PROJECT: 22-1012 REST, TENMILE CREEK PA 68.1 CONSTRUCTION

Sponsor: Asotin Co Conservation Dist Program: Salmon State Projects Status: Preapplication

Parties to the Agreement

PRIMARY SPONSOR

Asotin County Conservation District

Address 720 Sixth St Ste B

City Clarkston **State** WA **Zip** 99403

Org Type District-Conservation

Vendor # SWV0010207-00

UBI

Date Org created

Org Notes

link to Organization profile

☐ Org data updated

SECONDARY SPONSORS

No records to display

LEAD ENTITY

Snake River Salmon Rec Bd LE

QUESTIONS

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

External Systems

SPONSOR ASSIGNED INFO

Sponsor-Assigned Project Number

Sponsor-Assigned Regions

EXTERNAL SYSTEM REFERENCE

Source	Project Number	Submitter
HWS	22-1012	AFitzgerald

Project Contacts

Contact Name Primary Org	Project Role	Work Phone	Work Email
Alice Rubin Rec. and Conserv. Office	Project Manager	(360) 867-8584	alice.rubin@rco.wa.gov
Megan Stewart Asotin Co Conservation Dist	Project Contact	(509) 552-8100	megan@asotincd.org
Brad Riehle Asotin Co Conservation Dist	Alt Project Contact	(509) 552-8117	brad@asotincd.org
Ali Fitzgerald Snake River Salmon Rec Bd LE	Lead Entity Contact	(509) 382-4115	ali@snakeriverboard.org

Worksites & Properties

#	Worksite Name
#1	Tenmile Creek PA 68.1

Restoration	Property Name
✓	Luhn Cattle LLC

Worksite Map & Description

Worksite #1: Tenmile Creek PA 68.1

WORKSITE ADDRESS

Street Address

City, State, Zip

Worksite Details

Worksite #1: Tenmile Creek PA 68.1

SITE ACCESS DIRECTIONS

From Asotin, WA, take Snake River Road along the Snake River.
Turn right onto Weissenfels Rd and drive approximately 1.5 miles.

TARGETED ESU SPECIES

Species by ESU	Egg Present	Juvenile Present	Adult Present	Population Trend
Steelhead-Snake River, Asotin Creek, Threatened	✓	✓	✓	

Reference or source used

Asotin County Geomorphic Assessment WDFW

TARGETED NON-ESU SPECIES

Species by Non-ESU	Notes
Unknown	

Questions

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

none

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Project Location

RELATED PROJECTS

Projects in PRISM

PRISM Number	Project Name	Current Status	Relationship Type	Notes
20-1036 R	Tenmile Creek PA 65, 66, 67 LWD Instream Habitat	Active	Earlier Phase	
15-1308 P	Asotin County Geomorphic-Watershed Assessment	Closed Completed	Earlier Phase	

Related Project Notes

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 Tenmile Creek PA 68.1 Instream Habitat project is located south of the City of Asotin, WA along Tenmile Creek Road. The project begins at RM 3.1 and ends a RM 3.8. Tenmile Creek is listed as an mSA and Priority Protection Reach that flows directly into the Snake River.

#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.

Northwest Marine Fisheries Service. 2017. ESA Recovery Plan for Snake River Spring/Summer Chinook Salmon (Oncorhynchus tshawytscha) & Snake River Basin Steelhead (Oncorhynchus mykiss). Portland, OR.
This project is identified as a top priority and located in a minor spawning area for Steelhead and a priority restoration reach in the Snake River Salmon Recovery Plan and 3 yr workplan.

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

Yes

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

This project was identified in the Asotin County Conceptual Restoration Plan during the Geomorphic and Watershed Assessment that was completed for Asotin, George, Alpowa, Couse and Tenmile Creek watersheds in Asotin County in 2018.

#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: Luhn Cattle LLC (Worksite #1: Tenmile Creek PA 68.1)

✓ **Restoration**

LANDOWNER

Name	Luhn Cattle LLC
Address	PO Box 819
City	Asotin
State	WA Zip 99402

CONTROL & TENURE

Instrument Type	Landowner Agreement
Timing	Proposed
Term Length	Fixed # of years
# Yrs	10

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Type Private

Expiration Date 12/31/2032

Note

Project Proposal

Project Description

The Asotin County Conservation District is sponsoring the Tenmile Creek PA 68.1 Instream Habitat Project to install large woody debris structures to promote overbank flow, increase complexity and improve sediment and water retention. PA 68 was identified as a Tier 1 project area in the Asotin County Conceptual Restoration Plan. The total reach length for the proposed project is 0. 7 miles. The Tenmile Creek PA 68.1 Instream Habitat project is located south of the City of Asotin, WA assessable by Weissenfels Ridge Road. The project begins at RM 3.1 and ends a RM 3.8. Tenmile Creek is listed as an mSA and Priority Restoration Reach that flows directly into the Snake River.

