Monday, March 10, 2025

Contact Information

2025 Upper Columbia Regional Project Pre-Application

* Pre-applications (SRFB & Monitoring) due March 12, 2025 (COB)

*Complete SRFB applications due in PRISM April 18, 2025 (COB)

*Complete Monitoring applications due in PRISM May 1, 2025 (COB)

*Revised SRFB proposals due in PRISM May 27, 2025 (COB)

*Final revised SRFB & Monitoring applications due in PRISM June 23, 2025 (noon)

Project Title	Icicle Creek (Doctor Reach) Restoration Prelim Designs
Sponsor	Chelan County Natural Resource Department
Primary Contact	Bryan Maloney
E-Mail Address	bryan.maloney@co.chelan.wa.us

Project Summary

Please provide a description or summary of the proposed project, including project goals. The goal of the project should be to solve identified problems by addressing the root causes. Then clearly state the desired future condition.

The project goal is to restore habitat and processes in the Doctor Reach of Icicle Creek (RM 15 - RM 15.5), through addressing legacy impacts of relic infrastructure. This project will develop preliminary designs and permit applications to support project development.

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].

Project objectives are to design restoration treatments that will restore natural channel and floodplain processes. To do so, designs will include naturalizing a relic road through the floodplain, increasing quantities of functional large wood, increasing inundation frequency of the left-bank floodplain, and improving quality of mainstem habitat with increased cover, pool frequency, and substrate heterogeneity.

Upon implementation (anticipated in 2028), these habitat actions will benefit spawning and rearing Chinook salmon and steelhead.

Budget Request

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

Anticipated Request - SRFB (standard round)	251099
Tributary Committee - Anticipated or Actual	~~37665~~
Anticipated TOTAL Budget	251099

Project Location

Briefly describe the location of the project	Icicle Creek mainstem from RM 15 - RM 15.5, including left bank floodplain
Latitude (decimal degrees)	47.606982°
Longitude (decimal degrees)	-120.861425°
Project subbasin	Wenatchee
Wenatchee Assessment Unit(s)	Middle Icicle Creek
Does the proposed project span multiple assessment units?	No
Reach(es) Name	Icicle Creek Middle 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/.	Unranked (not a priority or missing data)

Project Information

1. What species will the project benefit?	Spring Chinook, Steelhead
2. Select the project's objectives and the associated tracking metrics	Design, Monitoring or Assessment
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?

No

Design and Restoration Proposals

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

Preliminary Design

8. Is your project within a completed (or soon-to-be completed) Reach Assessment or other type of assessment (e.g., Rapid Site Assessment, other)?

Yes, Icicle Creek reach assessment that is currently being developed

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

Channel Stability
Coarse Substrate
Cover - Wood
Off-Channel - Floodplain
Off-Channel - Side-Channels
Pool Quantity & Quality

10. Which life stages will the proposed project address?

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 address relic infrastructure, in order to restore habitat for Chinook salmon and steelhead. By addressing a mainstem reach and large river-left floodplain, this project will improve both spawning and rearing habitat. Project outcomes include increasing inundation frequency of the left-bank floodplain side channel, increasing habitat complexity (e.g., cover, substrate heterogeneity, pool abundance and quality) in mainstem Icicle Creek, encouraging channel migration, and naturalizing a former road grade that drains the floodplain.

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?

The project would promote natural stream processes through addressing the impacts of relic infrastructure. Due to a relic road cutting through the floodplain, most of the project reach has remained static for decades, even after the Doctor Creek landslide reset the channel upstream. The projects' restoration outcomes include increasing floodplain complexity, mainstem habitat complexity, pool frequency and depth, sediment heterogeneity, large wood frequency, cover, and channel migration rates.

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?

We anticipate minimal maintenance requirements for this project. The project will be designed to accommodate large streamflow events (Q100).

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

Designs will include proposed restoration methods such as:
engineered log jam installation to increase inundation frequency of the left-bank floodplain channel;
installation of wood and grading to naturalize the relic road crossing the left-bank floodplain;
rip-rap removal from the relic road;
and engineered log jam installation to increase complexity, pool frequency, substrate heterogeneity, cover, and encourage channel migration in Icicle Creek.

Assessment Proposals

Protection Proposals

Monitoring Proposals

Project Risk and Economic Benefits

1. What is the landownership?

US Forest Service

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

Yes

Please explain

This project has been funded through the conceptual design phase by the Washington Department of Ecology Office of Columbia River, allocated by the Icicle Work Group. The Forest Service is a critical member of the Icicle Work Group. Project status has been presented to the work group at a few stages. Additionally, the Forest Service provided design feedback on early concept designs, which have been revised to reflect the feedback received.

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

Designs will need to meet standards set in ARBO II, or otherwise entail additional analyses and consultation.

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

The project will need to incorporate recreational use in the design process, in order to satisfy NEPA analyses.

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

As landowner, the US Forest Service would ultimately have long-term stewardship responsibilities. As the project will restore natural stream and floodplain processes, we anticipate minimal maintenance needs. Additionally, access to the project site will be limited after project implementation. An overgrown road

would likely be used for access during eventual project construction. As this access route would be rehabilitated following project implementation, we anticipate limited access to the project site after implementation.

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 associated with this project is low. Designs will incorporate hydraulic modeling for large streamflows (Q100), in order to maintain enduring stability of restoration treatments. Additionally, there is no infrastructure immediately downstream of the project area.

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

Public outreach regularly occurs as a part of the Chelan County Natural Resource Department and Icicle Work Group programs. A public community outreach event was held in Leavenworth on February 2025 on Icicle Creek projects. These public outreach events will continue during the design phase and including project implementation.

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

Yes, the project represents an opportunity for specialized river restoration design work to occur from qualified firms. Additionally, eventual implementation would require contracting a qualified contractor through a competitive bidding process.

