PROJECT: 21-1106 PLAN, BEAR CREEK AT FRIENDLY VILLAGE (PH III) PRELIM DES

Sponsor: Adopt A Stream Foundation Program: Salmon State Projects Status: Wastebasket

Parties to the Agreement

PRIMARY SPONSOR

Adopt A Stream Foundation
Address 600-128th St SE
City Everett **State** WA **Zip** 98208
Org Type Non-Gov-Nonprofit
Vendor # SWV0089423-00
UBI 601270895
Date Org created 08/29/198
Org Notes

link to Organization profile
link to PRISM Organization page
☐ Org data updated

QUESTIONS - PRIMARY SPONSOR

#1: What date was your organization created?

08/29/1985

#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.

601270895

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

34 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

The mission of the Adopt A Stream Foundation is "to teach people how to become stewards of their watersheds." That mission is carried out by producing environmental education materials, conducting Streamkeeper Academy training events on all aspects of Northwest ecology, and providing local communities with stream and wetland restoration technical assistance.

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

Yes

SECONDARY SPONSORS

No records to display

LEAD ENTITY

WRIA 8 LE (King County)

QUESTIONS

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

King County Housing Authority, property owner of Friendly Village Mobile Home Park.

Project Application Report - 21-1106

External Systems

SPONSOR ASSIGNED INFO

Sponsor-Assigned Project Number

Sponsor-Assigned Regions

EXTERNAL SYSTEM REFERENCE

Source	Project Number	Submitter
HWS	21-1106	JWilkinson

Project Contacts

Contact Name Primary Org	Project Role	Work Phone	Work Email
Walter Rung Adopt A Stream Foundation	Project Contact	(425) 316-8592 111	walterr@streamkeeper.org
Jason Wilkinson WRIA 8 LE (King County)	Lead Entity Contact	(206) 477-4786	jason.wilkinson@kingcounty.gov
Elizabeth Butler Rec. and Conserv. Office	Project Manager	(360) 867-8650	elizabeth.butler@rco.wa.gov

Worksites & Properties

#	Worksite Name
#1	Bear Creek Reach 6

Planning	Property Name
✓	Friendly Village
✓	Underground infrastructure (TBD)

Worksite Map & Description

Worksite #1: Bear Creek Reach 6

Worksite map

WORKSITE ADDRESS

Street Address 18425 NE 95th St
City, State, Zip Redmond, WA 98052

Worksite Details

Worksite #1: Bear Creek Reach 6

SITE ACCESS DIRECTIONS

From I-5, take exit 182 for Interstate 405 S toward Bellevue/Renton 0.9 mi
8. Merge onto I-405 S 9.2 mi
9. Take exit 20 for NE 124th St 0.3 mi
10. Turn left onto NE 124th St 3.6 mi
11. Continue onto NE 128th St 1.0 mi
12. Turn right onto Avondale Rd NE 2.2 mi
13. Turn left onto NE 95th St/Conrad Olson Road 0.1 mi
14. Turn right onto Snohomish Dr

TARGETED ESU SPECIES

Species by ESU	Egg Present	Juvenile Present	Adult Present	Population Trend
Chinook-Puget Sound, Sammamish River, Threatened	✓	✓	✓	Declining
Coho-Puget Sound/Strait of Georgia, Species of Concern	✓	✓	✓	Declining
Steelhead-Puget Sound, North Lake Washington and Lake Sammamish, Threatened	✓	✓	✓	Declining

