



## 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)

<b>Project Title</b>	CRM Riparian Stewardship Package
<b>Sponsor</b>	Cascade Fisheries (Lead Sponsor), Cascadia Conservation District (Co-sponsor), Trout Unlimited (Co-sponsor)
<b>Primary Contact</b>	Phillip Klenke
<b>E-Mail Address</b>	phillip@ccfeg.org

## 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 Coordinated Resource Management (CRM) group, a partnership between Cascade Fisheries, Cascadia Conservation District, and Trout Unlimited, submits this joint proposal to restore riparian and in-stream habitat across the Upper Columbia region. This proposal focuses on the stewardship of riparian and in-stream habitat restoration efforts by the CRM across 28 project sites in the Wenatchee and Entiat River watersheds, as well as in two tributaries of the Columbia River. The primary goals are to improve the success and rate of riparian habitat establishment and to enhance the development of normative stream processes and functions, promoting self-sustaining ecosystems.

To achieve these goals, this project will focus on managing invasive plant species and noxious weeds, replacing unsuccessful plantings, increasing groundwater availability through in-stream structures, and supplementing sites with irrigation water as needed. Additionally, efforts will be directed toward improving the effectiveness and longevity of low-tech process-based restoration (LTPBR) in-stream habitat structures, such as Beaver Dam Analogs (BDAs) and Post-Assisted Log Structures (PALS), through annual maintenance, monitoring system response, and adaptive management based on observed responses.

Beavers create, maintain, and improve habitat that supports survival, capacity and/or distribution of salmonid species by creating ponds that store cool water, create rearing habitat, aggrade incised streams,

reconnect floodplains, and lower downstream turbidity. Every year, Trout Unlimited works with landowners and public agencies to keep beavers in place through education and various coexistence measures. When leaving beavers in place is not an option and those beavers would otherwise be lethally removed, Trout Unlimited will live trap beavers and relocate them to streams where they can create and restore quality salmonid habitat.

By addressing the root causes of habitat degradation, including reduced riparian vegetation, competition from invasive species, loss of in-stream complexity, removal of beavers, and diminished hydrologic processes and functions, this project will foster resilient riparian and aquatic ecosystems. The desired future condition is a network of stable, connected habitats with thriving native vegetation and beavers, improved water retention, and enhanced capacity to support fish and wildlife populations. Through continued stewardship, this project will ensure that restoration efforts achieve lasting ecological benefits and contribute to the long-term health of these watersheds.

**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].**

This project will achieve the following objectives:

- Riparian Vegetation Establishment: Restore and expand riparian vegetation communities to address shade cover and high stream temperatures for all salmonid life stages by providing stewardship and maintenance to over 21 acres of previously planted riparian habitat through managing invasive species, replacing unsuccessful plantings, and supplementing water (irrigation) to achieve self-sustaining riparian communities that are on a trajectory to becoming fully functioning riparian systems. The project will also improve conditions for riparian vegetation establishment through ponds created by released beavers.
- Invasive Species Management: Manage invasive plant species and noxious weeds across more than 21 acres of previously planted riparian habitat, to promote native vegetation establishment and riparian resilience.
- In-Stream Habitat Structure Maintenance: Maintain and enhance over 500 BDAs and 100 PALS across more than 11 miles of previously treated aquatic habitat by conducting annual inspections, routine structure maintenance, and adaptive management, to achieve self-sustaining stream processes that promote the formation of riparian communities and in-stream habitat for aquatic species.
- Beaver Relocation: Reintroduce beavers to 5 sites in Chelan and Douglas Counties. Based on linear beaver colony densities reported in the literature (Scrafford et al. 2018; Cox and Nelson, 2009; Boyce, 1980; Busher et al. 1983; Busher et al. 1983) we anticipate that every beaver family maintained in place has the potential to treat 0.9 – 1.6 km of stream with ecosystem benefits (instream habitat), so beaver relocation could result in a total of 4.5-8 km of maintained and improved instream habitat across 5 sites.
- Hydrologic Process Enhancement: Improve groundwater recharge, streamflow retention, and in-stream complexity by ensuring that BDAs, PALS, and relocated beavers are actively promoting natural stream processes (i.e. lateral floodplain connectivity, pool formation, sediment retention, etc.) as observed during routine structure maintenance over the 5-year term.
- Irrigation and Water Supplementation: Support riparian vegetation survival by supplementing sites with irrigation water as needed, ensuring soil moisture levels remain within optimal ranges during the driest months of the year, to achieve self-sustaining riparian communities that are on a trajectory to becoming fully functioning riparian systems.

\* Project objectives are summarized across all 28 project sites. While each site has specific treatments and recovery goals, these objectives establish the common recovery goals shared across all project sites. Detailed site-specific objectives are not included in this pre-application to maintain clarity and focus on the unified restoration strategy.

## **Budget Request**

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

<b>Anticipated Request - SRFB (standard round)</b>	\$620,000.00
<b>Anticipated Request - SRFB Riparian Funding</b>	\$620,000.00
<b>Tributary Committee - Anticipated or Actual</b>	\$200,000.00
<b>Anticipated TOTAL Budget</b>	\$820,000.00

## Project Location

**Briefly describe the location of the project** This project will take place across 28 different project sites (14 "work sites" or stream systems) within the Wenatchee and Entiat Rivers, and the Columbia River Tributaries. A list of river miles (or length of stream affected for smaller streams) by site can be found in "Attachment A- Worksites and Properties Info". Beaver Relocation work will take place in rivers and streams throughout Chelan and Douglas Counties.

**Latitude (decimal degrees)** A list of Latitudes and Longitudes by site can be found in "Attachment A- Worksites and Properties Info".

**Longitude (decimal degrees)** A list of Latitudes and Longitudes by site can be found in "Attachment A- Worksites and Properties Info".

**Project subbasin** Multiple Subbasins

### Please explain why there are multiple subbasins

This proposal focuses on the stewardship of riparian and in-stream habitat restoration efforts by the CRM across 28 project sites in the Wenatchee and Entiat River watersheds, as well as in two tributaries of the Columbia River.

**Does the proposed project span multiple assessment units?** Yes

**List the additional assessment units directly impacted by this proposal.** There are 10 total Assessment Units associated with the project sites proposed in this project. The Columbia River Tributaries do not have a designated AU. A list of AUs by site can be found in "Attachment A- Worksites and Properties Info".

**Reach(es) Name** The projects included in this proposal take place across 14 different defined reaches. However, there are 16 project sites that occur in reaches that have not yet been defined. A list of reaches by site can be found in "Attachment A- Worksites and Properties Info". Beaver relocation and coexistence will take place as needed on public and private land in collaboration with landowners and land managers.

**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/>.** Multiple reaches (provide details below)

## Please detail the reach-ranking of the reaches below

The projects included in this proposal take place across 14 different defined reaches. However, there are 16 project sites that occur in reaches that have not yet been defined.

A list of reaches by site can be found in "Attachment A- Worksites and Properties Info".

Beaver relocation and coexistence will take place as needed on public and private land in collaboration with landowners and land managers.

## Project Information

1. What species will the project benefit?

Spring Chinook

Steelhead

Bull Trout

Summer Chinook

Coho, Sockeye, Lamprey, westslope cutthroat

2. Select the project's objectives and the associated tracking metrics

Instream Habitat (Includes Floodplain & Off-Channel Reconnection)

Riparian Habitat

Instream Habitat: Reporting Code

Total miles of instream habitat treated

Number of beavers

Number of structures placed in channel

Riparian Habitat: Reporting Code

Total riparian miles streambank treated

Total riparian acres treated

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?

Restoration

If applicable, what is the secondary project category?

Restoration

Is the project eligible for Riparian Funding?

Yes

## Design and Restoration Proposals

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

Construction

**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)?**

12 of the 28 project sites included in this proposal fall within defined reaches. Those reaches will likely have had Reach Assessments completed for them to some degree. It is unknown to the sponsor if the other 16 project sites have completed or soon-to-be-completed Reach Assessments. UCSRB's Prioritization Web Map does not name the assessments performed to gather reach data.

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

Cover - Wood

Flow - Summer Base Flow

Off-Channel - Floodplain

Riparian

Riparian - Canopy Cover

Riparian - Structure

Temperature - Adult Holding

Temperature - Adult Spawning

Temperature - Rearing

**10. Which life stages will the proposed project address?**

Subadult Rearing (Bull Trout)

Fry

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?**

Several native aquatic species are threatened, endangered, or a species of concern in the Wenatchee, Entiat, and upper Columbia watersheds. These species include steelhead (*Oncorhynchus mykiss*), spring Chinook salmon (*Oncorhynchus tshawytscha*), bull trout (*Salvelinus confluentus*), Pacific lamprey (*Entosphenus tridentatus*) and Westslope cutthroat trout (*Oncorhynchus clarkii lewisi*). Coho salmon (*Oncorhynchus kisutch*), a reintroduced species of cultural importance to both the Yakama Nation and the Colville Confederated Tribes, and sockeye salmon (*Oncorhynchus nerka*), are also present in the Wenatchee watershed. Much of the region's available restoration funding is directed towards habitat restoration with a focus on increasing channel structure, off-channel habitat, habitat complexity and heterogeneity, and water quality within the mainstem river and side channel anadromous zones (UCSRB 2020). Comparatively few restoration dollars are directed upstream to address root causes of anadromous zone degradation. This includes reduced seasonal streamflow caused by rapid conveyance of water through disconnected and incised stream channels in headwater streams, as well as the excess sediment and nutrient transport from low order tributaries after disturbance events and legacy degradation (Powers et al. 2018). The majority of project sites in this proposal within WRAs 45, 46, and 44 are in lower order streams within the upper extent of the active anadromous zone. The process-based restoration projects included in this proposal, that were previously implemented by the CRM, to increase structure, habitat complexity, and reconnection with floodplains are providing multiple essential benefits to onsite and downstream anadromous habitat and salmonids by:

1. Reducing erosive stream power emanating from degraded and incised headwater streams (Pollock et al. 2014, Wheaton et al. 2019)
2. Reducing large scale debris, sediment, and nutrient transport during disturbance events (Beechie et al. 2010, Wohl et al. 2018).
3. Increasing water residency time in headwater basins through the reconnection of streams with floodplains, recharging groundwater (Wohl et al. 2018, Wohl et al. 2019).
4. Slowing the groundwater return downstream of floodplain inundation moderates stream temperatures

in all seasons, cooling streams in the heat of summer and warming them in the depths of winter, both critical to salmon across life stages (Bouwes et al. 2016, Majorova et al. 2019)

5. Slowing conveyance of water through headwater basins, increasing late season stream baseflows, and moderating annual baseflows (Yokel et al. 2018, Wheaton et al. 2019).

Riparian restoration projects provide critical freshwater benefits to our region's target species throughout their life stages by enhancing habitat complexity, regulating water temperature, and stabilizing streambanks. Riparian vegetation improves instream habitat by increasing the future recruitment source of large woody debris, which creates pool habitat and cover that is essential for juvenile rearing and predator avoidance (Roni et al. 2002). The shading provided by mature riparian canopies helps moderate stream temperatures, which is particularly vital for thermally sensitive species such as bull trout (*Salvelinus confluentus*) and spring Chinook salmon (*Oncorhynchus tshawytscha*) (Poole & Berman 2001). Additionally, riparian root systems reduce sediment transport and improve substrate quality, benefiting egg incubation and early fry development by maintaining suitable interstitial flow and oxygen levels in spawning gravels (Naiman et al. 2005). The increased habitat complexity from floodplain reconnection and side channel formation further supports juvenile fish by providing low-velocity refugia during high-flow events, improving survival rates across various life stages (Beechie et al. 2010). By restoring riparian function, these projects address both local and downstream habitat conditions, supporting the long-term resilience of anadromous and resident fish populations in degraded freshwater systems.

Research has demonstrated how beavers create, maintain, and improve habitat that support survival, capacity and/or distribution of all life stages of salmonid species:

1. Beaver ponds retain surface water, store cool water, and elevate water tables to enhance base flows and promote aquifer recharge. (Naiman, Johnston and Kelley, 1988 and Dittbrenner et al. 2022)
2. Ponds offer habitat for salmonids and other aquatic/terrestrial species including invertebrate food sources, and lower downstream turbidity. (Pollock et al., 2004)
3. Beaver dams and BDAs increase stage to aggrade incised streams, reconnect streams with floodplains, and create critical off-channel habitat. (Bouwes, et al., 2016)
4. Beaver activities attenuate flooding and sediment transport. (Rosell and Parker, 1996)
5. Beaver habitats create natural fire breaks and refugia and increase riparian vegetation fire resistance. (Fairfax and Whittle, 2020)
6. Beavers recruit woody debris to the stream system. (Orr, et al., 2020)

Benefits to other aquatic and riparian dependent species: All native aquatic and riparian dependent species that evolved in WRIA 45 and 46 are challenged by current conditions of watershed degradation, changing precipitation patterns, and a warming climate. Riparian areas and their streams hold some of the most complex and biodiverse ecosystems around the world and the majority of all freshwater and terrestrial species are dependent upon riparian/aquatic systems for some stage of their life cycle, if not the entirety (Abell, Robin, et al. 2008, Naiman et al. 1993). LTPBR and riparian planting provide immense value by returning water to the riparian floodplain and helping maintain wetted conditions across a greater proportion of valley widths throughout these watersheds. This broad scale wetting would exponentially increase habitat conditions conducive to diverse life and restore resiliency into our ecosystems (Wheaton et al. 2019). This resilience will enable faster recovery from ongoing climate exacerbated weather events. A number of riparian and aquatic species are currently at risk and would benefit from broad watershed LTPBR actions to improve habitat quantity and quality: state ESA listed endangered greater sage-grouse (*Centrocercus urophasianus*), several species of freshwater mussels, many bat species including the spotted bat (*Euderma maculatum*), Townsend's big eared bat (*Corynorhinus townsendii*), and little brown bat (*Myotis lucifugus*) and amphibians including the Columbia spotted frog (*Rana luteiventris*) are candidate species for at risk listing in WA (ISSSSP 2020, WDFW 2020).

The 28 project sites included in this proposal fall across 10 different Assessment Units (AUs) within the Wenatchee and Entiat watersheds. Due to the majority of included project sites occurring in lower order streams within the upper extent of the active anadromous zones of WRIs 45 and 46, many of the project sites do not have associated reaches that have been defined. 12 of the 28 project sites included in this proposal fall within defined reaches. Out of those 12 projects (covering 14 reaches), only five reaches have had the necessary information collected to allocate priority rankings for restoration on the UCSRB prioritization list. These five reaches are: Nason Creek Lower 10 (Rank 1), Peshastin Creek Lower 01 (Rank 1), Peshastin Creek Lower 03 (Rank 2), Wenatchee River Ollalla 01 (Rank 3), and Chumstick Creek 02 (awaiting rank).

Though there are no defined ranks associated with the majority of the project sites included within this proposal, these projects still provide multiple essential benefits to the region's priority species at multiple life stages within these systems, and extend to downstream systems and their associated life stages. These projects were originally identified by the CRM group to address the limiting factors that exist within our priority species' habitats, supported by funding from various partners, and have been implemented by the CRM partners utilizing process-based restoration techniques (primarily LTPBR methods) and riparian restoration.

The overarching goal of this proposal is to restore riparian communities through continued stewardship and to restore structure to tributary streams through the maintenance of LTPBR actions and reintroduction of beavers, addressing the many forms of habitat degradation in WRIAs 45, 46, and 44. The restoration projects included in this proposal provide freshwater benefit in these systems, with regards to the way that riparian planting, LTPBR, and beaver reintroduction projects address the historic loss of habitat and habitat forming processes. Our project follows Castro & Thornes' "stream evolutionary model" that includes hydrology, geology, and biology, with biology being the active agent for the change and healing of watersheds (2019). By providing the necessary inputs to restore the normative hydraulic, geomorphic, and biological processes present within stream ecosystems, we aim to improve survival, capacity, and distribution for the region's target species.

## **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 proposal focuses on the stewardship of riparian and in-stream habitat restoration efforts by the CRM across 28 project sites in concert with beaver reintroduction across the Wenatchee and Entiat River watersheds, as well as in two tributaries of the Columbia River. The primary goals are to improve the success and rate of riparian habitat establishment and to enhance the development of normative stream processes and functions, promoting self-sustaining ecosystems. The included projects integrate varying degrees of low-tech process-based restoration (LTPBR) techniques, beaver relocation, and riparian planting to create a powerful, holistic approach to restoring stream ecosystems and watershed functions. These efforts work together to address hydrological, geomorphic, and ecological processes that sustain resilient river systems. However, while these restoration techniques set the foundation for recovery, active stewardship and maintenance are crucial in the first few years after implementation to ensure long-term success and self-sustainability.

### **1. Hydrological Process Restoration**

- a. Floodplain Reconnection: LTPBR techniques (e.g., BDAs, PALS, wood supplementation, and side-channel reactivation) and natural beaver dam complexes slow down high flows, promoting floodplain inundation and restoring groundwater recharge.
- b. Water Retention & Baseflow Improvement: Reconnected wetlands and riparian zones store water during wet seasons and release it slowly over dry periods, ensuring sustained baseflows in drought conditions.
- c. Stormwater Attenuation: Increased floodplain roughness, in-stream structure (BDAs, PALS, woody material, natural beaver dams), and vegetation help slow floodwaters, reducing peak flows and protecting downstream communities.

### **2. Geomorphic Process Restoration**

- a. Bank Erosion Control: Native vegetation (e.g., willows, cottonwoods, and sedges) stabilizes banks with deep roots, reducing collapse and sediment runoff.
- b. Sediment Balance & Channel Stability: In-stream structures (BDAs, PALS, woody material, natural beaver dams) and riparian vegetation reduce excessive sediment erosion while allowing natural deposition that helps form riffles, pools, and stable banks.
- c. Encouraging Channel Evolution: Streambank plantings, floodplain restoration, and beaver reintroductions promote the natural stream processes that encourage channels to evolve and change through time, leading to the formation of more complex and sinuous channels, creating diverse habitats and enhancing water storage capacity. Additionally, beavers excavate side channels to access food and habitat, enhancing this effect.

### **3. Ecological and Biological Process Restoration**

- a. Temperature & Oxygen Regulation: Riparian trees shade the stream's surface, preventing excessive heating from solar radiation and ambient air, which is crucial for temperature sensitive salmonids and

other aquatic species. In-stream structures and beaver dams raise the water table and increase base stream flow, which increases the density and growth rate of riparian trees.

b. Habitat Enhancement: In-stream structures (BDAs, PALS, woody material, natural beaver dams) and riparian vegetation create diverse aquatic and terrestrial habitats for aquatic and terrestrial species, providing foraging opportunities and cover from predators.

c. Nutrient Cycling & Food Web Support: Leaf litter and organic matter from riparian plants, as well as accumulated sediment from in-stream structures and natural beaver dams, fuel aquatic food chains, benefiting macroinvertebrates and fish populations.

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

Less than or equal to 1 year

1-10 years

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

Less than 10 years

10-50 years

50+ years

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

This proposal focuses on the stewardship and maintenance of riparian and in-stream habitat restoration efforts by the CRM across 28 project sites in the Wenatchee and Entiat River watersheds, as well as in two tributaries of the Columbia River.

Riparian Plant Stewardship: Of the 28 project sites included in this proposal, 16 sites included riparian planting as a project component during initial implementation. The sources of funding used to implement those projects have since, or will soon expire, leaving these sites without proper stewardship before the plants have adequately been established. Newly planted riparian vegetation requires active stewardship for 3-5 years, including watering (irrigation), mulching, and invasive species/noxious weed management, to ensure survival and the establishment of deep root systems. Stewardship of these riparian project sites allows for continued observations to track the development of riparian communities, and to replant or adaptively manage for plant mortality.

LTPBR structure maintenance: Of the 28 project sites included in this proposal, 24 sites included LTPBR methods as a project component during initial implementation. The sources of funding used to implement those projects have since, or will soon expire, leaving these LTPBR structures (BDAs and PALS) without proper maintenance before the normative stream processes have become established within the system. The longer that LTPBR structures are maintained, the higher the chance of success of restoring normative stream processes, and for those processes to become self-sustaining into the future.

BDAs require annual maintenance and inspection for the first 5 years after implementation and every other year after (up to 10 years post-implementation), to add more material and support to the structures that may have been lost due to seasonal conditions and/or high-flow events. Additionally, BDAs are constructed using natural, untreated materials that may begin to biodegrade at varying rates and need to be supplemented to maintain the structure's form and function.

Maintenance actions could include:

- Adding additional "weave" material to create a tight seal on a BDA's pond.
- Replacing the posts used for structure stability, if they have been lost or become degraded.
- Altering the size and shape of structures depending on the site conditions and the effectiveness of the treatments. (i.e. extending structure length/width, extending structure height, reinforcing structure, etc.)

PALS require annual inspection and may require some level of maintenance from year-to-year, for the first 3-5 years after implementation. This is to evaluate the structure's integrity and to determine if it needs to be altered, due to seasonal conditions and/or high-flow events that jeopardized its integrity. PALS are constructed using natural, untreated materials that may begin to biodegrade at varying rates and need to be supplemented to maintain the structure's form and function.

Project sites will be adaptively managed based on outcomes and effectiveness of LTPBR treatments (i.e. new structure placement, structure removal, structure "abandonment"). BDAs and PALS will be evaluated on their progress with regards to structure, complex (set of structures), and site goals.

One goal of maintaining BDAs and PALS on these projects is to create conditions that attract beavers to the site or that are favorable for relocation of beavers, who can take over the maintenance of the structures and the site, stewarding the normative stream processes into the future. Beavers maintain their dams daily and adaptively manage their habitats based on the site conditions, providing a level of maintenance and stewardship that is impractical for humans to replicate. Put simply, beavers do it better. However, beavers are unpredictable factors in the overall ecosystem, and it cannot be determined when or if beavers will colonize a site. Due to land use activities and goals, existing infrastructure, and public perception, it is not feasible to assume that beaver colonization is the end-goal at every LTPBR project site.

Beaver Relocation: Relocated beavers maintain beneficial stream conditions and enhance degraded sites. Beavers can restore degraded sites on their own or expand upon and maintain previously restored sites. TU monitors relocation sites after releasing beavers at least three times, one month post release, once in the fall following the release, and once in the spring following the release, to assess whether beavers have remained at the relocation site and whether additional releases may be advisable. TU uses game cameras and pit tags to track relocated beaver movement through watersheds and relies on a variety of resources to keep track of beaver occupancy throughout local watersheds. WDFW requires on the ground relocation site assessments for every beaver relocation, and sites must score highly enough to support beaver reintroduction.

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

As previously stated, this proposal focuses on the stewardship and maintenance of riparian and in-stream habitat restoration efforts by the CRM across 28 project sites in the Wenatchee and Entiat River watersheds, as well as in two tributaries of the Columbia River and beaver relocation in Chelan and Douglas Counties. The primary goals are to improve the success and rate of riparian habitat establishment and to enhance the development of normative stream processes and functions, promoting self-sustaining ecosystems.

To achieve these goals, this project will focus on managing invasive plant species and noxious weeds, replacing unsuccessful plantings, increasing groundwater availability through in-stream structures, relocating beavers, and supplementing sites with irrigation water as needed. Additionally, efforts will be directed toward improving the effectiveness and longevity of low-tech process-based restoration (LTPBR) in-stream habitat structures, such as Beaver Dam Analogs (BDAs) and Post-Assisted Log Structures (PALS), through annual maintenance, monitoring system response, adaptive management based on observed responses and reintroduction of beavers as appropriate.

Methods to achieve project objectives are:

- Riparian Vegetation Establishment: Restore and expand riparian vegetation communities to address shade cover and high stream temperatures for all salmonid life stages by providing stewardship and maintenance to over 21 acres of previously planted riparian habitat through managing invasive species, replacing unsuccessful plantings, and supplementing water (irrigation) to achieve self-sustaining riparian communities that are on a trajectory to becoming fully functioning riparian systems. The project will also improve conditions for riparian vegetation establishment through ponds created by released beavers.
- Invasive Species Management: Manage invasive plant species and noxious weeds across more than 21 acres of previously planted riparian habitat, to promote native vegetation establishment and riparian resilience.
- In-Stream Habitat Structure Maintenance: Maintain and enhance over 500 BDAs and 100 PALS across more than 11 miles of previously treated aquatic habitat by conducting annual inspections, routine structure maintenance, and adaptive management, to achieve self-sustaining stream processes that promote the formation of riparian communities and in-stream habitat for aquatic species.
- Beaver Relocation: Reintroduce beavers to 5 sites in Chelan and Douglas Counties. Based on linear beaver colony densities reported in the literature (Scrafford et al. 2018; Cox and Nelson, 2009; Boyce, 1980; Busher et al. 1983; Busher et al. 1983) we anticipate that every beaver family maintained in place has the potential to treat 0.9 – 1.6 km of stream with ecosystem benefits (instream habitat), so beaver relocation could result in a total of 4.5-8 km of maintained and improved instream habitat across 5 sites. TU conducts outreach and responds to beaver conflict calls and works with landowners and managers to

identify suitable coexistence solutions and relocation sites. When suitable coexistence options cannot be found, TU conducts live trapping and when successful, processes and temporarily houses beavers at their acclimation facility for up to two weeks, until all family members are captured. TU prepares the release site in advance and then relocates the beaver to the previously identified site. Relocated beavers are monitored using game cameras and a minimum of three post-release site visits are conducted.

- Hydrologic Process Enhancement: Improve groundwater recharge, streamflow retention, and in-stream complexity by ensuring that BDAs, PALS, and relocated beavers are actively promoting natural stream processes (i.e. lateral floodplain connectivity, pool formation, sediment retention, etc.) as observed during routine structure maintenance over the 5-year term.
- Irrigation and Water Supplementation: Support riparian vegetation survival by supplementing sites with irrigation water as needed, ensuring soil moisture levels remain within optimal ranges during the driest months of the year, to achieve self-sustaining riparian communities that are on a trajectory to becoming fully functioning riparian systems.

**17. If the project is eligible and applying for Riparian Funding, does the project have in-stream components? If so, briefly describe those components, how they support riparian plant survival and/or natural regeneration, and why they are necessary for the success of the riparian habitat elements of the project.**

This proposal focuses on the stewardship and maintenance of riparian and in-stream habitat restoration efforts by the CRM across 28 project sites in the Wenatchee and Entiat River watersheds, as well as in two tributaries of the Columbia River and beaver relocation in Chelan and Douglas Counties. The in-stream components that were previously implemented across these project sites aim to improve the success and rate of riparian habitat establishment and to enhance the development of normative stream processes and functions, promoting self-sustaining riparian and aquatic ecosystems.

The in-stream components on these projects are process based restoration structures, primarily LTPBR structures (BDAs, PALS, woody materials). These in-stream structures support riparian plant survival by:

1. Slowing down high flows, promoting floodplain inundation and increasing groundwater recharge.
2. Providing structure to aggrade sediment, which reverses channel incision and decreases bank erosion.
3. Promoting the lateral flow of water, reconnecting wetlands and riparian zones, which increase the storage of water during wet seasons and release it slowly over dry periods, ensuring sustained baseflows in drought conditions.
4. Raising the water table and increasing base stream flow, which increases the density and growth rate of both riparian plantings and the natural regeneration of riparian vegetation.
5. Kick-starting the natural stream processes that encourage stream channels to evolve and change through time, leading to the formation of more complex and sinuous channels, and subsequently the formation of larger riparian communities. Additionally, beavers excavate side channels to access food and habitat, enhancing this effect.

Many of the project sites included in this proposal are in remote locations where supplementing the riparian plants with water may not be feasible. The in-stream habitat structures provide the benefits listed above, increasing the residence time and storage of water already in the system to provide water to riparian plants during the dry season, and promoting the natural recruitment of riparian vegetation due to these wetter conditions. The maintenance of these project's in-stream structures is critical to ensuring that the normative stream processes develop in these systems, which provide the wet conditions that the associated riparian plants need to survive and establish.

## **Assessment Proposals**

## **Protection Proposals**

## **Monitoring Proposals**

## **Project Risk and Economic Benefits**

### **1. What is the landownership?**

Landownership across all 28 project sites included in this

proposal is a mix of Private and Public (state and federal) lands. A list of landownerships by site can be found in "Attachment A- Worksites and Properties Info". Beaver relocation and coexistence work takes place as needed on public and private land. TU conducts outreach and responds to beaver conflict calls, and works with landowners and land managers to identify suitable relocation sites.

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

Yes

**Please explain**

Landowner participation or acceptance of the projects included in this proposal has already been acquired during previous phases of each project (development, design, and implementation). As this proposal is for stewardship and maintenance at these project sites, current landowner agreements between the project sponsors and the various project landowners are still active, which details the stewardship and maintenance of project activities for 10 years post-implementation.

**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**

Landownership across all 28 project sites included in this proposal is a mix of Private and Public (state and federal) lands. Any landowner requirements that may exist are the responsibility of the CRM partner (Cascade Fisheries, Cascadia Conservation District, or Trout Unlimited) that is the project lead on the various project sites.