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

This project has been supported and funded through the conceptual phase by the Washington Department of Ecology Office of Columbia River, allocated by the Icicle Work Group. The Icicle Work Group incorporates many different stakeholders with varied interests in Icicle Creek, ranging from irrigation water providers, regulatory agencies, wilderness groups, land management agency, tribes, etc.

Optional Section - Preparation for PRISM (SRFB applications only)

The following questions are identical to the questions RCO requires in the PRISM application for SRFB projects. If desired, sponsors can complete associated questions early and copy responses into PRISM during the "Complete Application" phase due on April 18, 2025.
*please note, this section is not applicable for Monitoring proposals

Do you want to review and/or pre-populate PRISM questions?

No

Supporting Documents

Upper Columbia Process Guide 2025

SRFB Manual 18 (2025)

RCO Application Resources (2025)

PROJECT: 25-1226 PLAN, ICICLE CRK DOCTOR REACH RESTORATION PRELIM DESIGN

Sponsor: Chelan Co Natural Resource Program: Salmon State Projects Status: Application Submitted

Parties to the Agreement

PRIMARY SPONSOR

Chelan County Natural Resources Department
Address 411 Washington St Ste 201
City Wenatchee **State** WA **Zip** 98801
Org Type County-Open Space/Nat Resources
Vendor # SWV0001231-12
UBI
Date Org created
Org Notes

link to Organization profile
✓Org data updated (by Amee Bahr 05/01/2025)

SECONDARY SPONSORS

No records to display

MANAGING AGENCY

Recreation and Conservation Office

LEAD ENTITY

Upper Columbia Salmon Rcy Bd L

QUESTIONS

#1: List project partners and their role and contribution to the project.

External Systems

SPONSOR ASSIGNED INFO

Sponsor-Assigned Project Number

Sponsor-Assigned Regions

LINK AN EXISTING SRP PROJECT

Unlink
25-1226, Icicle Crk Doctor Reach Restoration Prelim Desi

Project Contacts

Contact Name Primary Org	Project Role	Work Phone	Work Email
Amee Bahr Rec. and Conserv. Office	Project Manager	(360) 867-8585	Amee.Bahr@rco.wa.gov
Doran Lower Rec. and Conserv. Office	MAgy Fiscal Contact	(360) 902-3007	doran.lower@rco.wa.gov
Bryan Maloney Chelan Co Natural Resource	Project Contact	(509) 670-1772	bryan.maloney@co.chelan.wa.us
Ariel Edwards Upper Columbia Salmon Rcy Bd L	Lead Entity Contact	(208) 540-2691	ariel.edwards@ucsrb.org

Worksites & Properties

#	Worksite Name
#1	Icicle Creek - Doctor Reach

Planning	Property Name

Worksite Map & Description

Worksite #1: Icicle Creek - Doctor Reach

WORKSITE ADDRESS

Street Address Icicle Road
City, State, Zip Leavenworth WA 98826

Worksite Details

Worksite #1: Icicle Creek - Doctor Reach

SITE ACCESS DIRECTIONS

From Leavenworth, turn onto Icicle Road. Drive 14.3 miles. Turn into the parking area on the left. Walk East on the closed road to reach Icicle Creek.

TARGETED ESU SPECIES

Species by ESU	Egg Present	Juvenile Present	Adult Present	Population Trend
Chinook-Upper Columbia River Spring, Wenatchee River, Outside anadromous area				
Steelhead-Upper Columbia River, Wenatchee River, Outside anadromous area				

Reference or source used

The Icicle Creek Boulder Field Passage Project restored passage for adult salmon and steelhead into Middle Icicle Creek. After the boulder field project was completed, Chinook salmon were documented through eDNA surveys in Middle Icicle Creek.

TARGETED NON-ESU SPECIES

Species by Non-ESU	Notes
Bull Trout	Bull Trout occupy habitat in Upper Icicle Creek, French Creek, and Leland Creek.

Questions

#1: Give street address or road name and mile post for this worksite if available.

Icicle Road

Project Application Report - 25-1226

Project Location

RELATED PROJECTS

Projects in PRISM

PRISM Number	Project Name	Program Name	Current Status	Relationship Type	Notes
No related project selected					

Projects not in PRISM

Project Number	Project Name	Current Status	Relationship Type	Project Funder
	Upper Icicle Habitat Restor	In Progress	Current Phase	Washington Department of Ecology, Office of Columbia River, allocated through the Icicle Work Group
22-PA-110617	Icicle Creek Floodplain Res	Completed	Earlier Phase	U.S. Forest Service, Drinking Water Providers Partnership Program

Related Project Notes

Both related projects, funded through the US Forest Service and Department of Ecology, contributed to the development of design concepts and a feasibility analysis at the site. The Ecology - OCR funding is active currently and supports continued project development at the Doctor Reach site, as well as another site downstream (Cashmere Mountain Group Site).

Questions

#1: Project location. Describe the geographic location, water bodies or habitat types, and the location of the project in the watershed, i.e. nearshore, tributary, main-stem, off-channel, etc.

The project is located on Icicle Creek mainstem and river-left floodplain, between RM 15-15.5

#2: How does this project fit within your regional recovery plan and/or local lead entity's strategy to restore or protect salmonid habitat? Cite section and page number.

The Upper Columbia Spring Chinook Salmon and Steelhead Recovery Plan includes the "Short-term Restoration Action" for Lower Icicle Creek Assessment Unit of "Increase habitat diversity and quantity by restoring riparian vegetation, reconnecting side channels, and reconnecting the floodplain with the channel in lower Icicle Creek" (page 207, UCSRB 2007). Although this is prescribed for Lower Icicle Creek, we believe this now also applies to the Middle Icicle Creek Assessment Unit, after the restoration of fish passage through the boulder field project.