Reference or source used

https://apps.wdfw.wa.gov/salmonscape/

TARGETED NON-ESU SPECIES

Species by Non-ESU	Notes
Searun Cutthroat	
Cutthroat	
Kokanee	

Questions

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

Friendly Village Park 18425 NE 95th St Redmond, WA 98052

Project Location

RELATED PROJECTS

Project Application Report - 21-1106

Projects in PRISM

PRISM Number	Project Name	Current Status	Relationship Type	Notes
16-1215 R	Bear Creek Reach 6 - Phase II Construction	Active	Earlier Phase	Restored 330 linear feet and 1.0 acres of riparian vegetation at Friendly Village in 2020/21 immediately downstream of Ph III, and upstream of a large habitat mitigation bank (Habitat Bank LLC).
15-1059 P	Bear Creek Reach 6 Restoration - Ph II Design	Closed Completed	Earlier Phase	Completed designs for 16-1215R
12-1282 R	Bear Creek Reach 6 Restoration	Closed Completed	Earlier Phase	Installed LWD, excavated fill, and planted the riparian within a portion of the proposed Ph III project area.

Related Project Notes

With the successful completion of last summer's 330 feet of in-stream habitat enhancement and 1.0 acre of riparian planting, AASF has gained the trust of King County Housing Authority . We are now hoping to restore the remaining 1100 linear feet of Bear Creek Reach 6 that flows through this property and 2.5 acres of riparian (immediately upstream of our Phase II restoration project that was completed in 2020).

Questions

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

The proposed project is located within the Friendly Village Mobile Home Park in Redmond, WA in the Lower Bear Creek subarea, Reach 6, identified in the WRIA 8 Chinook Conservation Plan as a Tier 1-Core Chinook Use.

#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 restoration design project will bring AASF closer to implementing priority actions (floodplain re-connection and riparian restoration) that will benefit a priority species (Chinook), and the project area is located in a Tier 1-Core Chinook use area in WRIA 8. This design phase is intended to address the following Chinook habitat-limiting factors identified in chapter 3 of the 2005 WRIA 8 Chinook Recovery Plan: loss of floodplain connectivity, lack of riparian vegetation, disrupted sediment processes and loss of channel and shoreline complexity. Upon completion of the future restoration phase, the project will directly address several priority recovery strategies for Bear/Cottage Lake Creeks in the 2017 WRIA 8 Plan Update, including protecting and restoring riparian vegetation (page E-2), channel complexity (page E-3), and floodplain connectivity (page E-1). Additionally, the design will be responsive to--and future implementation will address--habitat goals identified in the 2017 Plan Update related to stream wood volume and riparian cover (page 14).

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

Yes

#3a: How does this project fit into the sequencing of the larger project?

AASF will complete preliminary design for the final phase (III) of restoration at Friendly Village, Bear Creek Reach 6. Previous phases were funded with SRFB, and are listed above.

In 2014, AASF completed our first stream restoration project at this property with 42 pieces of LWD installed and 0.35 acres of lawn converted to a native riparian plant community. In 2020, AASF completed the second stream restoration project at this location (immediately downstream of this Ph III project) laying back the banks and placing 256 pieces of large wood and converting 1.0 acre of lawn to a native riparian forest. The successful completion of two restoration projects at this location has gained us the trust of the landowner and allowed us to pursue additional stream restoration opportunities.

Phase III is a more ambitious project then our prior restoration efforts at this location, having the potential to restore nearly 1,055 linear feet of main-stem Bear Creek and 2.5 acres of riparian.

#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

Bear Creek is not navigable.

Property Details

Property: Friendly Village (Worksite #1: Bear Creek Reach 6)

Property: Underground infrastructure (TBD) (Worksite #1: Bear Creek Reach 6)

Project Proposal

Project Description

Adopt a Stream Foundation will complete preliminary designs (per Manual 18 Appendix D-2) for the third and final Bear Creek Reach 6 stream restoration project at the Friendly Village Mobile Home Park in Redmond, WA. Design will focus on improving habitat conditions for Chinook salmon with a special emphasis placed on juvenile rearing. The project will address habitat-limiting factors, including removing covered (pedestrian) bridge that confines the channel, installing Large Wood, re-vegetating approximately 2.5 acres of riparian buffer, increasing flood plain connectivity and re-establishing natural stream processes along approximately 1,055 feet of channel.