Landowners that have known requirements are as follows:

- United States Forest Service- requires project agreements and consultation with Forest Service staff during project design, permitting, and implementation.
- WA Dept. of Transportation- requires that a right of way be maintained during project actions.
- Dept. of Natural Resources- requires a Land Use License to be issued that covers project actions.
- Washington Department of Fish and Wildlife- requires landowners to notify neighboring property owners and sign a Landowner Attestation Form prior to having beavers released on their properties.
- United States Forest Service- requests to review all potential relocation sites on National Forest land prior to beaver trapping and release.

As these requirements have all been met during the initial implementation of these projects, we do not anticipate any effect on this project.

**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, this project will not raise concerns for interest groups or the community at large. As this project focuses on stewardship and maintenance of previously implemented projects, impacts to interest groups or the community would have been considered during design and planning, and addressed before the implementation of each project.

These projects represent a continued commitment to environmental health and are a benefit to the natural spaces this community lives in and relies upon for resources, recreation, and intrinsic value.

Trout Unlimited provides valuable assistance to local landowners and land managers facing challenges with beavers and seeks coexistence solutions or relocates beaver to sites where they will provide valuable stream and habitat benefits and are not anticipated to create future challenges. In the event that relocated or naturally occurring beavers create issues for landowners or managers, TU responds quickly to address the concern. Beavers are primarily relocated from sites where they are in conflict with landowners (falling orchard trees, causing flooding, damming culverts, etc.), to sites high in watersheds, typically on public land, far from neighboring landowners.

The CRM provides multiple opportunities for the public and youth to be involved and also informed of our stream and streamside restoration efforts, including: WRI Birdfest tours, fall and spring tours, community

tabling events, Salmon Recovery Series with the NCW Library, social media campaigns for each organization, printed materials, the CCD quarterly newsletter to all Chelan County residents, direct outreach and education with youth such as Entiat, Wenatchee, and Leavenworth Schools (Kids in the Creek, Kids in the Forest, Kids in the Snow, field trips and hands-on learning at restoration sites, etc.). These events garner a large degree of community support and interest for our restoration projects.

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

Managing and maintaining the various projects will be the responsibility of Cascade Fisheries, Cascadia Conservation District, or Trout Unlimited, whichever organization is the lead on any given project site. Project components on both private and public lands are property of the landowner after implementation, but the lead organization for that project is responsible for maintaining the project components for a time period specified in the landowner agreement. Past the end of the project or landowner agreement, any further management and maintenance are dependent on landowner willingness, continued funding, and project needs. Landowner agreements generally define participation from the landowner for 10 years from the date the agreement was signed, to allow for the lead organization and permitting agencies to return to perform maintenance, monitor project performance, and evaluate project compliance with associated permits. The landowner cannot remove or alter project components during the life of the landowner agreement and is required to provide the landowner agreement as a sales contingency if selling the property that the project is on.

## **6. Are other projects being proposed immediately upstream or downstream of worksite?**

Yes

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

As this project focuses on stewardship and maintenance of previously implemented projects, the risk of failure would have been considered during design and planning, and addressed before the implementation of each project. There is little to no risk of failure for the projects included in this proposal, with regards to the actions that this project will perform.

This project's goal is to reduce the risk of failure of the projects included in this proposal, through the stewardship and maintenance of riparian planting sites and LTPBR structures as well as beaver relocation. This project ensures that the restoration efforts initiated in these projects achieve lasting ecological benefits and support the long-term health of these watersheds. Additionally, this project is designed to safeguard the original investment made in implementing these restoration efforts.

Beavers are wild animals and may move to other locations within release streams or watersheds after they are relocated. Regardless of where they choose to reside, relocated beavers will create habitat and restore degraded streams within Upper Columbia River watersheds. In the event that relocated or naturally occurring beavers create issues for landowners or managers, TU responds quickly to address the concern. TU monitors release sites post relocation and, if it is determined that beavers have not settled within one mile of the release site, that site becomes a viable candidate for future relocations, which will add genetic diversity to local beaver populations.

One of the important functions of the CRM is to provide a depth of staff and resources that span three organizations, each having their own unique skillsets, knowledge, experiences, relationships, tools, and other resources. No organization or agency is immune to loss of staff or funding, but as a CRM we have been able to successfully utilize the strengths and the redundancy of having multiple field crews, multiple staff with project management skills, and a robust level of relationships with community members. This has allowed us to nimbly adapt to unforeseen challenges at the individual project level as well as the grant funding and permitting levels. We work almost interchangeably on each other's projects, allowing us to overcome every challenge we've faced since the inception of the CRM in 2019. We likewise feel confident in our ability to meet future challenges, anticipated or not. From the perspective of the CRM, we consider this proposal to be of relatively low risk.

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

The stewardship and maintenance of riparian planting sites and LTPBR structures, as well as beaver coexistence and relocation, provide our organizations with valuable opportunities to engage the public through outreach events, educational opportunities, and site visits. By actively managing these sites, our organizations can host volunteer workdays, educational tours, and hands-on restoration activities, allowing community members, school groups, and other interest groups to participate directly in conservation efforts and contribute to their community. These projects serve as a platform for immersive environmental education lessons, where participants can learn about watershed health, habitat restoration, and the importance of beaver and riparian ecosystems in supporting salmon populations.

Additionally, restoration projects located on publicly owned properties create accessible spaces for the community to recreate, explore, and strengthen their connection to the local environment. As these areas are restored and maintained, they provide opportunities for hiking, wildlife observation, and other outdoor activities that encourage a deeper appreciation for nature. By fostering public involvement and demonstrating the long-term benefits of habitat restoration, these projects help build strong community support for salmon recovery efforts, cultivate environmental stewardship, and inspire continued investment in conservation initiatives.

Furthermore, these project sites serve as demonstration areas where prospective private landowners can observe the types of restoration projects our organizations can provide and the potential ecological and aesthetic benefits that could be realized on their properties. By seeing firsthand how these efforts enhance habitat, improve water quality, and support wildlife, landowners may be more inclined to partner with organizations like us to implement similar projects on their land, expanding the reach and impact of restoration initiatives.

Beavers are charismatic animals that capture the imagination of people young and old. The Wenatchee-Entiat Beaver Project acclimation facility at the Leavenworth National Fish Hatchery draws locals and tourists alike to view the animals as they are being held prior to release. There, they learn about beavers and their relationship to salmon recovery by interacting with Beaver Project staff and interpretive signage. TU conducts community outreach and landowner education through beaver coexistence efforts. Landowners are often eager to engage neighbors who are having conflicts with beavers, thus expanding the program's reach. This outreach and interest in beavers more generally provides opportunities to discuss the interrelated nature of beaver reintroduction and salmon recovery with a diverse array of community members.

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

This project presents a significant economic opportunity by supporting local organizations, creating jobs, enhancing property values, stimulating local businesses, preventing property or crop damage, and reducing long-term resource management costs. By financially supporting the local organizations leading this proposal (Cascade Fisheries, Cascadia Conservation District, and Trout Unlimited) this project ensures sustainability of restoration efforts while also funding full time staff and seasonal technician positions. These positions create opportunities for professionals to gain hands-on experience in natural resource management, fostering career growth and workforce development within the local economy.

Investing in the stewardship of riparian and restoration sites and addressing beaver conflicts on private, state, and federal lands benefits property owners by improving land values and alleviating management burdens. Healthy, well-maintained landscapes contribute to the renewal and sustainable use of natural resources, reducing long-term costs associated with land degradation. Additionally, this project stimulates the local economy by directing funds toward businesses such as native plant nurseries, hardware stores, and natural resource contractors, strengthening regional supply chains and supporting small businesses.

By integrating with forest health practices and wildfire fuels reduction, this project also plays a role in reducing the risks of wildfire and the smoke created from burn piles by using excess fuels such as trees, branches, and slash in restoration work. This contributes to the creation of green firebreaks, enhances water retention in the landscape, lowers future emergency response and recovery costs, and bolsters

economic activities that would otherwise be hindered by smoke. Additionally, maintaining native vegetation on restoration sites helps control the spread of invasive species, reducing the economic burden noxious weeds place on local agriculture and minimizing the costs associated with weed management programs.

Trout Unlimited provides valuable assistance to local landowners and land managers facing challenges with beavers. TU works with landowners and managers to provide free coexistence and live trapping services. Beavers are primarily relocated from sites where they are falling orchard trees, causing flooding, or damming culverts, among other impacts, potentially causing expensive damage, to sites where they can provide ecosystem benefits without conflicting with landowners. Additionally, TU has developed partnerships with Douglas Public Utility District's Wells Dam and the United States Department of Agriculture Animal and Plant Health Inspection Service Wildlife Services to expand relocation efforts through acquiring beavers trapped by these agencies for relocation to high priority sites. As such, this project turns a potential economic burden into a positive force for salmon habitat restoration.

Ultimately, this project maximizes the return on each dollar invested by ensuring that restoration efforts continue to provide ecological, economic, and community benefits. Through job creation, local business support, land value enhancement, and reduced long-term public and private expenditures, this project serves as a cost-effective and sustainable investment in our region's environmental and economic health.

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

The Coordinated Resource Management (CRM) group is a formal partnership between Cascade Fisheries, Cascadia Conservation District, and Trout Unlimited. Established in 2019, the CRM partners collaborate to leverage their unique resources, expertise, and opportunities in pursuit of shared missions and values, with a focus on salmon recovery in and around Chelan County. The group's mission is to create a network of healthy, connected tributaries that provide crucial habitat and climate refugia to native fish populations. These partners work closely to develop, plan, design, and implement salmon recovery projects throughout the region by employing LTPBR practices, fish barrier corrections, side-channel and floodplain reconnection projects, as well as beaver relocation and coexistence strategies. Thanks to support from the US Bureau of Reclamation, the CRM has been able to enhance and expand the ways this partnership benefits each organization's mission and increases their capacity to implement additional salmon recovery projects.

The CRM is further strengthened by its partnerships with various Federal and State agencies that collaborate on project development, design, planning, permitting, and implementation. These agencies include:

- Federal
  - o US Bureau of Reclamation
  - o US Forest Service
  - o US Fish and Wildlife Service
  - o National Resources and Conservation Service
  - o Bureau of Land Management
- State
  - o WA Department of Fish and Wildlife
  - o WA State Conservation Commission
  - o Department of Ecology
  - o Department of Natural Resources

The CRM collaborates closely with these agencies to ensure that the many projects we perform align with our shared goals of fish and wildlife recovery throughout the region. The support we receive from these partners takes many forms, including new project ideas, project funding, design review, consultation, permitting guidance, resource and equipment sharing, and even providing staff to help implement projects. The knowledge, expertise, and support exchanged between these sectors forge powerful connections that drive this important work forward. This collaborative network empowers us to produce higher-quality results at a faster pace, breaking down the silos that traditionally exist between organizations. Together, we are united in our mission to restore the precious natural resources we are dedicated to conserving, protecting, and restoring.

## 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: 25-1217 REST, CRM RIPARIAN STEWARDSHIP PACKAGE

Sponsor: Cascade Col Fish Enhance Group Program: Salmon State Riparian Status: Application Submitted

## Parties to the Agreement

### PRIMARY SPONSOR

Cascade Columbia Fisheries Enhancement Group

**Address** PO Box 3162

**City** Wenatchee **State** WA **Zip** 98807

**Org Type** Non-Gov-Reg Fisheries Enhance Group

**Vendor #** SWV0010742-00

**UBI**

**Date Org created**

**Org Notes**

[link to Organization profile](#)

Org data updated

### SECONDARY SPONSORS

Cascadia Conservation District

**Address** 1350 McKittrick St, Suite B

**City** Wenatchee **State** WA **Zip** 98801

**Org Type** District-Conservation

**Vendor #** SWV0024685-00

**UBI**

**Date Org created**

**Org Notes**

[link to Organization profile](#)

Org data updated

Trout Unlimited - Washington Water Project

**Address** 103 Palouse, Ste 14

**City** Wenatchee **State** WA **Zip** 98801

**Org Type** Non-Gov-Nonprofit

**Vendor #** SWV0050369-00

**UBI**

**Date Org created**

**Org Notes**

[link to Organization profile](#)

Org data updated

### QUESTIONS - SECONDARY SPONSOR

#1: What date was your organization created?

1959

#2: Is your organization registered as a non-profit with the Washington Secretary of State?

Yes

#2a: Please confirm the Unified Business Identifier (UBI) shown above is correct or provide if blank.

602 988 374

#3: How long has your organization been involved in salmon and habitat conservation?

>10 years

#4: Do your organizational documents (charter, bylaws, or articles of incorporation) include the authority for the protection or enhancement of natural resources or related activities?

Yes

# Project Application Report - 25-1217

#5: Do your organizational documents (charter, bylaws, or articles of incorporation) provide for an equivalent successor organization in case the nonprofit dissolves?

Yes

## 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.

The Coordinated Resource Management (CRM) group, a partnership between Cascade Fisheries, Cascadia Conservation District, and Trout Unlimited, submits this joint project to restore riparian and in-stream habitat across the Upper Columbia region. Each of these project partners is responsible for performing stewardship and maintenance at sites that they have previously implemented projects at, and will be the lead sponsor for their respective projects.

## External Systems

### SPONSOR ASSIGNED INFO

Sponsor-Assigned Project Number

Sponsor-Assigned Regions

### LINK AN EXISTING SRP PROJECT

Unlink

25-1217, CRM Riparian Stewardship Package, Salmon St:

## Project Contacts

Contact Name Primary Org	Project Role	Work Phone	Work Email
<u>Amee Bahr</u> Rec. and Conserv. Office	Project Manager	(360) 867-8585	<u>Amee.Bahr@rco.wa.gov</u>
<u>Phillip Klenke</u> Cascade Col Fish Enhance Group	Project Contact	(509) 670-7411	<u>phillip@ccfeg.org</u>
<u>Ariel Edwards</u> Upper Columbia Salmon Rcy Bd L	Lead Entity Contact	(208) 540-2691	<u>ariel.edwards@ucsr.org</u>
<u>Alexandra Harwell</u> Cascadia Conservation District	Secondary Sponsor Contact		<u>alexh@cascadiacd.org</u>
<u>Lisa Foster</u> Trout Unlimited Inc.	Secondary Sponsor Contact	(509) 888-0970	<u>lisa.foster@tu.org</u>

## Worksites & Properties

# Project Application Report - 25-1217

## # Worksite Name

#1 Alder Creek- Wenatchee River watershed

Restoration	Property Name
-------------	---------------

- |   |                                   |
|---|-----------------------------------|
| ✓ | Alder Creek downstream site- USFS |
| ✓ | Alder Creek upstream site- USFS   |

#2 Beaver Creek- Wenatchee River watershed

Restoration	Property Name
-------------	---------------

- |   |                                    |
|---|------------------------------------|
| ✓ | Beaver Creek site- USFS            |
| ✓ | South Fork Beaver Creek Site- USFS |

#3 Nason Creek- Wenatchee River watershed

Restoration	Property Name
-------------	---------------

- |   |                         |
|---|-------------------------|
| ✓ | Merrit Oxbow site- CDLT |
|---|-------------------------|

#4 Chumstick Creek- Wenatchee River watershed

Restoration	Property Name
-------------	---------------

- |   |                             |
|---|-----------------------------|
| ✓ | Chumstick Creek site- Jones |
|---|-----------------------------|

#5 Eagle Creek- Wenatchee River watershed

Restoration	Property Name
-------------	---------------

- |   |                            |
|---|----------------------------|
| ✓ | Eagle Creek site- Bosket   |
| ✓ | Eagle Creek site- Headrick |
| ✓ | Eagle Creek site- Hedeem   |
| ✓ | Eagle Creek site- Youkey   |

#6 Little Chumstick Creek- Wenatchee River watershed

Restoration	Property Name
-------------	---------------

- |   |                                      |
|---|--------------------------------------|
| ✓ | Little Chumstick Creek site- Conkle  |
| ✓ | Little Chumstick Creek site- Drew    |
| ✓ | Little Chumstick Creek site- Holte   |
| ✓ | Little Chumstick Creek site- O'Neill |

#7 Derby Creek- Wenatchee River watershed

Restoration	Property Name
-------------	---------------

- |   |                          |
|---|--------------------------|
| ✓ | Derby Creek site- DNR    |
| ✓ | Derby Creek site- Stroud |

#8 Peshastin Creek- Wenatchee River watershed

Restoration	Property Name
-------------	---------------

- |   |                            |
|---|----------------------------|
| ✓ | Lower Peshastin site- WDFW |
|---|----------------------------|

# Project Application Report - 25-1217

## # Worksite Name

Restoration	Property Name
-------------	---------------

✓	Peshastin 2.5 site- Mountain Valley Acre
---	--

## #9 Goodwin Side Channel- Wenatchee River watershed

Restoration	Property Name
-------------	---------------

✓	Goodwin Side Channel site- WA DOT
---	-----------------------------------

## #10 Roaring Creek- Entiat River watershed

Restoration	Property Name
-------------	---------------

✓	Roaring Creek downstream site- USFS
---	-------------------------------------

✓	Roaring Creek upstream site- USFS
---	-----------------------------------

## #11 Potato Creek- Entiat River watershed

Restoration	Property Name
-------------	---------------

✓	Potato Creek site- USFS
---	-------------------------

## #12 Stormy Creek- Entiat River watershed

Restoration	Property Name
-------------	---------------

✓	Stormy Creek site- CDLT
---	-------------------------

## #13 Rock Island Creek- Columbia River tributary

Restoration	Property Name
-------------	---------------

✓	Rock Island Creek site- Bow Knot Bar
---	--------------------------------------

✓	Rock Island Creek site- Breiler
---	---------------------------------

✓	Rock Island Creek site- DNR
---	-----------------------------

✓	Rock Island Creek site- Kane
---	------------------------------

## #14 Douglas Creek- Columbia River Tributary

Restoration	Property Name
-------------	---------------

✓	Duffy Creek site- BLM
---	-----------------------

## #15 Beaver Relocation and Holding Facility

Restoration	Property Name
-------------	---------------

✓	Leavenworth National Fish Hatchery
---	------------------------------------

## Worksite Map & Description

### Worksite #1: Alder Creek- Wenatchee River watershed

#### WORKSITE ADDRESS

# Project Application Report - 25-1217

**Street Address** 128 ALDER CREEK TIE FS 6200-200 R

**City, State, Zip** Lake Wenatchee WA 98826

## Worksite #2: Beaver Creek- Wenatchee River watershed

### WORKSITE ADDRESS

**Street Address** UNASSIGNED

**City, State, Zip** Leavenworth WA 98826

## Worksite #3: Nason Creek- Wenatchee River watershed

### WORKSITE ADDRESS

**Street Address** 18675 US HWY 2

**City, State, Zip** Lake Wenatchee WA 98826

## Worksite #4: Chumstick Creek- Wenatchee River watershed

### WORKSITE ADDRESS

**Street Address** 25 SYLVESTER MEADOWS LN

**City, State, Zip** Leavenworth WA 98826

## Worksite #5: Eagle Creek- Wenatchee River watershed

### WORKSITE ADDRESS

**Street Address** 11025 EAGLE CREEK RD

**City, State, Zip** Leavenworth WA 98826

## Worksite #6: Little Chumstick Creek- Wenatchee River watershed

### WORKSITE ADDRESS

**Street Address** 16520 CHUMSTICK HWY

**City, State, Zip** Leavenworth WA 98826

## Worksite #7: Derby Creek- Wenatchee River watershed

### WORKSITE ADDRESS

**Street Address** UNASSIGNED

**City, State, Zip** Peshastin WA 98847

## Worksite #8: Peshastin Creek- Wenatchee River watershed

### WORKSITE ADDRESS

**Street Address** UNASSIGNED

**City, State, Zip** Dryden WA 98826

## Worksite #9: Goodwin Side Channel- Wenatchee River watershed

### WORKSITE ADDRESS

**Street Address** UNASSIGNED

**City, State, Zip** Cashmere WA 98815

## Worksite #10: Roaring Creek- Entiat River watershed

### WORKSITE ADDRESS

**Street Address** UNASSIGNED

**City, State, Zip** Entiat WA 98822

## Worksite #11: Potato Creek- Entiat River watershed

### WORKSITE ADDRESS

**Street Address** UNASSIGNED

**City, State, Zip** Entiat WA 98822

## Worksite #12: Stormy Creek- Entiat River watershed

### WORKSITE ADDRESS

**Street Address** UNASSIGNED

**City, State, Zip** Entiat WA 98822

## Worksite #13: Rock Island Creek- Columbia River tributary

### WORKSITE ADDRESS

# Project Application Report - 25-1217

**Street Address** Multiple  
**City, State, Zip** East Wenatchee WA 98802

## Worksite #14: Douglas Creek- Columbia River Tributary

### WORKSITE ADDRESS

**Street Address** UNASSIGNED  
**City, State, Zip** Rock Island WA 98850

## Worksite #15: Beaver Relocation and Holding Facility

### WORKSITE ADDRESS

**Street Address** 12790 FISH HATCHERY RD  
**City, State, Zip** Leavenworth WA 98826

## Worksite Details

### Worksite #1: Alder Creek- Wenatchee River watershed

#### SITE ACCESS DIRECTIONS

#### TARGETED ESU SPECIES

Species by ESU	Egg Present	Juvenile Present	Adult Present	Population Trend
Steelhead-Upper Columbia River, Wenatchee River, Threatened		✓		
Chinook-Upper Columbia River Spring, Wenatchee River, Endangered		✓		

#### Reference or source used

UCSRB IP Layers, Upper Wenatchee Pilot Project: Aquatic Habitat Assessment and Restoration Strategy Report (2019)

#### TARGETED NON-ESU SPECIES

Species by Non-ESU	Notes
Rainbow	

#### Questions

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

128 ALDER CREEK TIE FS 6200-200 RD LAKE WENATCHEE, WA 98826

### Worksite #2: Beaver Creek- Wenatchee River watershed

#### SITE ACCESS DIRECTIONS

# Project Application Report - 25-1217

**TARGETED ESU SPECIES**

Species by ESU	Egg Present	Juvenile Present	Adult Present	Population Trend
Steelhead-Upper Columbia River, Wenatchee River, Threatened		✓		

**Reference or source used**

UCSRB IP Layers

**TARGETED NON-ESU SPECIES**

Species by Non-ESU	Notes
Rainbow	

**Questions**

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

47.781495 -120.595298

**Worksite #3: Nason Creek- Wenatchee River watershed**

**SITE ACCESS DIRECTIONS**

**TARGETED ESU SPECIES**

Species by ESU	Egg Present	Juvenile Present	Adult Present	Population Trend
Steelhead-Upper Columbia River, Wenatchee River, Threatened	✓	✓	✓	Declining
Chinook-Upper Columbia River Spring, Wenatchee River, Endangered	✓	✓	✓	Declining

**Reference or source used**

UCSRB IP Layers, NOAA 2022 Status Review

**TARGETED NON-ESU SPECIES**

Species by Non-ESU	Notes
Rainbow	

**Questions**

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

18675 US HWY 2 LAKE WENATCHEE, WA 98826

**Worksite #4: Chumstick Creek- Wenatchee River watershed**

**SITE ACCESS DIRECTIONS**

# Project Application Report - 25-1217

## TARGETED ESU SPECIES

Species by ESU	Egg Present	Juvenile Present	Adult Present	Population Trend
Steelhead-Upper Columbia River, Wenatchee River, Threatened		✓		
Chinook-Upper Columbia River Spring, Wenatchee River, Endangered		✓		

### Reference or source used

UCSRB IP Layers

## TARGETED NON-ESU SPECIES

Species by Non-ESU	Notes
Rainbow	

### Questions

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

25 SYLVESTER MEADOWS LN LEAVENWORTH, WA 98826

## Worksite #5: Eagle Creek- Wenatchee River watershed

### SITE ACCESS DIRECTIONS

## TARGETED ESU SPECIES

Species by ESU	Egg Present	Juvenile Present	Adult Present	Population Trend
Steelhead-Upper Columbia River, Wenatchee River, Threatened		✓		
Chinook-Upper Columbia River Spring, Wenatchee River, Endangered		✓		

### Reference or source used

UCSRB IP Layers

## TARGETED NON-ESU SPECIES

Species by Non-ESU	Notes
Rainbow	

### Questions

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

11025 EAGLE CREEK RD LEAVENWORTH, WA 98826

## Worksite #6: Little Chumstick Creek- Wenatchee River watershed

# Project Application Report - 25-1217

## SITE ACCESS DIRECTIONS

### TARGETED ESU SPECIES

Species by ESU	Egg Present	Juvenile Present	Adult Present	Population Trend
Steelhead-Upper Columbia River, Wenatchee River, Threatened		✓		

### Reference or source used

UCSRB IP Layers

### TARGETED NON-ESU SPECIES

Species by Non-ESU	Notes
Rainbow	

### Questions

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

16520 CHUMSTICK HWY LEAVENWORTH, WA 98826

## Worksite #7: Derby Creek- Wenatchee River watershed

### SITE ACCESS DIRECTIONS

### TARGETED ESU SPECIES

Species by ESU	Egg Present	Juvenile Present	Adult Present	Population Trend
Steelhead-Upper Columbia River, Wenatchee River, Threatened		✓		

### Reference or source used

UCSRB IP Layers

### TARGETED NON-ESU SPECIES

Species by Non-ESU	Notes
Rainbow	

### Questions

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

6905 DERBY CANYON RD PESHASTIN, WA 98847

## Worksite #8: Peshastin Creek- Wenatchee River watershed

# Project Application Report - 25-1217

**SITE ACCESS DIRECTIONS**

**TARGETED ESU SPECIES**

Species by ESU	Egg Present	Juvenile Present	Adult Present	Population Trend
Steelhead-Upper Columbia River, Wenatchee River, Threatened		✓		Declining
Chinook-Upper Columbia River Spring, Wenatchee River, Endangered		✓		Declining

**Reference or source used**

UCSRB IP Layers, NOAA 2022 Status Review

**TARGETED NON-ESU SPECIES**

Species by Non-ESU	Notes
Rainbow	

**Questions**

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

47.557168 -120.577467

**Worksite #9: Goodwin Side Channel- Wenatchee River watershed**

**SITE ACCESS DIRECTIONS**

Need to park on North side of Hwy 2 near Hay Canyon Rd, and use pedestrian crossing to cross Hwy 2 to the south side of the road. Then walk west along the south side of Hwy 2 for 0.4 miles, and the site is down the hill between the Hwy and the Wenatchee River.

**TARGETED ESU SPECIES**

Species by ESU	Egg Present	Juvenile Present	Adult Present	Population Trend
Steelhead-Upper Columbia River, Wenatchee River, Threatened		✓		Declining
Chinook-Upper Columbia River Spring, Wenatchee River, Endangered		✓		Declining

**Reference or source used**

UCSRB IP Layers, NOAA 2022 Status Review

**TARGETED NON-ESU SPECIES**

Species by Non-ESU	Notes
Rainbow	

**Questions**

# Project Application Report - 25-1217

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

47.528268 -120.491682

## Worksite #10: Roaring Creek- Entiat River watershed

### SITE ACCESS DIRECTIONS

### TARGETED ESU SPECIES

Species by ESU	Egg Present	Juvenile Present	Adult Present	Population Trend
Steelhead-Upper Columbia River, Entiat River, Threatened		✓		
Chinook-Upper Columbia River Spring, Entiat River, Endangered		✓		

### Reference or source used

UCSRB IP Layers

### TARGETED NON-ESU SPECIES

Species by Non-ESU	Notes
Rainbow	

### Questions

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

47.685875 -120.349269

## Worksite #11: Potato Creek- Entiat River watershed

### SITE ACCESS DIRECTIONS

### TARGETED ESU SPECIES

Species by ESU	Egg Present	Juvenile Present	Adult Present	Population Trend
Steelhead-Upper Columbia River, Entiat River, Threatened		✓		

### Reference or source used

UCSRB IP Layers

### TARGETED NON-ESU SPECIES

Species by Non-ESU	Notes
Rainbow	

# Project Application Report - 25-1217

## Questions

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

47.796104 -120.380376

## Worksite #12: Stormy Creek- Entiat River watershed

### SITE ACCESS DIRECTIONS

### TARGETED ESU SPECIES

Species by ESU	Egg Present	Juvenile Present	Adult Present	Population Trend
Steelhead-Upper Columbia River, Entiat River, Threatened		✓		

### Reference or source used

UCSRB IP Layers

### TARGETED NON-ESU SPECIES

Species by Non-ESU	Notes
Rainbow	

## Questions

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

47.821637 -120.421286

## Worksite #13: Rock Island Creek- Columbia River tributary

### SITE ACCESS DIRECTIONS

From East Wenatchee, drive up Badger Mountain Rd heading east for 11.5 miles. Turn right onto Rd S SW for 1.1 miles. Worksite is on the left side of the road. Follow trail down to Rock Island creek at 47.50891, -120.130666

### TARGETED ESU SPECIES

Species by ESU	Egg Present	Juvenile Present	Adult Present	Population Trend
Steelhead-Upper Columbia River, Wenatchee River, Threatened		✓		

### Reference or source used

UCSRB IP Layers

### TARGETED NON-ESU SPECIES

Species by Non-ESU	Notes
Rainbow	

# Project Application Report - 25-1217

## Questions

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

47.50891 -120.130666

## Worksite #14: Douglas Creek- Columbia River Tributary

### SITE ACCESS DIRECTIONS

### TARGETED ESU SPECIES

Species by ESU                      Egg Present    Juvenile Present    Adult Present    Population Trend

No Salmon ESU or Steelhead DPS

### Reference or source used

### TARGETED NON-ESU SPECIES

Species by Non-ESU    Notes

Rainbow

## Questions

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

47.50096 -120.04178

## Worksite #15: Beaver Relocation and Holding Facility

### SITE ACCESS DIRECTIONS

### TARGETED ESU SPECIES

Species by ESU                      Egg Present    Juvenile Present    Adult Present    Population Trend

Steelhead-Upper Columbia River,  
Wenatchee River, Threatened

### Reference or source used

### TARGETED NON-ESU SPECIES

Species by Non-ESU    Notes

Rainbow

## Questions

# Project Application Report - 25-1217

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

12790 Fish Hatchery Rd, Leavenworth, WA 98826

## Project Location

### RELATED PROJECTS

#### Projects in PRISM

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

#### Related Project Notes

### 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 28 projects included in this project package are all within the Upper Columbia region, taking place in both Chelan and Douglas counties. Four projects are located in larger river/creek systems including the Wenatchee River mainstem, Peshastin Creek, and Nason Creek. While 24 project sites are located in smaller, lower order streams that are tributaries to the Wenatchee, Entiat and Columbia rivers. The Wenatchee River mainstem project (Goodwin Side Channel) is the only project that focuses solely on off-channel habitat restoration, while the rest of the projects contain varying degrees of channel and off-channel habitat restoration. These projects occur at different locations within their respective watersheds, with many projects occurring in multiple places within the same watershed.