Project Questions

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

Tenmile Creek supports the ESA listed Snake River summer steelhead. This project covers a 0.7-mile section of Project Area 68 which was identified in the Asotin County Conceptual Restoration Plan.
In Project Area 68, the current geomorphic function is moderate with brief pockets of recovering fluvial and riparian processes. The primary limitations to geomorphic and floodplain condition include limited floodplain access, irregularity of floodplain inundation, limited large woody debris and low hydraulic and geomorphic complexity. Flows usually go subsurface by midsummer, but pools can be found in areas with dense riparian canopy.
The project area is owned by one landowner and is enrolled in the Conservation Reserve Enhancement Program. This has allowed the vegetation to start to recover but overall, the site still lacks large woody debris needed to encourage natural stream processes and provide salmonid habitat.
The Asotin Conceptual Restoration Plan identifies improving access to the floodplain and flood channels, promoting overbank flow and adding structural elements as priorities for this project area while protecting the existing riparian vegetation. This project seeks to develop a site plan and implement through this 0.7-mile reach.

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

The primary limiting factors identified in the Asotin Conceptual Restoration Plan for PA 68 include flow, habitat diversity , sediment load, temperature and key habitat quantity for steelhead. Fish life stages identified for PA 68 included migration, spawning, rearing and holding.

#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 goal of this project is to implement actions to address the management objectives that were identified in the Asotin County Conceptual Restoration Plan for PA 68. The project will improve hydraulic and geomorphic complexity, promote overbank flows, increase sediment sorting and improve water retention. Sections of this reach do not support perennial stream flows which limits the function of stream and floodplain and has restricted riparian establishment. The addition of LWD will provide structural elements throughout the project area to continue improving riparian and geomorphic stream function. This project area is in relatively good condition and was listed as a Tier 1 project that would be likely to provide an immediate physical and biological response to address the limiting factors.

#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**

The objective of this project is to:
• improve access to 1500 feet of flood channel habitat to support juvenile rearing and over-wintering habitat
• provide 4 acres of floodplain connectivity with a target of overbank flows at the 2-year flow reoccurrence
• install 40 LWD structures over approximately 3,700 feet of channel length to provide instream channel complexity and promote overbank flows

#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.

Pre-Funding Scope of Work:
We will be monitoring the site starting in April 2022 to identify stream conditions and flow changes from the high flows (runoff) and continue monitoring throughout the summer and fall as flows reduce and eventually go subsurface. This will provide us with valuable data that will inform the site plan that will be developed. The ACCD staff will take aerial video and photos utilizing the ACCD drone to document site and flow changes.
Post-Funding Scope of Work:
Site investigation – Stream assessment and Identify structure placement
- September 2022 - March 2023
Develop Site Plan – Plan will identify structure locations and type including material and quantities needed. It will also include generic designs for PALS and BDAs and location specific designs for the engineered logs structures
- February – April 2023
Secure Permits – Utilize JARPA to secure HPA, Shoreline and other required permits for project
- January - April 2023
Construction Prep – Secure and stage materials
- May - July 2023 and 2024
Install Structures - Install structures during the instream work window
- July – September 2023 and 2024
Assess & Monitor Structures – Complete as-built design, GPS all structures and establish photo/video monitoring points. Site visits during and after high flow periods to assess and document effectiveness
- Late fall, winter and spring 2024 and 2025
Close Out – Complete documentation and final reporting for project closeout
Spring/Summer 2025

#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?

There is one private landowner in the project area and he has already provided support for this project to be developed. He will be included in the review and development of the site plans. There has been significant recovery to the riparian vegetation throughout the project area and it will be a high priority to limit damage to the recovery riparian zones.