Restoration designs will directly address priorities for Bear/Cottage Lake Creeks in the WRIA 8 Conservation Strategy for Chinook salmon (threatened), including protecting and restoring riparian vegetation and floodplain connectivity. Restoration elements will be designed using the techniques and methods identified in the Integrated Stream Bank Protection Guidelines and the Stream Habitat Restoration Guidelines and other fisheries engineering restoration technology currently being used in the Puget Sound Basin.

In 2020, AASF restored 345 feet of Bear Creek and 1.1 acres of riparian just downstream of this location. Once implemented, this Ph III restoration project will connect stream restoration efforts up and downstream to provide over 5,230 feet of restored Chinook habitat.

Project Questions

Project Application Report - 21-1106

#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.

SITE: The project site is currently a mobile home park; historic use of the site is unknown.
Approximately, 1,400 linear feet of main-stem Bear Creek flows through the property.

REACH: In 2020, AASF in partnership with KCHA restored 345 linear feet of stream channel and 1.1 acres of riparian vegetation. Currently, 1,055 feet of Bear Creek and 2.5 acres of riparian remain in need of restoration at this location. This un-restored section of creek suffers from the following as listed in various salmon recovery plans:

- Decreased floodplain connectivity and decreased off-channel habitat because of channel confinement. Due to development the channel is disconnected from its historic floodplain and is constricted by several stream crossings (concrete abutments), which contribute to poor habitat conditions and fast flows and flooding in developed portions of the property.
- Very little large woody debris. Wood increases channel complexity, contributes to channel stability, develops pools, traps sediment, provides cover and refuge for juvenile salmonids, and reduces water temperature.
- Poor coverage of native riparian vegetation. Restoring riparian vegetation will improve channel stability, provide sources of large woody debris that can contribute to creation of pools, and moderate peak water temperatures that favor non-native species.

Degraded channel and riparian conditions in this reach have significantly reduced fish production when compared to historic levels. With Bear creek currently exceeding state water quality standards for temperature (listing I.D 4804). The loss of a native riparian buffer has resulted in an increase in summer peak temperatures a loss of natural filtering, and ground water recharging processes, a widening and swallowing of the channel and channel incision. All of these factors have the potential to limit salmonid production in this reach directly by killing adult fish (temperature) and increasing juvenile exposure to predators (shallow), or indirectly by limiting spawning and rearing habitat (intraspecific competition).

WATERSHED: The Bear Creek basin is comprised of approximately 32,100 acres. Land use in the watershed has changed markedly in the past 150 years as development has increased. Currently, total land use is mostly developed and forest, with not much agriculture. Bear Creek and Evans Creek are now categorized as “Core Summer Salmonid Habitat” for aquatic life use. (kingcounty.gov)

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

Limiting Life Stage to be addressed by Project Designs:

Juvenile (Chinook, Steelhead, Coho, Sockeye, Cutthroat and Kokanee)

- Increased channel complexity: This project will generate designs to increase juvenile salmonid production by creating more rearing and refuge areas for young fish. The proposed LWD will increase channel complexity by creating additional pools, slack water along streambanks, cover habitat and refuge from high velocities. The proposed LWD will accumulate and hold biological matter for processing in the creek, which will feed macro invertebrates, which will become forage for juvenile salmonids.
- Riparian restoration: Planting the streambanks will reduce fine sediment, improve water quality, and lessen warming during peak summer temperatures. Warm water temperatures can be lethal to salmonids and create hospitable conditions for non-native predator species.

Adult (Chinook, Steelhead, Coho, Sockeye, Cutthroat and Kokanee)

- Increase in pool frequency: Adding LWD will increase pool frequency, which will benefit adult salmonids as they migrate to their natal spawning grounds by providing resting and refuge areas.
- Increase in suitable spawning areas: Adding LWD will sort gravel resulting in more suitable spawning areas and less competition.
- Riparian restoration: Planting the streambanks will reduce fine sediment, improve water quality, and lessen warming during peak summer temperatures. Warm water temperatures can be lethal to salmonids during migration.