## Project Application Report - 25-1217

#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 UCSRB Prioritization Web Map indicates that out of the 28 project sites included in this proposal, only 12 project sites have associated reaches that have been defined. Out of these 12 projects (covering 14 reaches), only 5 reaches have had the necessary information collected to allocate priority rankings for restoration on the UCSRB prioritization list. These five reaches are: Nason Creek Lower 10 (Rank 1), Peshastin Creek Lower 01 (Rank 1), Peshastin Creek Lower 03 (Rank 2), Wenatchee River Ollalla 01 (Rank 3), and Chumstick Creek 02 (awaiting rank). Though there are no defined ranks associated with the majority of the project sites included within this proposal, these projects still provide multiple essential benefits to the region's priority species at multiple life stages within these systems, and extend to downstream systems and their associated life stages. These projects were originally identified by the CRM group to address the limiting factors that exist within our priority species' habitats, supported by funding from various partners, and have been implemented by the CRM partners utilizing process-based restoration techniques (primarily LTPBR methods) and riparian restoration.

The shared limiting factors that all of these projects address are:

- Riparian-Canopy Cover
- Riparian Disturbance
- Temperature-Rearing
- Temperature-Adult Spawning
- Temperature- Adult Holding
- Flow-Summer Base Flow
- Cover-wood
- Pool Quantity and Quality
- Off-Channel & Side-Channels
- Percent Fines and Embeddedness
- Bank and Channel Stability

The shared priority actions that all of these projects address are:

- Riparian Restoration and Management
- Water Quality Improvement
- Instream Flow Enhancement
- Floodplain Reconnection
- Fine Sediment Management
- Side Channel and Off-Channel Habitat Restoration
- Bank Restoration
- Channel Complexity Restoration

The overarching goal of this proposal is to restore riparian communities through continued stewardship, and to restore structure to tributary streams through the maintenance of LTPBR actions,

and the reintroduction of beavers, addressing the many forms of habitat degradation in WRIAs 45, 46, and 44.

The restoration projects included in this proposal provide freshwater benefit in these systems, with regards to the way that riparian planting, LTPBR, and beaver reintroduction projects address the historic loss of habitat and habitat forming processes; improving the survival, capacity, and distribution of the region's native fish species.

#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

Property: Alder Creek downstream site- USFS (Worksite #1: Alder Creek- Wenatchee River watershed)

✓ Restoration

# Project Application Report - 25-1217

## LANDOWNER

Name United States Forest Service  
Address 128 ALDER CREEK TIE FS 6200-200 RC  
City Lake Wenatchee  
State WA Zip 98826  
Type Federal

## CONTROL & TENURE

Instrument Type Landowner Agreement  
Timing Existing  
Term Length Fixed # of years  
# Yrs 5  
Expiration Date 05/05/2027  
Note

Landowner Agreement was originally intended for the implementation of the project, but a new agreement will be made after expiration for site stewardship of the project.

### Property: Alder Creek upstream site- USFS (Worksite #1: Alder Creek- Wenatchee River watershed)

✓Restoration

## LANDOWNER

Name United States Forest Service  
Address UNASSIGNED  
City Leavenworth  
State WA Zip 98826  
Type Federal

## CONTROL & TENURE

Instrument Type Landowner Agreement  
Timing Existing  
Term Length Fixed # of years  
# Yrs 5  
Expiration Date 05/05/2027  
Note

Landowner Agreement was originally intended for the implementation of the project, but a new agreement will be made after expiration for site stewardship of the project.

### Property: Beaver Creek site- USFS (Worksite #2: Beaver Creek- Wenatchee River watershed)

✓Restoration

## LANDOWNER

Name United States Forest Service  
Address UNASSIGNED  
City Leavenworth  
State WA Zip 98826  
Type Federal

## CONTROL & TENURE

Instrument Type Landowner Agreement  
Timing Existing  
Term Length Fixed # of years  
# Yrs 5  
Expiration Date 05/05/2027  
Note

Landowner Agreement was originally intended for the implementation of the project, but a new agreement will be made after expiration for site stewardship of the project.

### Property: South Fork Beaver Creek Site- USFS (Worksite #2: Beaver Creek- Wenatchee River watershed)

✓Restoration

## LANDOWNER

Name United States Forest Service  
Address UNASSIGNED  
City Leavenworth  
State WA Zip 98826  
Type Federal

## CONTROL & TENURE

Instrument Type Landowner Agreement  
Timing Existing  
Term Length Fixed # of years  
# Yrs 5  
Expiration Date 01/01/2026  
Note

Landowner Agreement was originally intended for the implementation of the project, but a new agreement will be made after expiration for site

# Project Application Report - 25-1217

stewardship of the project.

## Property: Merrit Oxbow site- CDLT (Worksite #3: Nason Creek- Wenatchee River watershed)

✓Restoration

### LANDOWNER

Name Chelan-Douglas Land Trust  
Address 18675 US HWY 2  
City Lake Wenatchee  
State WA Zip 98826  
Type Private

### CONTROL & TENURE

Instrument Type Landowner Agreement  
Timing Existing  
Term Length Fixed # of years  
# Yrs 10  
Expiration Date 12/31/2032  
Note

## Property: Chumstick Creek site- Jones (Worksite #4: Chumstick Creek- Wenatchee River watershed)

✓Restoration

### LANDOWNER

Name HESS SUMMER N & JONES MATTHEW  
Address 25 SYLVESTER MEADOWS LN  
City Leavenworth  
State WA Zip 98826  
Type Private

### CONTROL & TENURE

Instrument Type Landowner Agreement  
Timing Existing  
Term Length Fixed # of years  
# Yrs 10  
Expiration Date 12/31/2034  
Note

## Property: Eagle Creek site- Bosket (Worksite #5: Eagle Creek- Wenatchee River watershed)

✓Restoration

### LANDOWNER

Name BOSKET VINCENT N ETAL  
Address 11025 EAGLE CREEK RD  
City Leavenworth  
State WA Zip 98826  
Type Private

### CONTROL & TENURE

Instrument Type Landowner Agreement  
Timing Existing  
Term Length Fixed # of years  
# Yrs 10  
Expiration Date 12/31/2033  
Note

## Property: Eagle Creek site- Headrick (Worksite #5: Eagle Creek- Wenatchee River watershed)

✓Restoration

### LANDOWNER

Name HEADRICK TODD R & JENNIFER L TRU:  
Address 9247 EAGLE CREEK RD  
City Leavenworth  
State WA Zip 98826  
Type Private

### CONTROL & TENURE

Instrument Type Landowner Agreement  
Timing Existing  
Term Length Fixed # of years  
# Yrs 10  
Expiration Date 12/31/2034  
Note

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## Property: Eagle Creek site- Hedeem (Worksite #5: Eagle Creek- Wenatchee River watershed)

✓Restoration

### LANDOWNER

Name HEDEEN PAUL F & KNAPP ROSEMARY  
Address 9425 EAGLE CREEK RD  
City Leavenworth  
State WA Zip 98826  
Type Private

### CONTROL & TENURE

Instrument Type Landowner Agreement  
Timing Existing  
Term Length Fixed # of years  
# Yrs 10  
Expiration Date 12/31/2033  
Note

## Property: Eagle Creek site- Youkey (Worksite #5: Eagle Creek- Wenatchee River watershed)

✓Restoration

### LANDOWNER

Name YOUKEY DONALD & KARI  
Address 15 ADLER BACK LN  
City Leavenworth  
State WA Zip 98826  
Type Private

### CONTROL & TENURE

Instrument Type Landowner Agreement  
Timing Existing  
Term Length Fixed # of years  
# Yrs 10  
Expiration Date 12/31/2033  
Note

## Property: Little Chumstick Creek site- Conkle (Worksite #6: Little Chumstick Creek- Wenatchee River watershed)

✓Restoration

### LANDOWNER

Name CONKLE MICHAEL H & KAREN D MATA  
Address 16520 CHUMSTICK HWY  
City Leavenworth  
State WA Zip 98826  
Type Private

### CONTROL & TENURE

Instrument Type Landowner Agreement  
Timing Existing  
Term Length Fixed # of years  
# Yrs 10  
Expiration Date 12/31/2033  
Note

## Property: Little Chumstick Creek site- Drew (Worksite #6: Little Chumstick Creek- Wenatchee River watershed)

✓Restoration

### LANDOWNER

Name DREW DOUGLAS R & KATHRYN A REV  
Address 41 STARGAZER LN  
City Leavenworth  
State WA Zip 98826  
Type Private

### CONTROL & TENURE

Instrument Type Landowner Agreement  
Timing Existing  
Term Length Fixed # of years  
# Yrs 10  
Expiration Date 12/31/2033  
Note

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## Property: Little Chumstick Creek site- Holte (Worksite #6: Little Chumstick Creek- Wenatchee River watershed)

✓Restoration

### LANDOWNER

Name HARWELL ALEXANDRA & KEVIN HOLTI  
Address 16982 CHUMSTICK HWY  
City Leavenworth  
State WA Zip 98826  
Type Private

### CONTROL & TENURE

Instrument Type Landowner Agreement  
Timing Existing  
Term Length Fixed # of years  
# Yrs 10  
Expiration Date 12/31/2033  
Note

## Property: Little Chumstick Creek site- O'Neill (Worksite #6: Little Chumstick Creek- Wenatchee River watershed)

✓Restoration

### LANDOWNER

Name O NEILL JULIA A  
Address 16970 CHUMSTICK HWY  
City Leavenworth  
State WA Zip 98826  
Type Private

### CONTROL & TENURE

Instrument Type Landowner Agreement  
Timing Existing  
Term Length Fixed # of years  
# Yrs 10  
Expiration Date 12/31/2033  
Note

## Property: Derby Creek site- DNR (Worksite #7: Derby Creek- Wenatchee River watershed)

✓Restoration

### LANDOWNER

Name WA Department of Natural Resources  
Address UNASSIGNED  
City Peshastin  
State WA Zip 98847  
Type State

### CONTROL & TENURE

Instrument Type Landowner Agreement  
Timing Existing  
Term Length Fixed # of years  
# Yrs 10  
Expiration Date 12/31/2035  
Note

## Property: Derby Creek site- Stroud (Worksite #7: Derby Creek- Wenatchee River watershed)

✓Restoration

### LANDOWNER

Name STROUD III WILLIAM G  
Address 6905 DERBY CANYON RD  
City Peshastin  
State WA Zip 98847  
Type Private

### CONTROL & TENURE

Instrument Type Landowner Agreement  
Timing Existing  
Term Length Fixed # of years  
# Yrs 10  
Expiration Date 12/31/2035

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Note

## Property: Lower Peshastin site- WDFW (Worksite #8: Peshastin Creek- Wenatchee River watershed)

✓Restoration

### LANDOWNER

Name WA Department of Fish and Wildlife  
Address UNASSIGNED  
City Dryden  
State WA Zip 98821  
Type State

### CONTROL & TENURE

Instrument Type Landowner Agreement  
Timing Existing  
Term Length Fixed # of years  
# Yrs 20  
Expiration Date 12/31/2045  
Note

## Property: Peshastin 2.5 site- Mountain Valley Acre (Worksite #8: Peshastin Creek- Wenatchee River watershed)

✓Restoration

### LANDOWNER

Name MOUNTAIN VALLEY ACRES LLC  
Address UNASSIGNED  
City Peshastin  
State WA Zip 98847  
Type Private

### CONTROL & TENURE

Instrument Type Landowner Agreement  
Timing Existing  
Term Length Fixed # of years  
# Yrs 10  
Expiration Date 12/31/2026  
Note

Landowner Agreement was originally intended for the implementation of the project, but a new agreement will be made after expiration for site stewardship of the project.

## Property: Goodwin Side Channel site- WA DOT (Worksite #9: Goodwin Side Channel- Wenatchee River watershed)

✓Restoration

### LANDOWNER

Name WA Department of Natural Resources  
Address UNASSIGNED  
City Cashmere  
State WA Zip 98815  
Type State

### CONTROL & TENURE

Instrument Type Landowner Agreement  
Timing Existing  
Term Length Fixed # of years  
# Yrs 3  
Expiration Date 12/31/2029  
Note

## Property: Roaring Creek downstream site- USFS (Worksite #10: Roaring Creek- Entiat River watershed)

✓Restoration

### LANDOWNER

Name United States Forest Service  
Address UNASSIGNED  
City Entiat

### CONTROL & TENURE

Instrument Type Landowner Agreement  
Timing Existing  
Term Length Fixed # of years

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State WA Zip 98822  
Type Federal

# Yrs 3  
Expiration Date 01/01/2028  
Note

Landowner Agreement was originally intended for the implementation of the project, but a new agreement will be made after expiration for site stewardship of the project.

## Property: Roaring Creek upstream site- USFS (Worksite #10: Roaring Creek- Entiat River watershed)

✓Restoration

### LANDOWNER

Name United States Forest Service  
Address UNASIGNED  
City Entiat  
State WA Zip 98822  
Type Federal

### CONTROL & TENURE

Instrument Type Landowner Agreement  
Timing Existing  
Term Length Fixed # of years  
# Yrs 3  
Expiration Date 01/01/2028  
Note

Landowner Agreement was originally intended for the implementation of the project, but a new agreement will be made after expiration for site stewardship of the project.

## Property: Potato Creek site- USFS (Worksite #11: Potato Creek- Entiat River watershed)

✓Restoration

### LANDOWNER

Name United States Forest Service  
Address UNASIGNED  
City Entiat  
State WA Zip 98822  
Type Federal

### CONTROL & TENURE

Instrument Type Landowner Agreement  
Timing Existing  
Term Length Fixed # of years  
# Yrs 5  
Expiration Date 05/14/2027  
Note

Landowner Agreement was originally intended for the implementation of the project, but a new agreement will be made after expiration for site stewardship of the project.

## Property: Stormy Creek site- CDLT (Worksite #12: Stormy Creek- Entiat River watershed)

✓Restoration

### LANDOWNER

Name Chelan-Douglas Land Trust  
Address UNASIGNED  
City Entiat  
State WA Zip 98822  
Type Federal

### CONTROL & TENURE

Instrument Type Landowner Agreement  
Timing Existing  
Term Length Fixed # of years  
# Yrs 10  
Expiration Date 04/26/2033  
Note

## Property: Rock Island Creek site- Bow Knot Bar (Worksite #13: Rock Island Creek- Columbia River tributary)

✓Restoration

# Project Application Report - 25-1217

## LANDOWNER

Name BOW KNOT BAR HOMESTEAD LLC  
Address UNASSIGNED  
City East Wenatchee  
State WA Zip 98802  
Type Private

## CONTROL & TENURE

Instrument Type Landowner Agreement  
Timing Existing  
Term Length Fixed # of years  
# Yrs 5  
Expiration Date 08/25/2029  
Note

### Property: Rock Island Creek site- Breiler (Worksite #13: Rock Island Creek- Columbia River tributary)

✓ Restoration

## LANDOWNER

Name BREILER, DUANE KEITH  
Address UNASSIGNED  
City East Wenatchee  
State WA Zip 98802  
Type Private

## CONTROL & TENURE

Instrument Type Landowner Agreement  
Timing Existing  
Term Length Fixed # of years  
# Yrs 5  
Expiration Date 08/25/2029  
Note

### Property: Rock Island Creek site- DNR (Worksite #13: Rock Island Creek- Columbia River tributary)

✓ Restoration

## LANDOWNER

Name WA Department of Natural Resources  
Address UNASSIGNED  
City East Wenatchee  
State WA Zip 98802  
Type Private

## CONTROL & TENURE

Instrument Type Landowner Agreement  
Timing Existing  
Term Length Fixed # of years  
# Yrs 5  
Expiration Date 08/25/2029  
Note

### Property: Rock Island Creek site- Kane (Worksite #13: Rock Island Creek- Columbia River tributary)

✓ Restoration

## LANDOWNER

Name KANE, SCOTT M & SHEILA G  
Address UNASSIGNED  
City East Wenatchee  
State WA Zip 98802  
Type Private

## CONTROL & TENURE

Instrument Type Landowner Agreement  
Timing Existing  
Term Length Fixed # of years  
# Yrs 5  
Expiration Date 08/25/2029  
Note

### Property: Duffy Creek site- BLM (Worksite #14: Douglas Creek- Columbia River Tributary)

✓ Restoration

# Project Application Report - 25-1217

## LANDOWNER

Name United States Bureau of Land Management  
Address UNASIGNED  
City Rock Island  
State WA Zip 98850  
Type Federal

## CONTROL & TENURE

Instrument Type Landowner Agreement  
Timing Existing  
Term Length Fixed # of years  
# Yrs 1  
Expiration Date 08/15/2026  
Note

Landowner Agreement was originally intended for the implementation of the project, but a new agreement will be made after expiration for site stewardship of the project.

## Property: Leavenworth National Fish Hatchery (Worksite #15: Beaver Relocation and Holding Facility)

✓ Restoration

## LANDOWNER

Name United States Fish and Wildlife Service  
Address 12790 FISH HATCHERY RD  
City Leavenworth  
State WA Zip 98826  
Type Federal

## CONTROL & TENURE

Instrument Type Landowner Agreement  
Timing Existing  
Term Length Fixed # of years  
# Yrs 10  
Expiration Date 12/31/2035  
Note

## Project Proposal

### Project Description

The Coordinated Resource Management (CRM) group, a partnership between Cascade Fisheries, Cascadia Conservation District, and Trout Unlimited, submits this joint proposal to restore riparian and in-stream habitat across the Upper Columbia region. This proposal focuses on the stewardship of riparian and in-stream habitat restoration efforts by the CRM across 28 project sites in the Wenatchee and Entiat River watersheds, as well as in two tributaries of the Columbia River. The primary goals are to improve the success and rate of riparian habitat establishment (over >21 acres) and to enhance the development of normative stream processes and functions (over >11 miles), promoting self-sustaining ecosystems. To achieve these goals, this project will focus on managing invasive plant species and noxious weeds, replacing unsuccessful plantings, increasing groundwater availability through in-stream structures, and supplementing sites with irrigation water as needed. Additionally, efforts will be directed toward improving the effectiveness and longevity of low-tech process-based restoration (LTPBR) in-stream habitat structures, such as Beaver Dam Analogs (BDAs) and Post-Assisted Log Structures (PALS), through annual maintenance, monitoring system response, and adaptive management based on observed responses. Also, Trout Unlimited will work with landowners and public agencies to live-trap and relocate nuisance beavers to streams where they can create and restore quality salmonid habitat.

### Project Questions

## Project Application Report - 25-1217

#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 addresses persistent and widespread habitat degradation within the Wenatchee, Entiat, and Upper Columbia River watersheds (WRIAs 45, 46, and 44), which has significantly impacted native salmonid populations and broader aquatic ecosystems. These watersheds support ESA-listed steelhead (*Oncorhynchus mykiss*), spring Chinook (*O. tshawytscha*), bull trout (*Salvelinus confluentus*), and other sensitive species like Pacific lamprey (*Entosphenus tridentatus*) and Westslope cutthroat trout (*Oncorhynchus clarkii lewisi*). Coho salmon (*Oncorhynchus kisutch*), a reintroduced species of cultural importance to both the Yakama Nation and the Colville Confederated Tribes, and sockeye salmon (*Oncorhynchus nerka*), are also present in the Wenatchee watershed.

The core problem is the deterioration of natural stream processes and functions due to historic and ongoing stressors. Historic land use, including logging, roadbuilding, agriculture, and water diversion, has led to channel incision, floodplain disconnection, degraded riparian zones, and simplified in-stream habitats. These changes have reduced groundwater recharge, lowered baseflows, increased stream temperatures, and escalated sediment and nutrient transport from headwaters, especially following disturbance events.

Current restoration investments have disproportionately focused on mainstem and side-channel habitats. Comparatively little funding reaches upstream areas, where many root causes originate. Many upper watershed, low-order streams—especially within the upper extent of the active anadromous zone—remain highly degraded. These upstream reaches are vital to early life stages of salmonids, but suffer from incised channels, low habitat complexity, and poor riparian cover. The legacy of these conditions continues to reduce spawning success, limit juvenile rearing habitat, and disrupt seasonal flows critical to salmon survival across all life stages.

At the site level, the 28 project areas fall across 10 assessment units, spanning public and private lands. While only 5 of 14 defined reaches in this proposal have UCSRB restoration priority rankings, all sites address known ecological limitations. These include high water temperatures, reduced shading and large wood recruitment, lack of pool and refugia habitat, and poor sediment quality for egg incubation. Many of these problems are compounded by invasive species, degraded riparian vegetation, and the absence of beavers, which historically played a critical role in maintaining stream complexity and hydrologic stability.

The scale of the problem is both broad and foundational—affecting stream processes, water retention, habitat availability, and biological function across entire watersheds. The proposed work, therefore, targets the sources of degradation rather than its downstream symptoms.

The project's integrated approach—riparian stewardship, invasive species control, LTPBR structure maintenance (BDAs and PALS), and beaver reintroduction—directly supports the return of normative stream functions. These functions include floodplain reconnection, stream temperature regulation, sediment retention, baseflow enhancement, and channel complexity.

By restoring the biological, geomorphic, and hydrologic processes defined in Castro & Thorne's "stream evolutionary model" (2019), this project addresses both immediate habitat needs and long-term watershed resilience.

In sum, the project responds to the urgent need for strategic stewardship in critical upper watershed zones to reverse decades of degradation, improve survival and distribution of salmonids, and support long-term ecosystem recovery.

## Project Application Report - 25-1217

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

This project addresses critical limiting factors and ecological concerns affecting native salmonid populations—particularly Spring Chinook, Steelhead, Bull Trout, Summer Chinook, Coho, and Sockeye—across 28 project sites within the Wenatchee, Entiat, and Columbia River systems. These areas suffer from impaired riparian and in-stream functions due to historical land use, invasive species, altered hydrology, and degraded stream complexity.

#### Key Limiting Factors & Ecological Concerns:

- **Loss of Riparian Cover and Function:** Reduced canopy cover has led to elevated summer stream temperatures, impacting thermally sensitive species.
- **Degraded Instream Habitat:** Many sites lack large woody debris, have poor pool quantity/quality, and limited off-channel habitat—essential for rearing and refugia.
- **Floodplain Disconnection and Channel Incision:** Leads to flashy hydrology, reduced groundwater recharge, and diminished habitat diversity.
- **Invasive Vegetation:** Non-native plants outcompete native riparian flora, reducing bank stability and resilience.
- **Beaver Loss and Hydrological Impairment:** Historic beaver removal has reduced stream complexity, baseflows, and water retention in headwaters.

#### Limiting Life Stages (by Species):

- **Spring Chinook:** Limiting factors affect spawning, summer/winter rearing, and fry colonization. High priority AUs include Lower Chiwawa River and Beaver Ck.
- **Steelhead:** Impacted during winter rearing and spawning, particularly where cover and floodplain connectivity are lacking. High priority areas include Alder Ck and Nason Ck.
- **Bull Trout:** Sensitive to temperature and stream complexity; limiting stages include subadult rearing and adult non-spawning holding.
- **Coho and Sockeye:** Though not target ESU species in our region, they rely on off-channel rearing habitats, which are often degraded or absent.

#### Project Strategies to Address Limiting Factors:

- **Riparian Stewardship:** Over 21 acres managed through invasive control, irrigation, and replanting to establish native riparian communities.
- **Instream Habitat Structure Maintenance:** More than 500 BDAs and 100 PALS maintained to improve channel complexity, aggradation, and connectivity; reconnecting streams with floodplains, and raising water tables to support habitats.
- **Beaver Reintroduction:** At 5 sites to restore hydrologic processes and enhance habitat at all life stages via rearing habitat creation, stream cooling, and nutrient retention.
- **Life Stage Support:** Projects create resilient habitat—cool summer flows, overwintering pools, and off-channel refuge during high flows.

Informed by reach-specific rankings and habitat condition assessments, this project targets Rank 1–3 reaches including Nason Ck Lower 10, Peshastin Ck Lower 01 & 03, Wenatchee River Ollala 01, and Chumstick Ck 02. While the remaining sites occur in unranked or undefined reaches, they still address priority actions such as off-channel deficits, wood cover, bank stability, and floodplain reconnection—directly supporting focal species at limiting life stages.

## Project Application Report - 25-1217

#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 primary goals are to improve the success and rate of riparian habitat establishment and to enhance the development of normative stream processes/functions, promoting self-sustaining ecosystems.

To achieve these goals, this project will focus on managing invasive plant species, replacing unsuccessful plantings, increasing groundwater availability through in-stream structures, and supplementing sites with irrigation water as needed. Additionally, efforts will be directed toward improving the effectiveness and longevity of LTPBR in-stream habitat structures, such as BDAs/PALS, through annual maintenance, monitoring system response, and adaptive management based on observed responses. Also, TU works with landowners and public agencies to relocate nuisance beavers to streams where they can restore salmonid habitat.

By addressing the root causes of habitat degradation, including reduced riparian vegetation, competition from invasive species, loss of in-stream complexity, removal of beavers, and diminished hydrologic processes/functions, this project will foster resilient riparian and aquatic ecosystems. The desired future condition is a network of stable, connected habitats with thriving native vegetation and beavers, improved water retention, and enhanced capacity to support fish and wildlife populations. With continued stewardship, this project will ensure that restoration efforts achieve lasting ecological benefits and contribute to the long-term health of these watersheds.

#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**

1. Restore and expand riparian communities to provide shade and reduce high stream temperatures for salmonid life stages by managing invasive species, replacing unsuccessful plantings, and supplementing irrigation over 21 acres. Additionally, enhance conditions through ponds created by reintroduced beavers.
2. Control invasive plant species and noxious weeds across over 21 acres of riparian habitat to promote native vegetation establishment and overall riparian resilience.
3. Maintain and enhance more than 500 BDAs and 100 PALS along over 11 miles of previously treated aquatic habitat through annual inspections, routine maintenance, and adaptive management to sustain natural stream processes and promote aquatic habitat formation.
4. Beaver Relocation: Reintroduce beavers at 5 sites in Chelan and Douglas Counties. Literature indicates each maintained beaver family could treat 0.9–1.6 km of stream, potentially resulting in 4.5–8 km of improved instream habitat across the 5 sites.
5. Improve groundwater recharge, streamflow retention, and stream complexity by ensuring that BDAs, PALS, and relocated beavers actively promote lateral floodplain connectivity, pool formation, and sediment retention during routine maintenance over the five-year term.
6. Ensure riparian vegetation survival during dry months by providing irrigation as needed to maintain optimal soil moisture, supporting the trajectory toward self-sustaining, fully functioning riparian communities.

Objectives are summarized for all 28 sites.

## Project Application Report - 25-1217

#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.