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

Over the past decade, the technique of using PALS and BDAs has been a popular method to improve instream conditions. There has been a great deal of success documented throughout the region. However, project implementors are finding that some of the initial structures were too small in scale. The recommendation being provided is to increase the size of the PALS that are being built to maximize the function of the structure. We utilized this strategy on the project areas immediately downstream of PA 68.1 and on Couse Creek during the past two years.

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

In the past heavy equipment was used for instream restoration projects. Since the Asotin Creek IMW introduced the use of low-tech Post Assisted Log Structures (PALS) and Beaver Dam Analogs (BDA,) the implementation of restoration projects in small streams shifted to utilizing techniques that have less disturbance to the stream and riparian vegetation.

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

This project was identified during the Asotin County Geomorphic and Watershed Assessment development. The conceptual restoration plan was developed as a result of the process and this project was included in the plan. Landowners were engaged throughout the Assessment and Conceptual Restoration Plan development through public meetings and onsite visits. There has been no opposition to the conceptual restoration plan that was developed for PA 68. This project is being proposed on private property and the landowner is willing to proceed with the development of a complete site plan and implementation of the project. There are no identified public safety concerns identified at this time. In the event there is a safety concern identified, ACCD will address the concerns while completing the site plan and designs.

#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?

Many streams in Asotin County, including Tenmile Creek, originate in the Blue Mountains and the current hydrologic regime is snow-rain dominated for these streams, however it is anticipated to shift to a rain dominated regime. This will likely decrease summer base flows and increase summer water temperatures. Healthy stream and riparian areas conditions are essential during climate change shifts since they provide a critical location in the ecosystem for habitat for both fish and wildlife. The restoration work proposed will improve the resiliency of the project area and overall watershed.

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

This project will result in the implementation of structures and instream habitat rehabilitation increasing salmon and steelhead resiliency to climate change.

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

The Asotin County Conservation District has been managing natural resource and habitat improvement projects for several years. We have built positive relationships with the landowners of Asotin County and have been successful in implementing projects from start to finish. Asotin County Conservation District also has great relationships with technical partners throughout the region and has utilized their expertise as needed.

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

No

Restoration Supplemental

#1: What level of design (per Appendix D) have you completed? Please attach.
Conceptual

#1a: What level of design will be produced prior to construction?
Preliminary

#2: Will (or did) a licensed professional engineer design the project?
No

#2a: Describe the qualifications of the design team.

This project will consist of placing low-tech process base structures (PALS & BDA). The ACCD staff has been trained by Ecological Research, Anabranch and Cramer Fish teams on how to develop site plans for low-tech projects. The site plans are reviewed by SRFB and BPA environmental staff prior to implementation.

#3: Does the project include measures to stabilize an eroding stream bank?
No

#4: Is the primary activity of the project invasive species removal?
No

#5: Is the primary activity of the project riparian planting?
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.

ACCD will require all equipment used by the contractor/crew to be cleaned and inspected prior to accessing the project site. There will be a dip station available for everyone to treat boots and waders prior to accessing the site. If there are any areas disturbed during construction, it will be seeded with a native grass mix.

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

While we do not anticipate significant maintenance, we do plan on providing wood supplements to the PALS and BDAs over the 10-year project life. ACCD will conduct site evaluations annually to determine the function of the structures and what maintenance is needed. We will utilize the Washington Conservation Crew to conduct any maintenance work that is identified.

Restoration Metrics

Worksite: Tenmile Creek PA 68.1 (#1)

Miles of Stream and/or Shoreline Treated or Protected (C.0.b)	0.70
Project Identified In a Plan or Watershed Assessment (C.0.c)	Northwest Marine Fisheries Service. 2017. ESA Recovery Plan for Snake River Spring/Summer Chinook Salmon (Oncorhynchus tshawytscha) & Snake River Basin Steelhead (Oncorhynchus mykiss). Portland, OR. Asotin County Watershed Assessment and Conceptual Restoration Plan
Priority in Recovery Plan	The project is identified as a top priority and located in a minor spawning area for steelhead and a priority restoration reach in

	the Snake River Salmon Recovery Plan and 3 year workplan
Type Of Monitoring (C.0.d.1)	Implementation Monitoring
Monitoring Location (C.0.d.2)	Onsite

INSTREAM HABITAT PROJECT

Total Miles Of Instream Habitat Treated (C.4.b)	0.70

Channel structure placement (C.4.d.1)