Eggs (Chinook, Steelhead, Coho, Sockeye, Cutthroat and Kokanee)

- Increased egg to fry survival: The Washington Department of Fish and Wildlife maps show Bear Creek Reach 6 as Fall Chinook breeding area, according to their Priority Habitat and Species online mapping database and SalmonScape. Chinook spawning in this reach is irregular, but could become more common with an improvement in habitat conditions. The future restoration based on this project's design outcomes will increase egg to fry survival by reducing fine sediment input. Planting and re-grading the streambanks will result in a reduction in fine sediment input. The reduction in fine sediment input will result in cleaner spawning gravel and allow for more oxygenated water to circulate around fish eggs as they incubate in the gravel.
- Increase in suitable spawning areas: future restoration based on this project's design outcomes will enhance the sorting of gravel by the proposed LWD and reduce fine sediment input, resulting in an increase in clean, well-sorted spawning gravel.

#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**

Primary goal is to increase quality and quantity of Chinook juvenile rearing and refuge habitat in Bear Creek Reach 6.

#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**

Objective: To develop stream restoration preliminary designs (as defined by Manual 18 Appendix D-2) that will provide the maximum benefit for juvenile Chinook salmon and be ready for construction within 3 years of funding. We expect the designs to incorporate the following:

- Grade 1,055 linear feet of bank on both sides of the stream channel to restore floodplain connectivity
- Plant 2.5 acres of riparian habitat (primarily native conifers) to establish a natural source of shade to moderate instream temperature, provide "insect rain" for salmonid foraging, and create a future source of large wood for instream habitat.
- Add approximately 300 pieces of wood to increase channel complexity, trap sediment, reduce erosion in targeted locations, promote pool scouring, increase groundwater interactions and provide refuge habitat for juvenile Chinook.

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

This design project will generate preliminary design deliverables focused on improving habitat conditions (in a future construction phase).

The Adopt A Stream Foundation (AASF) will work with stakeholders to complete preliminary designs and report (as described in Manual 18 Appendix D-2) for the third phase of stream restoration at the Friendly Village Mobile Home Park in Redmond, WA along Bear Creek Reach 6. In earlier phases, AASF partnered with Chinook Engineering to complete topographic surveying, hydraulic analysis, preliminary designs and associated design reports and permitting assistance. AASF will work closely with the Chinook Engineering and the landowner to develop designs that will provide the maximum benefit to fish and be acceptable to the landowner.
Project design shall improve salmon habitat and increase fish production by: installing large woody debris, re-vegetating the riparian buffer, increasing flood plain connectivity, and re-establishing stream processes. Stakeholders in the design process include: AASF, WRIA 8, permit agencies, Muckleshoot Tribe and KCHA.

Project tasks (Timeline):
Administration (reporting, project management, and billing) - AASF (18 months)
Contract w/ third party to complete a cultural resource survey and report - Consultant (Sept 2021)
Locate underground infrastructure and id any utility easements within project area. (Sept 2021)
Develop Alternatives Assessment (Sept 2021 – Nov 2021)
Work with stakeholders to select Preferred Alternative (Nov 2021)
Develop Conceptual designs and present to stakeholders – AASF / Chinook Engineering (Dec 2021-Mar 2022)
Develop primary designs and draft design report – Chinook Engineering (April-2022-Jan 2023)
Apply for project permits – AASF / Chinook Engineering (Feb 2023)

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

Assumptions:
• Project will qualify for a fish habitat enhancement project using a streamlined JARPA application and be exempt from most other state and local permits including SEPA. We expect the project to qualify for the exemption, as it satisfies both requirements under the WDFW Fish Habitat Exemption Form, namely that the project: 1) Places woody debris that benefit naturally-producing fish stocks and 2) The project is approved by a formal grant program established by the legislature. If the project does not qualify for the exemption, we would need to apply for SEPA through the City of Redmond.

