

Project Pre-Application

(Please use the Up, Down, Left & Right Arrows to move from Field to Field)

Project Title: Hofer Dam Diversion Sediment Remediation Project

Submitting Organization: Walla Walla County Conservation District

Project Contact Information

(Complete for each contact)

For additional Contact Info Sheets go to:

<http://www.snakeriverboard.org/leadentity/applicationdocs.html>

Mrs. Ms. Mr. First Name: Larry

Last Name: Hooker

Address: 325 North 13th Avenue

City/Town: Walla Walla State: WA Zip: 99362

Telephone # (509) 522-6340

Cell # (509) 386-7065

E-mail address: Lhooker@my180.net

Project Locations: Provide a brief description of the project location including watershed, stream reach and position in watershed. The project site is located on the Touchet River at the Hofer Dam Irrigation Diversion for the Touchet Eastside and Westside Irrigation Districts, 4.1 miles upstream from the confluence of the Touchet River with the Walla Walla River.

Maps: Provide both a map illustrating project vicinity and a site map. Map descriptions can be placed in this section but maps should be attached as a separate page. (Contact SRSRB staff to construct maps and set up project in the HWS prior to pre-application deadline). Attached.

Short Description of Project

Describe project, what will be done, and what the anticipated benefits
Will be in 1500 characters or less.

NOTE: Many audiences, including the SRFB, SRFB's Technical Review Panel, media, legislators, and the public who may inquire about your project use this description. Provide as clear, succinct, and descriptive an overview of your project as possible – many will read these 1-2 paragraphs!

- The description should state what is proposed.
- Identify the specific problems that will be addressed by this project, and why it is important to do at this time.
- Describe how, and to what extent, the project will protect, restore, or address salmon habitat.
- Describe the general location, geographic scope, and targeted species/stock.
- This short description should be the summary of the detailed proposal set out under the Evaluation Proposal, with particular emphasis on questions 1-4.

The PRISM database limits project descriptions to 1500 characters (including spaces); any excess text will be deleted. Additional detail should be provided in the project proposal!

The Hofer Dam Complex was completed in 2009 and provide a number of important benefits. The construction of a new fishway remediated a channel wide fish passage barrier and opened up over 180 miles of the Touchet River to unrestricted salmonid access. In conjunction with the new fishway, other phases of this "complex" of projects were: installation of a gravity pipeline conveyance system to serve the two irrigation districts, construction of a pumping station to serve new pressurized delivery pipelines, the conversion of both the Eastside canal delivery system and Westside canal delivery system into new pressurized pipeline delivery systems, and the design and installation of a fully automated self cleaning belt fish screen system. This \$4 million project not only corrected the fish passage problem, it replaced many miles of open, weed-infested delivery canals with over 73,500-ft. of pipeline and save over 3,134 acre-feet of water. After two operating seasons, it has become evident there is a siltation problem in front of the fish screens that could impact proper screen function. The project being proposed would be to design and implement action(s) to correct this problem.

Preliminary Design Description: Describe the preliminary project design that will be used to address the need described above. This section may be used to provide a more detailed description than provided above. Not required for pre-application (Max one page)					
Estimated Budget: List SRFB request match and total project costs					
Budget Items	Cost/Unit	Unit	Matching Funds	SRFB Request	Project Cost
Structure	\$52,000.00	1	\$7,800.00	\$44,200.00	\$52,000.00
Total Matching			\$7,800.00		
Total SRFB Request				\$44,200.00	
Total Project Cost					\$52,000.00
Evidence that this project is part of the Snake River Salmon Recovery Plan: List the HWS project number and title of project as stated in the 3 Year Plan. If project is not directly stated in the 3 Year Plan list the general project category your project pertains to and describe the correlation.					
32-00388 Protection (siltation problem could result in improper function of rotating belt screens)					

This is the end of the PRE-APPLICATION

When submitting your draft application, make changes to the pre-application information where pertinent as well as completing the following draft application.