This project provides five years of stewardship and maintenance across 28 project sites in the Wenatchee, Entiat, and Columbia River tributaries. Each task will be implemented by one of the three CRM partners, based on which organization led the original project. Trout Unlimited will lead all beaver relocation and coexistence work. While this project's funding and reporting are tied to a 5-year period, the intent is to ensure lasting success beyond that term, as riparian plantings and LTPBR structures will continue to provide ecological benefits well into the future. This project ensures that early years of establishment are supported through active stewardship, securing long-term habitat functionality for native fish populations.

### 1. Riparian Plant Stewardship

- Responsible Partner(s): Cascade Fisheries, Cascadia Conservation District, Trout Unlimited
- Task Description: Maintain and support over 21 acres of riparian plantings across 16 sites. Activities include managing invasive and noxious weeds, supplemental irrigation, mulching, and replanting any unsuccessful plantings as needed.
- Deliverables: Annual maintenance at each planting site; plant survival assessments; annual reporting of treated acreage and vegetation progress.
- Schedule: Spring and summer visits for irrigation and weed control; fall assessments for mortality and replanting needs.

### 2. Instream Habitat Structure Maintenance (LTPBR)

- Responsible Partner(s): Cascade Fisheries, Cascadia Conservation District, Trout Unlimited
- Task Description: Maintain over 500 BDAs and 100 PALS across 24 sites. Maintenance activities may include reinforcing structures, replacing materials, and making design modifications based on field observations.
- Deliverables: Photo documentation, maintenance reports, and adaptive recommendations.
- Schedule: Annual inspections and maintenance for five years.

### 3. Beaver Relocation and Coexistence

- Responsible Partner: Trout Unlimited
- Task Description: Relocate beavers to 5 project sites, respond to landowner conflicts, provide coexistence strategies, and monitor relocation outcomes. Relocated beavers are monitored with game cameras and site surveillance.
- Deliverables: Records of relocation events, conflict resolution actions, post-release monitoring data.
- Schedule: Ongoing throughout the 5-year project; timed according to relocation and monitoring windows.

### 4. Monitoring and Adaptive Management

- Responsible Partner(s): All CRM partners for their respective sites
- Task Description: Conduct site assessments to evaluate the effectiveness of stewardship actions. Adapt strategies to improve outcomes and support site-specific ecological goals.
- Deliverables: Annual monitoring reports with observations, treatment effectiveness summaries, and adaptive actions taken.
- Schedule: Conducted annually during appropriate biological and seasonal windows.

## Project Application Report - 25-1217

- #6: What are the assumptions and physical constraints that could impact whether you achieve your objectives? Assumptions and constraints 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?

This project assumes favorable ecological conditions that support the recovery of riparian communities, in-stream habitats, and normative watershed processes. However, several external factors may impact success. Geomorphic constraints such as heavily incised channels or poor floodplain connectivity may limit the effectiveness of BDAs, PALS, and beaver activity. Beavers, while key to long-term restoration, are wild animals and may relocate or fail to modify sites as intended. Invasive plant species, drought, and other site conditions pose a continued threat to establishing native vegetation, especially in the early years post-planting.

Land use constraints exist, as the project spans both public and private lands with nearby infrastructure (e.g. roads, culverts) that could limit restoration actions and/or beaver activity. Continued landowner participation is assumed based on active 10-year agreements secured during prior phases.

Public perception is another factor. While generally positive, concerns around beaver relocation (e.g., flooding, tree damage) could arise. Additionally, seasonal access limitations in remote areas and potential delays in future funding could impact the project's necessary maintenance and monitoring timelines.

To address these challenges, the project integrates adaptive management, annual monitoring, and contingency planning. BDAs and PALS will be inspected and maintained annually. If beavers do not colonize, sites may be reassessed for future relocation. Invasive species will be actively managed and irrigation will be used as needed. Strong landowner agreements are in place for 10 years, and partners maintain close communication with stakeholders. Public outreach—including education, site tours, and conflict resolution—is ongoing. The CRM's collaborative structure across three organizations ensures operational redundancy, flexibility, and resilience to staffing or funding issues, reducing risk and enhancing project success across all 28 sites.

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

This project is informed by the CRM partners' experience implementing and monitoring riparian and LTPBR restoration across the Upper Columbia. A key lesson learned is that post-implementation stewardship is essential for long-term success. Without maintenance, riparian plantings often fail due to invasive species, drought, herbivory, and lack of support during key establishment periods. Monitoring from our past projects shows that stewardship—such as irrigation, replanting, and weed control—greatly improves plant survival and riparian function. The WA Dept. of Ecology emphasizes that maintenance during the first 3–5 years is critical to help plants develop root systems and survive dry summer conditions (Ecology 2024). The Methow Salmon Recovery Foundation's Riparian Monitoring Plan also notes that early stewardship is key to preventing plant loss and ensuring long-term vegetation success.

Similarly, BDAs and PALS require ongoing maintenance to remain functional through seasonal flow changes, channel adjustments, and sediment movement. Our past project show that maintained structures are more effective at supporting aggradation, floodplain connectivity, and habitat complexity. National studies (Bouwes et al 2016; Wheaton et al 2019) confirm that LTPBR projects benefit from continued stewardship, which extends structure life and supports ecosystem recovery. This proposal applies those lessons to protect past investments and keep sites on track to meet long-term ecological goals.

## Project Application Report - 25-1217

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

As this project focuses on the stewardship and maintenance of previously implemented restoration actions, alternative designs and strategies were considered and addressed during the original planning and implementation phases at each site. The current proposal does not revisit those earlier design decisions but instead ensures those investments are protected, functional, and progressing toward long-term ecological goals. Re-evaluating alternatives at this stage would shift focus and resources away from maintaining the structures and vegetation that require active stewardship to succeed.

The preferred approach is based on well-established best practices for supporting riparian recovery and natural stream function through low-tech process-based restoration (LTPBR), beaver relocation, and adaptive vegetation management. These methods were chosen for their ecological effectiveness, cost-efficiency, and alignment with regional restoration strategies.

Beaver relocation, while somewhat unpredictable, remains the most effective long-term strategy for sustaining stream restoration functions without ongoing human intervention. Trout Unlimited works closely with WDFW, USFS, and other agencies to ensure that relocations meet all permitting and biological criteria.

Continued maintenance of BDAs and PALS, irrigation support, invasive species control, and responsiveness to landowner feedback are necessary to transition each site toward self-sustaining ecological conditions. This stewardship model builds on past work, avoids redundancy, and maximizes the value of prior investments.

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

The 28 projects included in this package span a mix of private, state, and federal lands, with stakeholders including individual landowners, the USFS, WDFW, DNR, and other agencies. These stakeholders were actively engaged during the development, design, and implementation phases of each individual project. As this proposal focuses on stewardship and maintenance, new stakeholder consultation for project development is not applicable; however, the success of this work depends on ongoing cooperation with landowners and land managers who continue to provide critical feedback based on site-level observations, helping to identify any issues early.

Initial concerns included impacts to land use, infrastructure (e.g., culverts, irrigation), and beaver-related risks. These were addressed through site-specific planning, communication, and adaptive approaches. Active landowner agreements remain in place, allowing for site access and defining responsibilities for up to 10 years post-implementation.

For beaver relocation, TU coordinates with landowners and consults with USFWS, WDFW, USFS, and other agencies to secure and follow required permits. Stakeholders are engaged before trapping, during holding at the acclimation facility, and after relocation. TU responds quickly if relocated or natural beavers create conflicts.

Funding through this proposal is critical to continue addressing stakeholder concerns as they arise and to maintain trust and cooperation across all project sites.

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

Yes

## Project Application Report - 25-1217

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

The riparian vegetation that has been planted at project sites and will be stewarded with this project will be better suited to handle changing climate conditions, including drought, warming temperatures, and changing precipitation regimes. As native plants evolved in these environments, they are more resilient to a changing climate than non-native or invasive plants species. Also, these native plants form riparian communities that will allow aquatic/terrestrial species to sustain through changing climate conditions.

LTPBR projects and beaver ponds (created after reintroduction) restore and improve the normative processes and functions that occur in streams, which create complex habitats for aquatic species. Also, beaver dams/LTPBR (BDAs/PALS) ensure stream systems are more resilient to changing climate conditions by increasing processes such as: groundwater recharge/retention, flow enhancement, stormwater attenuation, floodplain activation, sediment and pollutant filtration, etc.

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

Floodplains should be naturally covered in riparian vegetation, which play an important role in the floodplain's role in watershed processes. Restoring native riparian vegetation communities to the floodplain will promote natural processes including floodwater/groundwater retention and storage, sediment and pollutant filtration, bank and channel stability, and large wood recruitment.

LTPBR projects and beaver ponds (created after reintroduction) restore and improve the normative processes and functions that occur in streams, which create complex habitats for aquatic species.

Restoring these different watershed processes will holistically improve habitat quantity and quality, giving species more resilience to future climate changing conditions.

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

Cascade Fisheries, Cascadia Conservation District, and Trout Unlimited have implemented numerous projects with riparian restoration and LTPBR components. These projects have required some level of stewardship and maintenance to ensure projects met their intended goals. This includes riparian restoration projects like at the Lower Sleepy Hollow site on the Wenatchee River, and various project sites in the Chumstick Creek Watershed. Many of the LTPBR projects within this proposal were multi-phase projects, and the project sponsors have been performing stewardship and maintenance on those prior phases; sites like Potato Creek, Chumstick Creek, Derby Creek, Rock Island Creek, etc.

Additionally, Trout Unlimited has performed numerous beaver relocations throughout Chelan and Douglas counties in the past few years. These relocated beavers have been monitored for site colonization, retention, and how they alter their new stream ecosystems.

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

No

# Project Application Report - 25-1217

## Restoration Supplemental

#1: Is the primary activity of the project riparian planting?

No

#2: Does the project include measures to stabilize an eroding stream bank?

No

#3: Does the project include side channel reconnection or floodplain re-grading worktypes?

No

#4: Does the project include an instream structure placement worktype?

No

#5: Is the primary activity of the project invasive species removal?

No

#6: Describe the steps you will take to minimize the introduction of invasive species during construction and restoration. Consider how you will use un-infested materials and clean equipment entering and leaving the project area.

Materials used for stewardship and maintenance will primarily be harvested on-site (e.g., branches, logs, organic and fill material), minimizing soil disturbance and avoiding damage to native vegetation. Any off-site materials (e.g., branches, logs, mulch, native plantings) will be Weed Free and inspected for pathogens or diseases before delivery to the project site. All equipment, vehicles, tools, and gear used on the project will be cleaned of invasive plant seed and dirt (Weed Free) before entering the site. Invasive species within the project scope will be treated on-site, and no invasive seed or plant materials will leave the site, preventing further spread. Additionally, TU inspects and quarantines all beavers at their acclimation facility prior to relocation to ensure they are not spreading diseases or pathogens throughout the population or to their introduced stream systems.

#7: Describe the long-term stewardship and maintenance obligations for the project.

This project focuses on 5 years of stewardship and maintenance for completed riparian restoration and LTPBR projects. It fulfills post-implementation obligations by supporting vegetation establishment, maintaining restoration structures, and promoting the formation of normative stream processes. These actions are designed to reduce long-term (>5 years) support needs by ensuring the sites are on a sustainable recovery trajectory. Most included projects have 10-year landowner agreements that define the project sponsor's responsibilities for ongoing stewardship, including adaptive management and site visits to monitor site conditions and ensure restoration goals are met. Once established, beavers maintain their own habitat and related salmon habitat benefits.

## Restoration Metrics

# Project Application Report - 25-1217

**Worksite: Alder Creek- Wenatchee River watershed (#1)**

Miles of Stream and/or Shoreline Treated or Protected (C.0.b)	0.87
Project Identified In a Plan or Watershed Assessment (C.0.c)	1. UCSRB Restoration Prioritization- <a href="https://prioritization.ucsrb.org/">https://prioritization.ucsrb.org/</a> 2. Upper Wenatchee Pilot Project: Aquatic Habitat Assessment and Restoration Strategy Report (Hall, J. E., K. Ceder, S. Burgess, D. Arterburn, C. Clark, K. Ross, and P. Roni. 2019. UWPP: aquatic habitat assessment and restoration strategy. Final Report to the USFS, Wenatchee River Ranger District, Leavenworth, WA.) 3. Reach assessments performed by the Oka-Wen NF <a href="https://www.ucsrb.org/reports-plans/assessments/">https://www.ucsrb.org/reports-plans/assessments/</a>
Priority in Recovery Plan	The limiting factors that this project addresses to some degree (either at the site or providing downstream benefit) are: - Riparian-Canopy Cover -Riparian Disturbance -Temperature-Rearing -Temperature-Adult Spawning -Temperature- Adult Holding -Flow-Summer Base Flow -Cover-wood -Pool Quantity and Quality -Off-Channel & Side-Channels -Percent Fines and Embeddedness -Bank and Channel Stability
Type Of Monitoring (C.0.d.1)	Implementation Monitoring
Monitoring Location (C.0.d.2)	Onsite

**SITE STEWARDSHIP PROJECT**

**Stream or streambank stewardship (C.11.b.1)**

Total cost for Stream or streambank provided stewardship	\$26,600
Miles of Streambank provided stewardship (C.11.b.2)	0.87
Acres of Streambank Stewarded	0

**ARCHITECTURAL & ENGINEERING**

**Architectural & Engineering (A&E)**

Total cost for Architectural & Engineering (A&E)	\$5,900
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**Worksite: Beaver Creek- Wenatchee River watershed (#2)**

Miles of Stream and/or Shoreline Treated or Protected (C.0.b)	1.10
Project Identified In a Plan or Watershed Assessment (C.0.c)	1. UCSRB Restoration Prioritization- <a href="https://prioritization.ucsrb.org/">https://prioritization.ucsrb.org/</a> 2. Upper Wenatchee Pilot Project: Aquatic Habitat Assessment and Restoration Strategy Report (Hall, J. E., K. Ceder, S. Burgess, D. Arterburn, C. Clark, K. Ross, and P. Roni. 2019. UWPP: aquatic habitat assessment and restoration strategy. Final Report to the USFS, Wenatchee River Ranger District, Leavenworth, WA.) 3. Reach assessments performed by the Oka-Wen NF <a href="https://www.ucsrb.org/reports-plans/assessments/">https://www.ucsrb.org/reports-plans/assessments/</a>
Priority in Recovery Plan	The limiting factors that this project addresses to some degree (either at the site or providing downstream benefit) are: - Riparian-Canopy Cover -Riparian Disturbance -Temperature-Rearing -Temperature-Adult Spawning -Temperature- Adult Holding -Flow-Summer Base Flow -Cover-wood -Pool Quantity and Quality -Off-Channel & Side-Channels -Percent Fines and Embeddedness -Bank and Channel Stability
Type Of Monitoring (C.0.d.1)	Implementation Monitoring
Monitoring Location (C.0.d.2)	Onsite

**SITE STEWARDSHIP PROJECT**

## Project Application Report - 25-1217

### Stream or streambank stewardship (C.11.b.1)

Total cost for Stream or streambank provided stewardship	\$26,600
Miles of Streambank provided stewardship (C.11.b.2)	1.10
Acres of Streambank Stewarded	0.07

### ARCHITECTURAL & ENGINEERING

#### Architectural & Engineering (A&E)

Total cost for Architectural & Engineering (A&E)	\$5,900
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# Project Application Report - 25-1217

**Worksite: Nason Creek- Wenatchee River watershed (#3)**

Miles of Stream and/or Shoreline Treated or Protected (C.0.b)	0.30
Project Identified In a Plan or Watershed Assessment (C.0.c)	1. UCSRB Restoration Prioritization <a href="https://prioritization.ucsrb.org/">https://prioritization.ucsrb.org/</a> 2. Upper Columbia Salmon Recovery Board, August 2007, Upper Columbia Spring Chinook Salmon and Steelhead Recovery Plan <a href="https://www.ucsrb.org/mdocumentslibrary/pl">https://www.ucsrb.org/mdocumentslibrary/pl</a>
Priority in Recovery Plan	The limiting factors that this project addresses to some degree (either at the site or providing downstream benefit) are: - Riparian-Canopy Cover -Riparian Disturbance -Temperature-Rearing -Temperature-Adult Spawning -Temperature- Adult Holding -Flow-Summer Base Flow -Cover-wood -Pool Quantity and Quality -Off-Channel & Side-Channels -Percent Fines and Embeddedness -Bank and Channel Stability
Type Of Monitoring (C.0.d.1)	Implementation Monitoring
Monitoring Location (C.0.d.2)	Onsite

**SITE STEWARDSHIP PROJECT**

**Stream or streambank stewardship (C.11.b.1)**

Total cost for Stream or streambank provided stewardship	\$26,600
Miles of Streambank provided stewardship (C.11.b.2)	0.30
Acres of Streambank Stewarded	1.75

**ARCHITECTURAL & ENGINEERING**

**Architectural & Engineering (A&E)**

Total cost for Architectural & Engineering (A&E)	\$5,900
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**Worksite: Chumstick Creek- Wenatchee River watershed (#4)**

Miles of Stream and/or Shoreline Treated or Protected (C.0.b)	0.05
Project Identified In a Plan or Watershed Assessment (C.0.c)	1. UCSRB Restoration Prioritization- <a href="https://prioritization.ucsrb.org/">https://prioritization.ucsrb.org/</a>
Priority in Recovery Plan	The limiting factors that this project addresses to some degree (either at the site or providing downstream benefit) are: - Riparian-Canopy Cover -Riparian Disturbance -Temperature-Rearing -Temperature-Adult Spawning -Temperature- Adult Holding -Flow-Summer Base Flow -Cover-wood -Pool Quantity and Quality -Off-Channel & Side-Channels -Percent Fines and Embeddedness -Bank and Channel Stability
Type Of Monitoring (C.0.d.1)	Implementation Monitoring None
Monitoring Location (C.0.d.2)	No monitoring completed Downstream Onsite Upslope Upstream

**ESTUARINE / NEARSHORE PROJECT**

**INSTREAM HABITAT PROJECT**

**PRE-RESTORATION ACQUISITIONS AND NURSERY OPERATIONS PROJECT**

**RIPARIAN HABITAT PROJECT**

**SITE STEWARDSHIP PROJECT**

**Stream or streambank stewardship (C.11.b.1)**

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# Project Application Report - 25-1217

Total cost for Stream or streambank provided stewardship	\$20,000
Miles of Streambank provided stewardship (C.11.b.2)	0.05
Acres of Streambank Stewarded	0.50

## CULTURAL RESOURCES

### PERMITS

### ARCHITECTURAL & ENGINEERING

#### Architectural & Engineering (A&E)

Total cost for Architectural & Engineering (A&E)	\$5,900
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### AGENCY INDIRECT COSTS

# Project Application Report - 25-1217

**Worksite: Eagle Creek- Wenatchee River watershed (#5)**

Miles of Stream and/or Shoreline Treated or Protected (C.0.b)	0.29
Project Identified In a Plan or Watershed Assessment (C.0.c)	1. UCSRB Restoration Prioritization- <a href="https://prioritization.ucsrb.org/">https://prioritization.ucsrb.org/</a>
Priority in Recovery Plan	The limiting factors that this project addresses to some degree (either at the site or providing downstream benefit) are: - Riparian-Canopy Cover -Riparian Disturbance -Temperature-Rearing - Temperature-Adult Spawning - Temperature- Adult Holding -Flow-Summer Base Flow -Cover-wood -Pool Quantity and Quality -Off-Channel & Side-Channels - Percent Fines and Embeddedness -Bank and Channel Stability
Type Of Monitoring (C.0.d.1)	Implementation Monitoring None
Monitoring Location (C.0.d.2)	No monitoring completed Downstream Onsite Upslope Upstream

**ESTUARINE / NEARSHORE PROJECT**

**INSTREAM HABITAT PROJECT**

**PRE-RESTORATION ACQUISITIONS AND NURSERY OPERATIONS PROJECT**

**RIPARIAN HABITAT PROJECT**

**SITE STEWARDSHIP PROJECT**

**Stream or streambank stewardship (C.11.b.1)**

Total cost for Stream or streambank provided stewardship	\$26,600
Miles of Streambank provided stewardship (C.11.b.2)	0.29
Acres of Streambank Stewarded	1.40

**CULTURAL RESOURCES**

**PERMITS**

**ARCHITECTURAL & ENGINEERING**

**Architectural & Engineering (A&E)**

Total cost for Architectural & Engineering (A&E)	\$5,900
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**AGENCY INDIRECT COSTS**

**Worksite: Little Chumstick Creek- Wenatchee River watershed (#6)**

Miles of Stream and/or Shoreline Treated or Protected (C.0.b)	0.29
Project Identified In a Plan or Watershed Assessment (C.0.c)	1. UCSRB Restoration Prioritization- <a href="https://prioritization.ucsrb.org/">https://prioritization.ucsrb.org/</a>
Priority in Recovery Plan	The limiting factors that this project addresses to some degree (either at the site or providing downstream benefit) are: - Riparian-Canopy Cover -Riparian Disturbance -Temperature-Rearing - Temperature-Adult Spawning - Temperature- Adult Holding -Flow-Summer Base Flow -Cover-wood -Pool Quantity and Quality -Off-Channel & Side-Channels - Percent Fines and Embeddedness -Bank and Channel Stability
Type Of Monitoring (C.0.d.1)	Implementation Monitoring None
Monitoring Location (C.0.d.2)	No monitoring completed Downstream

# Project Application Report - 25-1217

Onsite  
Upslope  
Upstream

## ESTUARINE / NEARSHORE PROJECT

## INSTREAM HABITAT PROJECT

## PRE-RESTORATION ACQUISITIONS AND NURSERY OPERATIONS PROJECT

## RIPARIAN HABITAT PROJECT

## SITE STEWARDSHIP PROJECT

### Stream or streambank stewardship (C.11.b.1)

Total cost for Stream or streambank provided stewardship	\$26,600
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Miles of Streambank provided stewardship (C.11.b.2)	0.29
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Acres of Streambank Stewarded	1.65
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## CULTURAL RESOURCES

## PERMITS

## ARCHITECTURAL & ENGINEERING

### Architectural & Engineering (A&E)

Total cost for Architectural & Engineering (A&E)	\$5,900
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## AGENCY INDIRECT COSTS

## Overall Project Metrics

### COMPLETION DATE

Projected date of completion

12/31/2030

**Note:** This is for 5 years of stewardship and maintenance funding. End date is based upon when funding would become available.

## Restoration Cost Estimates

# Project Application Report - 25-1217

## Worksite #1: Alder Creek- Wenatchee River watershed

Category	Work Type	Estimated Cost	Note
Site Stewardship Project	Stream or streambank stewardship (C.11.b.1)	\$26,600	
	Subtotal:	\$26,600	
Admin, Architecture, and Engineering		\$5,900	
	Total Estimate For Worksite:	\$32,500	

## Worksite #2: Beaver Creek- Wenatchee River watershed

Category	Work Type	Estimated Cost	Note
Site Stewardship Project	Stream or streambank stewardship (C.11.b.1)	\$26,600	
	Subtotal:	\$26,600	
Admin, Architecture, and Engineering		\$5,900	
	Total Estimate For Worksite:	\$32,500	

## Worksite #3: Nason Creek- Wenatchee River watershed

Category	Work Type	Estimated Cost	Note
Site Stewardship Project	Stream or streambank stewardship (C.11.b.1)	\$26,600	
	Subtotal:	\$26,600	
Admin, Architecture, and Engineering		\$5,900	
	Total Estimate For Worksite:	\$32,500	

## Worksite #4: Chumstick Creek- Wenatchee River watershed

Category	Work Type	Estimated Cost	Note
Site Stewardship Project	Stream or streambank stewardship (C.11.b.1)	\$26,600	
	Subtotal:	\$26,600	
Admin, Architecture, and Engineering		\$5,900	
	Total Estimate For Worksite:	\$32,500	

## Worksite #5: Eagle Creek- Wenatchee River watershed

Category	Work Type	Estimated Cost	Note
Site Stewardship Project	Stream or streambank stewardship (C.11.b.1)	\$26,600	
	Subtotal:	\$26,600	
Admin, Architecture, and Engineering		\$5,900	
	Total Estimate For Worksite:	\$32,500	

## Worksite #6: Little Chumstick Creek- Wenatchee River watershed

Category	Work Type	Estimated Cost	Note
Site Stewardship Project	Stream or streambank stewardship (C.11.b.1)	\$26,600	
	Subtotal:	\$26,600	
Admin, Architecture, and Engineering		\$5,900	
	Total Estimate For Worksite:	\$32,500	

## Worksite #7: Derby Creek- Wenatchee River watershed

Category	Work Type	Estimated Cost	Note
Site Stewardship Project	Stream or streambank stewardship (C.11.b.1)	\$26,600	
	Subtotal:	\$26,600	
Admin, Architecture, and Engineering		\$5,900	
	Total Estimate For Worksite:	\$32,500	

## Worksite #8: Peshastin Creek- Wenatchee River watershed

## Project Application Report - 25-1217

## Project Application Report - 25-1217

Category	Work Type	Estimated Cost	Note
Site Stewardship Project	Stream or streambank stewardship (C.11.b.1)	\$26,600	
	Subtotal:	\$26,600	
Admin, Architecture, and Engineering		\$5,900	
	Total Estimate For Worksite:	\$32,500	

### Worksite #9: Goodwin Side Channel- Wenatchee River watershed

Category	Work Type	Estimated Cost	Note
Site Stewardship Project	Stream or streambank stewardship (C.11.b.1)	\$26,600	
	Subtotal:	\$26,600	
Admin, Architecture, and Engineering		\$5,900	
	Total Estimate For Worksite:	\$32,500	

### Worksite #10: Roaring Creek- Entiat River watershed

Category	Work Type	Estimated Cost	Note
Site Stewardship Project	Stream or streambank stewardship (C.11.b.1)	\$26,600	
	Subtotal:	\$26,600	
Admin, Architecture, and Engineering		\$5,900	
	Total Estimate For Worksite:	\$32,500	

### Worksite #11: Potato Creek- Entiat River watershed

Category	Work Type	Estimated Cost	Note
Site Stewardship Project	Stream or streambank stewardship (C.11.b.1)	\$26,600	
	Subtotal:	\$26,600	
Admin, Architecture, and Engineering		\$5,900	
	Total Estimate For Worksite:	\$32,500	

### Worksite #12: Stormy Creek- Entiat River watershed

Category	Work Type	Estimated Cost	Note
Site Stewardship Project	Stream or streambank stewardship (C.11.b.1)	\$26,600	
	Subtotal:	\$26,600	
Admin, Architecture, and Engineering		\$5,900	
	Total Estimate For Worksite:	\$32,500	

### Worksite #13: Rock Island Creek- Columbia River tributary

Category	Work Type	Estimated Cost	Note
Site Stewardship Project	Stream or streambank stewardship (C.11.b.1)	\$26,600	
	Subtotal:	\$26,600	
Admin, Architecture, and Engineering		\$5,900	
	Total Estimate For Worksite:	\$32,500	

### Worksite #14: Douglas Creek- Columbia River Tributary

Category	Work Type	Estimated Cost	Note
Site Stewardship Project	Stream or streambank stewardship (C.11.b.1)	\$26,500	
	Subtotal:	\$26,500	
Admin, Architecture, and Engineering		\$5,000	
	Total Estimate For Worksite:	\$31,500	

### Worksite #15: Beaver Relocation and Holding Facility

Category	Work Type	Estimated Cost	Note
Site Stewardship Project	Stream or streambank stewardship (C.11.b.1)	\$26,600	

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Category	Work Type	Estimated Cost	Note
Site Stewardship Project	Stream or streambank stewardship (C.11.b.1)	\$136,000	
	Subtotal:	\$136,000	
Admin, Architecture, and Engineering		\$30,000	
	Total Estimate For Worksite:	\$166,000	

### Summary

Total Estimated Costs Without AA&E:	\$508,300
Total Estimated AA&E:	\$111,700
Total Estimated Restoration Costs:	\$620,000

## Cost Summary

	Estimated Cost	Project %	Admin/AA&E %
<u>Restoration Costs</u>			
Restoration	\$508,300		
Admin, Architecture, and Engineering	\$111,700		21.98 %
SUBTOTAL	\$620,000	100.00 %	
Total Cost Estimate	\$620,000	100.00 %	

## Funding Request and Match

### FUNDING PROGRAM

Salmon State Riparian	\$620,000	100.000000
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### SPONSOR MATCH

## Questions

#1: Explain how you determined the cost estimates

Cost estimates were calculated based on planned project actions at each site and sponsor's experience completing those activities over the term length of the project. Staff cost estimates are based on work and experience of our other recent projects of similar scope and scale. Staff salaries are expected to increase over time due to step increases and COLA adjustments.