Additionally, the Recovery Plan also includes the "Short-term Protection Action" for Upper Icicle Creek (including Middle Icicle Creek) of "Use administrative and institutional rules and regulations to protect and restore stream and riparian habitats on public lands..." (page 205, UCSRB 2007). While this specifically applies to protection, the prescription also explicitly mentions restoration of Upper Icicle Creek.

#3: Is this project part of a larger overall project?

No

#4: Is the project on State Owned Aquatic Lands? Please contact the Washington State Department of Natural Resources to make a determination. **Aquatic Districts and Managers**

No

Property Details

Properties for this program and project type are optional.

Project Proposal

Project Description

The project goal is to restore habitat and processes in the Doctor Reach of Icicle Creek (~RM 15 - RM 15.5), through addressing legacy impacts of relic infrastructure. This project would address the root cause of degradation of an abandoned road bed that artificially confines Icicle Creek and acts like an incised ditch on the floodplain. The project includes restoration throughout 0.35 miles of Icicle Creek mainstem habitat and ~12 acres of floodplain habitat. This project will develop preliminary designs and permit applications to support project development. Implementation of project designs would benefit spawning and rearing Chinook and steelhead, which now have access to the project area after the completion of the Boulder Field Passage project.

Project Questions

#1: Problem statement. What are the problems your project seeks to address? Include the source and scale of each problem. Describe the site, reach, and watershed conditions. Describe how those conditions impact salmon populations. Include current and historic factors important to understand the problems.

This project seeks to address the problem of anthropogenic impacts on the Icicle Creek mainstem and floodplain, downstream of the Doctor Creek confluence. The Icicle Creek Road formerly crossed the left-bank floodplain of Icicle Creek near the Doctor Creek confluence. In 2008, the Doctor Creek landslide formed an alluvial fan, pushing Icicle Creek North into the road. The road washed out and was eventually relocated higher up on the hillside, out of the floodplain. However, the old roadbed was not rehabilitated at the time, and flood flows incised down into the abandoned road surface. This incision created a ditch-like feature that drains and degrades habitat in the floodplain. Further, the old roadbed and associated rip-rap and berm material artificially confine Icicle Creek in its current location.

#2: Describe the limiting factors, and/or ecological concerns, and limiting life stages (by fish species) that your project expects to address.

This project expects to address the limited spawning and rearing habitat available to salmon and steelhead. This project will address relic infrastructure, in order to restore habitat for Chinook salmon and steelhead. By addressing a mainstem reach and large river-left floodplain, this project will improve both spawning and rearing habitat. Project outcomes include increasing inundation frequency of the left-bank floodplain side channel, increasing habitat complexity (e.g., cover, substrate heterogeneity, pool abundance and quality) in mainstem Icicle Creek, encouraging channel migration, and naturalizing a former road grade that drains the floodplain.

#3: What are the project goals? The goal of the project should be to solve identified problems by addressing the root causes. Then clearly state the desired future condition. Include which species and life stages will benefit from the outcome, and the time of year the benefits will be realized. **Example Goals and Objectives**

The project goal is to restore habitat and processes in the Doctor Reach of Icicle Creek (RM 15 - RM 15.5), through addressing legacy impacts of relic infrastructure. This project will develop permit-ready preliminary designs to increase and improve spawning and rearing habitat for both Chinook salmon and steelhead.

#4: What are the project objectives? Objectives support and refine biological goals, breaking them down into smaller 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). **Example Goals and Objectives**

Project objectives are to design restoration treatments that will restore natural channel and floodplain processes. To do so, designs will include naturalizing a relic road through the floodplain, increasing quantities of functional large wood, increasing inundation frequency of the left-bank floodplain, and improving quality of mainstem habitat with increased cover, pool frequency, and substrate heterogeneity. Upon implementation (anticipated in 2028), these habitat actions will benefit spawning and rearing Chinook salmon and steelhead.

#5: Scope of work and deliverables. Provide a detailed description of each project task/element. With each task/element, identify who will be responsible for each, what the deliverables will be, and the schedule for completion.

The project scope includes conceptual designs, preliminary (permit-ready) designs, and preparation of necessary permit applications. CCNRD will be responsible for completion of all tasks.

The conceptual design step will develop 30% designs from the existing concepts (see Attachment labeled "Design document"). These conceptual designs will be shared with all relevant stakeholders for review and comments. We anticipate this step to be complete by December of 2025.

Designs will include proposed restoration methods such as: engineered log jam installation to increase inundation frequency of the left-bank floodplain channel; installation of wood and grading to naturalize the relic road crossing the left-bank floodplain; rip-rap removal from the relic road; and engineered log jam installation to increase complexity, pool frequency, substrate heterogeneity, cover, and encourage channel migration in Icicle Creek.

Stakeholder feedback will be incorporated in the development of permit-ready preliminary designs. Preliminary designs will include a planset that details stream, floodplain, and road rehabilitation treatments. This preliminary deliverable will also entail a basis of design report, detailing hydraulic modeling, site considerations, and cost estimates for construction. We anticipate this step to be complete by December of 2026.

Preparation of necessary permit applications will be coordinated with the US Forest Service. Complete permit applications will require an evaluation of wetlands on site, as well as calculations of fill and excavation quantities. We anticipate this step to be complete by April of 2027.

#6: What are the assumptions and physical constraints that could impact whether you achieve your objectives? Assumptions and constrains are external conditions that are not under the direct control of the project, but directly impact the outcome of the project. These may include ecological and geomorphic factors, land use constraints, public acceptance of the project, delays, or other factors. How will you address these issues if they arise?

Constraints at the site include the desire to minimize disturbance. The left-bank floodplain is developing a robust riparian vegetation community after the disturbance from the Doctor Creek landslide. To accommodate the desire for minimal disturbance, we will consider whether construction by air (i.e., helicopter) or ground (i.e., excavator) is the preferred method of construction. This will have ramifications for how structures may be constructed and how the abandoned roadbed will be rehabilitated.