Total cost for Channel structure placement	$41,300
Material Used For Channel Structure (C.4.d.2)	Individual Logs (Anchored)
Miles of Stream Treated for channel structure placement (C.4.d.3)	0.70
Pools Created through channel structure placement (C.4.d.5)	15
Number of structures placed in channel (C.4.d.7)	40

CULTURAL RESOURCES

Cultural resources

Total cost for Cultural resources	$6,000
Acres surveyed for cultural resources	25.85

PERMITS

Obtain permits

Total cost to Obtain permits	$2,000
Number of permits required for implementation of project	

ARCHITECTURAL & ENGINEERING

Architectural & Engineering (A&E)

Total cost for Architectural & Engineering (A&E)	$13,000

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Overall Project Metrics

COMPLETION DATE	
Projected date of completion	07/31/2025

Restoration Cost Estimates

Worksite #1: Tenmile Creek PA 68.1

Category	Work Type	Estimated Cost	Note
Cultural Resources	Cultural resources	$6,000	
Instream Habitat Project	Channel structure placement (C.4.d.1)	$41,300	
Permits	Obtain permits	$2,000	
	Subtotal:	$49,300	
Admin, Architecture, and Engineering		$13,000	
	Total Estimate For Worksite:	$62,300	

Summary

Total Estimated Costs Without AA&E:	$49,300
Total Estimated AA&E:	$13,000
Total Estimated Restoration Costs:	$62,300

Cost Summary

	Estimated Cost	Project %	Admin/AA&E %
Restoration Costs			
Restoration	$49,300		
Admin, Architecture, and Engineering	$13,000		26.37 %
SUBTOTAL	$62,300	100.00 %	
Total Cost Estimate	$62,300	100.00 %	

Funding Request and Match

FUNDING PROGRAM

Salmon State Projects	$43,600	69.98 %

SPONSOR MATCH

Other Monetary Funding	Grant - Federal		
Amount			$18,700.00
Funding Organization			Bonneville Power Administration (BPA)
Grant Program			Fish & Wildlife Program
	Match Total:	$18,700	30.02 %
	Total Funding Request (Funding + Match):	$62,300	100.00 %

Questions

#1: Explain how you determined the cost estimates

There have been several LWD projects completed throughout the region. Based on those project costs and the priorities for this project area the cost estimates were determined.

Cultural Resources

Worksite #1: Tenmile Creek PA 68.1

#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)

The project will consist of implementing instream structures utilized low-tech installation methods. There has been a staging area identified where equipment and materials will be stored during the project implementation.

#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.

Post-Assisted Log Structures (PALS):
Woody material of various sizes will be pinned together with untreated wooden posts (<4" diameter) driven into the substrate. Untreated wooden posts will be pounded 2-3 feet into the stream bed using a hand-held pneumatic post-pounder. Approximately 4-15 posts per structure, plus the addition of woody debris (small trees and branches) woven between posts by hand.
Beaver Dam Analogue (BDA) Structures:
A permeable, channel spanning structure with a constant crest elevation constructed with a mixture of woody debris and fill material to form a pond and mimic a natural beaver dam. BDAs will be installed in the stream bed and channels within the floodplain. Scouring of stream bed will be completed using hand-tools and buckets to build subsequent layers of substrate between 6"-12" into BDA formation. Fine woody debris and additional sediment will be woven by hand between and on top of layers. BDA installations are "post-assisted," and 4-20 treated wooden posts will be inserted into the stream bed using a hand-held pneumatic post-pounder. Depth of disturbance will be variable depending on location of structure, design, and woody materials characteristics, usually less than 2 feet of sediment will be moved to form layers of BDA. Equipment to be used includes a hand-held pneumatic post-pounder and a generator to power it, chainsaw, handsaws, sledgehammers, shovels, and rock bars. An ATV will be used for staging materials on site.

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

None

#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 valley is confined, flow goes subsurface or puddles throughout this PA and the riparian function is moderate to high. The primary limiting factors are low or no flow, oversupply of sediment, high stream temperatures, and limited geomorphic and hydraulic diversity due to few structural elements. This section is dominated by very coarse substrate and an undefined channel. Low flow conditions are mostly natural due to changes in the elevation of the bedrock in relation to the thickness of the alluvium. Vegetation is made up of Red Alder, Ponderosa Pine, various shrub species. Historically the land was used for cattle grazing. Currently the project area is enrolled in CREP and the adjacent land is use for grazing cattle.