## Other Funding

### OTHER FUNDING DETAILS

Other Funds: Monetary Funding	Local Grant	
Amount		\$200,000
Funding Organization		HCP Tributary Committees
Grant Program		HCP Tributary Committees
Other Funding Detail Total:		\$200,000

## Cultural Resources

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## Cultural Resource Areas

### Worksite #1: Alder Creek- Wenatchee River watershed

#### Area: Alder Creek DS Site

#1: Provide a description of the project actions at this worksite (acquisition, development and/or restoration activities that will occur as a part of this project)

LTPBR project actions at this site include performing maintenance and stewardship on the existing BDAs/PALS within the creek. Maintenance activities consist of using vegetation materials (e.g., tree branches, sticks, logs, leaves, sod/root mats, duff, etc.) and fill materials (e.g., dirt, gravel, sand, etc.) to repair, build-up, extend, or otherwise adaptively manage BDAs and PALS structures across the site. Materials are generally harvested from on-site sources when available, but caution is taken on the level of disturbance or harm to the site. All maintenance actions take place within the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

#2: Describe all ground disturbing activities (length, width and depth of disturbance and equipment utilized) that will take place in the Area of Potential Effect (APE). Include the location of any construction staging or access roads associated with your project that will involve ground disturbance.

Ground disturbance for the maintenance of LTPBR project components will be localized to BDA and PALS structure locations. BDAs/PALS may require additional materials (vegetative and fill) added to repair, build-up, extend, or otherwise adaptively manage the structures across the site. Fill materials (e.g., dirt, gravel, sand, etc.) are generally harvested from on-site sources when available. This may involve using hand shovels/spades to excavate fill materials from the stream banks or from the floodplain (borrow pits), to add to the structures in the stream. Excavation for fill material borrow pits will be dug a maximum of 12 inches deep with a diameter of 24 inches wide. Multiple borrow pits may be needed across project sites to acquire the necessary amounts of fill material to maintenance BDA and PALS structures. Caution will be taken to not excessively disturb the site by digging these borrow pits.

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

This project package consists of previously implemented riparian restoration and LTPBR project sites. The focus of this project is to provide stewardship and maintenance to the restoration components at these sites. Thus, pre-construction disturbance is outside the scope of this project, as it will have already occurred during prior phases of the project.

#4: 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).

The existing project area conditions at this site include a LTPBR project using BDAs and PALS to restore normative watershed processes to the stream channel and to improve aquatic habitat quantities and qualities. This was because the stream channel at this site was identified as being degraded for various reasons due to historic and current land use practices, including: logging, road/infrastructure building, agriculture, grazing, fire suppression, and many others. Site disturbances from historic and current land use practices, fire, drought, and other climate changing conditions have also led to this degradation.

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

No

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

No

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

Yes

#7a: 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.

This site received a Cultural Resource Review during prior phases for the initial implementation of this project. This information will be provided by the June 23rd submission deadline.

#8: Is the worksite located within an existing park, wildlife refuge, natural area preserve, or other recreation or habitat site?

No

#9: 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.

No

### Area: Alder Creek US site

#1: Provide a description of the project actions at this worksite (acquisition, development and/or restoration activities that will occur as a part of this project)

LTPBR project actions at this site include performing maintenance and stewardship on the existing BDAs/PALS within the creek. Maintenance activities consist of using vegetation materials (e.g., tree branches, sticks, logs, leaves, sod/root mats, duff, etc.) and fill materials (e.g., dirt, gravel, sand, etc.) to repair, build-up, extend, or otherwise adaptively manage BDAs and PALS structures across the site. Materials are generally harvested from on-site sources when available, but caution is taken on the level of disturbance or harm to the site. All maintenance actions take place within the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

#2: Describe all ground disturbing activities (length, width and depth of disturbance and equipment utilized) that will take place in the Area of Potential Effect (APE). Include the location of any construction staging or access roads associated with your project that will involve ground disturbance.

Ground disturbance for the maintenance of LTPBR project components will be localized to BDA and PALS structure locations. BDAs/PALS may require additional materials (vegetative and fill) added to repair, build-up, extend, or otherwise adaptively manage the structures across the site. Fill materials (e.g., dirt, gravel, sand, etc.) are generally harvested from on-site sources when available. This may involve using hand shovels/spades to excavate fill materials from the stream banks or from the floodplain (borrow pits), to add to the structures in the stream. Excavation for fill material borrow pits will be dug a maximum of 12 inches deep with a diameter of 24 inches wide. Multiple borrow pits may be needed across project sites to acquire the necessary amounts of fill material to maintenance BDA and PALS structures. Caution will be taken to not excessively disturb the site by digging these borrow pits.

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

This project package consists of previously implemented riparian restoration and LTPBR project sites. The focus of this project is to provide stewardship and maintenance to the restoration components at these sites. Thus, pre-construction disturbance is outside the scope of this project, as it will have already occurred during prior phases of the project.

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- #4: 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).

The existing project area conditions at this site include a LTPBR project using BDAs and PALS to restore normative watershed processes to the stream channel and to improve aquatic habitat quantities and qualities. This was because the stream channel at this site was identified as being degraded for various reasons due to historic and current land use practices, including: logging, road/infrastructure building, agriculture, grazing, fire suppression, and many others. Site disturbances from historic and current land use practices, fire, drought, and other climate changing conditions have also led to this degradation.

- #5: Will a federal permit be required to complete the scope of work on the project areas located within this worksite?  
No

- #6: Are you utilizing Federal Funding to complete the scope of work? This includes funds that are being shown as match or not.  
No

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

- #7a: 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.

This site received a Cultural Resource Review during prior phases for the initial implementation of this project. This information will be provided by the June 23rd submission deadline.

- #8: Is the worksite located within an existing park, wildlife refuge, natural area preserve, or other recreation or habitat site?  
No

- #9: 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.  
No

### Worksite #2: Beaver Creek- Wenatchee River watershed

#### Area: Beaver Creek Site

- #1: Provide a description of the project actions at this worksite (acquisition, development and/or restoration activities that will occur as a part of this project)

LTPBR project actions at this site include performing maintenance and stewardship on the existing BDAs/PALS within the creek. Maintenance activities consist of using vegetation materials (e.g., tree branches, sticks, logs, leaves, sod/root mats, duff, etc.) and fill materials (e.g., dirt, gravel, sand, etc.) to repair, build-up, extend, or otherwise adaptively manage BDAs and PALS structures across the site. Materials are generally harvested from on-site sources when available, but caution is taken on the level of disturbance or harm to the site. All maintenance actions take place within the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

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- #2: Describe all ground disturbing activities (length, width and depth of disturbance and equipment utilized) that will take place in the Area of Potential Effect (APE). Include the location of any construction staging or access roads associated with your project that will involve ground disturbance.

Ground disturbance for the maintenance of LTPBR project components will be localized to BDA and PALS structure locations. BDAs/PALS may require additional materials (vegetative and fill) added to repair, build-up, extend, or otherwise adaptively manage the structures across the site. Fill materials (e.g., dirt, gravel, sand, etc.) are generally harvested from on-site sources when available. This may involve using hand shovels/spades to excavate fill materials from the stream banks or from the floodplain (borrow pits), to add to the structures in the stream. Excavation for fill material borrow pits will be dug a maximum of 12 inches deep with a diameter of 24 inches wide. Multiple borrow pits may be needed across project sites to acquire the necessary amounts of fill material to maintenance BDA and PALS structures. Caution will be taken to not excessively disturb the site by digging these borrow pits.

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

This project package consists of previously implemented riparian restoration and LTPBR project sites. The focus of this project is to provide stewardship and maintenance to the restoration components at these sites. Thus, pre-construction disturbance is outside the scope of this project, as it will have already occurred during prior phases of the project.

- #4: 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).

The existing project area conditions at this site include a LTPBR project using BDAs and PALS to restore normative watershed processes to the stream channel and to improve aquatic habitat quantities and qualities. This was because the stream channel at this site was identified as being degraded for various reasons due to historic and current land use practices, including: logging, road/infrastructure building, agriculture, grazing, fire suppression, and many others. Site disturbances from historic and current land use practices, fire, drought, and other climate changing conditions have also led to this degradation.

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

No

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

No

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

Yes

- #7a: 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.

This site received a Cultural Resource Review during prior phases for the initial implementation of this project. This information will be provided by the June 23rd submission deadline.

- #8: Is the worksite located within an existing park, wildlife refuge, natural area preserve, or other recreation or habitat site?

No

- #9: 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.

No

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## Area: Beaver Creek site (continued)

- #1: Provide a description of the project actions at this worksite (acquisition, development and/or restoration activities that will occur as a part of this project)

LTPBR project actions at this site include performing maintenance and stewardship on the existing BDAs/PALS within the creek. Maintenance activities consist of using vegetation materials (e.g., tree branches, sticks, logs, leaves, sod/root mats, duff, etc.) and fill materials (e.g., dirt, gravel, sand, etc.) to repair, build-up, extend, or otherwise adaptively manage BDAs and PALS structures across the site. Materials are generally harvested from on-site sources when available, but caution is taken on the level of disturbance or harm to the site. All maintenance actions take place within the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

- #2: Describe all ground disturbing activities (length, width and depth of disturbance and equipment utilized) that will take place in the Area of Potential Effect (APE). Include the location of any construction staging or access roads associated with your project that will involve ground disturbance.

Ground disturbance for the maintenance of LTPBR project components will be localized to BDA and PALS structure locations. BDAs/PALS may require additional materials (vegetative and fill) added to repair, build-up, extend, or otherwise adaptively manage the structures across the site. Fill materials (e.g., dirt, gravel, sand, etc.) are generally harvested from on-site sources when available. This may involve using hand shovels/spades to excavate fill materials from the stream banks or from the floodplain (borrow pits), to add to the structures in the stream. Excavation for fill material borrow pits will be dug a maximum of 12 inches deep with a diameter of 24 inches wide. Multiple borrow pits may be needed across project sites to acquire the necessary amounts of fill material to maintenance BDA and PALS structures. Caution will be taken to not excessively disturb the site by digging these borrow pits.

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

This project package consists of previously implemented riparian restoration and LTPBR project sites. The focus of this project is to provide stewardship and maintenance to the restoration components at these sites. Thus, pre-construction disturbance is outside the scope of this project, as it will have already occurred during prior phases of the project.

- #4: 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).

The existing project area conditions at this site include a LTPBR project using BDAs and PALS to restore normative watershed processes to the stream channel and to improve aquatic habitat quantities and qualities. This was because the stream channel at this site was identified as being degraded for various reasons due to historic and current land use practices, including: logging, road/infrastructure building, agriculture, grazing, fire suppression, and many others. Site disturbances from historic and current land use practices, fire, drought, and other climate changing conditions have also led to this degradation.

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

No

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

No

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

Yes

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#7a: 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.

This site received a Cultural Resource Review during prior phases for the initial implementation of this project. This information will be provided by the June 23rd submission deadline.

#8: Is the worksite located within an existing park, wildlife refuge, natural area preserve, or other recreation or habitat site?

No

#9: 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.

No

## Area: South Fork Beaver Creek Site

#1: Provide a description of the project actions at this worksite (acquisition, development and/or restoration activities that will occur as a part of this project)

Riparian project actions at this site include performing stewardship and maintenance on the existing riparian planting area across the project site. Stewardship activities consist of providing supplemental irrigation water to plantings, managing invasive species through chemical or physical methods, placing mulch around plantings, and/or replanting unsuccessful plantings. All riparian stewardship actions take place outside of the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

LTPBR project actions at this site include performing maintenance and stewardship on the existing BDAs/PALS within the creek. Maintenance activities consist of using vegetation materials (e.g., tree branches, sticks, logs, leaves, sod/root mats, duff, etc.) and fill materials (e.g., dirt, gravel, sand, etc.) to repair, build-up, extend, or otherwise adaptively manage BDAs and PALS structures across the site. Materials are generally harvested from on-site sources when available, but caution is taken on the level of disturbance or harm to the site. All maintenance actions take place within the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

#2: Describe all ground disturbing activities (length, width and depth of disturbance and equipment utilized) that will take place in the Area of Potential Effect (APE). Include the location of any construction staging or access roads associated with your project that will involve ground disturbance.

Ground disturbance for riparian plant stewardship will be localized to planting locations, if replanting is necessary due to planting mortality. Planting holes will be dug using hand shovels/spades or handheld gas-powered augers. Holes will be dug a maximum of 18 inches deep with a diameter of 12 inches wide. This ground disturbance will be relatively minor at each planting area, and will only be used when encountering unsuccessful plantings.

Ground disturbance for the maintenance of LTPBR project components will be localized to BDA and PALS structure locations. BDAs/PALS may require additional materials (vegetative and fill) added to repair, build-up, extend, or otherwise adaptively manage the structures across the site. Fill materials (e.g., dirt, gravel, sand, etc.) are generally harvested from on-site sources when available. This may involve using hand shovels/spades to excavate fill materials from the stream banks or from the floodplain (borrow pits), to add to the structures in the stream. Excavation for fill material borrow pits will be dug a maximum of 12 inches deep with a diameter of 24 inches wide. Multiple borrow pits may be needed across project sites to acquire the necessary amounts of fill material to maintenance BDA and PALS structures. Caution will be taken to not excessively disturb the site by digging these borrow pits.

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

This project package consists of previously implemented riparian restoration and LTPBR project sites. The focus of this project is to provide stewardship and maintenance to the restoration components at these sites. Thus, pre-construction disturbance is outside the scope of this project, as it will have already occurred during prior phases of the project.

#4: 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).

The existing project area conditions at this site include a riparian planting project using native vegetation plantings and invasive vegetation management to restore riparian plant buffers and riparian vegetation communities. Additionally, the existing project area conditions at this site include a LTPBR project using BDAs and PALS to restore normative watershed processes to the stream channel and to improve aquatic habitat quantities and qualities. This was because the riparian corridor and stream channel at this site was identified as being degraded for various reasons due to historic and current land use practices, including: logging, road/infrastructure building, agriculture, grazing, fire suppression, and many others. Site disturbances from historic and current land use practices, fire, drought, and other climate changing conditions have also led to this degradation.

#5: Will a federal permit be required to complete the scope of work on the project areas located within this worksite?  
No

#6: Are you utilizing Federal Funding to complete the scope of work? This includes funds that are being shown as match or not.  
No

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

#7a: 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.

This site received a Cultural Resource Review during prior phases for the initial implementation of this project. This information will be provided by the June 23rd submission deadline.

#8: Is the worksite located within an existing park, wildlife refuge, natural area preserve, or other recreation or habitat site?  
No

#9: 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.  
No

### Worksite #3: Nason Creek- Wenatchee River watershed

#### Area: Nason Creek- Merrit Oxbow Site

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#1: Provide a description of the project actions at this worksite (acquisition, development and/or restoration activities that will occur as a part of this project)

Riparian project actions at this site include performing stewardship and maintenance on the existing riparian planting area across the project site. Stewardship activities consist of providing supplemental irrigation water to plantings, managing invasive species through chemical or physical methods, placing mulch around plantings, and/or replanting unsuccessful plantings. All riparian stewardship actions take place outside of the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

#2: Describe all ground disturbing activities (length, width and depth of disturbance and equipment utilized) that will take place in the Area of Potential Effect (APE). Include the location of any construction staging or access roads associated with your project that will involve ground disturbance.

Ground disturbance for riparian plant stewardship will be localized to planting locations, if replanting is necessary due to planting mortality. Planting holes will be dug using hand shovels/spades or handheld gas-powered augers. Holes will be dug a maximum of 18 inches deep with a diameter of 12 inches wide. This ground disturbance will be relatively minor at each planting area, and will only be used when encountering unsuccessful plantings.

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

This project package consists of previously implemented riparian restoration and LTPBR project sites. The focus of this project is to provide stewardship and maintenance to the restoration components at these sites. Thus, pre-construction disturbance is outside the scope of this project, as it will have already occurred during prior phases of the project.

#4: 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).

The existing project area conditions at this site include a riparian planting project using native vegetation plantings and invasive vegetation management to restore riparian plant buffers and riparian vegetation communities. This was because the riparian corridor at this site was identified as being degraded for various reasons due to historic and current land use practices, including: logging, road/infrastructure building, agriculture, grazing, fire suppression, and many others. Site disturbances from historic and current land use practices, fire, drought, and other climate changing conditions have also led to this degradation.

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

No

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

No

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

Yes

#7a: 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.

This site received a Cultural Resource Review during prior phases for the initial implementation of this project. This information will be provided by the June 23rd submission deadline.

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#8: Is the worksite located within an existing park, wildlife refuge, natural area preserve, or other recreation or habitat site?

No

#9: 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.

No

### Area: Nason Creek- Merrit Oxbow Site 2

#1: Provide a description of the project actions at this worksite (acquisition, development and/or restoration activities that will occur as a part of this project)

Riparian project actions at this site include performing stewardship and maintenance on the existing riparian planting area across the project site. Stewardship activities consist of providing supplemental irrigation water to plantings, managing invasive species through chemical or physical methods, placing mulch around plantings, and/or replanting unsuccessful plantings. All riparian stewardship actions take place outside of the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

#2: Describe all ground disturbing activities (length, width and depth of disturbance and equipment utilized) that will take place in the Area of Potential Effect (APE). Include the location of any construction staging or access roads associated with your project that will involve ground disturbance.

Ground disturbance for riparian plant stewardship will be localized to planting locations, if replanting is necessary due to planting mortality. Planting holes will be dug using hand shovels/spades or handheld gas-powered augers. Holes will be dug a maximum of 18 inches deep with a diameter of 12 inches wide. This ground disturbance will be relatively minor at each planting area, and will only be used when encountering unsuccessful plantings.

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

This project package consists of previously implemented riparian restoration and LTPBR project sites. The focus of this project is to provide stewardship and maintenance to the restoration components at these sites. Thus, pre-construction disturbance is outside the scope of this project, as it will have already occurred during prior phases of the project.

#4: 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).

The existing project area conditions at this site include a riparian planting project using native vegetation plantings and invasive vegetation management to restore riparian plant buffers and riparian vegetation communities. This was because the riparian corridor at this site was identified as being degraded for various reasons due to historic and current land use practices, including: logging, road/infrastructure building, agriculture, grazing, fire suppression, and many others. Site disturbances from historic and current land use practices, fire, drought, and other climate changing conditions have also led to this degradation.

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

No

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

No

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

Yes

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#7a: 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.

This site received a Cultural Resource Review during prior phases for the initial implementation of this project. This information will be provided by the June 23rd submission deadline.

#8: Is the worksite located within an existing park, wildlife refuge, natural area preserve, or other recreation or habitat site?

No

#9: 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.

No

### Worksite #4: Chumstick Creek- Wenatchee River watershed

#### Area: Chumstick Creek- Jones Site

#1: Provide a description of the project actions at this worksite (acquisition, development and/or restoration activities that will occur as a part of this project)

Riparian project actions at this site include performing stewardship and maintenance on the existing riparian planting area across the project site. Stewardship activities consist of providing supplemental irrigation water to plantings, managing invasive species through chemical or physical methods, placing mulch around plantings, and/or replanting unsuccessful plantings. All riparian stewardship actions take place outside of the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

LTPBR project actions at this site include performing maintenance and stewardship on the existing BDAs/PALS within the creek. Maintenance activities consist of using vegetation materials (e.g., tree branches, sticks, logs, leaves, sod/root mats, duff, etc.) and fill materials (e.g., dirt, gravel, sand, etc.) to repair, build-up, extend, or otherwise adaptively manage BDAs and PALS structures across the site. Materials are generally harvested from on-site sources when available, but caution is taken on the level of disturbance or harm to the site. All maintenance actions take place within the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

#2: Describe all ground disturbing activities (length, width and depth of disturbance and equipment utilized) that will take place in the Area of Potential Effect (APE). Include the location of any construction staging or access roads associated with your project that will involve ground disturbance.

Ground disturbance for riparian plant stewardship will be localized to planting locations, if replanting is necessary due to planting mortality. Planting holes will be dug using hand shovels/spades or handheld gas-powered augers. Holes will be dug a maximum of 18 inches deep with a diameter of 12 inches wide. This ground disturbance will be relatively minor at each planting area, and will only be used when encountering unsuccessful plantings.

Ground disturbance for the maintenance of LTPBR project components will be localized to BDA and PALS structure locations. BDAs/PALS may require additional materials (vegetative and fill) added to repair, build-up, extend, or otherwise adaptively manage the structures across the site. Fill materials (e.g., dirt, gravel, sand, etc.) are generally harvested from on-site sources when available. This may involve using hand shovels/spades to excavate fill materials from the stream banks or from the floodplain (borrow pits), to add to the structures in the stream. Excavation for fill material borrow pits will be dug a maximum of 12 inches deep with a diameter of 24 inches wide. Multiple borrow pits may be needed across project sites to acquire the necessary amounts of fill material to maintenance BDA and PALS structures. Caution will be taken to not excessively disturb the site by digging these borrow pits.

## Project Application Report - 25-1217

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

This project package consists of previously implemented riparian restoration and LTPBR project sites. The focus of this project is to provide stewardship and maintenance to the restoration components at these sites. Thus, pre-construction disturbance is outside the scope of this project, as it will have already occurred during prior phases of the project.

#4: 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).

The existing project area conditions at this site include a riparian planting project using native vegetation plantings and invasive vegetation management to restore riparian plant buffers and riparian vegetation communities. Additionally, the existing project area conditions at this site include a LTPBR project using BDAs and PALS to restore normative watershed processes to the stream channel and to improve aquatic habitat quantities and qualities. This was because the riparian corridor and stream channel at this site was identified as being degraded for various reasons due to historic and current land use practices, including: logging, road/infrastructure building, agriculture, grazing, fire suppression, and many others. Site disturbances from historic and current land use practices, fire, drought, and other climate changing conditions have also led to this degradation.

#5: Will a federal permit be required to complete the scope of work on the project areas located within this worksite?  
No

#6: Are you utilizing Federal Funding to complete the scope of work? This includes funds that are being shown as match or not.  
No

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

#7a: 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.

This site received a Cultural Resource Review during prior phases for the initial implementation of this project. This information will be provided by the June 23rd submission deadline.

#8: Is the worksite located within an existing park, wildlife refuge, natural area preserve, or other recreation or habitat site?  
No

#9: 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.  
No

### Worksite #5: Eagle Creek- Wenatchee River watershed

#### Area: Eagle Creek- Bosket Site

## Project Application Report - 25-1217

#1: Provide a description of the project actions at this worksite (acquisition, development and/or restoration activities that will occur as a part of this project)

Riparian project actions at this site include performing stewardship and maintenance on the existing riparian planting area across the project site. Stewardship activities consist of providing supplemental irrigation water to plantings, managing invasive species through chemical or physical methods, placing mulch around plantings, and/or replanting unsuccessful plantings. All riparian stewardship actions take place outside of the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

LTPBR project actions at this site include performing maintenance and stewardship on the existing BDAs/PALS within the creek. Maintenance activities consist of using vegetation materials (e.g., tree branches, sticks, logs, leaves, sod/root mats, duff, etc.) and fill materials (e.g., dirt, gravel, sand, etc.) to repair, build-up, extend, or otherwise adaptively manage BDAs and PALS structures across the site. Materials are generally harvested from on-site sources when available, but caution is taken on the level of disturbance or harm to the site. All maintenance actions take place within the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

#2: Describe all ground disturbing activities (length, width and depth of disturbance and equipment utilized) that will take place in the Area of Potential Effect (APE). Include the location of any construction staging or access roads associated with your project that will involve ground disturbance.

Ground disturbance for riparian plant stewardship will be localized to planting locations, if replanting is necessary due to planting mortality. Planting holes will be dug using hand shovels/spades or handheld gas-powered augers. Holes will be dug a maximum of 18 inches deep with a diameter of 12 inches wide. This ground disturbance will be relatively minor at each planting area, and will only be used when encountering unsuccessful plantings.

Ground disturbance for the maintenance of LTPBR project components will be localized to BDA and PALS structure locations. BDAs/PALS may require additional materials (vegetative and fill) added to repair, build-up, extend, or otherwise adaptively manage the structures across the site. Fill materials (e.g., dirt, gravel, sand, etc.) are generally harvested from on-site sources when available. This may involve using hand shovels/spades to excavate fill materials from the stream banks or from the floodplain (borrow pits), to add to the structures in the stream. Excavation for fill material borrow pits will be dug a maximum of 12 inches deep with a diameter of 24 inches wide. Multiple borrow pits may be needed across project sites to acquire the necessary amounts of fill material to maintenance BDA and PALS structures. Caution will be taken to not excessively disturb the site by digging these borrow pits.

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

This project package consists of previously implemented riparian restoration and LTPBR project sites. The focus of this project is to provide stewardship and maintenance to the restoration components at these sites. Thus, pre-construction disturbance is outside the scope of this project, as it will have already occurred during prior phases of the project.

## Project Application Report - 25-1217

#4: 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).

The existing project area conditions at this site include a riparian planting project using native vegetation plantings and invasive vegetation management to restore riparian plant buffers and riparian vegetation communities. Additionally, the existing project area conditions at this site include a LTPBR project using BDAs and PALS to restore normative watershed processes to the stream channel and to improve aquatic habitat quantities and qualities. This was because the riparian corridor and stream channel at this site was identified as being degraded for various reasons due to historic and current land use practices, including: logging, road/infrastructure building, agriculture, grazing, fire suppression, and many others. Site disturbances from historic and current land use practices, fire, drought, and other climate changing conditions have also led to this degradation.

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

No

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

No

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

Yes

#7a: 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.

This site received a Cultural Resource Review during prior phases for the initial implementation of this project. This information will be provided by the June 23rd submission deadline.

#8: Is the worksite located within an existing park, wildlife refuge, natural area preserve, or other recreation or habitat site?

No

#9: 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.

No

**Area: Eagle Creek- Headrick site**

## Project Application Report - 25-1217

#1: Provide a description of the project actions at this worksite (acquisition, development and/or restoration activities that will occur as a part of this project)

Riparian project actions at this site include performing stewardship and maintenance on the existing riparian planting area across the project site. Stewardship activities consist of providing supplemental irrigation water to plantings, managing invasive species through chemical or physical methods, placing mulch around plantings, and/or replanting unsuccessful plantings. All riparian stewardship actions take place outside of the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

LTPBR project actions at this site include performing maintenance and stewardship on the existing BDAs/PALS within the creek. Maintenance activities consist of using vegetation materials (e.g., tree branches, sticks, logs, leaves, sod/root mats, duff, etc.) and fill materials (e.g., dirt, gravel, sand, etc.) to repair, build-up, extend, or otherwise adaptively manage BDAs and PALS structures across the site. Materials are generally harvested from on-site sources when available, but caution is taken on the level of disturbance or harm to the site. All maintenance actions take place within the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

#2: Describe all ground disturbing activities (length, width and depth of disturbance and equipment utilized) that will take place in the Area of Potential Effect (APE). Include the location of any construction staging or access roads associated with your project that will involve ground disturbance.

Ground disturbance for riparian plant stewardship will be localized to planting locations, if replanting is necessary due to planting mortality. Planting holes will be dug using hand shovels/spades or handheld gas-powered augers. Holes will be dug a maximum of 18 inches deep with a diameter of 12 inches wide. This ground disturbance will be relatively minor at each planting area, and will only be used when encountering unsuccessful plantings.

Ground disturbance for the maintenance of LTPBR project components will be localized to BDA and PALS structure locations. BDAs/PALS may require additional materials (vegetative and fill) added to repair, build-up, extend, or otherwise adaptively manage the structures across the site. Fill materials (e.g., dirt, gravel, sand, etc.) are generally harvested from on-site sources when available. This may involve using hand shovels/spades to excavate fill materials from the stream banks or from the floodplain (borrow pits), to add to the structures in the stream. Excavation for fill material borrow pits will be dug a maximum of 12 inches deep with a diameter of 24 inches wide. Multiple borrow pits may be needed across project sites to acquire the necessary amounts of fill material to maintenance BDA and PALS structures. Caution will be taken to not excessively disturb the site by digging these borrow pits.

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

This project package consists of previously implemented riparian restoration and LTPBR project sites. The focus of this project is to provide stewardship and maintenance to the restoration components at these sites. Thus, pre-construction disturbance is outside the scope of this project, as it will have already occurred during prior phases of the project.

## Project Application Report - 25-1217

#4: 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).

The existing project area conditions at this site include a riparian planting project using native vegetation plantings and invasive vegetation management to restore riparian plant buffers and riparian vegetation communities. Additionally, the existing project area conditions at this site include a LTPBR project using BDAs and PALS to restore normative watershed processes to the stream channel and to improve aquatic habitat quantities and qualities. This was because the riparian corridor and stream channel at this site was identified as being degraded for various reasons due to historic and current land use practices, including: logging, road/infrastructure building, agriculture, grazing, fire suppression, and many others. Site disturbances from historic and current land use practices, fire, drought, and other climate changing conditions have also led to this degradation.

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

No

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

No

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

Yes

#7a: 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.

This site received a Cultural Resource Review during prior phases for the initial implementation of this project. This information will be provided by the June 23rd submission deadline.

#8: Is the worksite located within an existing park, wildlife refuge, natural area preserve, or other recreation or habitat site?

No

#9: 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.