#7: How have lessons learned from completed projects or monitoring studies informed this project?

This project has benefited from successful projects completed by the sponsor and design consultant. Implemented designs for stream and floodplain restoration on previous projects are analyzed and incorporated into the current project.

#8: Describe the alternatives considered and why the preferred was chosen.

This project initially considered an alternative focused on alluvial water storage restoration at this site. This alternative would have maximized groundwater storage in the left-bank floodplain. However, after presenting the results of a feasibility analysis to the Icicle Work Group, the project focus shifted to mainstem and floodplain habitat. Stakeholder feedback was supportive of habitat restoration, instead of alluvial water storage restoration.

#9: How were stakeholders consulted in the development of this project? Identify the stakeholders, their concerns or feedback, and how those concerns were addressed.

An early design phase of this project was funded by US Forest Service. Accordingly, Chelan County coordinated with the Forest Service on project progress. Forest Service feedback was incorporated into the design process.

This project has been supported by the Icicle Work Group from the beginning, through funding from Ecology's Office of Columbia River. Accordingly, we have presented to the Work Group at project milestones and incorporated member feedback into the design process.

Feedback from these two groups (Forest Service and Icicle Work Group) was critical in shifting project focus from alluvial water storage to mainstem and floodplain habitat.

#10: Does your project address or accommodate the anticipated effects of climate change?

Yes

#10a: How will your project be climate resilient given future conditions?

The project addresses the anticipated effects of climate change by restoration of a floodplain. In alluvial (i.e., depositional) river reaches, floodplains are important components of natural water storage. Climate resilience is increased by re-connecting the river to its floodplain, improving riparian habitat, and slowing the transport of water out of the floodplain. Functioning floodplains contribute natural groundwater storage that augment baseflows in summer.

#10b: How will your project increase habitat and species adaptability?

This project will increase species adaptability by restoring spawning and rearing habitat in an alluvial reach of Icicle Creek. After the completion of the boulder field passage project, Chinook and steelhead are no longer blocked from this reach of Icicle Creek. Restoring mainstem and floodplain habitat increases the amount of spawning and rearing habitat to salmon and steelhead. Additionally, this project will increase adaptability in the face of dynamic conditions across the range of habitat occupied by salmon in the Upper Columbia region. As regional climate change projections include increased wildfire severity and area (Rogers et al., 2011), access to habitat across a wide geographic range will be imperative to ensure all aquatic species have access to some suitable habitat.

#11: Describe the sponsor's experience managing this type of project. Describe other projects where the sponsor has successfully used a similar approach.

Chelan County Natural Resource Department has managed many similar projects that include mainstem channel and floodplain restoration. A relevant recent project example is the Upper Wenatchee Project (constructed in 2024), which included log and rock additions in the Wenatchee River to increase activation of the left-bank floodplain. Another similar project example is the Upper White Pine Project, which involved relocating a PUD transmission line, removing a levee, and constructing mainstem and floodplain restoration treatments.

#12: Will veterans (including the veterans conservation corps) be involved in the project? If yes, please describe.

No

Planning Supplemental

#1: Is the project an assessment / inventory?
No

#2: Is your project a Barrier / Screening Diversion Inventory Project?
No

#3: Is this a fish passage design / screening design project?
No

#4: Will the project develop a design?
Yes

#4a: Will a licensed professional engineer design of the project?
Yes

#4b: Will you apply for permits as part of the project scope?
Yes

Planning Metrics

Project Application Report - 25-1226

Worksite: Icicle Creek - Doctor Reach (#1)

Area Encompassed (acres) (B.0.b.1)	12.5
Miles of Stream and/or Shoreline Affected (B.0.b.2)	0.35

DESIGN FOR SALMON RESTORATION

Conceptual Design (B.1.b.11.a RCO)

Total cost for Conceptual design	$25,416
Project Identified in a Plan or Watershed Assessment. (2457) (B.1.b.11.a)	Upper Columbia Salmon Recovery Board, 2007, Upper Columbia Spring Chinook and Salmon Recovery Plan, https://www.ucsrb.org/mdocs-posts/00_upper-columbia-spring-chinook-salmon-and-steelhead-recovery-plan/
Priority in Recovery Plan (2458) (B.1.b.11.b)	The Upper Columbia Spring Chinook Salmon and Steelhead Recovery Plan includes the "Short-term Restoration Action" for Lower Icicle Creek Assessment Unit of "Increase habitat diversity and quantity by restoring riparian vegetation, reconnecting side channels, and reconnecting the floodplain with the channel in lower Icicle Creek" (page 207, UCSRB 2007). Although this is prescribed for Lower Icicle Creek, we believe this now also applies to the Middle Icicle Creek Assessment Unit, after the restoration of fish passage through the boulder field project. Additionally, the Recovery Plan also includes the "Short-term Protection Action" for Upper Icicle Creek (including Middle Icicle Creek) of "Use administrative and institutional rules and regulations to protect and restore stream and riparian habitats on public lands..." (page 205, UCSRB 2007). While this specifically applies to protection, the prescription also explicitly mentions restoration of Upper Icicle Creek.

Preliminary design (B.1.b.11.a RCO)

Total cost for Preliminary design	$205,551
Project Identified in a Plan or Watershed Assessment. (1220) (B.1.b.11.a)	Upper Columbia Salmon Recovery Board, 2007, Upper Columbia Spring Chinook and Salmon Recovery Plan, https://www.ucsrb.org/mdocs-posts/00_upper-columbia-spring-chinook-salmon-and-steelhead-recovery-plan/
Priority in Recovery Plan (1222) (B.1.b.11.b)	The Upper Columbia Spring Chinook Salmon and Steelhead Recovery Plan includes the "Short-term Restoration Action" for Lower Icicle Creek Assessment Unit of "Increase habitat diversity and quantity by restoring riparian vegetation, reconnecting side channels, and reconnecting the floodplain with the channel in lower Icicle Creek" (page 207, UCSRB 2007). Although this is prescribed for Lower Icicle Creek, we believe this now also applies to the Middle Icicle Creek Assessment Unit, after the restoration of fish passage through the boulder field project. Additionally, the Recovery Plan also includes the "Short-term Protection Action" for Upper Icicle Creek (including Middle Icicle Creek) of "Use administrative and institutional rules and regulations to protect and restore stream and riparian habitats on public lands..." (page 205, UCSRB 2007). While this specifically applies to protection, the prescription also explicitly mentions restoration of Upper Icicle Creek.