If the above assumption is incorrect then the project may be delayed or cost more than anticipated, which will cause the project either to be scaled back to stay within budget or additional funding will be secured.

Constraints:
• This project is located on private property and any work done here must meet the approval of the landowner. This may impose limitations on project designs, as the landowner is very concerned with flooding and any potential to increase flood stage or bank erosion. The landowner may not be comfortable with aggressively placed LWD structures including but not limited to mid-channel structures. AASF will have to work closely with the consultant and the landowner to develop designs that are both acceptable to the landowner and maximize benefit to salmon.
• Sewer lines and/or other utilities could and/or will limit stream restoration on this property. Project will have to be designed around such obstacles.

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

A major barrier to stream restoration on this property was the landowner. However, The Adopt A Stream Foundation has been educating and building a relationship with the landowner over the last few years and has successfully implemented riparian plantings and placed nearly 300 pieces of LWD at this property.

We have the advantage of observing project effectiveness on a site directly upstream of this project, which provides analogous conditions upon which to base our project. We have contracted a licensed professional engineer to produce permit-ready designs appropriate for site conditions and restoration goals.

Adopt A Stream Foundation has refined our stream restoration techniques over the past 30 years. We routinely visit our restoration site and informally monitor their success. This informal monitoring has lead to a refining of our LWD placement and anchoring techniques and the development of various LWD structures as well as improvements in our riparian restoration techniques. Restoration refinements include an anchoring system that uses high strength chain and rounded river boulders to secure LWD. This system is reliable, has a high factor of safety and does not require a geotechnical survey. This system is cost effective and ideal for securing LWD in urban systems where infrastructure could be damaged by migrating logs. Riparian restoration mechanization has been a major refinement reducing labor cost and increasing installation speed. AASF uses a large self-propel

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

AASF expects to have preliminary designs completed by a licensed professional engineer within 18 months of funding or sooner. This process will include an analysis of alternatives as required in Appendix D-2. The scope and scale of the project is designed to fit in with several long-term restoration outcomes being considered by the City of Redmond. Immediate need for planting along the entire bank at this parcel has been tempered with a consideration of the possibility of future more comprehensive restoration efforts.

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

King County Housing Authority (KCHA) is the primary stakeholder as the property owner. AASF has been working with KCHA over the past couple of years to implement a restoration project on a 330-foot section of Bear creek at the downstream end of this property, which was completed last summer. The trust that AASF built over the course of our most recent restoration project has allowed us to pursue a larger project. KCHA has generously offered to allow AASF to restore the last remaining section of un-restored Bear Creek on this property measuring 1,055 linear feet with approximately 2.5 acres of riparian restoration. The major concerns of the property owner are typical of a stream-side landowner with flooding, infrastructure, and erosion being their major concerns. These concerns mimic those of our previously completed restoration project and as such we are well suited to address with 2-D hydraulic analysis and flow modeling already built into the project budget.

In addition to the property owner, AASF has discussed the project with other stakeholders including: WDFW, City of Redmond, WRIA 8, and the Muckleshoot Tribe. The general consensus is that the channel confinement cause by the covered bridge, lack of LWD, and lack of a riparian buffer should be addressed.

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

Yes

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

The impacts of climate change is a primary impetus for the timing of this project. As temperatures increase, small streams require more than ever an established riparian canopy to reduce the added effect of thermal pollution on stream temperature. This project aims to connect existing and proposed riparian habitat improvement projects along Bear Creek by the aforementioned organizations and agencies.

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

This project will focus on restoring historical conditions as ecological restoration often does. However, with the acceleration of anthropogenic climate change it is unlikely that we will ever be able to truly replicate past conditions. Instead, we can only hope to mimic pre-settlement instream and riparian conditions, providing salmonids with some semblance of the conditions in which they have evolved. It is hoped that this project will provide Chinook salmon with some refuge from climate change and buy them time for adaptions to take place.