No

### Area: Eagle Creek- Hedeem Site

## Project Application Report - 25-1217

#1: Provide a description of the project actions at this worksite (acquisition, development and/or restoration activities that will occur as a part of this project)

Riparian project actions at this site include performing stewardship and maintenance on the existing riparian planting area across the project site. Stewardship activities consist of providing supplemental irrigation water to plantings, managing invasive species through chemical or physical methods, placing mulch around plantings, and/or replanting unsuccessful plantings. All riparian stewardship actions take place outside of the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

LTPBR project actions at this site include performing maintenance and stewardship on the existing BDAs/PALS within the creek. Maintenance activities consist of using vegetation materials (e.g., tree branches, sticks, logs, leaves, sod/root mats, duff, etc.) and fill materials (e.g., dirt, gravel, sand, etc.) to repair, build-up, extend, or otherwise adaptively manage BDAs and PALS structures across the site. Materials are generally harvested from on-site sources when available, but caution is taken on the level of disturbance or harm to the site. All maintenance actions take place within the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

#2: Describe all ground disturbing activities (length, width and depth of disturbance and equipment utilized) that will take place in the Area of Potential Effect (APE). Include the location of any construction staging or access roads associated with your project that will involve ground disturbance.

Ground disturbance for riparian plant stewardship will be localized to planting locations, if replanting is necessary due to planting mortality. Planting holes will be dug using hand shovels/spades or handheld gas-powered augers. Holes will be dug a maximum of 18 inches deep with a diameter of 12 inches wide. This ground disturbance will be relatively minor at each planting area, and will only be used when encountering unsuccessful plantings.

Ground disturbance for the maintenance of LTPBR project components will be localized to BDA and PALS structure locations. BDAs/PALS may require additional materials (vegetative and fill) added to repair, build-up, extend, or otherwise adaptively manage the structures across the site. Fill materials (e.g., dirt, gravel, sand, etc.) are generally harvested from on-site sources when available. This may involve using hand shovels/spades to excavate fill materials from the stream banks or from the floodplain (borrow pits), to add to the structures in the stream. Excavation for fill material borrow pits will be dug a maximum of 12 inches deep with a diameter of 24 inches wide. Multiple borrow pits may be needed across project sites to acquire the necessary amounts of fill material to maintenance BDA and PALS structures. Caution will be taken to not excessively disturb the site by digging these borrow pits.

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

This project package consists of previously implemented riparian restoration and LTPBR project sites. The focus of this project is to provide stewardship and maintenance to the restoration components at these sites. Thus, pre-construction disturbance is outside the scope of this project, as it will have already occurred during prior phases of the project.

## Project Application Report - 25-1217

#4: 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).

The existing project area conditions at this site include a riparian planting project using native vegetation plantings and invasive vegetation management to restore riparian plant buffers and riparian vegetation communities. Additionally, the existing project area conditions at this site include a LTPBR project using BDAs and PALS to restore normative watershed processes to the stream channel and to improve aquatic habitat quantities and qualities. This was because the riparian corridor and stream channel at this site was identified as being degraded for various reasons due to historic and current land use practices, including: logging, road/infrastructure building, agriculture, grazing, fire suppression, and many others. Site disturbances from historic and current land use practices, fire, drought, and other climate changing conditions have also led to this degradation.

#5: Will a federal permit be required to complete the scope of work on the project areas located within this worksite?  
No

#6: Are you utilizing Federal Funding to complete the scope of work? This includes funds that are being shown as match or not.  
No

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

#7a: 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.

This site received a Cultural Resource Review during prior phases for the initial implementation of this project. This information will be provided by the June 23rd submission deadline.

#8: Is the worksite located within an existing park, wildlife refuge, natural area preserve, or other recreation or habitat site?  
No

#9: 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.  
No

**Area: Eagle Creek- Youkey Site**

## Project Application Report - 25-1217

#1: Provide a description of the project actions at this worksite (acquisition, development and/or restoration activities that will occur as a part of this project)

Riparian project actions at this site include performing stewardship and maintenance on the existing riparian planting area across the project site. Stewardship activities consist of providing supplemental irrigation water to plantings, managing invasive species through chemical or physical methods, placing mulch around plantings, and/or replanting unsuccessful plantings. All riparian stewardship actions take place outside of the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

LTPBR project actions at this site include performing maintenance and stewardship on the existing BDAs/PALS within the creek. Maintenance activities consist of using vegetation materials (e.g., tree branches, sticks, logs, leaves, sod/root mats, duff, etc.) and fill materials (e.g., dirt, gravel, sand, etc.) to repair, build-up, extend, or otherwise adaptively manage BDAs and PALS structures across the site. Materials are generally harvested from on-site sources when available, but caution is taken on the level of disturbance or harm to the site. All maintenance actions take place within the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

#2: Describe all ground disturbing activities (length, width and depth of disturbance and equipment utilized) that will take place in the Area of Potential Effect (APE). Include the location of any construction staging or access roads associated with your project that will involve ground disturbance.

Ground disturbance for riparian plant stewardship will be localized to planting locations, if replanting is necessary due to planting mortality. Planting holes will be dug using hand shovels/spades or handheld gas-powered augers. Holes will be dug a maximum of 18 inches deep with a diameter of 12 inches wide. This ground disturbance will be relatively minor at each planting area, and will only be used when encountering unsuccessful plantings.

Ground disturbance for the maintenance of LTPBR project components will be localized to BDA and PALS structure locations. BDAs/PALS may require additional materials (vegetative and fill) added to repair, build-up, extend, or otherwise adaptively manage the structures across the site. Fill materials (e.g., dirt, gravel, sand, etc.) are generally harvested from on-site sources when available. This may involve using hand shovels/spades to excavate fill materials from the stream banks or from the floodplain (borrow pits), to add to the structures in the stream. Excavation for fill material borrow pits will be dug a maximum of 12 inches deep with a diameter of 24 inches wide. Multiple borrow pits may be needed across project sites to acquire the necessary amounts of fill material to maintenance BDA and PALS structures. Caution will be taken to not excessively disturb the site by digging these borrow pits.

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

This project package consists of previously implemented riparian restoration and LTPBR project sites. The focus of this project is to provide stewardship and maintenance to the restoration components at these sites. Thus, pre-construction disturbance is outside the scope of this project, as it will have already occurred during prior phases of the project.

## Project Application Report - 25-1217

#4: 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).

The existing project area conditions at this site include a riparian planting project using native vegetation plantings and invasive vegetation management to restore riparian plant buffers and riparian vegetation communities. Additionally, the existing project area conditions at this site include a LTPBR project using BDAs and PALS to restore normative watershed processes to the stream channel and to improve aquatic habitat quantities and qualities. This was because the riparian corridor and stream channel at this site was identified as being degraded for various reasons due to historic and current land use practices, including: logging, road/infrastructure building, agriculture, grazing, fire suppression, and many others. Site disturbances from historic and current land use practices, fire, drought, and other climate changing conditions have also led to this degradation.

#5: Will a federal permit be required to complete the scope of work on the project areas located within this worksite?  
No

#6: Are you utilizing Federal Funding to complete the scope of work? This includes funds that are being shown as match or not.  
No

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

#7a: 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.

This site received a Cultural Resource Review during prior phases for the initial implementation of this project. This information will be provided by the June 23rd submission deadline.

#8: Is the worksite located within an existing park, wildlife refuge, natural area preserve, or other recreation or habitat site?  
No

#9: 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.  
No

### Worksite #6: Little Chumstick Creek- Wenatchee River watershed

#### Area: Little Chumstick Creek- Conkle Site

## Project Application Report - 25-1217

#1: Provide a description of the project actions at this worksite (acquisition, development and/or restoration activities that will occur as a part of this project)

Riparian project actions at this site include performing stewardship and maintenance on the existing riparian planting area across the project site. Stewardship activities consist of providing supplemental irrigation water to plantings, managing invasive species through chemical or physical methods, placing mulch around plantings, and/or replanting unsuccessful plantings. All riparian stewardship actions take place outside of the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

LTPBR project actions at this site include performing maintenance and stewardship on the existing BDAs/PALS within the creek. Maintenance activities consist of using vegetation materials (e.g., tree branches, sticks, logs, leaves, sod/root mats, duff, etc.) and fill materials (e.g., dirt, gravel, sand, etc.) to repair, build-up, extend, or otherwise adaptively manage BDAs and PALS structures across the site. Materials are generally harvested from on-site sources when available, but caution is taken on the level of disturbance or harm to the site. All maintenance actions take place within the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

#2: Describe all ground disturbing activities (length, width and depth of disturbance and equipment utilized) that will take place in the Area of Potential Effect (APE). Include the location of any construction staging or access roads associated with your project that will involve ground disturbance.

Ground disturbance for riparian plant stewardship will be localized to planting locations, if replanting is necessary due to planting mortality. Planting holes will be dug using hand shovels/spades or handheld gas-powered augers. Holes will be dug a maximum of 18 inches deep with a diameter of 12 inches wide. This ground disturbance will be relatively minor at each planting area, and will only be used when encountering unsuccessful plantings.

Ground disturbance for the maintenance of LTPBR project components will be localized to BDA and PALS structure locations. BDAs/PALS may require additional materials (vegetative and fill) added to repair, build-up, extend, or otherwise adaptively manage the structures across the site. Fill materials (e.g., dirt, gravel, sand, etc.) are generally harvested from on-site sources when available. This may involve using hand shovels/spades to excavate fill materials from the stream banks or from the floodplain (borrow pits), to add to the structures in the stream. Excavation for fill material borrow pits will be dug a maximum of 12 inches deep with a diameter of 24 inches wide. Multiple borrow pits may be needed across project sites to acquire the necessary amounts of fill material to maintenance BDA and PALS structures. Caution will be taken to not excessively disturb the site by digging these borrow pits.

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

This project package consists of previously implemented riparian restoration and LTPBR project sites. The focus of this project is to provide stewardship and maintenance to the restoration components at these sites. Thus, pre-construction disturbance is outside the scope of this project, as it will have already occurred during prior phases of the project.

## Project Application Report - 25-1217

#4: 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).

The existing project area conditions at this site include a riparian planting project using native vegetation plantings and invasive vegetation management to restore riparian plant buffers and riparian vegetation communities. Additionally, the existing project area conditions at this site include a LTPBR project using BDAs and PALS to restore normative watershed processes to the stream channel and to improve aquatic habitat quantities and qualities. This was because the riparian corridor and stream channel at this site was identified as being degraded for various reasons due to historic and current land use practices, including: logging, road/infrastructure building, agriculture, grazing, fire suppression, and many others. Site disturbances from historic and current land use practices, fire, drought, and other climate changing conditions have also led to this degradation.

#5: Will a federal permit be required to complete the scope of work on the project areas located within this worksite?  
No

#6: Are you utilizing Federal Funding to complete the scope of work? This includes funds that are being shown as match or not.  
No

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

#7a: 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.

This site received a Cultural Resource Review during prior phases for the initial implementation of this project. This information will be provided by the June 23rd submission deadline.

#8: Is the worksite located within an existing park, wildlife refuge, natural area preserve, or other recreation or habitat site?  
No

#9: 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.  
No

**Area: Little Chumstick Creek- Drew site**

## Project Application Report - 25-1217

#1: Provide a description of the project actions at this worksite (acquisition, development and/or restoration activities that will occur as a part of this project)

Riparian project actions at this site include performing stewardship and maintenance on the existing riparian planting area across the project site. Stewardship activities consist of providing supplemental irrigation water to plantings, managing invasive species through chemical or physical methods, placing mulch around plantings, and/or replanting unsuccessful plantings. All riparian stewardship actions take place outside of the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

LTPBR project actions at this site include performing maintenance and stewardship on the existing BDAs/PALS within the creek. Maintenance activities consist of using vegetation materials (e.g., tree branches, sticks, logs, leaves, sod/root mats, duff, etc.) and fill materials (e.g., dirt, gravel, sand, etc.) to repair, build-up, extend, or otherwise adaptively manage BDAs and PALS structures across the site. Materials are generally harvested from on-site sources when available, but caution is taken on the level of disturbance or harm to the site. All maintenance actions take place within the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

#2: Describe all ground disturbing activities (length, width and depth of disturbance and equipment utilized) that will take place in the Area of Potential Effect (APE). Include the location of any construction staging or access roads associated with your project that will involve ground disturbance.

Ground disturbance for riparian plant stewardship will be localized to planting locations, if replanting is necessary due to planting mortality. Planting holes will be dug using hand shovels/spades or handheld gas-powered augers. Holes will be dug a maximum of 18 inches deep with a diameter of 12 inches wide. This ground disturbance will be relatively minor at each planting area, and will only be used when encountering unsuccessful plantings.

Ground disturbance for the maintenance of LTPBR project components will be localized to BDA and PALS structure locations. BDAs/PALS may require additional materials (vegetative and fill) added to repair, build-up, extend, or otherwise adaptively manage the structures across the site. Fill materials (e.g., dirt, gravel, sand, etc.) are generally harvested from on-site sources when available. This may involve using hand shovels/spades to excavate fill materials from the stream banks or from the floodplain (borrow pits), to add to the structures in the stream. Excavation for fill material borrow pits will be dug a maximum of 12 inches deep with a diameter of 24 inches wide. Multiple borrow pits may be needed across project sites to acquire the necessary amounts of fill material to maintenance BDA and PALS structures. Caution will be taken to not excessively disturb the site by digging these borrow pits.

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

This project package consists of previously implemented riparian restoration and LTPBR project sites. The focus of this project is to provide stewardship and maintenance to the restoration components at these sites. Thus, pre-construction disturbance is outside the scope of this project, as it will have already occurred during prior phases of the project.

## Project Application Report - 25-1217

#4: 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).

The existing project area conditions at this site include a riparian planting project using native vegetation plantings and invasive vegetation management to restore riparian plant buffers and riparian vegetation communities. Additionally, the existing project area conditions at this site include a LTPBR project using BDAs and PALS to restore normative watershed processes to the stream channel and to improve aquatic habitat quantities and qualities. This was because the riparian corridor and stream channel at this site was identified as being degraded for various reasons due to historic and current land use practices, including: logging, road/infrastructure building, agriculture, grazing, fire suppression, and many others. Site disturbances from historic and current land use practices, fire, drought, and other climate changing conditions have also led to this degradation.

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

No

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

No

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

Yes

#7a: 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.

This site received a Cultural Resource Review during prior phases for the initial implementation of this project. This information will be provided by the June 23rd submission deadline.

#8: Is the worksite located within an existing park, wildlife refuge, natural area preserve, or other recreation or habitat site?

No

#9: 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.

No

**Area: Little Chumstick Creek- Holte site**

## Project Application Report - 25-1217

#1: Provide a description of the project actions at this worksite (acquisition, development and/or restoration activities that will occur as a part of this project)

Riparian project actions at this site include performing stewardship and maintenance on the existing riparian planting area across the project site. Stewardship activities consist of providing supplemental irrigation water to plantings, managing invasive species through chemical or physical methods, placing mulch around plantings, and/or replanting unsuccessful plantings. All riparian stewardship actions take place outside of the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

LTPBR project actions at this site include performing maintenance and stewardship on the existing BDAs/PALS within the creek. Maintenance activities consist of using vegetation materials (e.g., tree branches, sticks, logs, leaves, sod/root mats, duff, etc.) and fill materials (e.g., dirt, gravel, sand, etc.) to repair, build-up, extend, or otherwise adaptively manage BDAs and PALS structures across the site. Materials are generally harvested from on-site sources when available, but caution is taken on the level of disturbance or harm to the site. All maintenance actions take place within the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

#2: Describe all ground disturbing activities (length, width and depth of disturbance and equipment utilized) that will take place in the Area of Potential Effect (APE). Include the location of any construction staging or access roads associated with your project that will involve ground disturbance.

Ground disturbance for riparian plant stewardship will be localized to planting locations, if replanting is necessary due to planting mortality. Planting holes will be dug using hand shovels/spades or handheld gas-powered augers. Holes will be dug a maximum of 18 inches deep with a diameter of 12 inches wide. This ground disturbance will be relatively minor at each planting area, and will only be used when encountering unsuccessful plantings.

Ground disturbance for the maintenance of LTPBR project components will be localized to BDA and PALS structure locations. BDAs/PALS may require additional materials (vegetative and fill) added to repair, build-up, extend, or otherwise adaptively manage the structures across the site. Fill materials (e.g., dirt, gravel, sand, etc.) are generally harvested from on-site sources when available. This may involve using hand shovels/spades to excavate fill materials from the stream banks or from the floodplain (borrow pits), to add to the structures in the stream. Excavation for fill material borrow pits will be dug a maximum of 12 inches deep with a diameter of 24 inches wide. Multiple borrow pits may be needed across project sites to acquire the necessary amounts of fill material to maintenance BDA and PALS structures. Caution will be taken to not excessively disturb the site by digging these borrow pits.

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

This project package consists of previously implemented riparian restoration and LTPBR project sites. The focus of this project is to provide stewardship and maintenance to the restoration components at these sites. Thus, pre-construction disturbance is outside the scope of this project, as it will have already occurred during prior phases of the project.

## Project Application Report - 25-1217

#4: 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).

The existing project area conditions at this site include a riparian planting project using native vegetation plantings and invasive vegetation management to restore riparian plant buffers and riparian vegetation communities. Additionally, the existing project area conditions at this site include a LTPBR project using BDAs and PALS to restore normative watershed processes to the stream channel and to improve aquatic habitat quantities and qualities. This was because the riparian corridor and stream channel at this site was identified as being degraded for various reasons due to historic and current land use practices, including: logging, road/infrastructure building, agriculture, grazing, fire suppression, and many others. Site disturbances from historic and current land use practices, fire, drought, and other climate changing conditions have also led to this degradation.

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

No

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

No

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

Yes

#7a: 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.

This site received a Cultural Resource Review during prior phases for the initial implementation of this project. This information will be provided by the June 23rd submission deadline.

#8: Is the worksite located within an existing park, wildlife refuge, natural area preserve, or other recreation or habitat site?

No

#9: 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.

No

**Area: Little Chumstick Creek- O'Neill site**

## Project Application Report - 25-1217

#1: Provide a description of the project actions at this worksite (acquisition, development and/or restoration activities that will occur as a part of this project)

Riparian project actions at this site include performing stewardship and maintenance on the existing riparian planting area across the project site. Stewardship activities consist of providing supplemental irrigation water to plantings, managing invasive species through chemical or physical methods, placing mulch around plantings, and/or replanting unsuccessful plantings. All riparian stewardship actions take place outside of the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

LTPBR project actions at this site include performing maintenance and stewardship on the existing BDAs/PALS within the creek. Maintenance activities consist of using vegetation materials (e.g., tree branches, sticks, logs, leaves, sod/root mats, duff, etc.) and fill materials (e.g., dirt, gravel, sand, etc.) to repair, build-up, extend, or otherwise adaptively manage BDAs and PALS structures across the site. Materials are generally harvested from on-site sources when available, but caution is taken on the level of disturbance or harm to the site. All maintenance actions take place within the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

#2: Describe all ground disturbing activities (length, width and depth of disturbance and equipment utilized) that will take place in the Area of Potential Effect (APE). Include the location of any construction staging or access roads associated with your project that will involve ground disturbance.

Ground disturbance for riparian plant stewardship will be localized to planting locations, if replanting is necessary due to planting mortality. Planting holes will be dug using hand shovels/spades or handheld gas-powered augers. Holes will be dug a maximum of 18 inches deep with a diameter of 12 inches wide. This ground disturbance will be relatively minor at each planting area, and will only be used when encountering unsuccessful plantings.

Ground disturbance for the maintenance of LTPBR project components will be localized to BDA and PALS structure locations. BDAs/PALS may require additional materials (vegetative and fill) added to repair, build-up, extend, or otherwise adaptively manage the structures across the site. Fill materials (e.g., dirt, gravel, sand, etc.) are generally harvested from on-site sources when available. This may involve using hand shovels/spades to excavate fill materials from the stream banks or from the floodplain (borrow pits), to add to the structures in the stream. Excavation for fill material borrow pits will be dug a maximum of 12 inches deep with a diameter of 24 inches wide. Multiple borrow pits may be needed across project sites to acquire the necessary amounts of fill material to maintenance BDA and PALS structures. Caution will be taken to not excessively disturb the site by digging these borrow pits.

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

This project package consists of previously implemented riparian restoration and LTPBR project sites. The focus of this project is to provide stewardship and maintenance to the restoration components at these sites. Thus, pre-construction disturbance is outside the scope of this project, as it will have already occurred during prior phases of the project.

## Project Application Report - 25-1217

#4: 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).

The existing project area conditions at this site include a riparian planting project using native vegetation plantings and invasive vegetation management to restore riparian plant buffers and riparian vegetation communities. Additionally, the existing project area conditions at this site include a LTPBR project using BDAs and PALS to restore normative watershed processes to the stream channel and to improve aquatic habitat quantities and qualities. This was because the riparian corridor and stream channel at this site was identified as being degraded for various reasons due to historic and current land use practices, including: logging, road/infrastructure building, agriculture, grazing, fire suppression, and many others. Site disturbances from historic and current land use practices, fire, drought, and other climate changing conditions have also led to this degradation.

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

No

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

No

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

Yes

#7a: 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.

This site received a Cultural Resource Review during prior phases for the initial implementation of this project. This information will be provided by the June 23rd submission deadline.

#8: Is the worksite located within an existing park, wildlife refuge, natural area preserve, or other recreation or habitat site?

No

#9: 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.

No

### Worksite #7: Derby Creek- Wenatchee River watershed

Area: Derby Creek- DNR site

## Project Application Report - 25-1217

#1: Provide a description of the project actions at this worksite (acquisition, development and/or restoration activities that will occur as a part of this project)

Riparian project actions at this site include performing stewardship and maintenance on the existing riparian planting area across the project site. Stewardship activities consist of providing supplemental irrigation water to plantings, managing invasive species through chemical or physical methods, placing mulch around plantings, and/or replanting unsuccessful plantings. All riparian stewardship actions take place outside of the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

LTPBR project actions at this site include performing maintenance and stewardship on the existing BDAs/PALS within the creek. Maintenance activities consist of using vegetation materials (e.g., tree branches, sticks, logs, leaves, sod/root mats, duff, etc.) and fill materials (e.g., dirt, gravel, sand, etc.) to repair, build-up, extend, or otherwise adaptively manage BDAs and PALS structures across the site. Materials are generally harvested from on-site sources when available, but caution is taken on the level of disturbance or harm to the site. All maintenance actions take place within the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

#2: Describe all ground disturbing activities (length, width and depth of disturbance and equipment utilized) that will take place in the Area of Potential Effect (APE). Include the location of any construction staging or access roads associated with your project that will involve ground disturbance.

Ground disturbance for riparian plant stewardship will be localized to planting locations, if replanting is necessary due to planting mortality. Planting holes will be dug using hand shovels/spades or handheld gas-powered augers. Holes will be dug a maximum of 18 inches deep with a diameter of 12 inches wide. This ground disturbance will be relatively minor at each planting area, and will only be used when encountering unsuccessful plantings.

Ground disturbance for the maintenance of LTPBR project components will be localized to BDA and PALS structure locations. BDAs/PALS may require additional materials (vegetative and fill) added to repair, build-up, extend, or otherwise adaptively manage the structures across the site. Fill materials (e.g., dirt, gravel, sand, etc.) are generally harvested from on-site sources when available. This may involve using hand shovels/spades to excavate fill materials from the stream banks or from the floodplain (borrow pits), to add to the structures in the stream. Excavation for fill material borrow pits will be dug a maximum of 12 inches deep with a diameter of 24 inches wide. Multiple borrow pits may be needed across project sites to acquire the necessary amounts of fill material to maintenance BDA and PALS structures. Caution will be taken to not excessively disturb the site by digging these borrow pits.

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

This project package consists of previously implemented riparian restoration and LTPBR project sites. The focus of this project is to provide stewardship and maintenance to the restoration components at these sites. Thus, pre-construction disturbance is outside the scope of this project, as it will have already occurred during prior phases of the project.

## Project Application Report - 25-1217

#4: 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).

The existing project area conditions at this site include a riparian planting project using native vegetation plantings and invasive vegetation management to restore riparian plant buffers and riparian vegetation communities. Additionally, the existing project area conditions at this site include a LTPBR project using BDAs and PALS to restore normative watershed processes to the stream channel and to improve aquatic habitat quantities and qualities. This was because the riparian corridor and stream channel at this site was identified as being degraded for various reasons due to historic and current land use practices, including: logging, road/infrastructure building, agriculture, grazing, fire suppression, and many others. Site disturbances from historic and current land use practices, fire, drought, and other climate changing conditions have also led to this degradation.

#5: Will a federal permit be required to complete the scope of work on the project areas located within this worksite?  
No

#6: Are you utilizing Federal Funding to complete the scope of work? This includes funds that are being shown as match or not.  
No

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

#7a: 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.

This site received a Cultural Resource Review during prior phases for the initial implementation of this project. This information will be provided by the June 23rd submission deadline.

#8: Is the worksite located within an existing park, wildlife refuge, natural area preserve, or other recreation or habitat site?  
No

#9: 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.  
No

### Area: Derby Creek- Stroud Site

#1: Provide a description of the project actions at this worksite (acquisition, development and/or restoration activities that will occur as a part of this project)

LTPBR project actions at this site include performing maintenance and stewardship on the existing BDAs/PALS within the creek. Maintenance activities consist of using vegetation materials (e.g., tree branches, sticks, logs, leaves, sod/root mats, duff, etc.) and fill materials (e.g., dirt, gravel, sand, etc.) to repair, build-up, extend, or otherwise adaptively manage BDAs and PALS structures across the site. Materials are generally harvested from on-site sources when available, but caution is taken on the level of disturbance or harm to the site. All maintenance actions take place within the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

## Project Application Report - 25-1217

- #2: Describe all ground disturbing activities (length, width and depth of disturbance and equipment utilized) that will take place in the Area of Potential Effect (APE). Include the location of any construction staging or access roads associated with your project that will involve ground disturbance.

Ground disturbance for the maintenance of LTPBR project components will be localized to BDA and PALS structure locations. BDAs/PALS may require additional materials (vegetative and fill) added to repair, build-up, extend, or otherwise adaptively manage the structures across the site. Fill materials (e.g., dirt, gravel, sand, etc.) are generally harvested from on-site sources when available. This may involve using hand shovels/spades to excavate fill materials from the stream banks or from the floodplain (borrow pits), to add to the structures in the stream. Excavation for fill material borrow pits will be dug a maximum of 12 inches deep with a diameter of 24 inches wide. Multiple borrow pits may be needed across project sites to acquire the necessary amounts of fill material to maintenance BDA and PALS structures. Caution will be taken to not excessively disturb the site by digging these borrow pits.

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

This project package consists of previously implemented riparian restoration and LTPBR project sites. The focus of this project is to provide stewardship and maintenance to the restoration components at these sites. Thus, pre-construction disturbance is outside the scope of this project, as it will have already occurred during prior phases of the project.

- #4: 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).

The existing project area conditions at this site include a LTPBR project using BDAs and PALS to restore normative watershed processes to the stream channel and to improve aquatic habitat quantities and qualities. This was because the stream channel at this site was identified as being degraded for various reasons due to historic and current land use practices, including: logging, road/infrastructure building, agriculture, grazing, fire suppression, and many others. Site disturbances from historic and current land use practices, fire, drought, and other climate changing conditions have also led to this degradation.

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

No

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

No

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

Yes

- #7a: 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.

This site received a Cultural Resource Review during prior phases for the initial implementation of this project. This information will be provided by the June 23rd submission deadline.

- #8: Is the worksite located within an existing park, wildlife refuge, natural area preserve, or other recreation or habitat site?

No

- #9: 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.

No

# Project Application Report - 25-1217

## Worksite #8: Peshastin Creek- Wenatchee River watershed

### Area: Lower Peshastin Creek Site

- #1: Provide a description of the project actions at this worksite (acquisition, development and/or restoration activities that will occur as a part of this project)

Riparian project actions at this site include performing stewardship and maintenance on the existing riparian planting area across the project site. Stewardship activities consist of providing supplemental irrigation water to plantings, managing invasive species through chemical or physical methods, placing mulch around plantings, and/or replanting unsuccessful plantings. All riparian stewardship actions take place outside of the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

- #2: Describe all ground disturbing activities (length, width and depth of disturbance and equipment utilized) that will take place in the Area of Potential Effect (APE). Include the location of any construction staging or access roads associated with your project that will involve ground disturbance.

Ground disturbance for riparian plant stewardship will be localized to planting locations, if replanting is necessary due to planting mortality. Planting holes will be dug using hand shovels/spades or handheld gas-powered augers. Holes will be dug a maximum of 18 inches deep with a diameter of 12 inches wide. This ground disturbance will be relatively minor at each planting area, and will only be used when encountering unsuccessful plantings.

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

This project package consists of previously implemented riparian restoration and LTPBR project sites. The focus of this project is to provide stewardship and maintenance to the restoration components at these sites. Thus, pre-construction disturbance is outside the scope of this project, as it will have already occurred during prior phases of the project.