CULTURAL RESOURCES

Cultural resources

Total cost for Cultural resources	$15,000
Acres surveyed for cultural resources	12.50

AGENCY INDIRECT COSTS

Agency Indirect

Total cost for Agency Indirect	$5,132

Overall Project Metrics

COMPLETION DATE	
Projected date of completion	06/30/2027

Planning Cost Estimates

Worksite #1: Icicle Creek - Doctor Reach

Category	Work Type	Estimated Cost	Note
Agency Indirect Costs	Agency Indirect	$5,132	
Cultural Resources	Cultural resources	$15,000	
Design for Salmon restoration	Conceptual Design (B.1.b.11.a RCO)	$25,416	
	Preliminary design (B.1.b.11.a RCO)	$205,551	
	Subtotal:	$251,099	
	Total Estimate For Worksite:	$251,099	

Summary

Total Estimated Costs:	$251,099
Total Estimated Planning Costs:	$251,099

Cost Summary

	Estimated Cost	Project %	Admin/AA&E %
Planning Costs			
Planning	$251,099		
SUBTOTAL	$251,099	100.00 %	
Total Cost Estimate	$251,099	100.00 %	

Funding Request and Match

FUNDING PROGRAM

Salmon State Projects	$251,099	100.000000

SPONSOR MATCH

Questions

#1: Explain how you determined the cost estimates

We received cost estimates from qualified firms to inform the project cost estimate. For instance, we received a cost estimate from a river restoration and engineering firm for design costs.

We estimated staff time required to complete similar stream/floodplain restoration design projects.

Other Funding

OTHER FUNDING DETAILS

Cultural Resources

Cultural Resource Areas

Worksite #1: Icicle Creek - Doctor Reach

Area: Icicle - Doctor - LB floodplain

#1: Describe any planned ground disturbing pre-construction/restoration work. This includes geo-technical investigation, fencing, demolition, decommissioning roads, etc.

This project scope includes wetland delineation and assessment, which requires minimal ground disturbance.

#2: Describe the existing project area conditions. The description should include existing conditions, current and historic land uses and previous excavation/fill (if depths and extent is known, please describe).

Vegetated floodplain and active mainstem and side channel.

#3: Will a federal permit be required to complete the scope of work on the project areas located within this worksite?

Unknown

#4: Are you utilizing Federal Funding to complete the scope of work? This includes funds that are being shown as match or not.

No

#5: Do you have knowledge of any previous cultural resource review within the project boundaries during the past 10 years?

Yes

#5a: Summarize the previous cultural resource review; including lead agency and date of review, reference name and numbers, etc. If RCO, include the prior phase grant number. NOTE: Do not provide any site-specific information considered confidential. Attach previous surveys or other reference documents.

An archaeological survey was completed in 2023 as part of the earlier design phase, in order to authorize the installation of groundwater monitoring equipment. US Forest Service completed the consultation in 2023. Additionally, Washington Department of Ecology consulted on the project in 2025.

#6: Are there any structures over 45 years of age within this worksite? This includes structures such as buildings, tidegates, dikes, residential structures, bridges, rail grades, park infrastructure, etc.

Unknown

Project Permits

Permits and Reviews	Issuing Organization	Applied Date	Received Date	Expiration Date	Permit #
None - No permits Required					

Attachments

Required Attachments	7 out of 7 done
Applicant Resolution/Authorizations	✓
CCA Tribal Notification	✓
Cost Estimate	✓
Landowner acknowledgement form	✓
Map: Planning Area	✓
Photo	✓
RCO Fiscal Data Collection Sheet	✓

PHOTOS (JPG, GIF)

Photos (JPG, GIF)

666669 Primary

PROJECT DOCUMENTS AND PHOTOS

Project Documents and Photos

File Type	Attach Date	Attachment Type	Title	Person	File Name, Number Associations	Shared
	05/23/2025	CCA Tribal Notification	CCA-TribalNotice_Yakama.pdf	BryanM	CCA-TribalNotice_Yakama.pdf, 670373	✓
	05/23/2025	CCA Tribal Notification	CCA-TribalNotice_Colville.pdf	BryanM	CCA-TribalNotice_Colville.pdf, 670372	✓
	05/16/2025	Cost Estimate	Icicle_Doctor_Prelim_Design_CostEstimat	BryanM	Icicle_Doctor_Prelim_Design_CostEst… 669819	✓
	04/18/2025	Project Application Report	Project Application Report, 25-1226P (sub 04/18/25 15:53:53)	BryanM	Project Application Report - 25-1226 (submitted 04-18-2025_15-53-53).pdf, 666818	✓
	04/18/2025	Design document	Icicle_Doctor_concepts.pdf	BryanM	Icicle_Doctor_concepts.pdf, 666811	✓
	04/18/2025	Photo	Icicle_Doctor_site_overview_photo.jpg	BryanM	Icicle_Doctor_site_overview_photo.jpg, 666669	✓
	04/18/2025	Map: Planning Area	Icicle_Doctor_site_overview_map.pdf	BryanM	Icicle_Doctor_site_overview_map.pdf, 666667	✓
	04/18/2025	Landowner acknowledgement form	SAL-LandownerAckForm_Icicle_Doctor.docx	BryanM	SAL-LandownerAckForm_Icicle_Doctor.do… 666658	
	04/18/2025	RCO Fiscal Data Collection Sheet	SRFB 2025_FiscalDataCollectionSheet_final.pdf	BryanM	SRFB 2025_FiscalDataCollectionSheet_final… 666649	
	04/18/2025	Applicant Resolution/Authorizations	SRFB2025_CCNRD_ApplicantAuthorizatic	BryanM	SRFB2025_CCNRD_ApplicantAuthori… 666648	✓