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

AASF has 30 years' experience restoring riparian restoration in Snohomish, King and Island counties. Our restoration team has implemented LWD restoration projects in numerous watersheds through funding with the Department of Ecology, Recreation and Conservation Office (SRFB) and private foundations. Since 2009, our team has managed and installed 31 in-stream design-build restoration projects.

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

No

Planning Supplemental

#1: Is the project an assessment / inventory?

No

#2: Is your project a Barrier / Screening Diversion Inventory Project?

No

#3: Is this a fish passage design / screening design project?

No

#4: Will the project develop a design?

Yes

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

Yes

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

As part of the project scope we will be applying for permits. We believe this project will require a WDFW issued HPA, USACE section 401 permit, Section 106 Archeological consultation and a Flood Hazard permit.

Planning Metrics

Worksite: Bear Creek Reach 6 (#1)

Area Encompassed (acres) (B.0.b.1)	2.5
Miles of Stream and/or Shoreline Affected (B.0.b.2)	0.20
	Note: 1055 ft

DESIGN FOR SALMON RESTORATION

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

Total cost for Preliminary design	$109,850
	Note: $24,000 Conceptual + 85,850 for Preliminary Design
Project Identified in a Plan or Watershed Assessment. (1220) (B.1.b.11.a)	Identified in the 2005 WRIA 8 Chinook Salmon Conservation Plan and 2017 10-Year Plan Update, with a focus on protecting and restoring riparian vegetation and floodplain connectivity. This project will address the following Chinook habitat-limiting factors identified in chapter 3 of the 2005 WRIA 8 Chinook Recovery Plan: loss of floodplain connectivity, lack of riparian vegetation, disrupted sediment processes and loss of channel and shoreline complexity.
Priority in Recovery Plan (1222) (B.1.b.11.b)	Bear Creek is a Tier 1 (highest priority) for habitat restoration as identified in the 2005 WRIA 8 Conservation Plan and 2017 Plan Update. The project will address high priority recovery strategies in the 2017 plan, including protecting and restoring floodplain connectivity (page E-1), protecting and restoring riparian vegetation (page E-2), and protecting and restoring channel complexity (page E-3).

CULTURAL RESOURCES

Cultural resources

Total cost for Cultural resources	$26,308
	Note: Historic Resource Associates (HRA) has completed two archeological surveys on this property. One of the surveys HRA completed included some, but not all of the new APE.
Acres surveyed for cultural resources	2.50

AGENCY INDIRECT COSTS

Agency Indirect

Total cost for Agency Indirect	$13,616
	Note: 10% de minimus

Overall Project Metrics

COMPLETION DATE	
Projected date of completion	02/28/2023
SPONSOR MATCH: MONETARY FUNDING	
Amount of other monetary funding (A.12)	$0
Source of other monetary funding (A.12.a)	None.
Timing of other monetary funding	None.
SPONSOR MATCH: DONATED UN-PAID LABOR (VOLUNTEERS)	
Value of Donated Unpaid Labor (Volunteers) (A.13.a.2)	$0
Source of Donated Un-paid labor contributions (A.13.a.4)	None.
SPONSOR MATCH: DONATED PAID LABOR	
Value of Donated Paid Labor (A.13.b.1)	$0
Source of Donated Paid Contributions (A.13.b.2)	None.
SPONSOR MATCH: OTHER IN-KIND CONTRIBUTIONS	
Value of Other In-Kind Contributions (A.13.c.1)	$0
Source of Other In-Kind Contributions (A.13.c.3)	None.
Description of other In-Kind contributions (A.13.c.2)	None.
Metric Match Total	$0

