Thursday, March 7, 2024

Contact Information

2024 Upper Columbia Regional Project Pre-Application

* Pre-applications due March 11, 2024 (COB)

*Complete applications due in PRISM April 19, 2024 (COB)

*Revised proposals due in PRISM May 24, 2024 (COB)

*Final revised applications due in PRISM June 24, 2024 (noon)

Project Title	Nason-Kahler confluence habitat & coldwater refuge
Sponsor	Chelan County Natural Resource Department
Primary Contact	Bryan Maloney
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Budget Request

Values MAY be duplicative and do not have to equal TOTAL anticipated budget in pre-application.

Anticipated Request - SRFB (standard round)	96,971
Anticipated Other Funding	138,953
Anticipated TOTAL Budget	235,924

Other Funding Source(s)

U.S. Forest Service ($100,000), Ecology Centennial Grant ($38,953)

Project Location

Briefly describe the location of the project	The project will occur in Nason Creek from RM 5.8 to RM 6.25, including the Kahler Creek confluence.
Latitude (decimal degrees)	47.767517
Longitude (decimal degrees)	-120.757810

Project subbasin	Wenatchee
Wenatchee Assessment Unit(s)	Lower Nason Creek
Does the proposed project span multiple assessment units?	No
Reach(es) Name	Nason Creek Lower 05
Identify the reach(es) priority/ reach ranking. Note: If the project involves work in multiple reaches, select "Multiple" and include details in the text box that will appear below. Please reference the Prioritization Web Map: https://prioritization.ucsrb.org/.	Rank 2

Project Information

1. What are the project objectives? Objectives support and refine biological goals, breaking them down into small steps. Objectives are specific, quantifiable actions the project will complete to achieve the stated goal. Each objective should be SMART (Specific, Measurable, Achievable, Relevant, and Time-bound). Note: This exact question is included in the PRISM application. Example format: The project seeks to address [specify limiting factor(s)] for [limiting life stage(s)] by [specific actions proposed] to create an estimated [include specific target metrics, as described below] upon implementation in [estimated year].

The project seeks to address degraded habitat conditions in Nason Creek for salmonids by developing preliminary restoration designs to support implementation in 2026. This project will design restoration treatments to address reach limiting factors related to pools, temperature, cover, and floodplain connectivity. Apex and bank-buried log structures will be designed to maximize coldwater refuge, provide cover, force scour, and initiate floodplain processes. Spawning and rearing spring Chinook, steelhead, and bull trout will benefit.

2. What species will the project benefit?	Spring Chinook Steelhead Bull Trout
3. Select the project's objectives and the associated tracking metrics	Design, Monitoring or Assessment
Instream Habitat: Reporting Code	Total miles of instream habitat treated Miles of off-channel stream created or connected Acres of channel/off-channel connected or added Number of structures placed in channel Pools created through channel structure placement

4. Does this project already exist in Salmon Recovery Portal or PRISM?

No

5. Has this project been submitted previously for funding through the SRFB and/or other process(es)?

No

6. What category is the project?

Design

Is the project eligible for Riparian Funding?

Yes

Design and Restoration Proposals

7. What project phase(s) are proposed for completion?

Conceptual Design

Preliminary Design

9. Which limiting factors does the project propose to address?

Cover - Wood

Off-Channel - Floodplain

Off-Channel - Side-Channels

Pool Quantity & Quality

Pools - Deep Pools

Riparian - Canopy Cover

Temperature - Adult Holding

Temperature - Adult Spawning

Temperature - Rearing

10. Which life stages will the proposed project address?

Natal Rearing (Bull Trout)

Fry

Holding and Maturation

Spawning and Incubation

Summer Rearing

Winter Rearing

11. Freshwater Benefits - Describe how your project will improve survival, capacity and/or distribution for target species at the reach scale?