Application Status

Application Due Date: 06/23/2025

Status Name	Status Date	Submitted By	Submission Notes
Application Submitted	04/18/2025	Bryan Maloney	
Preapplication	04/03/2025		

I certify that to the best of my knowledge, the information in this application is true and correct. Further, all application requirements due on the application due date have been fully completed to the best of my ability. I understand that if this application is found to be incomplete, it will be rejected by RCO. I understand that I may be required to submit additional documents before evaluation or approval of this project and I agree to provide them. (Bryan Maloney, 04/18/2025)

Project Application Report - 25-1226

Date of last change: 05/16/2025

DESIGN PROJECTS

The costs on this page are for design projects, not for the design phase of a restoration grant.

See Manual 18, Appendix D for additional information regarding allowable costs.

				OVERALL PROJECT	GRANT REQUEST	MATCH			
				Budget must account for all costs to complete the project	*Enter only the amount of the grant request*	*The Grant Request and Match should equal the total project cost and Budget Check cell should be 0. Sponsors must account for all sources and types of match need to complete the project.*			
				Amount	Amount	Match	Funding not reported in PRISM	Source (Grant, Cash, Materials, Labor, Volunteers, etc)	Match Type (federal, state, local)
Design Costs									
Category	Task Description	Qty	Rate						
Data collection-Consultant	*Topographic Survey*	1.00	$ 30,600.00	$ 30,600	$ 30,600	$ -	$ -		
Conceptual design-Consultant	*Conceptual Design Development*	1.00	$ 15,600.00	$ 15,600	$ 15,600	$ -	$ -		
Preliminary design-Consultant	*Preliminary Design Development**	1.00	$ 84,700.00	$ 84,700	$ 84,700	$ -	$ -		
Permits-Consultant	Permitting support**	1.00	$ 15,300.00	$ 15,300	$ 15,300	$ -	$ -		
Wetland Delineation-Consultant	*Survey and Report/Documentation*	1.00	$ 44,800.00	$ 44,800	$ 44,800	$ -	$ -		
Cultural resources-Consultant	*Survey and Report/Documentation*	1.00	$ 15,000.00	$ 15,000	$ 15,000	$ -	$ -		
Administrative - Sponsor	*Project Management*	1.00	$ 8,487.60	$ 8,488	$ 8,488	$ -	$ -		
Administrative - Sponsor	*Permitting*	1.00	$ 9,518.60	$ 9,519	$ 9,519	$ -	$ -		
Administrative - Sponsor	*Grant and financial admin.*	1.00	$ 20,647.00	$ 20,647	$ 20,647	$ -	$ -		
Other - Sponsor	*Travel (vehicle mileage)*	448.00	$ 0.700	$ 314	$ 314	$ -	$ -		
Other - CCNRD	*Drone - Anzu Robotics Raptor T*	1.00	$ 1,000.000	$ 1,000	$ 1,000	$ -	$ -		
				$ -	$ -	$ -	$ -		
			STotal	$ 245,967	$ 245,967	$ -	$ -		
Indirect Costs									
	Description	Approved Rate	Total Project Base						
	Indirect	20.000%	$ 25,659.80	$ 5,132	$ 5,132	$ -	$ -		
	Indirect	0.000%	$ -	$ -	$ -	$ -	$ -		
			STotal	$ 5,132	$ 5,132	$ -	$ -		
			GTOTAL	**$ 251,099**	**$ 251,099**	**$ -**	**$ -**		

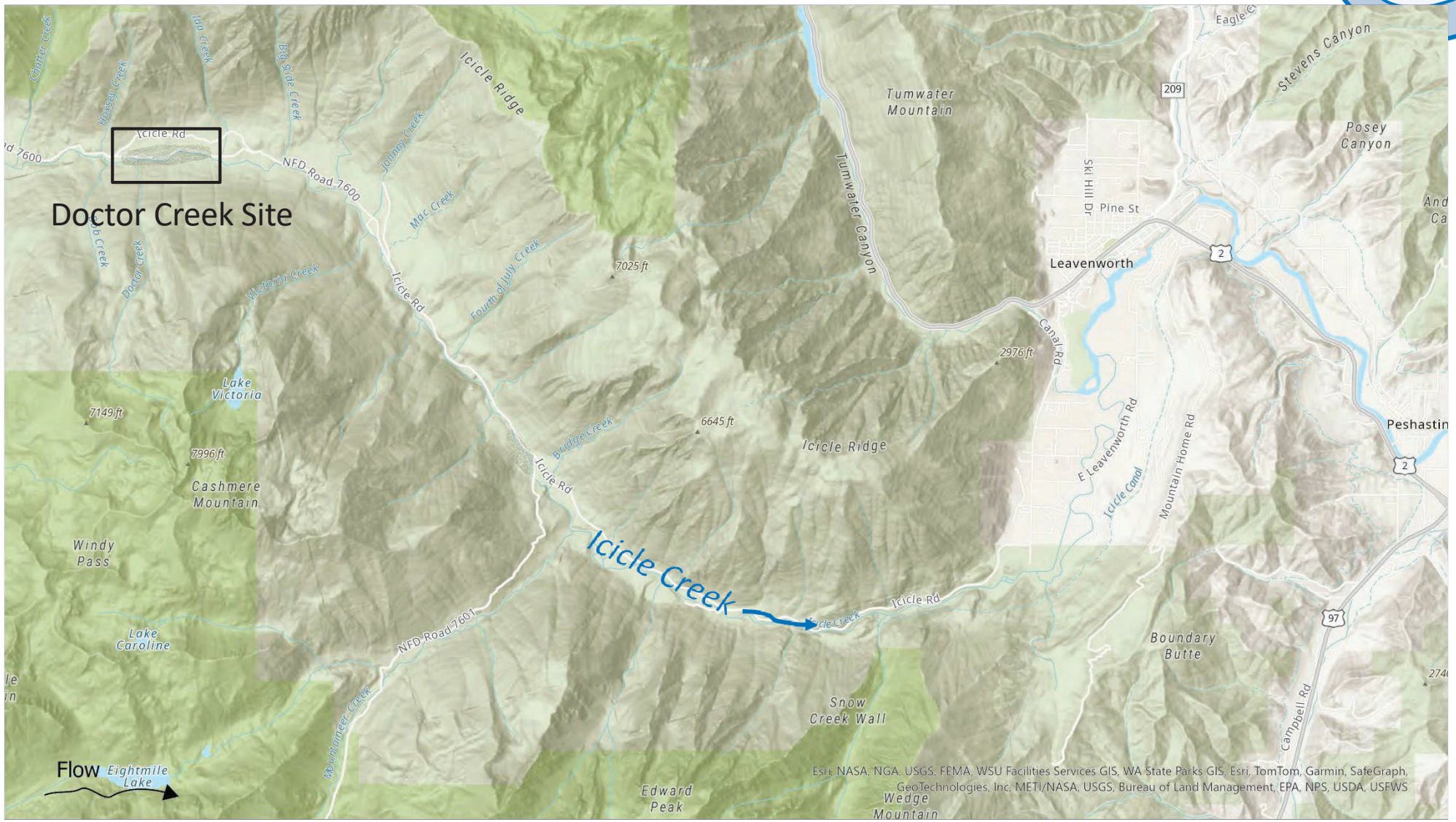
CUMULATIVE TOTALS

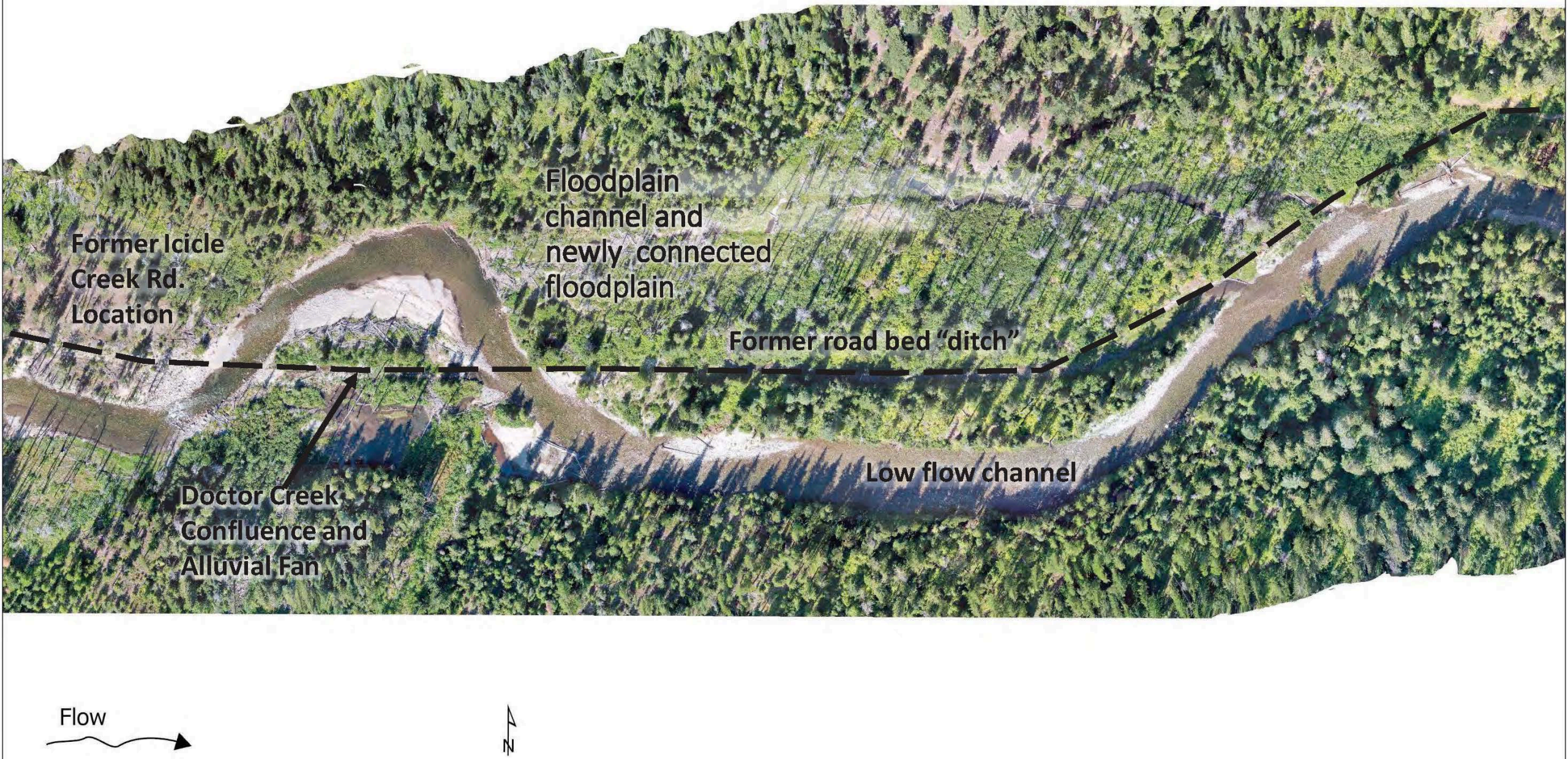
This sheet contains automatic calculations