Planning Cost Estimates

Worksite #1: Bear Creek Reach 6

Category	Work Type	Estimated Cost	Note
Agency Indirect Costs	Agency Indirect	$13,616	10% de minimus
Cultural Resources	Cultural resources	$26,308	Historic Resource Associates (HRA) has completed two archeological surveys on this property. One of the surveys HRA completed included some, but not all of the new APE.
Design for Salmon restoration	Preliminary design (B.1.b.11.a RCO)	$109,850	$24,000 Conceptual + 85,850 for Preliminary Design
	Subtotal:	$149,774	
	Total Estimate For Worksite:	$149,774	

Summary

Total Estimated Costs:	$149,774
Total Estimated Planning Costs:	$149,774

Project Application Report - 21-1106

Cost Summary

	Estimated Cost	Project %	Admin/AA&E %
Planning Costs			
Planning	$149,774		
SUBTOTAL	$149,774	100.00 %	
Total Cost Estimate	$149,774	100.00 %	

Funding Request and Match

FUNDING PROGRAM

Salmon State Projects	$149,774	100.00 %

SPONSOR MATCH

Category	Amount	Project %
Match Total:	$0	
Total Funding Request:	$149,774	100.00 %

Questions

#1: Explain how you determined the cost estimates

> Cost estimate is based on AASF experience on similar projects. As well as estimates specific to this project provided by Chinook Engineering and Historic Resource Associates (HRA).

Cultural Resources

Worksite #1: Bear Creek Reach 6

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

No ground disturbances will take place during this phase.

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

Currently is a Mobile Home Park, prior to that is was a turkey farm, Historic ground disturbance included importing approximately 6-8 feet (depth) of fill material.

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

No

Not in this phase. Once preliminary designs are complete, we will apply for a Nationwide permit from USACOE.

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

Unknown

Only if PCSRF is allocated.

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

Yes

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

This is a culturally significant area; two archeological surveys by Historic Resource Associates (HRA) have been completed in or adjacent to the current APE. One of the surveys completed by HRA included some, but not all of the current APE. Based on previous experience with this site it is expected that this project will require an Archeological Survey and the construction will likely require monitoring by an archeologist.

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

Unknown

The designs plan to relocate a covered bridge that constrains the channel. It may be 45 years of age or older.

Project Permits

Permits and Reviews	Issuing Organization	Applied Date	Received Date	Expiration Date	Permit #
Cultural Assessment [Section 106]	DAHP				
Dredge/Fill Permit [Section 10/404 or 404]	Army Corps of Eng.				
Hydraulics Project Approval [HPA]	Dept of Fish & Wildlife				
Nationwide Permit	Army Corps of Eng.				
Other Required Permits					

Note: Flood Hazard FEMA

Attachments

Required Attachments	6 out of 6 done
Applicant Resolution/Authorizations	✓
Cost Estimate	✓
Map: Area of Potential Effect (APE)	✓
Map: Planning Area	✓
Photo	✓
RCO Fiscal Data Collection Sheet	✓

PHOTOS (JPG, GIF)

Photos (JPG, GIF)