This project will improve instream habitat in Nason Creek for Chinook salmon, steelhead, and bulltrout. Rank 1 limiting factors for the project reach include pool quantity and temperature for both spawning and rearing life stages. This project will design restoration treatments to explicitly address the temperature impairment. Concepts developed under an Ecology Centennial grant include bank-attached log structures to increase connectivity between surface water and groundwater, ultimately reducing stream temperature. Concepts at the Nason Creek and Kahler Creek confluence will increase scour and cover to maximize the benefit of cold water from Kahler Creek. Additionally, apex and bank-buried log structures will be designed to provide cover, force pool development, and initiate floodplain processes.

12. Temporal Effect - Briefly describe how and to what extent the project would promote natural stream/watershed process consistent with the geomorphology of the stream?

This reach of Nason Creek is primarily impacted by US Highway 2 and the BPA transmission corridor. The project would promote natural stream processes by re-engaging a large floodplain on river left. Log treatments designed in this project would add structure back to Nason Creek in this reach, providing cover and forcing pool development.

13. Temporal Effect - How long will it take for the project to achieve its intended response? 1-10 years

14. Temporal Effect - How long will the restoration action and its benefits persist? 50+ years

15. Temporal Effect - What level and/or interval of maintenance is anticipated? What is the plan for any anticipated maintenance?

No maintenance is anticipated. However, the project would include monitoring after implementation. An adaptive management strategy would dictate maintenance actions, following monitoring observations.

16. Methods - Briefly describe the potential (for design) or proposed restoration methods and how they will achieve project objectives.

Project designs will include measures to increase instream habitat quality, including apex and bank-attached log structures. These log structures will increase cover, force pool development, increase floodplain connectivity, and reduce temperature impairments.

Assessment Proposals

Protection Proposals

Monitoring Proposals

Project Risk and Economic Benefits

1. What is the landownership? U.S. Forest Service and Chelan-Douglas Land Trust

2. Have you secured landowner participation in or acceptance for this project? Yes

Please explain

We have coordinated with the Chelan-Douglas Land Trust throughout early project development. The U.S. Forest Service is supportive and contributing funding to the project.

3. Describe any land owner requirements (e.g., design elements, right-of-ways, access agreements, liability waivers, etc.) and if/how they could affect the project

We will work with the landowners throughout the design process to ensure their requirements are incorporated.

4. Will the project raise potential concerns for interest groups (e.g., recreational users) or the community at large (including upstream/ downstream/ adjacent landowners)?

No

5. Who will have the responsibility to manage and maintain the project? What is the responsibility of current or future landowners?

Chelan County will manage the project. Landowner responsibility is to engage in the design process.

6. Are other projects being proposed immediately upstream or downstream of worksite? Don't know

7. Please describe the risk of failure associated with this project.

The risk of failure is low with this project, primarily due to the landowner support for this project. Additionally, Chelan County is adept at managing design and construction efforts on similar projects.

8. Is there any public outreach planned during and/or after implementation? Does the project build community support for salmon recovery efforts?

Chelan County is planning public outreach events for the local communities adjacent to the project, prior to project implementation. Additional outreach events would occur after implementation. This project and outreach will build community support for salmon recovery efforts.

9. Does the project represent an opportunity for economic benefit? How much benefit does the project create for the dollars invested?

The project represents the opportunity for design contracts and (eventual) construction contracts to support local or regional firms.

10. Describe any partnerships, their experience, and types of contributions supporting the project.

Partners include Washington Department of Ecology, Chelan-Douglas Land Trust, and U.S. Forest Service. Ecology has supported this project through a completed Centennial grant to support concept design development, as well as a pending Centennial grant to support preliminary design development. Chelan-Douglas Land Trust has contributed by being a supportive landowner. The U.S. Forest Service has contributed through being a supportive landowner, and providing grant funding to support design and implementation.

Optional Section - Preparation for PRISM

The following questions are identical to the questions RCO requires in the PRISM application. If desired, sponsors can complete associated questions early and copy responses into PRISM during the "Complete Application" phase due on April 19, 2024.

Do you want to review and/or pre-populate PRISM questions? No

Supporting Documents

Upper Columbia Process Guide 2024

SRFB Manual 18 (2024)

RCO Application Resources (2024)