SRFB Draft Application Information	
<input checked="" type="checkbox"/> Draft	Date Submitted to SRSRB
Project Type: (check one)	
<input type="checkbox"/> Acquisition	<input type="checkbox"/> Acquisition/Restoration
<input checked="" type="checkbox"/> Passage, Diversion, Barrier Inventory/Design	<input type="checkbox"/> Upland
<input type="checkbox"/> Non-Capital	<input type="checkbox"/> In-Stream
<input type="checkbox"/> Riparian	
Applicant / Organization Information	
Organization Name: Walla Walla County Conservation District	
Organization Type (check one)	
<input type="checkbox"/> City/Town	<input type="checkbox"/> County
<input type="checkbox"/> Native American Tribe	<input type="checkbox"/> Non-profit Organization
<input type="checkbox"/> Special Purpose District	<input type="checkbox"/> State Agency
<input checked="" type="checkbox"/> Conservation District	
<input type="checkbox"/> RFEG	
Updated Vicinity / Site Maps & Photos	
Please submit photos as JPEG or other non PDF picture format. Maps and designs maybe submitted in photo or PDF format.	
Vicinity Map Attached:	<input checked="" type="checkbox"/>
Site Map Attached:	<input checked="" type="checkbox"/>
Aerial or Site Specific Photos Attached:	<input checked="" type="checkbox"/>
Preliminary Designs or Field Sketches:	<input checked="" type="checkbox"/>

Update Short Description in Pre-Application Above

Describe project, what will be done, and what the anticipated benefits
Will be in 1500 characters or less.

The Hofer Dam Complex was completed in 2009 and provide a number of important benefits. The construction of a new fishway remediated a channel wide fish passage barrier and opened up over 180 miles of the Touchet River to unrestricted salmonid access. In conjunction with the new fishway, other phases of this "complex" of projects were: installation of a gravity pipeline conveyance system to serve the two irrigation districts, construction of a pumping station to serve new pressurized delivery pipelines, the conversion of both the Eastside canal delivery system and Westside canal delivery system into new pressurized pipeline delivery systems, and the design and installation of a fully automated self cleaning belt fish screen system. This \$4 million project not only corrected the fish passage problem, it replaced many miles of open, weed-infested delivery canals with over 73,500-ft. of pipeline and save over 3,134 acre-feet of water. After two operating seasons, it has become evident there is a siltation problem in front of the fish screens that could impact proper screen function. The project being proposed would be to design and implement action(s) to correct this problem.

Summary of Funding Request and Match Contribution Remember to update this section whenever changes are made to your cost estimates.	
TOTAL PROJECT COST (A + B) (Sponsor Match & SRFB Contribution) \$52,000.00	
A. Sponsor Match Contribution (15% minimum is required for match)	
Appropriation/Cash	\$7,800.00
Bonds – Council	
Bonds – Voter	
Cash Donations	
Conservation Futures	
Donations	
Donated Equipment	
Donated Labor	
Donated Land	
Donated Materials	
Donated Property Interest	
Force Account	
Force Acct – Equipment	
Force Acct – Labor	
Force Acct – Material	
Grants	
Grant – Federal	
Grant – Local	
Grant – Private	
Grant – State	
Grant – IAC	
Grant – Other	
Total Sponsor Match Contribution (15% Minimum Match Required of a total Project Cost)	\$7,800.00
B. SRFB Contribution (grant request) \$5,000 Minimum Request	\$44,200.00
Note: *Be sure to identify the name and type of any matching grant in the Application Questionnaire Section. *The Total Project Cost must equal the totals from the following Cost Estimate Sections.	

Project Proposal Guides	
<p>To complete this section complete the Project Proposal template that fits your proposed project and attach as a separate document. Check appropriate box below. NOTE: This project proposal will be used primarily to evaluate your project. Please include appropriate metrics within the body of the text. The below documents can be found at http://www.snakeriverboard.org/leadentity/applicationdocs.html</p>	
	Attached
1) Restoration and Acquisition Project (Excluding Fish Passage)	<input checked="" type="checkbox"/>
2) Fish Passage and Fish Passage Combination Projects	<input type="checkbox"/>
3) Barrier Inventory Projects	<input type="checkbox"/>
4) Non-Capital Projects (Excluding Barrier Inventory Projects)	<input type="checkbox"/>