464322


464324


464422


465933

PROJECT DOCUMENTS AND PHOTOS

Project Documents and Photos

Project Application Report - 21-1106

File Type	Attach Date	Attachment Type	Title	Person	File Name, Number Associations	Shared
	04/09/2021	Project Review Comments	Proj Review Comments LE, 21-1106P(compl 04/09/21 11:25)	ElizabethB	Project Review Comments Report - 21-1106 (compl 04-09-2021_11-25-01).pdf, 469027	✓
	04/09/2021	Project Review Comments	Proj Review Comments Initial, 21-1106P(compl 04/09/21 11:24)	ElizabethB	Project Review Comments Report - 21-1106 (compl 04-09-2021_11-24-56).pdf, 469026	✓
	04/01/2021	Application Review Report	Grant Manager Comments, 21-1106P(rtnd 04/01/21 15:52)	AliceR	Grant Manager Comments Report - 21-1106 (rtnd 04-01-2021_15-52-49).pdf, 468323	✓
	03/18/2021	Design document	Veg map_rev1.pdf	WalterR	Veg map_rev1.pdf, 467147	✓
	03/18/2021	Design document	Concept map.pdf	WalterR	Concept map.pdf, 467132	✓
	03/18/2021	Design document	Chinook Redds map_right one.pdf	WalterR	Chinook Redds map_right one.pdf, 467131	✓
	03/18/2021	Visuals	Virtual Site Visit Presentation Friendly Phase III.pptx	WalterR	Friendly Phase III reducded size .pptx, 467071	✓
	03/03/2021	Project Application Report	Project Application Report, 21-1106P (sub 03/03/21 13:44:29)	WalterR	Project Application Report - 21-1106 (submitted 03-03-2021_13-44-29).pdf, 465938	✓
	03/03/2021	Photo	Image of Ph II after restoration.JPG	WalterR	Friendly Vill B.JPG.jpg, 465933	✓
	03/03/2021	Cultural Resources: Cultural Resources Survey	CULTURAL Resource Report 2016.pdf	WalterR	CULTURAL Resource Report 2016.pdf, 465929	
	03/03/2021	Design document	Map of Sewer Lines in Project Area.PDF	WalterR	Map of Sewer Lines in Project Area.pdf, 465925	✓
	03/03/2021	Cost Estimate	Budget Sheet FVIII_Final.xlsx	WalterR	Budget Sheet FVIII_Final.xlsx, 465924	✓
	03/01/2021	Application Review Report	Grant Manager Comments, 21-1106P(rtnd 03/01/21 09:53)	ElizabethB	Grant Manager Comments Report - 21-1106 (rtnd 03-01-2021_09-53-00).pdf, 465282	✓
	02/24/2021	Photo	Jan-2021 Looking upstream from Ph II.JPG	WalterR	DSCN2190.jpg, 464422	✓
	02/24/2021	Map: Area of Potential Effect (APE)	APE FV Phase III.jpg	WalterR	APE FV Phase III.jpg, 464324	✓
	02/24/2021	Photo	Footbridge during high flowsJPG	WalterR	DSCN2187.jpg, 464322	✓
	02/17/2021	Project Application Report	Project Application Report, 21-1106P (sub 02/17/21 14:39:07)	WalterR	Project Application Report - 21-1106 (submitted 02-17-2021_14-39-07).pdf, 463199	✓
	02/12/2021	Applicant Resolution/Authorizations	FV PIII App Auth.pdf	WalterR	FV PIII App Auth.pdf, 462831	✓
	02/11/2021	Cultural Resources: Correspondence	Bear Creek Reach 6 Phase III_SOW_CE_20210129.pdf	WalterR	Bear Creek Reach 6 Phase III_SOW_CE_20210129.pdf, 462732	
	02/11/2021	Landowner acknowledgement form	Landowner Ack form Phase III 2021.pdf	WalterR	Landowner Ack form Phase III 2021.pdf, 462731	
	02/11/2021	RCO Fiscal Data Collection Sheet	RCO FiscalDataCollectionSheet_FV PIII 2021 .pdf	WalterR	RCO FiscalDataCollectionSheet_FV PIII 2021 .pdf, 462726	
	02/11/2021	Map: Planning Area	Bear Creek Restoration Phase III.pdf	WalterR	Bear Creek Restoration Phase III.pdf, 462717	✓

Application Status

Application Due Date: null

Project Application Report - 21-1106

Status Name	Status Date	Submitted By	Submission Notes
Application Returned	04/01/2021	Alice Rubin	
Application Resubmitted	03/03/2021	Walter Rung	
Application Returned	03/01/2021	Elizabeth Butler	Thank you Walt, Well done -- just a few questions and clarifications. Plus I hope you can read through to confirm edits are accurate. If you can resubmit by end of day Tuesday, that would be great. If you need more time, please let me know. with gratitude, Elizabeth
Application Submitted	02/17/2021	Walter Rung	
Preapplication	02/02/2021		

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. (Walter Rung, 03/03/2021)

Date of last change: 04/09/2021