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

#5a: List the agency that will be issuing the permit and the date you anticipate applying for and receiving the permit. Will the federal permit cover ALL proposed ground disturbing activities included in the project?

US Army Corps of Engineers- Dredge/Fill (404)
US Fish & Wildlife- ESA Compliance
We anticipate applying for permits in January 2023 to have them secured prior to the 2023 work window. All ground disturbing activities that require federal permits will be covered by the permits that are secured.

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

Yes

#6a: Please list the federal agency and funding sources.

BPA

#6b: Does the federal funding you are utilizing as match require you to receive state funding?

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.

The lower portion of the access road that was included for project implementation for PA 65-67 was survey. (20-1036) BPA was the lead agency for the survey.

#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 Permits

Permits and Reviews	Issuing Organization	Applied Date	Received Date	Expiration Date	Permit #
Archeological & Cultural Resoures (EO 05-05)	DAHP				
Cultural Assessment [Section 106]	DAHP				
Dredge/Fill Permit [Section 10/404 or 404]	Army Corps of Eng.				
Endangered Species Act Compliance [ESA]	US Fish & Wildlife				
Hydraulics Project Approval [HPA]	Dept of Fish & Wildlife				
Water Quality Certification [Section 401]	County/Dept of Ecy.				

Permit Questions

#1: Are you planning on using the federal permit streamlining process? **Limit 8**

Yes

Attachments

Required Attachments	5 out of 6 done
Applicant Resolution/Authorizations	
Cost Estimate	✓
Landowner acknowledgement form	✓
Map: Restoration Worksite	✓
Photo	✓
RCO Fiscal Data Collection Sheet	✓

PHOTOS (JPG, GIF)

Photos (JPG, GIF)


499194


499195


499197


499198

PROJECT DOCUMENTS AND PHOTOS

Project Documents and Photos

File Type	Attach Date	Attachment Type	Title	Person	File Name, Number Associations	Shared
	02/03/2022	Landowner acknowledgement form	Appendix_F_Landowner_Ack_Form - Luhn_68.1.pdf	BradR	Appendix_F_Landowner_Ack_Form - Luhn_68.1.pdf, 499284	
	02/02/2022	Photo	IMG_0753.JPG	BradR	IMG_0753.jpg, 499198	✓
	02/02/2022	Photo	IMG_0742.JPG	BradR	IMG_0742.jpg, 499197	✓
	02/02/2022	Photo	IMG_0735.JPG	BradR	IMG_0735.jpg, 499195	✓
	02/02/2022	Photo	IMG_0776.JPG	BradR	IMG_0776.jpg, 499194	✓
	02/02/2022	Map: Restoration Worksite	Maps_PA 68.1.pdf	MeganS	Maps_PA 68.1.pdf, 499168	✓
	01/31/2022	RCO Fiscal Data Collection Sheet	FiscalDataCollectionSheet 2022.pdf	MeganS	FiscalDataCollectionSheet 2022.pdf, 498932	
	01/21/2022	Cost Estimate	SRFB_Cost_Estimate - Tenmile PA 68.1.xlsx	MeganS	SRFB_Cost_Estimate - Tenmile PA 68.1.xlsx, 498141	✓

Application Status

Application Due Date: 06/27/2022

Status Name	Status Date	Submitted By	Submission Notes
Preapplication	01/03/2022		

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.

Date of last change: 02/04/2022

Asotin Co Conservation Dist; Tenmile Creek PA 68.1 Construction (#22-1012)

Attachment #499197, IMG_0742.JPG

Asotin Co Conservation Dist: Tenmile Creek PA 68.1 Construction (#22-1012)