- #4: 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).

The existing project area conditions at this site include a riparian planting project using native vegetation plantings and invasive vegetation management to restore riparian plant buffers and riparian vegetation communities. This was because the riparian corridor at this site was identified as being degraded for various reasons due to historic and current land use practices, including: logging, road/infrastructure building, agriculture, grazing, fire suppression, and many others. Site disturbances from historic and current land use practices, fire, drought, and other climate changing conditions have also led to this degradation.

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

No

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

No

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

Yes

## Project Application Report - 25-1217

#7a: 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.

This site received a Cultural Resource Review during prior phases for the initial implementation of this project. This information will be provided by the June 23rd submission deadline.

#8: Is the worksite located within an existing park, wildlife refuge, natural area preserve, or other recreation or habitat site?

No

#9: 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.

No

### Area: Peshastin Creek 2.5 Site

#1: Provide a description of the project actions at this worksite (acquisition, development and/or restoration activities that will occur as a part of this project)

Riparian project actions at this site include performing stewardship and maintenance on the existing riparian planting area across the project site. Stewardship activities consist of providing supplemental irrigation water to plantings, managing invasive species through chemical or physical methods, placing mulch around plantings, and/or replanting unsuccessful plantings. All riparian stewardship actions take place outside of the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

#2: Describe all ground disturbing activities (length, width and depth of disturbance and equipment utilized) that will take place in the Area of Potential Effect (APE). Include the location of any construction staging or access roads associated with your project that will involve ground disturbance.

Ground disturbance for riparian plant stewardship will be localized to planting locations, if replanting is necessary due to planting mortality. Planting holes will be dug using hand shovels/spades or handheld gas-powered augers. Holes will be dug a maximum of 18 inches deep with a diameter of 12 inches wide. This ground disturbance will be relatively minor at each planting area, and will only be used when encountering unsuccessful plantings.

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

This project package consists of previously implemented riparian restoration and LTPBR project sites. The focus of this project is to provide stewardship and maintenance to the restoration components at these sites. Thus, pre-construction disturbance is outside the scope of this project, as it will have already occurred during prior phases of the project.

#4: 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).

The existing project area conditions at this site include a riparian planting project using native vegetation plantings and invasive vegetation management to restore riparian plant buffers and riparian vegetation communities. This was because the riparian corridor at this site was identified as being degraded for various reasons due to historic and current land use practices, including: logging, road/infrastructure building, agriculture, grazing, fire suppression, and many others. Site disturbances from historic and current land use practices, fire, drought, and other climate changing conditions have also led to this degradation.

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

No

## Project Application Report - 25-1217

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

No

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

Yes

#7a: 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.

This site received a Cultural Resource Review during prior phases for the initial implementation of this project. This information will be provided by the June 23rd submission deadline.

#8: Is the worksite located within an existing park, wildlife refuge, natural area preserve, or other recreation or habitat site?

No

#9: 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.

No

### Worksite #9: Goodwin Side Channel- Wenatchee River watershed

#### Area: Goodwin Side Channel Site

#1: Provide a description of the project actions at this worksite (acquisition, development and/or restoration activities that will occur as a part of this project)

Riparian project actions at this site include performing stewardship and maintenance on the existing riparian planting area across the project site. Stewardship activities consist of providing supplemental irrigation water to plantings, managing invasive species through chemical or physical methods, placing mulch around plantings, and/or replanting unsuccessful plantings. All riparian stewardship actions take place outside of the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

#2: Describe all ground disturbing activities (length, width and depth of disturbance and equipment utilized) that will take place in the Area of Potential Effect (APE). Include the location of any construction staging or access roads associated with your project that will involve ground disturbance.

Ground disturbance for riparian plant stewardship will be localized to planting locations, if replanting is necessary due to planting mortality. Planting holes will be dug using hand shovels/spades or handheld gas-powered augers. Holes will be dug a maximum of 18 inches deep with a diameter of 12 inches wide. This ground disturbance will be relatively minor at each planting area, and will only be used when encountering unsuccessful plantings.

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

This project package consists of previously implemented riparian restoration and LTPBR project sites. The focus of this project is to provide stewardship and maintenance to the restoration components at these sites. Thus, pre-construction disturbance is outside the scope of this project, as it will have already occurred during prior phases of the project.

## Project Application Report - 25-1217

- #4: 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).

The existing project area conditions at this site include a riparian planting project using native vegetation plantings and invasive vegetation management to restore riparian plant buffers and riparian vegetation communities. This was because the riparian corridor at this site was identified as being degraded for various reasons due to historic and current land use practices, including: logging, road/infrastructure building, agriculture, grazing, fire suppression, and many others. Site disturbances from historic and current land use practices, fire, drought, and other climate changing conditions have also led to this degradation.

- #5: Will a federal permit be required to complete the scope of work on the project areas located within this worksite?  
No

- #6: Are you utilizing Federal Funding to complete the scope of work? This includes funds that are being shown as match or not.  
No

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

- #7a: 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.

This site received a Cultural Resource Review during prior phases for the initial implementation of this project. This information will be provided by the June 23rd submission deadline.

- #8: Is the worksite located within an existing park, wildlife refuge, natural area preserve, or other recreation or habitat site?  
No

- #9: 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.  
No

### Area: Goodwin Side Channel Staging site

- #1: Provide a description of the project actions at this worksite (acquisition, development and/or restoration activities that will occur as a part of this project)

Riparian project actions at this site include performing stewardship and maintenance on the existing riparian planting area across the project site. Stewardship activities consist of providing supplemental irrigation water to plantings, managing invasive species through chemical or physical methods, placing mulch around plantings, and/or replanting unsuccessful plantings. All riparian stewardship actions take place outside of the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

- #2: Describe all ground disturbing activities (length, width and depth of disturbance and equipment utilized) that will take place in the Area of Potential Effect (APE). Include the location of any construction staging or access roads associated with your project that will involve ground disturbance.

Ground disturbance for riparian plant stewardship will be localized to planting locations, if replanting is necessary due to planting mortality. Planting holes will be dug using hand shovels/spades or handheld gas-powered augers. Holes will be dug a maximum of 18 inches deep with a diameter of 12 inches wide. This ground disturbance will be relatively minor at each planting area, and will only be used when encountering unsuccessful plantings.

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

This project package consists of previously implemented riparian restoration and LTPBR project sites. The focus of this project is to provide stewardship and maintenance to the restoration components at these sites. Thus, pre-construction disturbance is outside the scope of this project, as it will have already occurred during prior phases of the project.

#4: 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).

The existing project area conditions at this site include a riparian planting project using native vegetation plantings and invasive vegetation management to restore riparian plant buffers and riparian vegetation communities. This was because the riparian corridor at this site was identified as being degraded for various reasons due to historic and current land use practices, including: logging, road/infrastructure building, agriculture, grazing, fire suppression, and many others. Site disturbances from historic and current land use practices, fire, drought, and other climate changing conditions have also led to this degradation.

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

No

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

No

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

Yes

#7a: 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.

This site received a Cultural Resource Review during prior phases for the initial implementation of this project. This information will be provided by the June 23rd submission deadline.

#8: Is the worksite located within an existing park, wildlife refuge, natural area preserve, or other recreation or habitat site?

No

#9: 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.

No

### Worksite #10: Roaring Creek- Entiat River watershed

#### Area: Roaring Creek DS site

#1: Provide a description of the project actions at this worksite (acquisition, development and/or restoration activities that will occur as a part of this project)

LTPBR project actions at this site include performing maintenance and stewardship on the existing BDAs/PALS within the creek. Maintenance activities consist of using vegetation materials (e.g., tree branches, sticks, logs, leaves, sod/root mats, duff, etc.) and fill materials (e.g., dirt, gravel, sand, etc.) to repair, build-up, extend, or otherwise adaptively manage BDAs and PALS structures across the site. Materials are generally harvested from on-site sources when available, but caution is taken on the level of disturbance or harm to the site. All maintenance actions take place within the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

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- #2: Describe all ground disturbing activities (length, width and depth of disturbance and equipment utilized) that will take place in the Area of Potential Effect (APE). Include the location of any construction staging or access roads associated with your project that will involve ground disturbance.

Ground disturbance for the maintenance of LTPBR project components will be localized to BDA and PALS structure locations. BDAs/PALS may require additional materials (vegetative and fill) added to repair, build-up, extend, or otherwise adaptively manage the structures across the site. Fill materials (e.g., dirt, gravel, sand, etc.) are generally harvested from on-site sources when available. This may involve using hand shovels/spades to excavate fill materials from the stream banks or from the floodplain (borrow pits), to add to the structures in the stream. Excavation for fill material borrow pits will be dug a maximum of 12 inches deep with a diameter of 24 inches wide. Multiple borrow pits may be needed across project sites to acquire the necessary amounts of fill material to maintenance BDA and PALS structures. Caution will be taken to not excessively disturb the site by digging these borrow pits.

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

This project package consists of previously implemented riparian restoration and LTPBR project sites. The focus of this project is to provide stewardship and maintenance to the restoration components at these sites. Thus, pre-construction disturbance is outside the scope of this project, as it will have already occurred during prior phases of the project.

- #4: 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).

The existing project area conditions at this site include a LTPBR project using BDAs and PALS to restore normative watershed processes to the stream channel and to improve aquatic habitat quantities and qualities. This was because the stream channel at this site was identified as being degraded for various reasons due to historic and current land use practices, including: logging, road/infrastructure building, agriculture, grazing, fire suppression, and many others. Site disturbances from historic and current land use practices, fire, drought, and other climate changing conditions have also led to this degradation.

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

No

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

No

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

Yes

- #7a: 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.

This site received a Cultural Resource Review during prior phases for the initial implementation of this project. This information will be provided by the June 23rd submission deadline.

- #8: Is the worksite located within an existing park, wildlife refuge, natural area preserve, or other recreation or habitat site?

No

- #9: 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.

No

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## Area: Roaring Creek US site

- #1: Provide a description of the project actions at this worksite (acquisition, development and/or restoration activities that will occur as a part of this project)

LTPBR project actions at this site include performing maintenance and stewardship on the existing BDAs/PALS within the creek. Maintenance activities consist of using vegetation materials (e.g., tree branches, sticks, logs, leaves, sod/root mats, duff, etc.) and fill materials (e.g., dirt, gravel, sand, etc.) to repair, build-up, extend, or otherwise adaptively manage BDAs and PALS structures across the site. Materials are generally harvested from on-site sources when available, but caution is taken on the level of disturbance or harm to the site. All maintenance actions take place within the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

- #2: Describe all ground disturbing activities (length, width and depth of disturbance and equipment utilized) that will take place in the Area of Potential Effect (APE). Include the location of any construction staging or access roads associated with your project that will involve ground disturbance.

Ground disturbance for the maintenance of LTPBR project components will be localized to BDA and PALS structure locations. BDAs/PALS may require additional materials (vegetative and fill) added to repair, build-up, extend, or otherwise adaptively manage the structures across the site. Fill materials (e.g., dirt, gravel, sand, etc.) are generally harvested from on-site sources when available. This may involve using hand shovels/spades to excavate fill materials from the stream banks or from the floodplain (borrow pits), to add to the structures in the stream. Excavation for fill material borrow pits will be dug a maximum of 12 inches deep with a diameter of 24 inches wide. Multiple borrow pits may be needed across project sites to acquire the necessary amounts of fill material to maintenance BDA and PALS structures. Caution will be taken to not excessively disturb the site by digging these borrow pits.

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

This project package consists of previously implemented riparian restoration and LTPBR project sites. The focus of this project is to provide stewardship and maintenance to the restoration components at these sites. Thus, pre-construction disturbance is outside the scope of this project, as it will have already occurred during prior phases of the project.

- #4: 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).

The existing project area conditions at this site include a LTPBR project using BDAs and PALS to restore normative watershed processes to the stream channel and to improve aquatic habitat quantities and qualities. This was because the stream channel at this site was identified as being degraded for various reasons due to historic and current land use practices, including: logging, road/infrastructure building, agriculture, grazing, fire suppression, and many others. Site disturbances from historic and current land use practices, fire, drought, and other climate changing conditions have also led to this degradation.

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

No

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

No

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

Yes

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#7a: 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.

This site received a Cultural Resource Review during prior phases for the initial implementation of this project. This information will be provided by the June 23rd submission deadline.

#8: Is the worksite located within an existing park, wildlife refuge, natural area preserve, or other recreation or habitat site?

No

#9: 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.

No

## Worksite #11: Potato Creek- Entiat River watershed

### Area: Potato Creek site

#1: Provide a description of the project actions at this worksite (acquisition, development and/or restoration activities that will occur as a part of this project)

Riparian project actions at this site include performing stewardship and maintenance on the existing riparian planting area across the project site. Stewardship activities consist of providing supplemental irrigation water to plantings, managing invasive species through chemical or physical methods, placing mulch around plantings, and/or replanting unsuccessful plantings. All riparian stewardship actions take place outside of the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

LTPBR project actions at this site include performing maintenance and stewardship on the existing BDAs/PALS within the creek. Maintenance activities consist of using vegetation materials (e.g., tree branches, sticks, logs, leaves, sod/root mats, duff, etc.) and fill materials (e.g., dirt, gravel, sand, etc.) to repair, build-up, extend, or otherwise adaptively manage BDAs and PALS structures across the site. Materials are generally harvested from on-site sources when available, but caution is taken on the level of disturbance or harm to the site. All maintenance actions take place within the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

#2: Describe all ground disturbing activities (length, width and depth of disturbance and equipment utilized) that will take place in the Area of Potential Effect (APE). Include the location of any construction staging or access roads associated with your project that will involve ground disturbance.

Ground disturbance for riparian plant stewardship will be localized to planting locations, if replanting is necessary due to planting mortality. Planting holes will be dug using hand shovels/spades or handheld gas-powered augers. Holes will be dug a maximum of 18 inches deep with a diameter of 12 inches wide. This ground disturbance will be relatively minor at each planting area, and will only be used when encountering unsuccessful plantings.

Ground disturbance for the maintenance of LTPBR project components will be localized to BDA and PALS structure locations. BDAs/PALS may require additional materials (vegetative and fill) added to repair, build-up, extend, or otherwise adaptively manage the structures across the site. Fill materials (e.g., dirt, gravel, sand, etc.) are generally harvested from on-site sources when available. This may involve using hand shovels/spades to excavate fill materials from the stream banks or from the floodplain (borrow pits), to add to the structures in the stream. Excavation for fill material borrow pits will be dug a maximum of 12 inches deep with a diameter of 24 inches wide. Multiple borrow pits may be needed across project sites to acquire the necessary amounts of fill material to maintenance BDA and PALS structures. Caution will be taken to not excessively disturb the site by digging these borrow pits.

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

This project package consists of previously implemented riparian restoration and LTPBR project sites. The focus of this project is to provide stewardship and maintenance to the restoration components at these sites. Thus, pre-construction disturbance is outside the scope of this project, as it will have already occurred during prior phases of the project.

#4: 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).

The existing project area conditions at this site include a riparian planting project using native vegetation plantings and invasive vegetation management to restore riparian plant buffers and riparian vegetation communities. Additionally, the existing project area conditions at this site include a LTPBR project using BDAs and PALS to restore normative watershed processes to the stream channel and to improve aquatic habitat quantities and qualities. This was because the riparian corridor and stream channel at this site was identified as being degraded for various reasons due to historic and current land use practices, including: logging, road/infrastructure building, agriculture, grazing, fire suppression, and many others. Site disturbances from historic and current land use practices, fire, drought, and other climate changing conditions have also led to this degradation.

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

No

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

No

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

Yes

#7a: 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.

This site received a Cultural Resource Review during prior phases for the initial implementation of this project. This information will be provided by the June 23rd submission deadline.

#8: Is the worksite located within an existing park, wildlife refuge, natural area preserve, or other recreation or habitat site?

No

#9: 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.

No

### Worksite #12: Stormy Creek- Entiat River watershed

#### Area: Stormy Creek- CDLT site

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- #1: Provide a description of the project actions at this worksite (acquisition, development and/or restoration activities that will occur as a part of this project)

LTPBR project actions at this site include performing maintenance and stewardship on the existing BDAs/PALS within the creek. Maintenance activities consist of using vegetation materials (e.g., tree branches, sticks, logs, leaves, sod/root mats, duff, etc.) and fill materials (e.g., dirt, gravel, sand, etc.) to repair, build-up, extend, or otherwise adaptively manage BDAs and PALS structures across the site. Materials are generally harvested from on-site sources when available, but caution is taken on the level of disturbance or harm to the site. All maintenance actions take place within the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

- #2: Describe all ground disturbing activities (length, width and depth of disturbance and equipment utilized) that will take place in the Area of Potential Effect (APE). Include the location of any construction staging or access roads associated with your project that will involve ground disturbance.

Ground disturbance for the maintenance of LTPBR project components will be localized to BDA and PALS structure locations. BDAs/PALS may require additional materials (vegetative and fill) added to repair, build-up, extend, or otherwise adaptively manage the structures across the site. Fill materials (e.g., dirt, gravel, sand, etc.) are generally harvested from on-site sources when available. This may involve using hand shovels/spades to excavate fill materials from the stream banks or from the floodplain (borrow pits), to add to the structures in the stream. Excavation for fill material borrow pits will be dug a maximum of 12 inches deep with a diameter of 24 inches wide. Multiple borrow pits may be needed across project sites to acquire the necessary amounts of fill material to maintenance BDA and PALS structures. Caution will be taken to not excessively disturb the site by digging these borrow pits.

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

This project package consists of previously implemented riparian restoration and LTPBR project sites. The focus of this project is to provide stewardship and maintenance to the restoration components at these sites. Thus, pre-construction disturbance is outside the scope of this project, as it will have already occurred during prior phases of the project.

- #4: 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).

The existing project area conditions at this site include a LTPBR project using BDAs and PALS to restore normative watershed processes to the stream channel and to improve aquatic habitat quantities and qualities. This was because the stream channel at this site was identified as being degraded for various reasons due to historic and current land use practices, including: logging, road/infrastructure building, agriculture, grazing, fire suppression, and many others. Site disturbances from historic and current land use practices, fire, drought, and other climate changing conditions have also led to this degradation.

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

No

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

No

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

Yes

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#7a: 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.

This site received a Cultural Resource Review during prior phases for the initial implementation of this project. This information will be provided by the June 23rd submission deadline.

#8: Is the worksite located within an existing park, wildlife refuge, natural area preserve, or other recreation or habitat site?

No

#9: 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.

No

### Worksite #13: Rock Island Creek- Columbia River tributary

#### Area: Rock Island Creek- Bow Knot Bar site

#1: Provide a description of the project actions at this worksite (acquisition, development and/or restoration activities that will occur as a part of this project)

LTPBR project actions at this site include performing maintenance and stewardship on the existing BDAs/PALS within the creek. Maintenance activities consist of using vegetation materials (e.g., tree branches, sticks, logs, leaves, sod/root mats, duff, etc.) and fill materials (e.g., dirt, gravel, sand, etc.) to repair, build-up, extend, or otherwise adaptively manage BDAs and PALS structures across the site. Materials are generally harvested from on-site sources when available, but caution is taken on the level of disturbance or harm to the site. All maintenance actions take place within the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

#2: Describe all ground disturbing activities (length, width and depth of disturbance and equipment utilized) that will take place in the Area of Potential Effect (APE). Include the location of any construction staging or access roads associated with your project that will involve ground disturbance.

Ground disturbance for the maintenance of LTPBR project components will be localized to BDA and PALS structure locations. BDAs/PALS may require additional materials (vegetative and fill) added to repair, build-up, extend, or otherwise adaptively manage the structures across the site. Fill materials (e.g., dirt, gravel, sand, etc.) are generally harvested from on-site sources when available. This may involve using hand shovels/spades to excavate fill materials from the stream banks or from the floodplain (borrow pits), to add to the structures in the stream. Excavation for fill material borrow pits will be dug a maximum of 12 inches deep with a diameter of 24 inches wide. Multiple borrow pits may be needed across project sites to acquire the necessary amounts of fill material to maintenance BDA and PALS structures. Caution will be taken to not excessively disturb the site by digging these borrow pits.

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

This project package consists of previously implemented riparian restoration and LTPBR project sites. The focus of this project is to provide stewardship and maintenance to the restoration components at these sites. Thus, pre-construction disturbance is outside the scope of this project, as it will have already occurred during prior phases of the project.

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- #4: 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).

The existing project area conditions at this site include a LTPBR project using BDAs and PALS to restore normative watershed processes to the stream channel and to improve aquatic habitat quantities and qualities. This was because the stream channel at this site was identified as being degraded for various reasons due to historic and current land use practices, including: logging, road/infrastructure building, agriculture, grazing, fire suppression, and many others. Site disturbances from historic and current land use practices, fire, drought, and other climate changing conditions have also led to this degradation.

- #5: Will a federal permit be required to complete the scope of work on the project areas located within this worksite?  
No

- #6: Are you utilizing Federal Funding to complete the scope of work? This includes funds that are being shown as match or not.  
No

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

- #7a: 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.

This site received a Cultural Resource Review during prior phases for the initial implementation of this project. This information will be provided by the June 23rd submission deadline.

- #8: Is the worksite located within an existing park, wildlife refuge, natural area preserve, or other recreation or habitat site?  
No

- #9: 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.  
No

### Area: Rock Island Creek- Breiler site

- #1: Provide a description of the project actions at this worksite (acquisition, development and/or restoration activities that will occur as a part of this project)

LTPBR project actions at this site include performing maintenance and stewardship on the existing BDAs/PALS within the creek. Maintenance activities consist of using vegetation materials (e.g., tree branches, sticks, logs, leaves, sod/root mats, duff, etc.) and fill materials (e.g., dirt, gravel, sand, etc.) to repair, build-up, extend, or otherwise adaptively manage BDAs and PALS structures across the site. Materials are generally harvested from on-site sources when available, but caution is taken on the level of disturbance or harm to the site. All maintenance actions take place within the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

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- #2: Describe all ground disturbing activities (length, width and depth of disturbance and equipment utilized) that will take place in the Area of Potential Effect (APE). Include the location of any construction staging or access roads associated with your project that will involve ground disturbance.

Ground disturbance for the maintenance of LTPBR project components will be localized to BDA and PALS structure locations. BDAs/PALS may require additional materials (vegetative and fill) added to repair, build-up, extend, or otherwise adaptively manage the structures across the site. Fill materials (e.g., dirt, gravel, sand, etc.) are generally harvested from on-site sources when available. This may involve using hand shovels/spades to excavate fill materials from the stream banks or from the floodplain (borrow pits), to add to the structures in the stream. Excavation for fill material borrow pits will be dug a maximum of 12 inches deep with a diameter of 24 inches wide. Multiple borrow pits may be needed across project sites to acquire the necessary amounts of fill material to maintenance BDA and PALS structures. Caution will be taken to not excessively disturb the site by digging these borrow pits.

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

This project package consists of previously implemented riparian restoration and LTPBR project sites. The focus of this project is to provide stewardship and maintenance to the restoration components at these sites. Thus, pre-construction disturbance is outside the scope of this project, as it will have already occurred during prior phases of the project.

- #4: 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).

The existing project area conditions at this site include a LTPBR project using BDAs and PALS to restore normative watershed processes to the stream channel and to improve aquatic habitat quantities and qualities. This was because the stream channel at this site was identified as being degraded for various reasons due to historic and current land use practices, including: logging, road/infrastructure building, agriculture, grazing, fire suppression, and many others. Site disturbances from historic and current land use practices, fire, drought, and other climate changing conditions have also led to this degradation.

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

No

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

No

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

Yes

- #7a: 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.

This site received a Cultural Resource Review during prior phases for the initial implementation of this project. This information will be provided by the June 23rd submission deadline.

- #8: Is the worksite located within an existing park, wildlife refuge, natural area preserve, or other recreation or habitat site?

No

- #9: 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.

No

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## Area: Rock Island Creek- DNR site

- #1: Provide a description of the project actions at this worksite (acquisition, development and/or restoration activities that will occur as a part of this project)

LTPBR project actions at this site include performing maintenance and stewardship on the existing BDAs/PALS within the creek. Maintenance activities consist of using vegetation materials (e.g., tree branches, sticks, logs, leaves, sod/root mats, duff, etc.) and fill materials (e.g., dirt, gravel, sand, etc.) to repair, build-up, extend, or otherwise adaptively manage BDAs and PALS structures across the site. Materials are generally harvested from on-site sources when available, but caution is taken on the level of disturbance or harm to the site. All maintenance actions take place within the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

- #2: Describe all ground disturbing activities (length, width and depth of disturbance and equipment utilized) that will take place in the Area of Potential Effect (APE). Include the location of any construction staging or access roads associated with your project that will involve ground disturbance.

Ground disturbance for the maintenance of LTPBR project components will be localized to BDA and PALS structure locations. BDAs/PALS may require additional materials (vegetative and fill) added to repair, build-up, extend, or otherwise adaptively manage the structures across the site. Fill materials (e.g., dirt, gravel, sand, etc.) are generally harvested from on-site sources when available. This may involve using hand shovels/spades to excavate fill materials from the stream banks or from the floodplain (borrow pits), to add to the structures in the stream. Excavation for fill material borrow pits will be dug a maximum of 12 inches deep with a diameter of 24 inches wide. Multiple borrow pits may be needed across project sites to acquire the necessary amounts of fill material to maintenance BDA and PALS structures. Caution will be taken to not excessively disturb the site by digging these borrow pits.

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

This project package consists of previously implemented riparian restoration and LTPBR project sites. The focus of this project is to provide stewardship and maintenance to the restoration components at these sites. Thus, pre-construction disturbance is outside the scope of this project, as it will have already occurred during prior phases of the project.

- #4: 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).

The existing project area conditions at this site include a LTPBR project using BDAs and PALS to restore normative watershed processes to the stream channel and to improve aquatic habitat quantities and qualities. This was because the stream channel at this site was identified as being degraded for various reasons due to historic and current land use practices, including: logging, road/infrastructure building, agriculture, grazing, fire suppression, and many others. Site disturbances from historic and current land use practices, fire, drought, and other climate changing conditions have also led to this degradation.

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

No

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

No

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

Yes

# Project Application Report - 25-1217

#7a: 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.

This site received a Cultural Resource Review during prior phases for the initial implementation of this project. This information will be provided by the June 23rd submission deadline.

#8: Is the worksite located within an existing park, wildlife refuge, natural area preserve, or other recreation or habitat site?

No

#9: 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.

No

## Area: Rock Island Creek- Kane site

#1: Provide a description of the project actions at this worksite (acquisition, development and/or restoration activities that will occur as a part of this project)

LTPBR project actions at this site include performing maintenance and stewardship on the existing BDAs/PALS within the creek. Maintenance activities consist of using vegetation materials (e.g., tree branches, sticks, logs, leaves, sod/root mats, duff, etc.) and fill materials (e.g., dirt, gravel, sand, etc.) to repair, build-up, extend, or otherwise adaptively manage BDAs and PALS structures across the site. Materials are generally harvested from on-site sources when available, but caution is taken on the level of disturbance or harm to the site. All maintenance actions take place within the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

#2: Describe all ground disturbing activities (length, width and depth of disturbance and equipment utilized) that will take place in the Area of Potential Effect (APE). Include the location of any construction staging or access roads associated with your project that will involve ground disturbance.

Ground disturbance for the maintenance of LTPBR project components will be localized to BDA and PALS structure locations. BDAs/PALS may require additional materials (vegetative and fill) added to repair, build-up, extend, or otherwise adaptively manage the structures across the site. Fill materials (e.g., dirt, gravel, sand, etc.) are generally harvested from on-site sources when available. This may involve using hand shovels/spades to excavate fill materials from the stream banks or from the floodplain (borrow pits), to add to the structures in the stream. Excavation for fill material borrow pits will be dug a maximum of 12 inches deep with a diameter of 24 inches wide. Multiple borrow pits may be needed across project sites to acquire the necessary amounts of fill material to maintenance BDA and PALS structures. Caution will be taken to not excessively disturb the site by digging these borrow pits.

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

This project package consists of previously implemented riparian restoration and LTPBR project sites. The focus of this project is to provide stewardship and maintenance to the restoration components at these sites. Thus, pre-construction disturbance is outside the scope of this project, as it will have already occurred during prior phases of the project.

## Project Application Report - 25-1217

- #4: 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).

The existing project area conditions at this site include a LTPBR project using BDAs and PALS to restore normative watershed processes to the stream channel and to improve aquatic habitat quantities and qualities. This was because the stream channel at this site was identified as being degraded for various reasons due to historic and current land use practices, including: logging, road/infrastructure building, agriculture, grazing, fire suppression, and many others. Site disturbances from historic and current land use practices, fire, drought, and other climate changing conditions have also led to this degradation.

- #5: Will a federal permit be required to complete the scope of work on the project areas located within this worksite?  
No

- #6: Are you utilizing Federal Funding to complete the scope of work? This includes funds that are being shown as match or not.  
No

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

- #7a: 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.