This is the END of the DRAFT APPLICATION.
&
The START of the FINAL APPLICATION

SRFB Final Application Information	
<input type="checkbox"/> Final	Date Submitted to SRSRB
Landowner Information	
Landowner Acknowledgment Forms (Remember to complete the Landowner Acknowledgement form for each Landowner.)	
To complete this section download the landowner acknowledgment form and have the landowner complete the form and submit a copy with the final application. Final applications without signed agreement forms may not be considered by the SRSRB for final scoring and ranking. These forms can be found on the SRSRB web site at: http://www.snakeriverboard.org/leadentity/applicationdocs.html	
Current Landowner(s) of the site (name and address). Remember to complete the Landowner Acknowledgement Form. Name: Address: City/Town: State: Zip:	
Driving Directions (provide directions that will enable staff to locate the project): On Touchet North Road, approximately 3.5 miles north of Touchet, WA on the Touchet River.	
Barrier Removal and Barrier Assessment / Design Projects	
Barrier Information Form: http://www.snakeriverboard.org/leadentity/applicationdocs.html	
Project Proposal Cost Estimate Template To complete this section complete the budget template that pertains to your project type Found on the SRSRB website at: http://www.snakeriverboard.org/leadentity/applicationdocs.html and <i>check the appropriate attachments box below.</i> OR you may submit a detailed budget in your own format.	
	Attached
1) Personal Format Budget	<input type="checkbox"/>
2) Assessments	<input type="checkbox"/>
3) Property Acquisition	<input type="checkbox"/>
4) In-stream Restoration	<input checked="" type="checkbox"/>
5) Diversion and Screen	<input type="checkbox"/>
6) Barrier Inventory or Fish Passage Design	<input type="checkbox"/>
7) Riparian	<input type="checkbox"/>

Supporting Technical Documentation

List studies, reports, or other technical documentation that details current biological and habitat conditions and supports your biological and/or habitat objectives and the approach or methods to be applied.

Document Title	Author(s)	Date
WDFW Touchet River Endemic Stock Summer Steelhead - Touchet River Release Hatchery & Genetic	Joe Bumgarner, Steve Rogers, Glen Mendel	7/20/05

Management Plan		
Bull Trout Distribution, Movements & Habitat Use in the Walla Walla and Umatilla River Basin	D. R. Anglin, D. G. Gallion, M. Barrows, C. Newton, P. Sankovich, T. J. Kisaka, & H. Schaller	2008
Walla Walla River Basin Fish Habitat Project	Jed Volkman, Amy Sexton	2001
Walla Walla River Watershed Study Recon. Report	Donald Curtis, Jr.	1997
For Barrier Projects Only: Has a Priority Index (PI) evaluation been completed? <input type="checkbox"/> No <input type="checkbox"/> Yes (If so, please attach documentation)		

Application Questionnaire All applicants must answer the following questions
Cost Efficiencies
For any grants listed in the Summary of Funding Request and Match Contribution Section, are there any restrictions on the use of these grant funds? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes When and how long will the grant funds be available to this project? UNK.
Describe the type of donated labor (skilled and unskilled), donated equipment, and donated materials that will be used for this project, identified in the Summary of Funding Request and Match Contribution Section. None.

Land Ownership
What type of landowner currently owns the property? <input type="checkbox"/> Federal <input checked="" type="checkbox"/> Local <input type="checkbox"/> Private <input type="checkbox"/> State <input type="checkbox"/> Tribal
What is the current land use of the site, and its history? Describe past human uses and salmon habitat functions. Are there any structures on site? This is the Hofer Dam irrigation diversion for the Touchet Eastside and Touchet Westside Irrigation Districts that has been in operation for nearly 100-years. This fish ladder and belt screens were installed in 2005 and 2006 to alleviate passage problems and bring the fish screen up to NOAA standards.
Non-profit organizations must answer the following questions
Is your organization registered as a non-profit with the Washington Secretary of State? If so, what is your Unified Business Identifier (UBI) number? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes, UBI #: 91-1095786
What date was your organization created? 4/22/41
How long has your organization been involved in salmon and habitat conservation? 15 years

Species/Habitat Factors Information Sources		
For <u>Species Information</u> provide the source and indicate if the species listed are directly on-site at some point in their life stage (i.e. SaSI, WDFW Stream Catalog, Stream Survey/Field Observation, Limiting Factors Distribution Maps).		
For <u>Habitat Factors Information</u> list the study/report and date identifying the habitat factors for your project (i.e. SaSI, limiting factors analysis, watershed analysis, other assessments, or studies).		
Study Name	Author	Date
An Investigation into the Migratory Behavior of Bull Trout in the Touchet River Basin	Glen Mendel, Chris Fulton, Ray Weldert	2003
Walla Walla River Watershed Study Recon. Report	Donald Curtis, Jr.	1997
Walla Walla River Tributaries Temperature TMDL	Michael LeMoine, Anita Stohr	2002
Assessment of Salmonids and Their Habitat Conditions in the	Glen Mendel, Jeremy Trump, Mike Gembala	2004

Walla Walla River Basin within WA		
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Permits	
Check the appropriate boxes to indicate required and/or anticipated permits. General permit information can be obtained at the Dept. of Ecology Permit Assistance Center 1-800-917-0043 or on their Internet site http://www.ecy.wa.gov/programs/sea/pac/index.html .	
Permits	Comments Regarding Permit Status
<input type="checkbox"/> Aquatic Lands Use Authorization <i>(Dept of Natural Resources)</i>	
<input type="checkbox"/> Building Permit <i>(City/County)</i>	
<input type="checkbox"/> Clear & Grade Permit <i>(City/County)</i>	
<input checked="" type="checkbox"/> Cultural Assessment [Section 106] <i>(CTED-OAHP)</i>	
<input checked="" type="checkbox"/> Dredge/Fill Permit [Section 10/404 or 404] <i>(US Army Corps of Engineers)</i>	
<input checked="" type="checkbox"/> Endangered Species Act Compliance [ESA] <i>(US Fish & Wildlife/NMFS)</i>	
<input type="checkbox"/> Forest Practices Application [Forest & Fish] <i>(Dept of Natural Resources)</i>	
<input type="checkbox"/> Health Permit <i>(Dept of Health/County)</i>	
<input checked="" type="checkbox"/> Hydraulics Project Approval [HPA] <i>(Dept of Fish & Wildlife)</i>	
<input type="checkbox"/> NEPA <i>(Federal Agencies)</i>	
<input type="checkbox"/> SEPA <i>(Local or State Agencies)</i>	
<input type="checkbox"/> Shoreline Permit <i>(City/County)</i>	
<input type="checkbox"/> Water Quality Certification [Section 401] <i>(County/Dept of Ecology)</i>	
<input type="checkbox"/> Water Rights/Well Drilling Permit <i>(Dept of Ecology)</i>	
<input type="checkbox"/> Other Required Permits (identify)	

<input type="checkbox"/> None – No permits Required	
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SRFB Project History Information

Has any part of this project been previously reviewed or funded by the SRFB?

YES Y NO

If yes, please provide the project name and number (or year of application if a project number is not available). If the project was withdrawn or not awarded SRFB funding, please describe how the current proposal differs from the original.

2004 - Grant No. 04-1606N

2005 - Grant No. 05-1539R

Hofer Dam Sediment Remediation Project Proposal

Restoration, Acquisition, and Combination (Restoration and Acquisition) Projects

SRFB applicants must respond to the following items. Please respond to each question individually – do not summarize your answers collectively in essay format. Local citizen and technical advisory groups will use this information to evaluate your project. Contact your lead entity for additional information that may be required. Limit your response to eight pages.

Submit information via a PRISM attachment, which is available on the RCO Web site at www.rco.wa.gov/doc_pages/app_materials.shtml#salmon.

NOTE: Acquisition, combination, fish passage, diversions, and screening projects have supplemental questions embedded within this worksheet. Please answer the questions below and all pertinent supplemental questions.