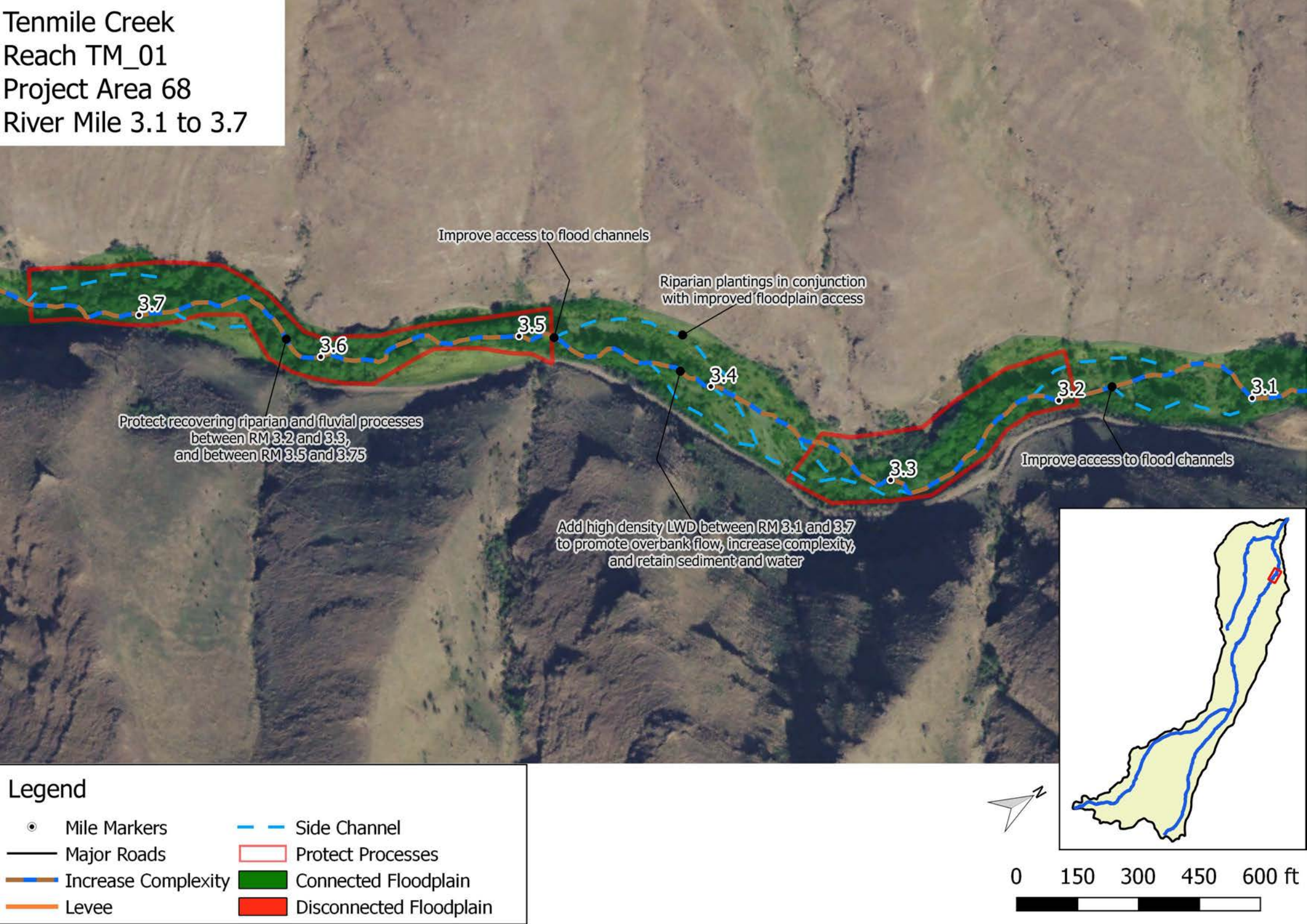
Attachment #499198, IMG_0753.JPG

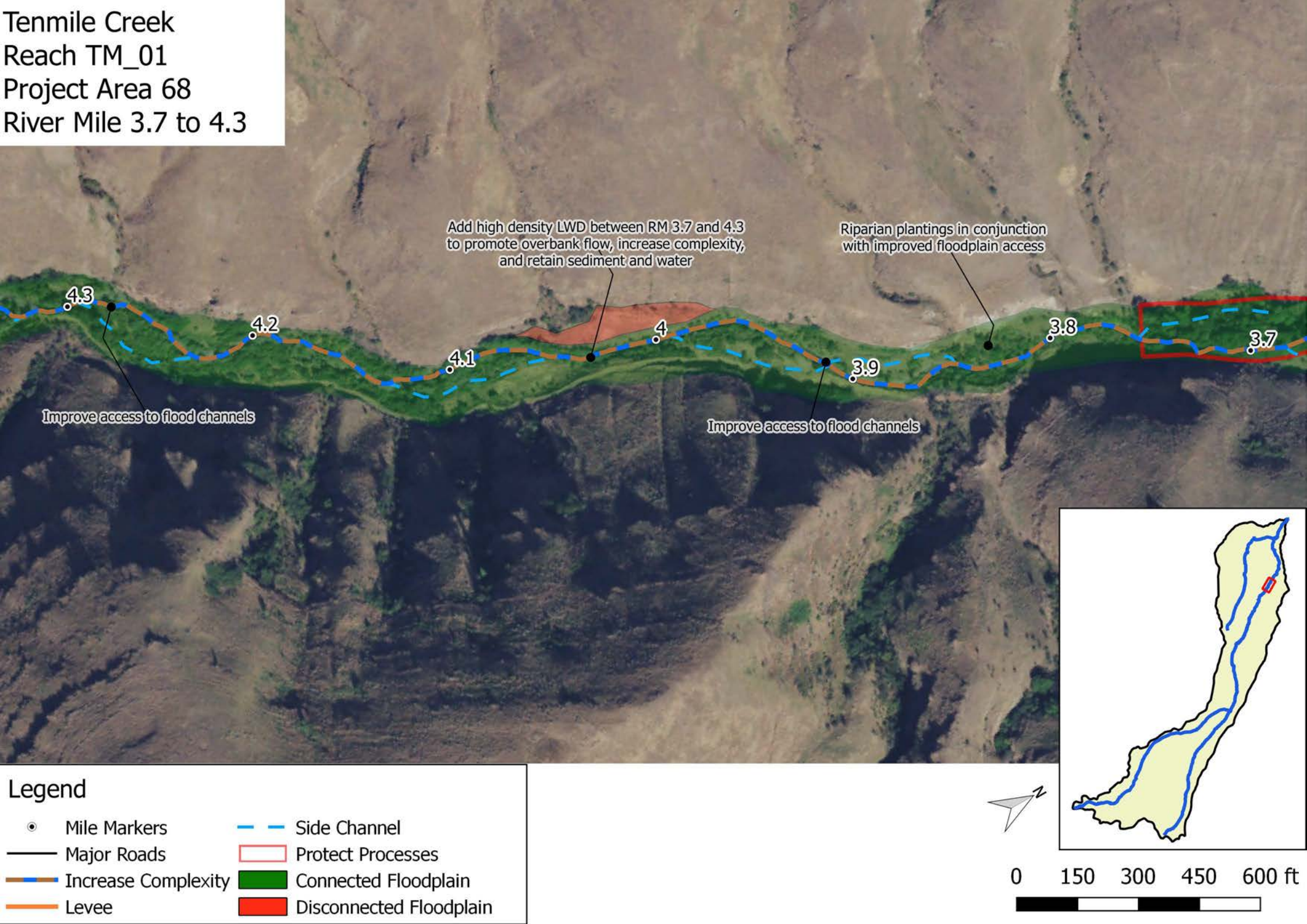
Asotin Co Conservation Dist: Tenmile Creek PA 68.1 Construction (#22-1012)

Attachment #489194, IMG_0776.JPG

Asotin Co Conservation Dist: Tenmile Creek PA 68.1 Construction (#22-1012)

Attachment #489195, IMG_0735.JPG


Tenmile Creek
Reach TM_01
Project Area 68
River Mile 3.1 to 3.7
Improve access to flood channels
Riparian plantings in conjunction with improved floodplain access
3.7
3.6
3.5
3.4
3.3
3.2
3.1
Protect recovering riparian and fluvial processes between RM 3.2 and 3.3, and between RM 3.5 and 3.75
Add high density LWD between RM 3.1 and 3.7 to promote overbank flow, increase complexity, and retain sediment and water
Improve access to flood channels
Legend
Mile Markers
Major Roads
Increase Complexity
Levee
Side Channel
Protect Processes
Connected Floodplain
Disconnected Floodplain
N
0
150
300
450
600 ft


Tenmile Creek
Reach TM_01
Project Area 68
River Mile 3.7 to 4.3
Add high density LWD between RM 3.7 and 4.3 to promote overbank flow, increase complexity, and retain sediment and water
Riparian plantings in conjunction with improved floodplain access
4.3
4.2
4.1
4
3.9
3.8
3.7
Improve access to flood channels
Improve access to flood channels
Legend
Mile Markers
Major Roads
Increase Complexity
Levee
Side Channel
Protect Processes
Connected Floodplain
Disconnected Floodplain
N
0
150
300
450
600 ft