This site received a Cultural Resource Review during prior phases for the initial implementation of this project. This information will be provided by the June 23rd submission deadline.

- #8: Is the worksite located within an existing park, wildlife refuge, natural area preserve, or other recreation or habitat site?  
No

- #9: 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.  
No

### Worksite #14: Douglas Creek- Columbia River Tributary

#### Area: Douglas Creek- DNR site

- #1: Provide a description of the project actions at this worksite (acquisition, development and/or restoration activities that will occur as a part of this project)

LTPBR project actions at this site include performing maintenance and stewardship on the existing BDAs/PALS within the creek. Maintenance activities consist of using vegetation materials (e.g., tree branches, sticks, logs, leaves, sod/root mats, duff, etc.) and fill materials (e.g., dirt, gravel, sand, etc.) to repair, build-up, extend, or otherwise adaptively manage BDAs and PALS structures across the site. Materials are generally harvested from on-site sources when available, but caution is taken on the level of disturbance or harm to the site. All maintenance actions take place within the Ordinary High-Water Mark. As this is not a new implementation project, maintenance and stewardship actions will have relatively little site disturbance and impact.

## Project Application Report - 25-1217

- #2: Describe all ground disturbing activities (length, width and depth of disturbance and equipment utilized) that will take place in the Area of Potential Effect (APE). Include the location of any construction staging or access roads associated with your project that will involve ground disturbance.

Ground disturbance for the maintenance of LTPBR project components will be localized to BDA and PALS structure locations. BDAs/PALS may require additional materials (vegetative and fill) added to repair, build-up, extend, or otherwise adaptively manage the structures across the site. Fill materials (e.g., dirt, gravel, sand, etc.) are generally harvested from on-site sources when available. This may involve using hand shovels/spades to excavate fill materials from the stream banks or from the floodplain (borrow pits), to add to the structures in the stream. Excavation for fill material borrow pits will be dug a maximum of 12 inches deep with a diameter of 24 inches wide. Multiple borrow pits may be needed across project sites to acquire the necessary amounts of fill material to maintenance BDA and PALS structures. Caution will be taken to not excessively disturb the site by digging these borrow pits.

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

This project package consists of previously implemented riparian restoration and LTPBR project sites. The focus of this project is to provide stewardship and maintenance to the restoration components at these sites. Thus, pre-construction disturbance is outside the scope of this project, as it will have already occurred during prior phases of the project.

- #4: 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).

The existing project area conditions at this site include a LTPBR project using BDAs and PALS to restore normative watershed processes to the stream channel and to improve aquatic habitat quantities and qualities. This was because the stream channel at this site was identified as being degraded for various reasons due to historic and current land use practices, including: logging, road/infrastructure building, agriculture, grazing, fire suppression, and many others. Site disturbances from historic and current land use practices, fire, drought, and other climate changing conditions have also led to this degradation.

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

No

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

No

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

Yes

- #7a: 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.

This site received a Cultural Resource Review during prior phases for the initial implementation of this project. This information will be provided by the June 23rd submission deadline.

- #8: Is the worksite located within an existing park, wildlife refuge, natural area preserve, or other recreation or habitat site?

No

- #9: 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.

No

# Project Application Report - 25-1217

## Worksite #15: Beaver Relocation and Holding Facility

### Area: Beaver Acclimation Facility- LNFH

#1: Provide a description of the project actions at this worksite (acquisition, development and/or restoration activities that will occur as a part of this project)

This site is only for processing, holding, and acclimating beavers for relocation purposes. No Cultural Resource Review is necessary for these project actions at this site.

#2: Describe all ground disturbing activities (length, width and depth of disturbance and equipment utilized) that will take place in the Area of Potential Effect (APE). Include the location of any construction staging or access roads associated with your project that will involve ground disturbance.

This site is only for processing, holding, and acclimating beavers for relocation purposes. No Cultural Resource Review is necessary for these project actions at this site.

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

This site is only for processing, holding, and acclimating beavers for relocation purposes. No Cultural Resource Review is necessary for these project actions at this site.

#4: 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).

This site is only for processing, holding, and acclimating beavers for relocation purposes. No Cultural Resource Review is necessary for these project actions at this site.

#5: Will a federal permit be required to complete the scope of work on the project areas located within this worksite?  
No

#6: Are you utilizing Federal Funding to complete the scope of work? This includes funds that are being shown as match or not.  
No

#7: Do you have knowledge of any previous cultural resource review within the project boundaries during the past 10 years?  
No

#8: Is the worksite located within an existing park, wildlife refuge, natural area preserve, or other recreation or habitat site?  
No

#9: 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.  
No

# Project Application Report - 25-1217

## Project Permits

### Permits and Reviews

None - No permits Required

### Issuing Organization

### Applied Date

### Received Date

### Expiration Date

### Permit #

**Note:** No permits will need to be acquired for this project. As this is a stewardship and maintenance project, all necessary permits were acquired before initial project implementation.

## Permit Questions

#1: Are you planning on using the federal permit streamlining process? **Limit 8**

No

# Project Application Report - 25-1217

## Attachments

### Required Attachments

8 out of 8 done

- Applicant Resolution/Authorizations
- CCA Tribal Notification
- Cost Estimate
- Landowner acknowledgement form
- Map: Restoration Worksite
- Photo
- RCO Fiscal Data Collection Sheet
- Riparian Enhancement Plan

- ✓
- ✓
- ✓
- ✓
- ✓
- ✓
- ✓
- ✓

### PHOTOS (JPG, GIF)

Photos (JPG, GIF)



# 666828



# 666829



# 666830



# 666831




# 666832

### PROJECT DOCUMENTS AND PHOTOS

Project Documents and Photos

## Project Application Report - 25-1217

File Type	Attach Date	Attachment Type	Title	Person	File Name, Number Associations	Shared
	04/18/2025	Cost Estimate	Cost Estimate	PhillipK	Cost Estimate.xlsx, 666882	✓
	04/18/2025	Application Document	Attachment A- Worksites and Properties info.xlsx	PhillipK	Attachment A- Worksites and Properties info.xlsx, 666847	✓
	04/18/2025	Application Document	CRM Riparian Stewardship Package - Regional App	PhillipK	Final_CRM Riparian Stewardship Package_JotForm_04182025.pdf, 666842	✓
	04/18/2025	Photo	Site irrigation- 2.jpg	PhillipK	Site irrigation- 2.jpg, 666838	✓
	04/18/2025	Photo	Site irrigation- 1.jpg	PhillipK	Site irrigation- 1.jpg, 666837	✓
	04/18/2025	Photo	Riparian Planting Pic-5.jpg	PhillipK	Riparian Planting Pic-5.jpg, 666836	✓
	04/18/2025	Photo	Riparian Planting Pic-4.jpg	PhillipK	Riparian Planting Pic-4.jpg, 666835	✓
	04/18/2025	Photo	Riparian Planting Pic-3.jpg	PhillipK	Riparian Planting Pic-3.jpg, 666834	✓
	04/18/2025	Photo	Riparian Planting Pic-2.JPG	PhillipK	Riparian Planting Pic-2.jpg, 666833	✓
	04/18/2025	Photo	Riparian Planting Pic-1.JPG	PhillipK	Riparian Planting Pic-1.jpg, 666832	✓
	04/18/2025	Photo	Riparian Plant mulching.JPG	PhillipK	Riparian Plant mulching.jpg, 666831	✓
	04/18/2025	Photo	Invasive species management.jpg	PhillipK	Invasive species management.jpg, 666830	✓
	04/18/2025	Photo	Beaver Relocation pic.jpg	PhillipK	Beaver Relocation pic.jpg, 666829	✓
	04/18/2025	Photo	Beaver Acclimation Facility.jpg	PhillipK	Beaver Acclimation Facility.jpg, 666828	✓
	04/18/2025	RCO Fiscal Data Collection Sheet	Trout Unlimited - Fiscal Data Collection Sheet 2025	PhillipK	FiscalDataCollectionSheet TU.pdf, 666825	
	04/18/2025	Applicant Resolution/Authorizations	Trout Unlimited - Applicant Authorization Resolution 2025	PhillipK	2025_ApplicantAuthorizationResolutio... 666823	✓
	04/18/2025	Landowner acknowledgement form	Landowner Acknowledgement Form	PhillipK	Landowner Acknowledgement Form.docx, 666822	
	04/18/2025	Riparian Enhancement Plan	Riparian Enhancement Plan Example	PhillipK	RiparianPlanExample.pdf, 666816	✓
	04/18/2025	RCO Fiscal Data Collection Sheet	Cascadia CD - Fiscal Data Collection Sheet 2025	PhillipK	CascadiaCD - FiscalDataCollectionSheet.pdf, 666815	
	04/18/2025	RCO Fiscal Data Collection Sheet	Cascade Fisheries - Fiscal Data Collection Sheet 2025	PhillipK	FiscalDataCollectionSheet - Cascade Fisheries - 2025.pdf, 666814	
	04/18/2025	Map: Restoration Worksite	Beaver Relocation Potential Site Map	PhillipK	Beaver Relocation Potential Site Map.pdf, 666810	✓
	04/18/2025	Map: Restoration Worksite	CRM Riparian Proposal_Area map	PhillipK	CRM Riparian Proposal_Area map.pdf, 666809	✓
	04/18/2025	Map: Restoration Worksite	Site Map example	PhillipK	Site Map example.pdf, 666808	✓
	04/18/2025	CCA Tribal Notification	CCA-Tribal Notice	PhillipK	CCA-TribalNotice.docx, 666806	✓
	04/18/2025	Applicant Resolution/Authorizations	Cascade Fisheries - Applicant Authorization/Resolution 2025	PhillipK	ApplicantAuthorizationResolution - Cascade Fisheries - 2025.pdf, 666805	✓
	04/18/2025	Applicant Resolution/Authorizations	Cascadia CD - Applicant Authorization/Resolution 2025	PhillipK	2025-04-CCDApplicantAuthorizationResolution... 666804	✓

### Application Status

Application Due Date: 06/23/2025

Status Name	Status Date	Submitted By	Submission Notes
Application Submitted	04/18/2025	Phillip Klenke	
Preapplication	04/02/2025		

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. (Phillip Klenke, 04/18/2025)

# Project Application Report - 25-1217

Date of last change: 04/18/2025

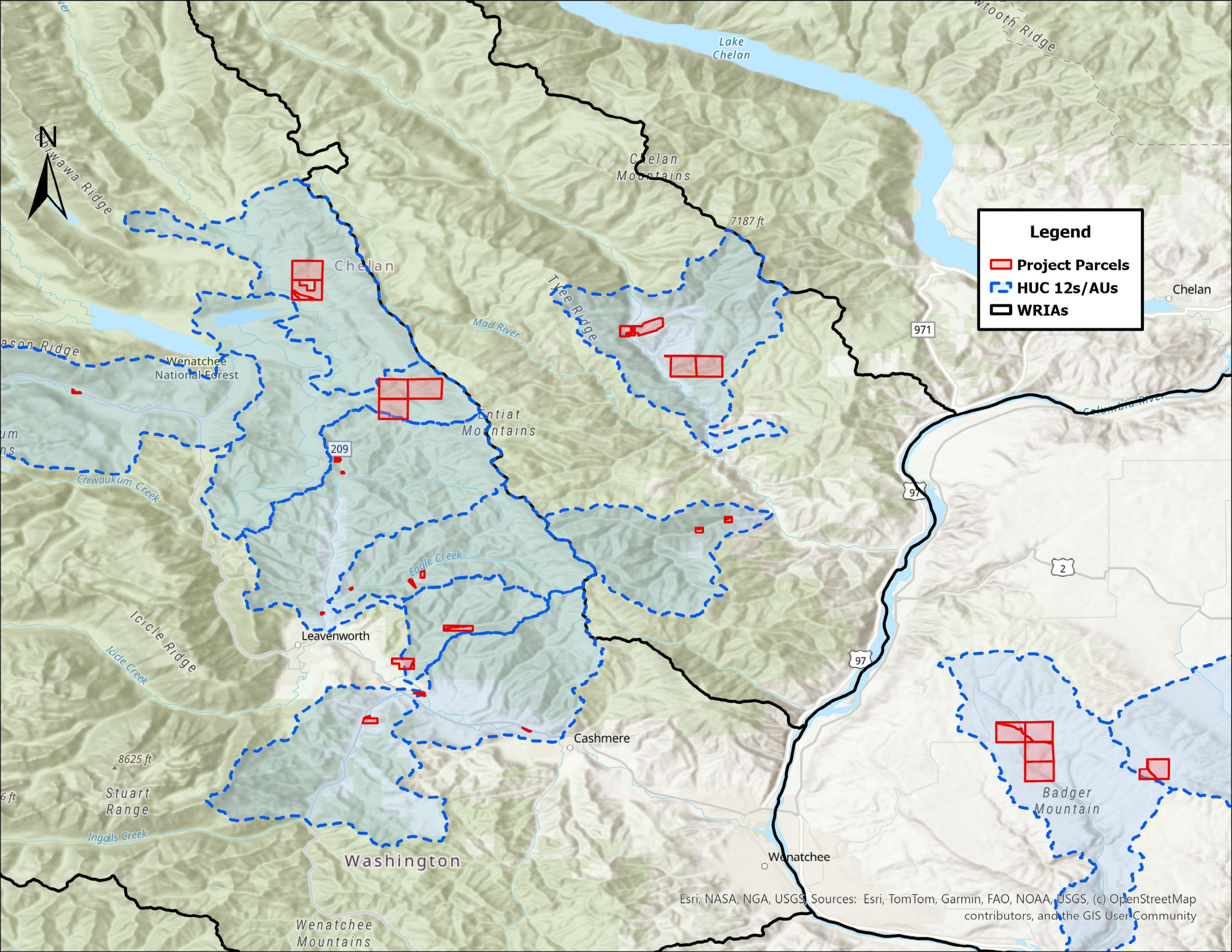


# CUMULATIVE TOTALS

*This sheet contains automatic calculations*

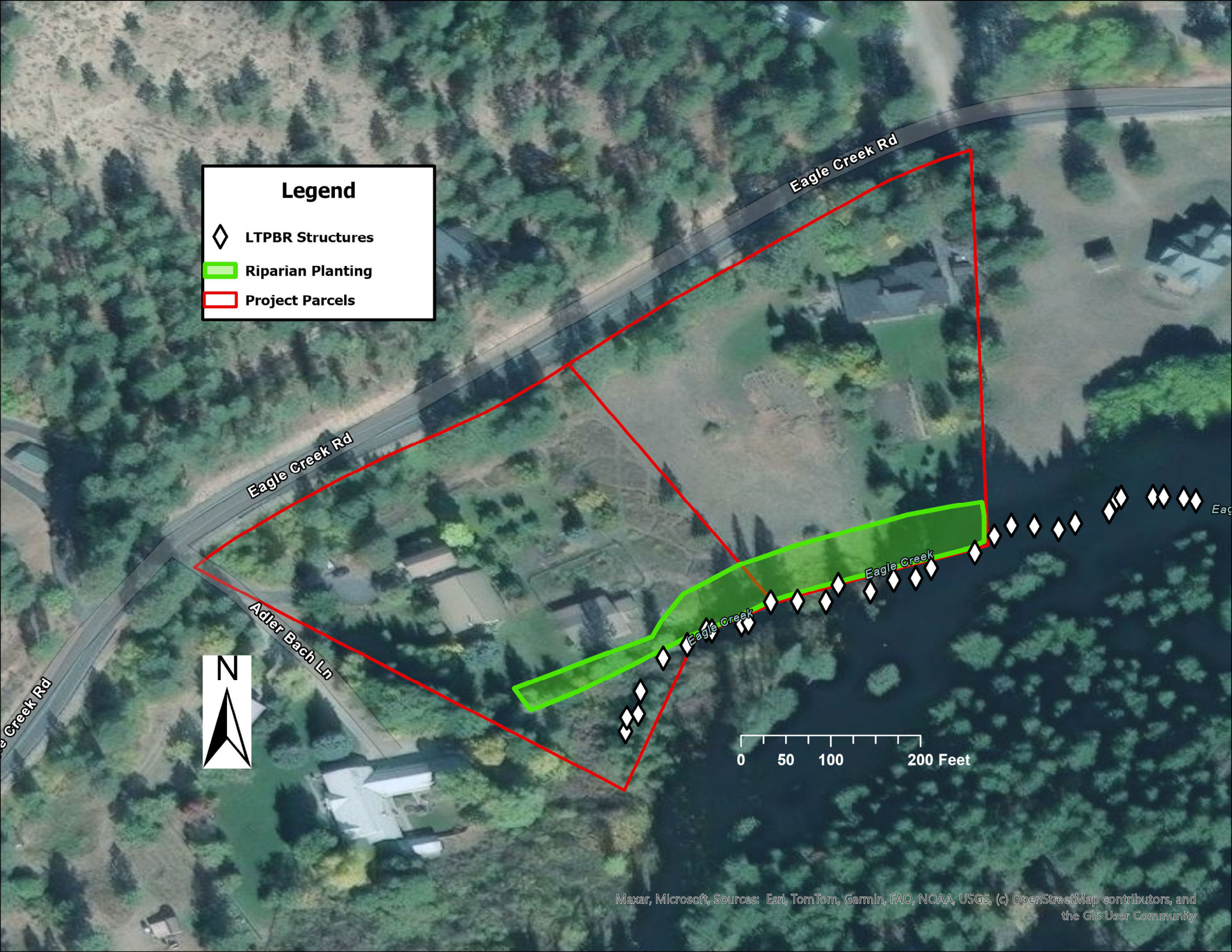
Project Name	CRM Riparain Stewardship Package
SRFB #	25-1217
Sponsor	Cascade Col Fish Enhance Group

	OVERALL PROJECT Cost	GRANT REQUEST Amount	PRISM MATCH Amount	MATCH NOT IN PRISM Amount	Budget Check
<u>Sheet #1 Acquisition</u>					
Property Costs	\$ -	\$ -	\$ -	\$ -	0
Incidental Costs	\$ -	\$ -	\$ -	\$ -	0
Administrative Costs	\$ -	\$ -	\$ -	\$ -	0
Indirect Costs	\$ -	\$ -	\$ -	\$ -	
STotal	\$ -	\$ -	\$ -	\$ -	0
<u>Sheet #2 Design</u>					
Design Costs	\$ -	\$ -	\$ -	\$ -	
Indirect Costs	\$ -	\$ -	\$ -	\$ -	
STotal	\$ -	\$ -	\$ -	\$ -	0
<u>Sheet #3 Restoration</u>					
Construction Costs	\$ 680,040	\$ 514,000	\$ -	\$ -	166,040
AA&E	\$ 139,960	\$ 106,000	\$ -	\$ -	33,960
Indirect Costs	\$ -	\$ -	\$ -	\$ -	
STotal	\$ 820,000	\$ 620,000	\$ -	\$ -	200,000
<b>Totals</b>	<b>\$ 820,000</b>	<b>\$ 620,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>200,000</b>



**Legend**

- ◊ LTPBR Structures
- ▭ Riparian Planting
- ▭ Project Parcels



# Potential Relocation Sites in the Wenatchee and Entiat Watersheds



- Wenatchee Potential Relocation Sites
- Entiat Potential Relocation Sites

ESRI, NASA, NGA, USGS, WA State Parks GIS, Esri, TomTom, Garmin, SafeGraph, FAO, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, USFWS





Cascade Col Fish Enhance Group, CRM Riparian Stewardship Package (#25-1217)

Attachment #666831, Riparian Plant mulching.JPG



Cascade Col Fish Enhance Group; CRM Riparian Stewardship Package (#25-1217)  
Attachment #666829, Beaver Relocation pic.jpg



Cascade Col Fish Enhance Group; CRM Riparian Stewardship Package (#25-1217)  
Attachment #666828, Beaver Acclimation Facility.jpg



Cascade Col Fish Enhance Group; CRM Riparian Stewardship Package (#25-1217)

Attachment #666838, Site irrigation- 2.jpg



Cascade Col Fish Enhance Group; CRM Riparian Stewardship Package (#25-1217)

Attachment #666835, Riparian Planting Pic-4.jpg



Cascade Col Fish Enhance Group; CRM Riparian Stewardship Package (#25-1217)

Attachment #666833, Riparian Planting Pic-2.JPG

Worksite #	Property #	Site Name	Stream	County	WRIA	Subbasin	HUC12	AU	Reach	Reach Rank	River Miles	Stream Length Affected (ft)	Latitude	Longitude	Site Ownership Type	Landowner	Site Address	Parcel #	Implementation Year(s)
1	1	Alder-DS	Alder Creek	Chelan	45	Wenatchee River	170200110308	Lower Chiwawa River	Alder Creek 01	unranked	0.29-0.91	3274	47.851775	-120.659304	Public	USFS	128 ALDER CREEK TIE FS 6200-200 RD LAKE WENATCHEE, WA 98826	271712320000	2022
	2	Alder-US	Alder Creek	Chelan	45	Wenatchee River	170200110308	Lower Chiwawa River	Alder Creek 02	unranked	1.55-1.8	1320	47.862329	-120.657312	Public	USFS	UNASSIGNED LAKE WENATCHEE, WA 98826	271701000000	2022
	3	Beaver Ck	Beaver Creek	Chelan	45	Wenatchee River	170200110701	Wenatchee River- Beaver Creek	undefined	unranked	3.22-3.66	2323	47.781495	-120.595298	Public	USFS	UNASSIGNED LEAVENWORTH, WA 98826	261804000000	2023
2	4	SF Beaver Ck	South Fork Beaver Creek	Chelan	45	Wenatchee River	170200110701	Wenatchee River- Beaver Creek	undefined	unranked		3500	47.772594	-120.605793	Public	USFS	UNASSIGNED LEAVENWORTH, WA 98826	261804000000	2024
	5	Merril Oxbow	Nason Creek	Chelan	45	Wenatchee River	170200110203	Lower Nason Creek	Nason Creek Lower 10	1	10.7-11	1584	47.77801	-120.832675	Private	CHELAN-DOUGLAS LAND TRUST	18675 US HWY 2 LAKE WENATCHEE, WA 98826	261809000000	2022
3	6	Jones	Chumstick Creek	Chelan	45	Wenatchee River	170200110705	Chumstick Creek	Chumstick Creek 02	TBD		280	47.616348	-120.649949	Private	HESS SUMMER N & JONES MATTHEW	25 SYLVESTER MEADOWS LN LEAVENWORTH, WA 98826	251831320300	2024
	7	Youkey	Eagle Creek	Chelan	45	Wenatchee River	170200110704	Eagle Creek (Wenatchee)	undefined	unranked		240	47.633609	-120.628361	Private	YOUKEY DONALD & KARI	15 ADLER BACH LN LEAVENWORTH, WA 98826	251829300222	2023
5	8	Bosket	Eagle Creek	Chelan	45	Wenatchee River	170200110704	Eagle Creek (Wenatchee)	undefined	unranked		170	47.634024	-120.627688	Private	BOSKET VINCENT N ETAL	11025 EAGLE CREEK RD LEAVENWORTH, WA 98826	251829300223	2023
	9	Hedeem	Eagle Creek	Chelan	45	Wenatchee River	170200110704	Eagle Creek (Wenatchee)	undefined	unranked		600	47.640496	-120.585148	Private	HEDEEN PAUL F & KNAPP ROSEMARY	9425 EAGLE CREEK RD LEAVENWORTH, WA 98826	251827545070, 251827545065, 251827545020	2025
	10	Headrick	Eagle Creek	Chelan	45	Wenatchee River	170200110704	Eagle Creek (Wenatchee)	undefined	unranked		535	47.645816	-120.576859	Private	HEADRICK TODD R & JENNIFER L TRUST	9247 EAGLE CREEK RD LEAVENWORTH, WA 98826	251822430100	2024
6	11	Conkle	Little Chumstick Creek	Chelan	45	Wenatchee River	170200110705	Chumstick Creek	undefined	unranked		600	47.719425	-120.633968	Private	CONKLE MICHAEL H & KAREN D MATAYA	16520 CHUMSTICK HWY LEAVENWORTH, WA 98826	261830400080, 261830400060	2023
	12	O'Neill	Little Chumstick Creek	Chelan	45	Wenatchee River	170200110705	Chumstick Creek	undefined	unranked		300	47.728024	-120.637019	Private	O NEILL JULIA A	16970 CHUMSTICK HWY LEAVENWORTH, WA 98826	261830120050	2023
	13	Holte	Little Chumstick Creek	Chelan	45	Wenatchee River	170200110705	Chumstick Creek	undefined	unranked		350	47.728857	-120.637282	Private	HARIBELL ALEXANDRA & KEVIN HOLTE	16982 CHUMSTICK HWY LEAVENWORTH, WA 98826	261830100265	2023
7	14	Drew	Little Chumstick Creek	Chelan	45	Wenatchee River	170200110705	Chumstick Creek	undefined	unranked		300	47.729788	-120.637607	Private	DREW DOUGLAS R & KATHRYN A REV TRT	41 STARGAZER LN LEAVENWORTH, WA 98826	261830100310	2023
	15	Stroud	Derby Creek	Chelan	45	Wenatchee River	170200110706	Wenatchee River- Derby Canyon	undefined	unranked	3.49-4.43	2500	47.605288	-120.549955	Private	STROUD III WILLIAM G	6905 DERBY CANYON RD PESHASTIN, WA 98847	241820020050	2019, 2025
	16	DNR-Derby Ck	Derby Creek	Chelan	45	Wenatchee River	170200110706	Wenatchee River- Derby Canyon	Derby Canyon 01	unranked	0.48-0.86	2034	47.577349	-120.583215	Public	DNR	UNASSIGNED PESHASTIN, WA 98847	241816100000	2025
8	17	Lower Peshastin	Peshastin Creek	Chelan	45	Wenatchee River	170200110503	Lower Peshastin Creek	Peshastin Creek Lower 01	1	0-0.5	2640	47.557168	-120.577467	Public	WDFW	UNASSIGNED DRYDEN, WA 98821	241822746006, 241822310100, 241822746206	2025
	18	Peshastin 2.5	Peshastin Creek	Chelan	45	Wenatchee River	170200110503	Lower Peshastin Creek	Peshastin Creek Lower 03	2	2.5-3	2640	47.538797	-120.617775	Private	MOUNTAIN VALLEY ACRES LLC	UNASSIGNED PESHASTIN, WA 98847	241832210000, 241832340200	2026
9	19	Goodwin Side Channel	Wenatchee River	Chelan	45	Wenatchee River	170200110707	Wenatchee River- Ollala Canyon	Wenatchee River Ollala 01	3	11-11.5	2640	47.528268	-120.491882	Private	WA-DOT	UNASSIGNED CASHMERE, WA 98815	241932340600	2026
	20	Roaring Ck-DS	Roaring Creek	Chelan	46	Entiat River	170200100208	Roaring Creek	Roaring Creek Entiat 03	unranked	1.45-1.51	317	47.885875	-120.349269	Public	USFS	UNASSIGNED ENTIAT, WA 98822	252008110000	2020
10	21	Roaring Ck-US	Roaring Creek	Chelan	46	Entiat River	170200100209	Roaring Creek	Roaring Creek Entiat 04	unranked	2.65-2.91	1373	47.67664	-120.374218	Public	USFS	UNASSIGNED ENTIAT, WA 98822	252007410000	2023
	22	Potato Ck	Potato Creek	Chelan	46	Entiat River	170200100207	Entiat River- Potato Creek	Potato Creek 02-03-04	unranked	0.17-1.3	5966	47.796104	-120.380376	Public	USFS	UNASSIGNED ENTIAT, WA 98822	271930000050, 272031000000	2020, 2022, 2023, 2024
12	23	Stormy Ck	Stormy Creek	Chelan	46	Entiat River	170200100207	Entiat River- Potato Creek	Stormy Creek 01	unranked		775	47.821637	-120.421286	Private	CHELAN-DOUGLAS LAND TRUST	UNASSIGNED ENTIAT, WA 98822	271922554480	2023
	24										4300	47.50891	-120.130666	Private	BREILER, DUANE KEITH	UNASSIGNED EAST WENATCHEE, WA 98802	23220610001	2022-2028	
	25										1250	47.522868	-120.130921	Private	BOW KNOT BAR HOMESTEAD LLC	UNASSIGNED EAST WENATCHEE, WA 98802	24223100000	2023	
	26										14000	47.50343	-120.127477	Private	KANE, SCOTT M & SHEILA G	UNASSIGNED EAST WENATCHEE, WA 98802	23220700000	2024-2025	
13	27	Rock Island Ck	Rock Island Creek	Douglas	44	Columbia Tributary	17020010	undefined	undefined	unranked	0-15	3000	47.524712	-120.134111	Public	DNR	UNASSIGNED EAST WENATCHEE, WA 98802	24213600000	2025
	28	Duffy Creek	Douglas Creek	Douglas	44	Columbia Tributary	17020012	undefined	undefined	unranked		500	47.50096	-120.04178	Public	BLM	UNASSIGNED	23221110000	2025