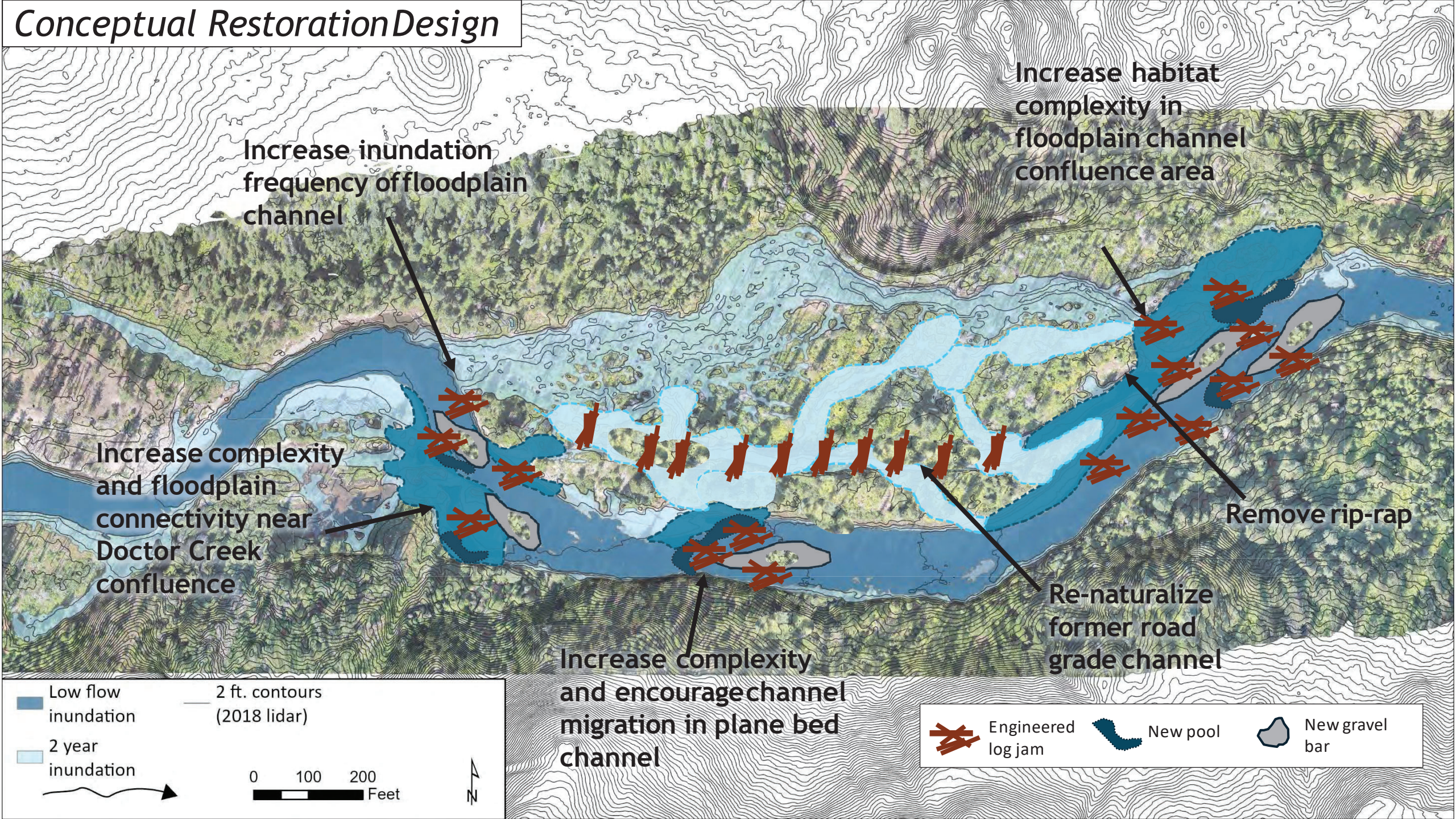
Project Name	Nason RM 12 Floodplain Reconnection
SRFB #	21-1171
Sponsor	Chelan County Natural Resource Department

	OVERALL PROJECT Cost	GRANT REQUEST Amount	PRISM MATCH Amount	MATCH NOT IN PRISM Amount	*Budget Check*
Sheet #1 Acquisition					
Property Costs	$ -	$ -	$ -	$ -	0
Incidental Costs	$ -	$ -	$ -	$ -	0
Administrative Costs	$ -	$ -	$ -	$ -	0
Indirect Costs	$ -	$ -	$ -	$ -	
STotal	$ -	$ -	$ -	$ -	0
Sheet #2 Design					
Design Costs	$ 245,967	$ 245,967	$ -	$ -	
Indirect Costs	$ 5,132	$ 5,132	$ -	$ -	
STotal	$ 251,099	$ 251,099	$ -	$ -	0
Sheet #3 Restoration					
Construction Costs	$ -	$ -	$ -	$ -	0
AA&E	$ -	$ -	$ -	$ -	0
Indirect Costs	$ -	$ -	$ -	$ -	
STotal	$ -	$ -	$ -	$ -	0
GTOTAL	**$ 251,099**	**$ 251,099**	**$ -**	**$ -**	0

Sites overview




Former Icicle Creek Rd. Location
Floodplain channel and newly connected floodplain
Former road bed "ditch"
Low flow channel
Doctor Creek Confluence and Alluvial Fan
Flow
N


Conceptual Restoration Design
Increase inundation frequency of floodplain channel
Increase habitat complexity in floodplain channel confluence area
Increase complexity and floodplain connectivity near Doctor Creek confluence
Remove rip-rap
Re-naturalize former road grade channel
Increase complexity and encourage channel migration in plane bed channel
Low flow inundation
2 year inundation
2 ft. contours (2018 lidar)
0 100 200 Feet
N
Engineered log jam
New pool
New gravel bar