Salmon Recovery Funding Board cost estimate template

These budget sheets will assist the SRFB Review Panel in evaluating each project.
At least one budget detail template must be completed for a project proposal.
Applicants are encourage to consult RCO manuals for more information.
Instructions:

* Depending on the type or combination project, applicants should complete one or more budget sheets
* **Hover over a red flag** to view additional details
* The "budget check" column will calculate errors automatically. Cells in this column should = 0
* PLEASE **do not delete** rows, just leave the row blank
* Do not include a line item for contingency in your cost estimates. Ensure that each of your budget line items account for inflation and contingenci
* It is important to **account for all costs** associated with completing a project, both required match and other sources of funding
* If you need addition rows, insert them making sure the Total is picking up all the items in the section
* The "Total All Sheets" automatically gathers costs from the three different project types

* For more information see the appropriate RCO Manual

Acquisition	Manual 3
Restoration	Manual 5
Design	Manual 18, Appendix D

Please complete the following information	
Project Name	Tenmile Creek PA 68.1 LWD Instream Habitat
SRFB #	22-1012
Sponsor	Asotin County Conservation District

RESTORATION

See SRFB Manual 5 for additional information regarding allowable costs.

				OVERALL PROJECT	GRANT REQUEST	MATCH			
				Budget must account for all costs to complete the project	*Enter only the amount of the grant request*	*The Grant Request and Match should equal the total project cost and Budget Check cell should be 0. Sponsors must account for all sources and types of match need to complete the project.*			
				Amount	Amount	Match in PRISM	Funding not reported in PRISM	Source (Grant, Cash, Materials, Labor, Volunteers, etc)	Match Type (federal, state, local)
Construction									
Category (choose one)	**Task Description**	**Qty**	**Rate**						
Construction supervision	*Installation Oversight*	140.00	$ 50.00	$ 7,000	$ 7,000		$ -	BPA	Federal
Permits	*Permits*	1.00	$ 2,000.00	$ 2,000	$ 2,000	$ -	$ -		
Cultural resources	*Cultural Resources*	1.00	$ 6,000.00	$ 6,000	$ 4,000	$ 2,000			
Construction	*Stage Material/Site Prep*	2.00	$ 4,000.00	$ 8,000	$ 4,100	$ 3,900		BPA	Federal
Equipment and equipment use	*Equipment Rental - Post driver, generator, etc*	1.00	$ 1,500.00	$ 1,500	$ 1,500	$ -		BPA	Federal
Construction labor	*Installation*	2.00	$ 4,000.00	$ 8,000	$ 8,000	$ -		BPA	Federal
Materials	*LWD*	40.00	$ 300.00	$ 12,000	$ -	$ 12,000		BPA	Federal
Materials	*Wood Posts*	480.00	$ 10.00	$ 4,800	$ 4,000	$ 800		BPA	Federal
			STotal	**$ 49,300**	**$ 30,600**	**$ 18,700**	**$ -**		
Administrative, Architechtural & Engineering									
Category	**Task Description**	**Qty**	**Rate**						
Administrative	*Grant Administration*	1.00	$ 9,600.00	$ 9,600.00	$ 9,600	$ -	$ -		
Data collection	*Site Assessment*	32.00	$ 50.00	$ 1,600.00	$ 1,600	$ -	$ -		
Final design	*Design/Engineering*	16.00	$ 50.00	$ 800.00	$ 800	$ -	$ -		
Other	*As-Built /Reporting*	20.00	$ 50.00	$ 1,000.00	$ 1,000	$ -	$ -		
			$ -	$ -	$ -	$ -	$ -		
			$ -	$ -	$ -	$ -	$ -		
			$ -	$ -	$ -	$ -	$ -		
			$ -	$ -	$ -	$ -	$ -		
			STotal	$ 13,000	$ 13,000	$ -	$ -		
Indirect Costs									
	Description	**Approved Rate**	**Total Project Base**						
	Indirect	0.000%	$ -	$ -	$ -	$ -	$ -		
	Indirect	0.000%	$ -	$ -	$ -	$ -	$ -		
			STotal	$ -	$ -	$ -	$ -		
			GTOTAL	**$ 62,300**	**$ 43,600**	**$ 18,700**	**$ -**		

AA&E Budget Check

A&E maximum allowed in PRISM $ *14,790.00*

A&E validation 1,790

PRISM Project Total $ 62,300

RCO Percentage **69.98%**

Match Percentage **30.02%**