1. Project Overview

- A.** Provide a brief summary of the project (note that further elaboration of this summary information is requested in Questions 2 and 3). Be sure to include:
 - i.** *This project is located at Hofer Dam on the Touchet River, 4.1 miles upstream from its confluence with the Walla Walla River, WRIA 32, in Walla Walla County, WA.*
 - ii.** *In 2005 and 2006, the Walla Walla County Conservation District completed construction of a new fish ladder and automated self-cleaning belt screens at the Touchet Eastside-Westside Irrigation*

District diversion. After four years of operation, it is evident that there is a siltation problem at the site with a build-up of silt in front of the belt screens. This impacts the ability of the system to delivered water efficiently to the irrigation districts and may create impingement velocities at the screens..

iii. The proposed project proposes to design and install a modification to the diversion facility that will reduce the sedimentation at the site and to maintain irrigation water intake velocities at levels not harmful to fish. This is consistant with restoration goals for salmonids within the Walla Walla Basin.

B. When possible, list your sources of information by citing specific studies, reports, and other documents.

C. The SRFB provided funding in 2004 for the Hofer Dam project design and in 2005 for construction of the fish ladder and fish screens. These phases were completed in 2005 and 2006 respectively. Specifically the grants were: No. 04-1606N and 05-1539R.

2. Salmon Recovery Context

A. Describe the fish resources present at the site and targeted by this project.

Species	Life History Present (egg, juvenile, adult)	Current Population Trend (decline, stable, rising)	ESA Coverage (Y/N)	Life History Target (egg, juvenile, adult)
Mid-Columbia Steelhead	Juvenile, Adult	Rising	Yes	Juvenile

B. Describe the nature, source, and extent of the problem that the project will address. Include a detailed description of site conditions and other current

and historic factors important to understanding the need for this project. Be specific – avoid general statements. (acquisition, fish passage, diversions, and screening projects should refer to the supplemental questions later in this worksheet for information to include in their problem statement.)

The project will address the siltation problem occurring in front of the diversion fish screens. While it was recognized that the Touchet River carried large volumes of silt during runoff events, the likelihood of a siltation problem in front of the diversion screens was not foreseen.

- C. Discuss how this project fits within your regional recovery plan or local lead entity strategy to restore or protect salmonid habitat in the watershed (i.e., does the project address a priority action, occur in a priority area, or target priority fish species?).

This project will reduce potential take at the diversion screens.

- D. Describe the consequences of not conducting this project at this time. Consider the current level and imminence of risk to habitat in your discussion.

Increased siltation will increase the likelihood of juvenile mortality.

3. When possible, list your sources of information by citing specific studies, reports, and other documents.

4. Project Design

- A. Provide a detailed description of the project size, scope, design, and how it will address the problem described in Section 2B. Describe specific restoration methods and design elements you plan to employ. (Acquisition-only projects need not respond to this question.)

The project will entail construction of a concrete chute located in front of the rotating belt screens that will be used to maintain higher water flow velocities to prevent sedimentation from occurring.

- B. If restoration will occur in phases, explain individual sequencing steps, and which of these steps is included in this application. (Acquisition-only projects need not respond to this question.)

Design & construction will be accomplished in one phase.

- C. Describe the long-term stewardship and maintenance obligations for the project or acquired land. For acquisition and combination projects, identify any planned use of the property, including upland areas.

The project will be maintained by the Touchet Eastside & Westside Irrigation Districts.

5. Project Development

- A. Explain how the project's cost estimates were determined.

The project cost estimate was developed by the East Area Cluster Professional Engineer.

- B. Describe other approaches, opportunities, and design alternatives that were considered to achieve the project's objectives.

None.

- C. Have members of the community, recreational user groups, adjacent landowners, or others been contacted about this project? Describe any concerns about the project raised from these contacts and how those concerns were or will be addressed.

The irrigation districts came to the WWCCD with this problem to seek technical assistance and funding for a solution.

- D. Include a Partner Contribution Form (Appendix J), when required, from each partner outlining the partner's role and contribution to the project. State agencies are required to have a local partner that is independently eligible to be a project sponsor. A Partner Contribution Form is recommended, but not required, from partners providing third-party match.

Place keeper for contributing partner

- E. List all landowner name. Include a signed Landowner Acknowledgement Form (Appendix K) from each landowner acknowledging that his or her property is proposed for SRFB funding consideration. If a restoration project covers a large area and encompasses numerous properties, Landowner Acknowledgement Forms are not required. For sponsors proposing work on their own property, this form is not required. For multi-site acquisition projects involving a relatively large group of landowners, include, at a minimum, signed Landowner Acknowledgement Forms for all known priority parcels.

Touchet Eastside & Westside Irrigation Districts.

- F. Describe your experience managing this type of project.

The WWCCD has extensive experience in managing this type of project e.g. Gose Street Fish Passage Project; Hofer Complex Project, GFID#13 South Lateral Piping Project, and more.

6. Tasks and Schedule

List and describe the major tasks and time schedule you will use to complete the project.

Landowner Agreement

Design by Cluster Engineer

Cultural Resource Review

Permit acquisition

Call for bids

Contractor site visit

Open bids

Select contractor

Sign contract

Project layout and staking

Begin project

Finish project

7. Constraints and Uncertainties

Each project should include an adaptive management approach that provides for contingency planning. State any constraints, uncertainties, possible problems, delays, or unanticipated expenses that may hinder completion of the project. Explain how you will address these issues as they arise and their likely impact on the project.

None at this time.

8. Detailed project cost estimate. Please include a detailed project cost estimate and attach in PRISM. Clearly label the attachment in PRISM "Cost Estimate." This will help the local review process and the SRFB Review Panel better understand the project cost details.

Diversions and Screening Cost Estimate – Restoration

IN-STREAM DIVERSION includes those items that affect or provide for the withdrawal and return of surface water to include the screening of fish from the actual water diversion (dam, headgate), the water conveyance system (both gravity and pressurized pump), and the by-pass of fish back to the stream.

**Complete only items that apply to your project.
TOTAL COST must include the SRFB and Sponsor’s Match Contribution.
Use only whole dollar amounts.**

Item	Unit	Qty.	Total Cost	Description Needed	Description (60 characters max.)
Diversion dam	Each			Size/material	
Fish by-pass	Each			Describe	
Fish screen (gravity)	Each			Size/material	
Fish screen (pump)	Each			Size/material	
Headgate	Each			Optional	
Log Control (weir)	Each			Optional	
Permits	Lump sum			Optional	
Pipes & ditches	Linear ft	45 ft	36,800	Material/length	Unknown at this time.
Rock control (weir)	Each			Optional	
Signage	Each			Describe	
Site maintenance	Lump sum			Describe	
Work site restoration	Acres			Optional	
Sales Tax		8%	3,200		
Sub-Total					
Architecture, Engineering, & Admin. (30% of Sub-Total)			12,000		
TOTAL COSTS			52,000		

Appendix K Landowner Acknowledgement Form

Landowner Information

Name of Landowner: **Touchet Eastside & Westside Irrigation Districts**

Landowner Contact Information:

Mr. Ms. Title:

First Name: **Stephen** Last Name: **Ames**

Contact Mailing Address: **681 Touchet North Road, Touchet, WA 99360**

Contact E-Mail Address:

Property Address or Location: **Hofer Dam Diversion, 4.1 miles upstream from the confluence of the Touchet River and Walla Walla River, State of Washington.**

I certify that **Touchet Eastside & Westside Irrigation Districts** (Landowner or Organization) are the legal owners of property described in this grant application to the Salmon Recovery Funding Board (SRFB). I am aware the project is being proposed on my property. My signature authorizes the applicant listed below to seek funding for project implementation, however, does not represent authorization of project implementation.


Landowner Signature

MAY 10, 2011
Date

Project Applicant Information

Project Name: **Hofer Dam Diversion Sediment Remediation Project**

Project Applicant Contact Information:

Mr. Ms. Title

First Name: **Larry**

Last Name: **Hooker**

Mailing Address: **325 North 13th Avenue, Walla Walla, WA 99362**

E-Mail Address: **Lhooker@my180.net**

Lead Entity Organization: **Walla Walla County Conservation District**

Snake River Region

Steelhead Habitat Restoration Priority Reaches

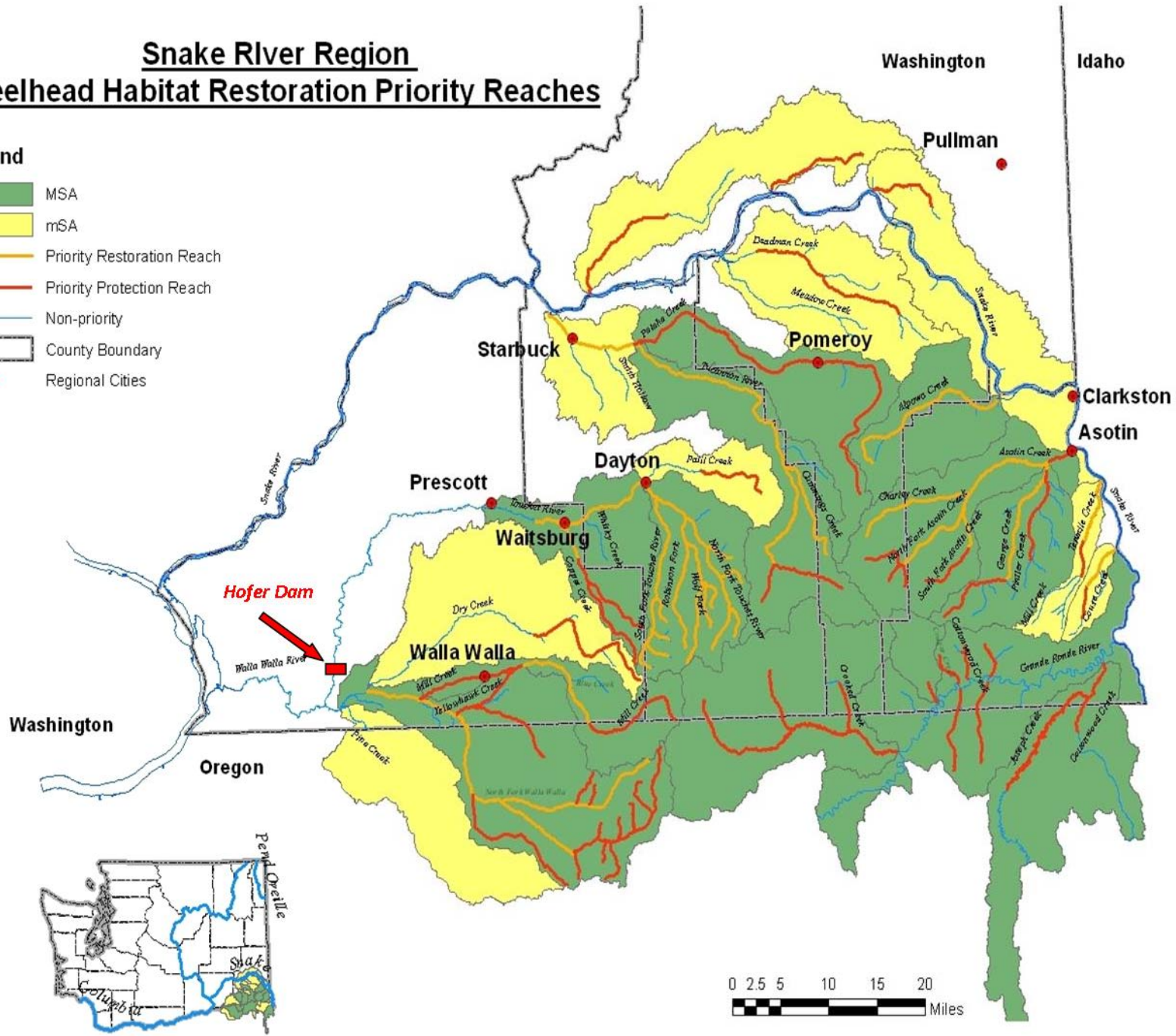
Washington

Idaho



Legend

- MSA
- mSA
- Priority Restoration Reach
- Priority Protection Reach
- Non-priority
- County Boundary
- Regional Cities





Sediment build-up in front of belt screen on the north (up-stream) end of the structure (May 10, 2011)



Sediment deposits on north end of the screening facility (May 10, 2011)