoration (restoration of aquatic and riparian habitat connectivity)

14. Measure of Project Accomplishments/Expected Outcomes [Sec. 203(b)(5)]

a. Total Acres:
b. Total Miles:
c. No. Structures:
d. Est. People Reached (for environmental education projects):
e. No. Laborer Days:
f. Other (specify): assessment of 4 general culvert designs (open bottom, culverts retaining substrates, culverts with weirs/baffles, conventional). Approximately twenty culverts will be sampled.

15. Duration of Project and Estimated Completion Date: [Sec. 203(b)(2)]
Approximatly 3 years of data collection plus additional time for layout, analysis, and reporting. Estimated completion date 31 Dec 2005.

16. Target Species Benefited: (if applicable)

Lamprey
Juvenile salmonids
Sculpins
Pacific giant salamander
Southern torrent salamander – BLM Tracking Spp.
Crayfish
Tailed frog - BLM Tracking Spp.
Dunn's salamander

17. How will cooperative relationships among people that use federal lands be improved? [Sec. 2(b)(3)]
Many potential monitoring culverts are on private lands. Data collection at these culverts would require cooperation from adjacent landowners. Results would be broadly applicable to other land owners.

18. How is this project in the best public interest? [Sec. 203(b)(7)] **Identify benefits to communities.**
The project results will be directly beneficial to the Coquille Watershed Association and any adjacent landowners desiring to install or replace culverts to accommodate movements of low mobility aquatic species. Since different culvert designs will be compared, the project will allow future culverts to use the most cost-effective designs for accommodating movements of all aquatic species. It also addresses what may be an up-and-coming issue putting land managers in a much better position to respond to concerns about passage of a vaiety of aquatic species.

19. How does project benefit federal lands/resources?
The project will produce specific data that can be used to design future culverts to improve aquatic and riparian habitat connectivity.

20. Status of Project Planning

a. NEPA Complete:	✗Yes	☐No	
If no, give est. date of completion:			
c. NMFS Sec. 7 ESA Consultation Complete:	✗Yes	☐No	
d. USFWS Sec. 7 ESA Consultation Complete:	✗Yes	☐No	
e. Survey & Manage Complete:	✗Yes	☐No	☐Not Applicable
f. DSL/ODFW* Permits for In-stream Work Obtained:	☐Yes	☐No	✗Not Applicable
g. DSL/COE* 404 Fill/Removal Permit Obtained:	☐Yes	☐No	✗Not Applicable
h. SHPO* Concurrence Received:	☐Yes	☐No	✗Not Applicable
i. Project Design(s) Completed:	✗Yes	✗No	(design complete for all spp except lamprey)

***** DSL = Dept. of State Lands, ODFW = Oregon Dept.of Fish and Wildlife, COE = Army Corps of Engineers, SHPO = State Historic Preservation Officer

21. Proposed Method(s) of Accomplishment

✗Contract ☐Federal Workforce
☐County Workforce ☐Volunteers

✗Other (specify): Cooperative project with U.S. Forest Service Pacific Northwest Research Station and Oregon State University. In FY2001, the BLM, USFS, and OSU initiated an aquatic organism passage project. RAC funding could supplement this existing project and/or be carried out through contracts with fish and wildlife consultants.

22. Will the Project Generate Merchantable Materials? [Sec. 204(e)(3)]
☐Yes ✗No

23. Anticipated Project Costs [Sec. 203(b)(3)]
a. Total County Title II Funds Requested: $113,000
b. Is this a multi-year funding request? ☐Yes ✗No but the project could easily be expanded in future years to collect additional data, bolster conclusions, and address additional species.
If yes, then display by fiscal year
c. FY02 Request:
d. FY03 Request:
e. FY04 Request:
f. FY05 Request:
g. FY06 Request:

Table 1. Project Cost Analysis

Item	*Column A* **Fed. Agency Appropriated Contribution [Sec. 203(b)(4)]**	*Column B* **Requested County Title II Contribution [Sec. 203(b)(4)]**	*Column C* **Other Contributions [Sec. 203(b)(4)]**	*Column D* **Total Available Funds**
24. Project Development		$27,000	$29,505	$56,505
25. Contracting		$71,000	$18,663	$89,663
26. Analysis and Reporting		$15,000	$11,713	$26,713
27. Total Cost Estimate				$172,881

28. Identify Source(s) of Other Funding for Project Identified Above [Sec. 203(b)(4)]
Column A includes Coos Bay BLM workmonth contributions expended in FY01 and anticipated for the duration of the project. Column C includes FY01 funds already dedicated to the project by the U.S. Forest Service, Pacific Northwest Research Station and Oregon State University plus $10,000 (approximate figure) being held by the Coquille Watershed Association for monitoring of lamprey passage.

29. Monitoring Plan [Sec. 203(b)(6)]

a. What measures or evaluations will be made to determine how well the proposed project meets the desired ecological conditions? [Sec. 203(b)(6)] **Who will be responsible for this monitoring item?**

Results will be evaluated based on whether or not the project objectives were met with statistical rigor (BLM responsible).

b. How will the project be evaluated to determine how well the proposed project contributes towards local employment and/or training opportunities, including summer youth jobs programs such as the Youth Conservation Corps? [Sec. 203(b)(6)] **Who will be responsible for this monitoring item?**

Employment will be evaluated based on contract dollars awarded to local contractors (BLM responsible for). Training for local entities (BLM, Watershed Associations, local landowners) will be available through the publication of results which include a description of methods used to evaluate aquatic organism movements and the effects of culverts. Training will be evaluated based on the number of publications produced (BLM reponsible for).

c. What methods and measures of evaluation 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? [Sec. 203(b)(6) and Sec. 204(e)(3)] **Who will be responsible for this monitoring item?** N/A

d. Identify total funding needed to carry out specified monitoring tasks.
This entire project is a monitoring and reporting project.

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County Commissioner Concurrence

(Majority Required per charter)

A majority of the county commissioners of _____County have reviewed this proposed Public Law 106-393 project for the BLM Coos Bay District Advisory Council and agree with the proposal as submitted, except for the comments noted below:

_____ _____

Attested by Commissioner Date

Comments/Rational: